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Be Prepared!
37th Annual AHCA Seminar and Expo
October 17-19, 2021

The Importance of Owner Design Standards

Course Number: AHCA2021_04

Credit Designation: 1 LU| HSW

AIA CES Provider Number: E240

October 18, 2021



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1

OBJECTIVE

Learn the UM's processes to develop Standard Designs for our Clinical Operations. Several UM Standards will be reviewed with Lessons Learned

2

OBJECTIVE

Implementing Lessons Learned with Design Consultants.

3

OBJECTIVE

Construction Lessons Learned including value of Mock-up.

4

OBJECTIVE

Participants will understand and be able to work on implementing Standards at their Facilities as well as have a greater understanding of the value of having Standard Designs.

Science will Win



The Importance of Owner Design Standards

*Elizabeth Delgado, Senior Interior Designer
Edward L. Hengtgen, LEED AP, RA, Assistant VP
Facilities Operations and Planning
Planning Design and Construction*

University of Miami Health System - UHealth



Only NCI-Designated
Cancer Center in South Florida



Bascom Palmer Eye Institute
Ranked #1 in USA
By U.S. News and World Report in
Ophthalmology for the 20th Time!



UHealth Tower
**UHealth Ranked #2 in South
Florida - Health Care Systems**

The University of Miami Health System delivers leading-edge patient care by the region's best doctors, powered by the groundbreaking research of the University of Miami Leonard M. Miller School of Medicine. As South Florida's only University-Based Health System, UHealth is a vital component of the community that is leading the next generation of health care.

UHealth combines exceptional patient care, breakthrough research, and novel education to create an innovative approach to health care. Within the UHealth system, patients can participate in clinical trials and benefit from the latest discoveries that are fast-tracked from the laboratory to the bedside.

UHealth is made up of more than 1,200 physicians and scientists who are highly trained specialists focused on providing state-of-the-art medical care. From diagnosis to treatment and follow-up, physicians work in teams to deliver care that is tailored to each patient.

Patients from around the world turn to UHealth - University of Miami Health System in their search for expert care from our top ranked physicians. UHealth is home to the number one eye hospital in the United States, Bascom Palmer Eye Institute, the only NCI-designated cancer center in South Florida, Sylvester Comprehensive Cancer Center, a pioneering minimally invasive cardiac surgery program, and offers expertise in more than 100 medical specialties. UHealth's comprehensive network also includes more than 30 outpatient sites in Miami-Dade, Broward, Palm Beach, and Collier counties.

FOP – PDC Department Overview



- **Currently Managing over 580 Active Projects In excess of \$1.3 BILLION Dollars as part of our 5 Year Capital Plan!**
- **PDC Services;**
 - Project Management, planning and programming, campus architecture and design, building and signage standards, interior design standards, sustainability, and capital budgeting support.
- **Projects Include;**
 - Healthcare (hospital and non-hospital based), Administration, and Academic Research.
- **Project Types include;**
 - New Buildings, Renovations, Master Planning, Interior Design, Campus Improvements, Deferred Maintenance & Utilities, Programming and Space Planning, Development Initiatives and Forecasting.
- **PDC Department Staffing;**
 - 28 Staff and Support
 - Licensed Architects, Interior Designers and Engineers

FOP – PDC Projects



Lennar Foundation Medical Center

Architect: Perkins + Will

Size: 206,000 sf

Budget: \$155 M

FOP – PDC Projects



Bascom Palmer Eye Institute Naples

Architect: Gresham, Smith and Partners

Size: 20,000 sf

Budget: \$20 M

FOP – PDC Projects



UHealth SCCC Proton
Architect: Stantec
Size: 155,000 sf
Budget: \$50M

FOP – PDC Projects



New Cancer Research Building

Architect: HOK

Size: 155,000 sf

Budget: \$150M



Background on Standards. UM Legacy Projects

The Advantages of Design Standards

- Design standards **can improve patient care and outcomes**
 - Identifying best design standards for specified spaces achieves consistent operational practices which ultimately improve patient outcomes.
- Design standards **can improve patient satisfaction and staff retention.**
- **Consistent experience** for patient and staff
- Design standards allow for an **accurate representation of the brand**
- Provides a plan to **communicate goals and expectations to Consultants and Users**



**Manage
Patient
Satisfaction
and Staff
Retention.**



The Advantages of Design Standards for UHealth

- **UM Repetitive Space Consistency**
- **Multiple Sites - 5 million Square feet of space**
- **30 Outpatient Clinical Buildings (3 in Design)**
- **1,200 Exam Rooms (165 in Design)**
- **330 CTU Bays/Pods (150 in Design)**
- **65 Operating Rooms (14 in Design)**



UM Legacy Projects, Emphasizing the need for Standards



Gloves and sharps together.

Clutter



Battery Clock

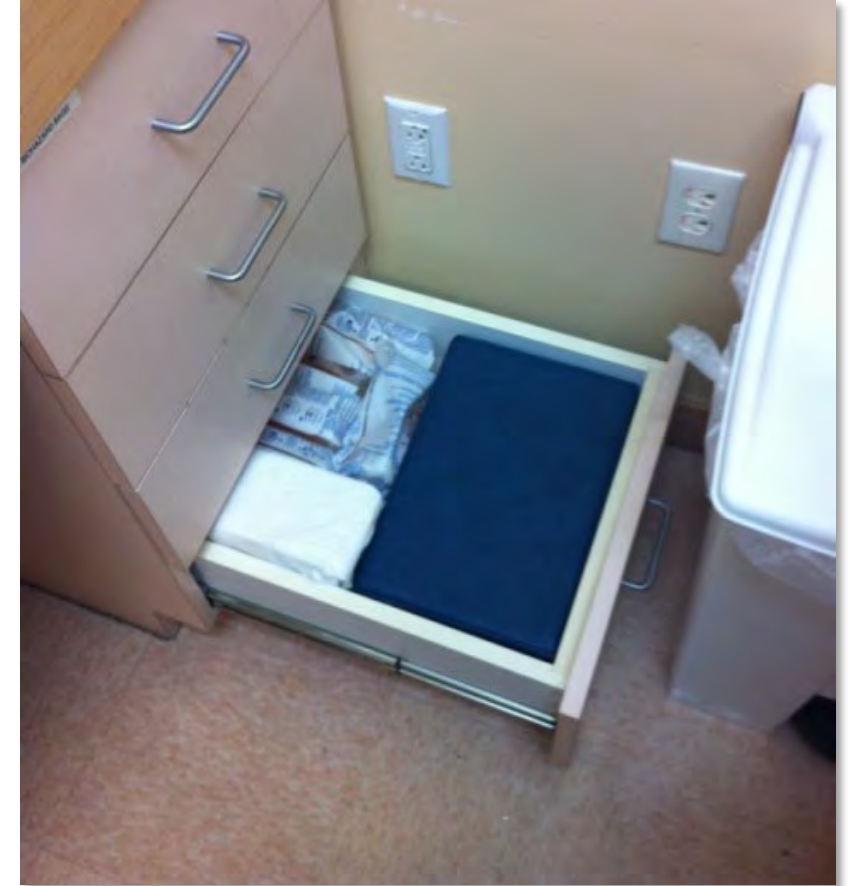


Unorganized Educational material to give to patients



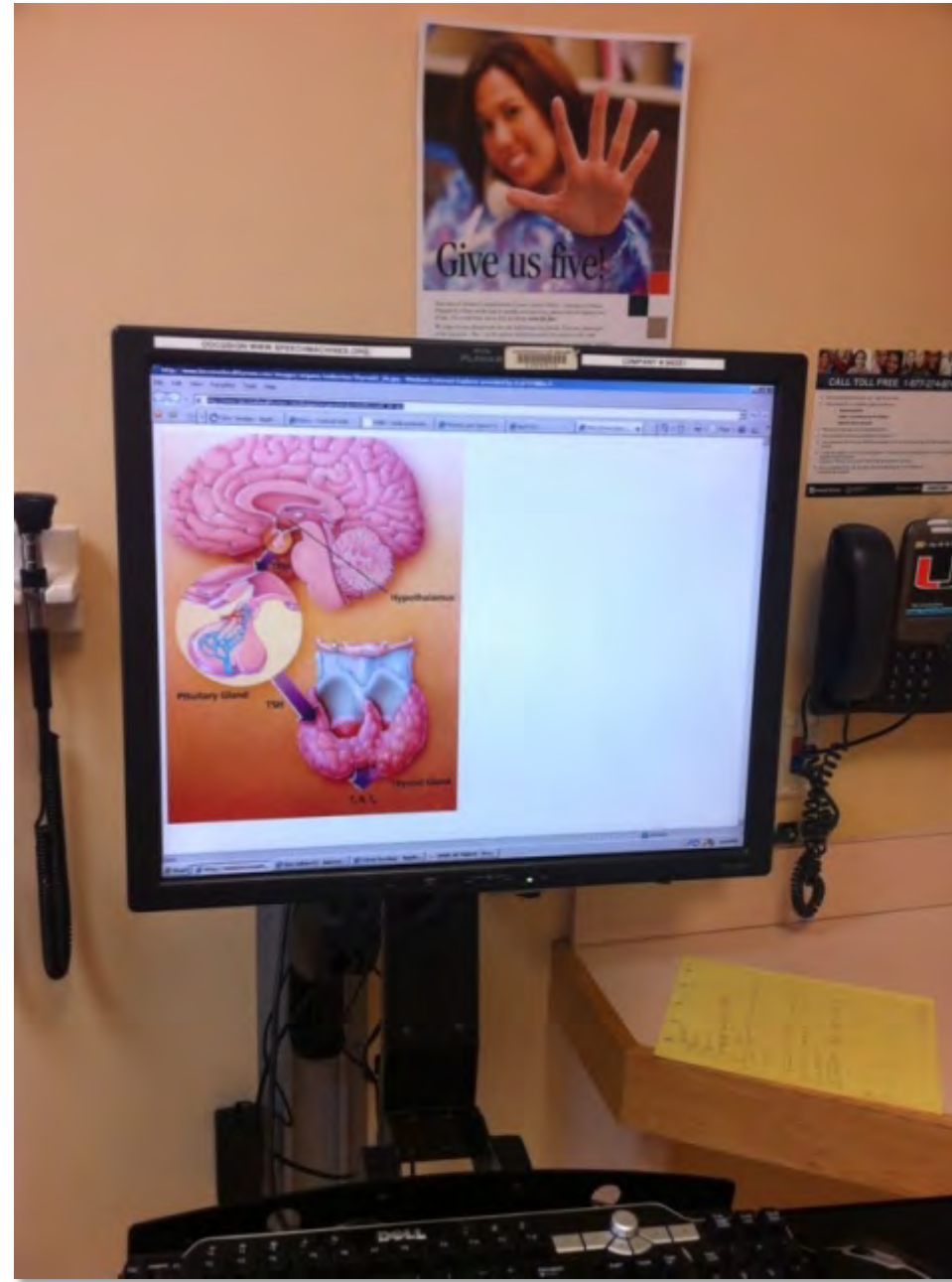
Misc Supplies unorganized

UM Legacy Projects, Emphasizing the need for Standards



Drawers just filled with miscellaneous supplies

UM Legacy Projects, Emphasizing the need for Standards



Having material posted on wall is not good for multi discipline clinics. Patients see the cancer poster and get worried.

We need to be using monitor with favorite web sites to show pictures of related exam visit information.

Posters and other material taped looks unprofessional.

UM Legacy Projects, Emphasizing the need for Standards



Brochures on
Countertop.

Sink in Counter
contaminates any
supplies laid out
on Countertop



Upper Cabinets
have linen
storage.
Very unkept.



Dirty linen hole in
counter, contaminates
the counter. Soiled
Linen below counter.



Drawers
storing
junk/empty/
underutilized

UM Legacy Projects, Emphasizing the need for Standards



Hand Washing Sink in Counter, Contaminates Counter items.

Red bag trash needs to be omitted and use of small bags to reduce cost of disposal and non-red bag waste from being included.



Large white trash receptable needs room, bad graphics.

Drawers with misc. supplies or empty



Soiled linen hamper with front load.



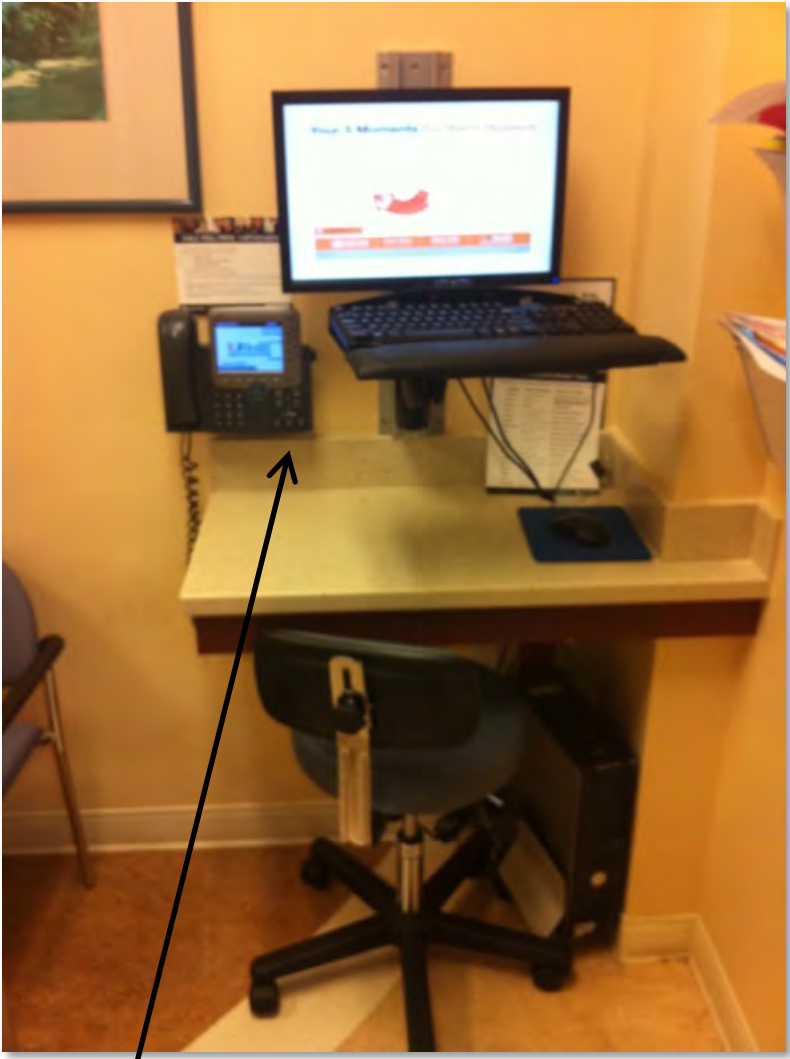
Cluttered Counters

Drawers with misc. supplies or empty

UM Legacy Projects, Emphasizing the need for Standards



Poor Wire Management, No Outlet Below



Wall Mounted Phone and Monitor



File/Chart Holders. Old Film Illum.



CPU on floor. Poor wire management.

Typical Desk Area – Existing Exam Rooms

UM Legacy Projects, Emphasizing the need for Standards



Guest Chair Wall Damage



The back of the Physician's chair, adjustment knob damages walls.



Wall below the desk consistently marked up with shoe scuff marks.
Poor wire mgt. CPU on floor.

Typical Desk Area – Wall Damage

UM Legacy Projects, Emphasizing the need for Standards



Physician's Chair



Guest Chairs

Wall protection
added due to chairs
damaging wall



Physical Plant Partnership

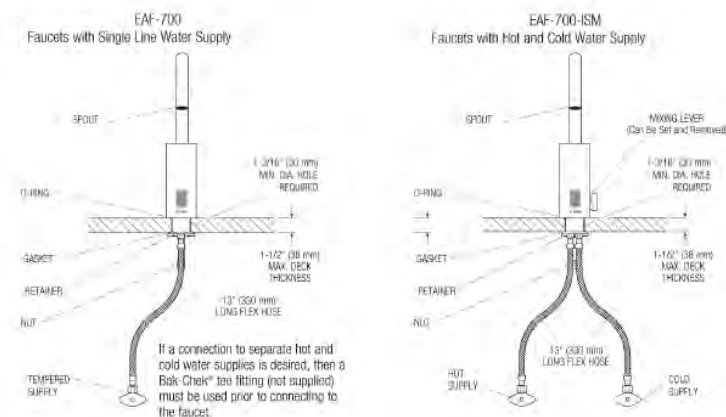
Standards for Physical Plant and Maintenance Personnel

- Provides a **turn-key maintenance plan**
 - Consistent materials and products makes it easier when maintenance is needed.
- Provides **efficiency** for personnel maintaining the buildings.
- Sharing Finish Standards with Physical Plant and maintenance personnel allows them to keep materials **in stock** and **readily available**.
- Prepares maintenance personnel on **what to expect**.
- Improves **communication** between Physical Plant, Maintenance Personnel, and Design and Construction Teams.



Standards for Physical Plant and Maintenance Personnel

ROUGH-IN



SLOAN

CODE NUMBER
3335079

DESCRIPTION
Plug Adapter Power Supply, Integrated Side Mixer, Polished Chrome Finish, 1.5 gpm, Laminar Spray, Infrared Sensor, Optima® Hardwired-Powered Deck-Mounted Gooseneck Body Faucet.

- DETAILS**
- Flow Rate: 1.5 gpm (6 Lpm) (1.5GPM)
 - Spray Type: Laminar (LAM)
 - Sensor Type: Infrared (IR)
 - Mounting Type: Single Hole
 - Power Supply: Plug Adapter (PLG)
 - Temperature Mixer: Integrated Side Mixer (ISM)
 - Finish: Polished Chrome (CP)
 - Factory Default Timeout: 30s
 - Factory Default GPC: 0.75

FEATURES
Commercial Grade, ADA Compliant, Electronic, Sensor-Activated, Cast Brass Gooseneck Hand Washing Faucet with the following features:

- 12/24 hour Hygienic Rinse Line Purge Function - Field Settable
- Unitary Spout Housing Assembly for Easy Cleaning
- Modular One-piece Construction with all Concealed Components above deck
- Double Infrared Sensors with Automatic Setting Feature and Microprocessor
- Bi-stable Magnetic Solenoid Valve
- Water Supply Connection with Flexible High-pressure Hose and Strainer
- 123 VAC/6.75 VDC Plug-in Adapter (must be ordered separately for Less Adapter (-LT) faucets)
- IQ-Click feature permits activation of continuous run and temporary off modes
- Appropriate Mounting Hardware included
- IQ-Click feature permits activation of continuous run and temporary off modes

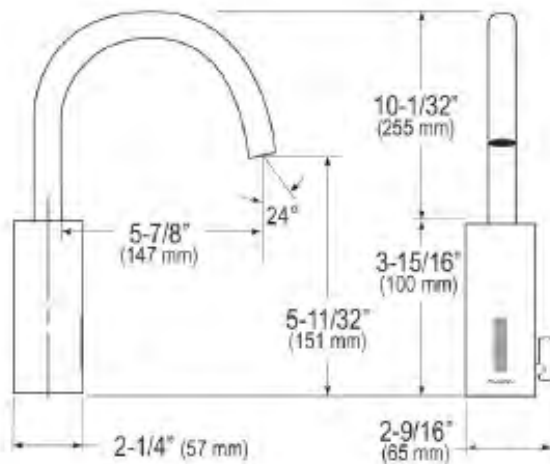
- ELECTRICAL SPECIFICATIONS**
- Battery Life: 3 years 8,000 cycles/month
 - Optional power harvesting significantly extends service life.
 - Timeout Adjustment Settings: 30s

DOWNLOAD

OPTIMA® SENSOR FAUCET
EAF-700-PLG-ISM-CP-1.5GPM-LAM-IR-IQ-FCT
(General Model Name: EAF700-P-ISM CP ELECT FAUCET)



Variation not shown: Integrated Side Mixer



COMPLIANCES & CERTIFICATIONS



(ADA Compliant, ASME A112.18.1 Compliant, CEC Compliant, cUPC Certified, cUPC Low Lead Compliant, Proposition 65, TAS, UPC Certified, UPC Low Lead Compliant)

American Standard
Style That Works Better

BARRIER FREE

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY

- Vitreous china
- Rear overflow
- Recessed self-draining deck
- For concealed arm or wall support
- Shown with optional vitreous china shroud/ knee contact guard 0059.020 available

- ☐ **0954.000** Faucet holes on 102mm (4") Ctrs (Illustrated)
- ☐ **0954.023** Faucet holes on 102mm (4") Ctrs
 - Extra right-hand hole
- ☐ **0954.021** Faucet holes on 102mm (4") Ctrs
 - Extra left-hand hole
- ☐ **0958.000** Faucet holes on 203mm (8") Ctrs
- ☐ **0955.000** Center hole only
- ☐ **0955.023** Center hole
 - Extra right-hand hole
- ☐ **0955.021** Center hole
 - Extra left-hand hole

Nominal Dimensions:
559mm (22") deep, 540mm (21-1/4") wide

Bowl sizes:
394mm (15-1/2") wide, 343mm (13-1/2") front to back, 127mm (5") deep

- ☐ **0059.020 Shroud/Knee Contact Guard** (Vitreous China) (Must be specified separately)

Compliance Certifications -
Meets or Exceeds the Following Specifications:
• ASME A112.19.2 for Vitreous China Fixtures

To Be Specified:

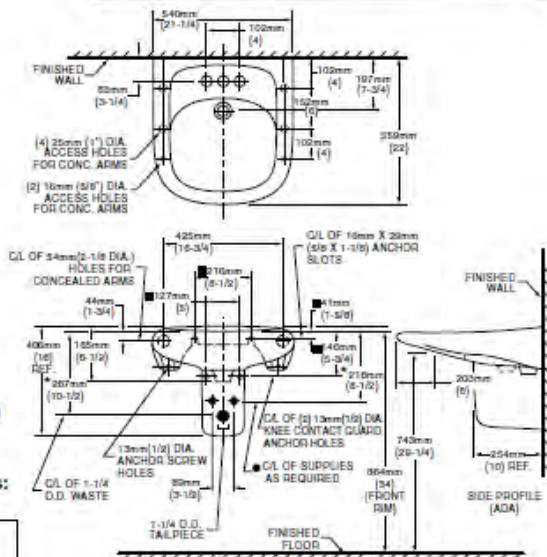
- ☐ Color: ☐ White ☐ Bone ☐ Silver
- ☐ Optional Vitreous China Shroud/Knee Contact guard: 0059.020
- ☐ Faucet:
- ☐ Faucet Finish:
- ☐ Supplies:
- ☐ 1-1/4" Trap:
- ☐ Nipple:

* See faucet section for additional models available

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.
Top of front rim mounted 864mm (34") from finished floor.

For Universal Design Options, top of rim may be mounted at 813mm (32") from finished floor to meet ADA and ANSI A117.1 requirements. Check local codes.

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY
VITREOUS CHINA



SEE REVERSE FOR ADDITIONAL ROUGHING-IN DIMENSIONS

NOTES:
• LOOSE KEY ANGLE STOPS, LESS WALL ESCUTCHEONS. SUPPLIES REQUIRED.
* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
SHROUD/KNEE CONTACT GUARD 0059.020 NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
■ SUITABLE FOR REINFORCEMENT ONLY, ACTUAL DIMENSIONS MUST BE TAKEN FROM FIXTURE.
FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS. INSTALLATION INSTRUCTIONS SUPPLIED WITH LAVATORY.
IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2. These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.



Design Process, UM's Standard Exam Development

Process of Developing Standards

Exam Rooms have been evolving based on Accessibility Codes, Care Delivery Models and Technologically. UM's Exam Rooms have become Multi-Specialty. Various modalities will flex between Exams and Exam Corridors based on Daily and Weekly Block Sessions. Our Physician's also have Sessions in Various Locations during the week within our health system, unlike many small family practice clinics where one or two physicians are there 5 days a week.

We want to reinforce common features in all exam rooms as well as provide Privacy, easy of physician access, Changing Technology and Clinical Practice Methods.

There are three trends, specifically, that are influencing our Exam Room Designs;

Education is playing a greater role in the healthcare delivery system. As an academic medical center, we often have Clinicians, their Scribes and Fellows in with patient and their family. Our Exams are larger allowing for Team Care. Orientation of the family zone and Exam table to the clinician's monitor has also become critical for education of both the patient and the family members.

Families (Partners-in-care) are also are playing a greater role in healthcare processes. Exams rooms are including larger family spaces for partners, interpreters, or friends, to participate in patients' healthcare process.

Technology is playing an ever-increasing role in exam room planning. Flexibly planned exam rooms bring services and technology to the patient. Video-based telemedicine, for instance, allows patients and primary caregivers to consult with specialists remotely.



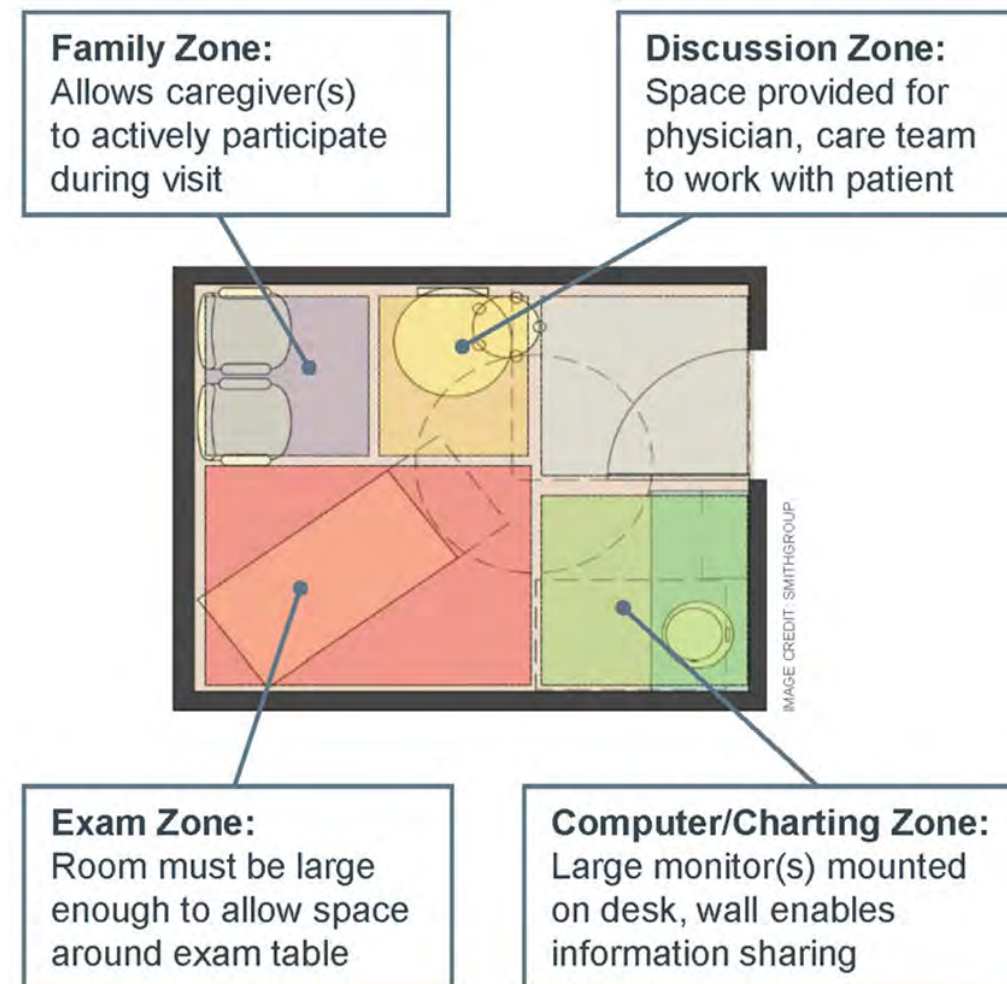
Process of Developing Standards

Distinct Spaces Facilitate Patient-Provider Conversations

Problems with Current Designs

- ✘ Static design for past 50 years, despite changing technologies and processes
- ✘ Rooms create unequal “top-down” footing between doctor and patient
- ✘ Dominated by exam table and tools despite limited use during visit
- ✘ Inflexible use of furniture and space to accommodate patient needs

Four Zones of the Ideal Exam Room



© The Advisory Board Company

UM's Standard Exam incorporates and improves on this thought process;

1. Family Zone includes Patient Wardrobe.
2. Discussion zone includes Charting and monitor that can swivel to share information.
3. Exam Zone is large enough to allow access to the patient from staff and instruments.
4. Computer zone is included in the discussion zones, so physician's backs are not to the patient when taking notes. Sink is not mixed into the computer zone to allow papers or computers to get wet.
5. Hand washing zone is immediately at entrance of room to encourage Infection control best practices and hand washing on entering and exiting the room.

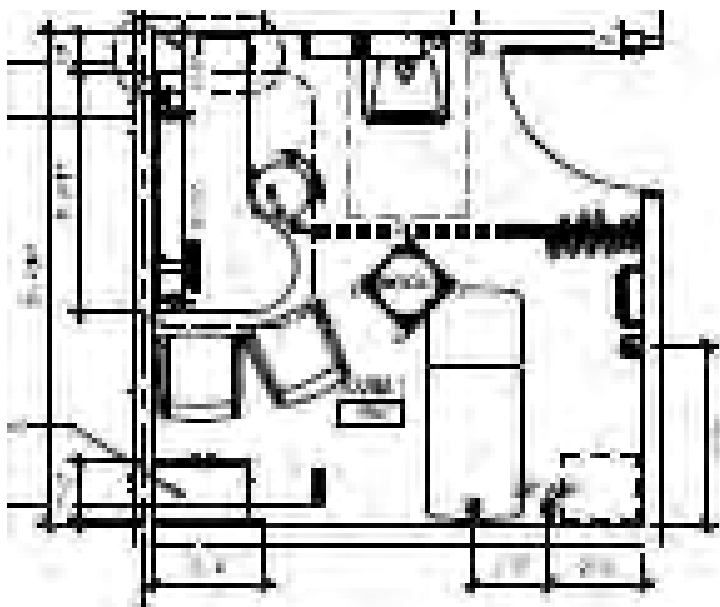
Process of Developing Standards



Conceptual Design and Mockups



15 EXAM ROOM B PERSPECTIVE



5
TYPICAL 110SF EXAM ROOM - B FLOOR
1 PLAN
1/8" = 1'-0"

Initial Full Scale Plywood Mock-up in room with all Accessories, outlets and equipment for review and testing by Physicians.

Mockup Designs - Finished

**Full Scale PLAM
Mock-up in room
with all
Accessories and
equipment
labeled in room.**



**Full Room Set up
that was tested by
Physicians**



**Desk that was
tested by Physicians
and marked for
modification**



**Field Modified Desk
based on comments
that final Desk was
based on.**



Mockup Designs - Final



**Final Full-Scale Mock-Up
with Solid Surface and
Final Colors/laminates for
approval.**

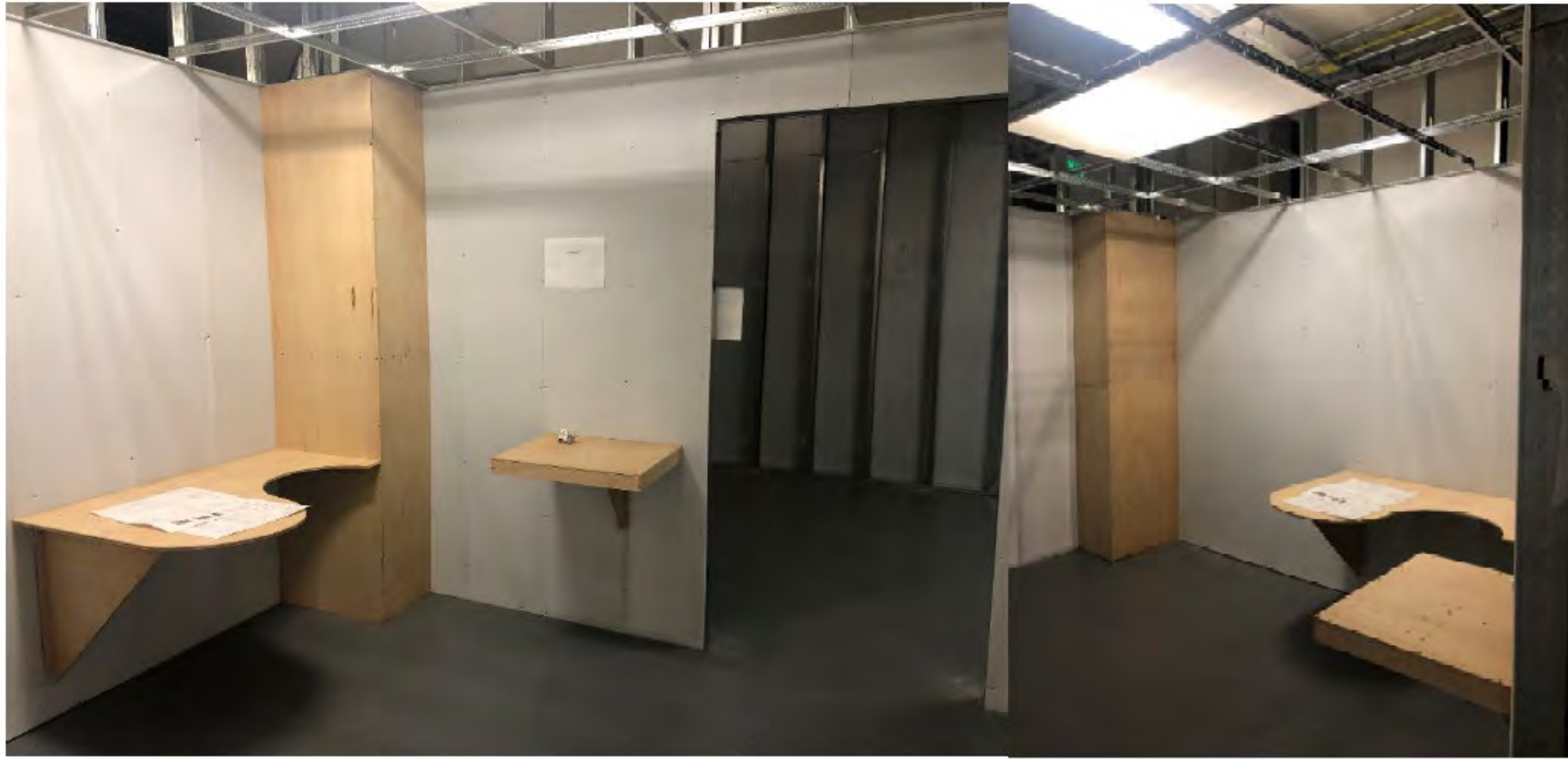
**Set up in Lobby space for
review by clinic staff and
physicians.**

Mockup Designs – Full Scale



(Photo of Infusion Mock Up taken 10/11/2019): Infusion room mock up is incomplete. Missing hand wash sink & overhead cabinet. Solid surface casework & base cabinet do not match the floor plans. There is currently no side panel installed at the entrance & exit side. No soffit header installed above solid surface counter.

Mockup Designs – Full Scale

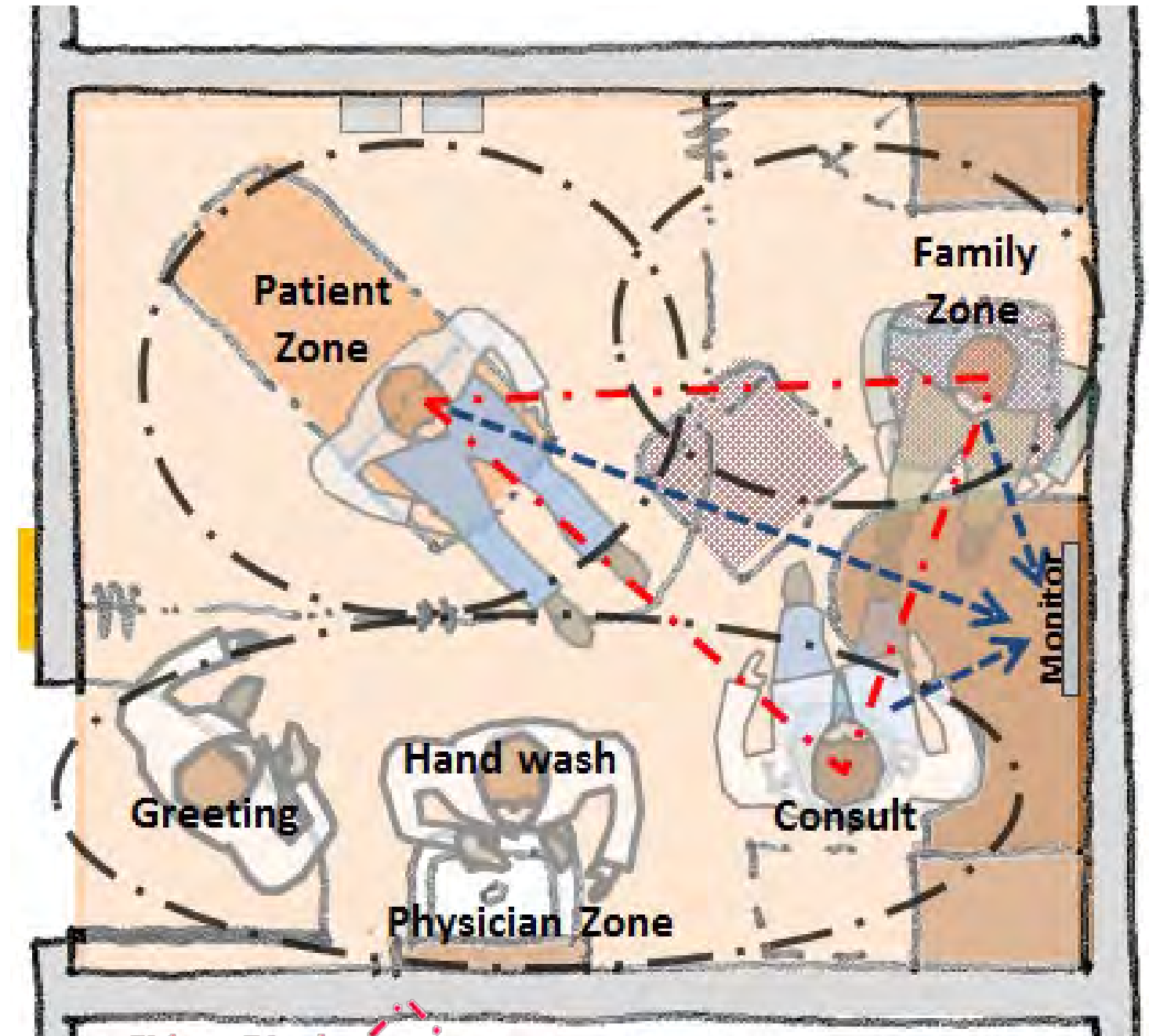


(Photo of Typical Room taken 10/11/2019):

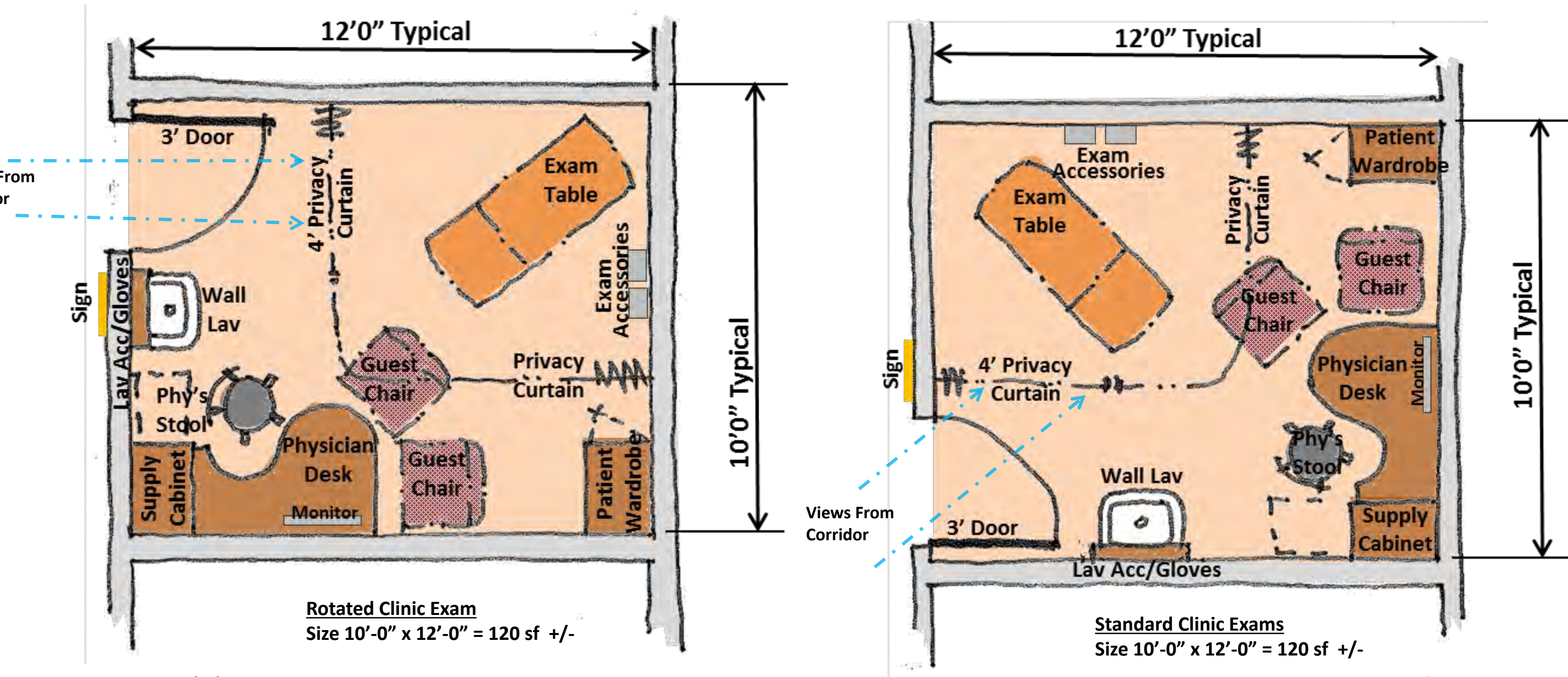
Final Exam Documentation

UM Standard Exam Features;

1. Physician's Desk layout, Monitor and flexible arm bracket to allow Patient and Family to have visual access to Monitor Content.
2. Physician Stool – Exam Table - Patient Chair Orientation/Geometry (see below.) To allow Patient never to be behind Physician. Allow physician easy access and exit when room is occupied.
3. Exam Table Orientation and Accessories locations. For easy access by staff.
4. Supply Cabinet design and location. For storage of supplies in staff zone and patient garments in family zone.
5. Sink/Lavatory location designed for Infection Control Best Practices immediately on entering the room. Cabinet for paper towel, soap and gloves.
6. All rooms are Right-Handed/Single-Handed, no mirrored rooms. For Standardization and repetitive use memorization.
7. Cubical Curtains are in two parts, for Patient Privacy from corridor and when dressing in room.
8. Door is 3' wide, lever hardware, no closer typically for ADA.
9. Electrical, Mechanical, ceilings, designed for adequate lighting and sound control.



Final Exam Documentation - Alternate Layout



Designing New Standards



Designing New Standards



Designing New Standards



Designing New Standards



Before

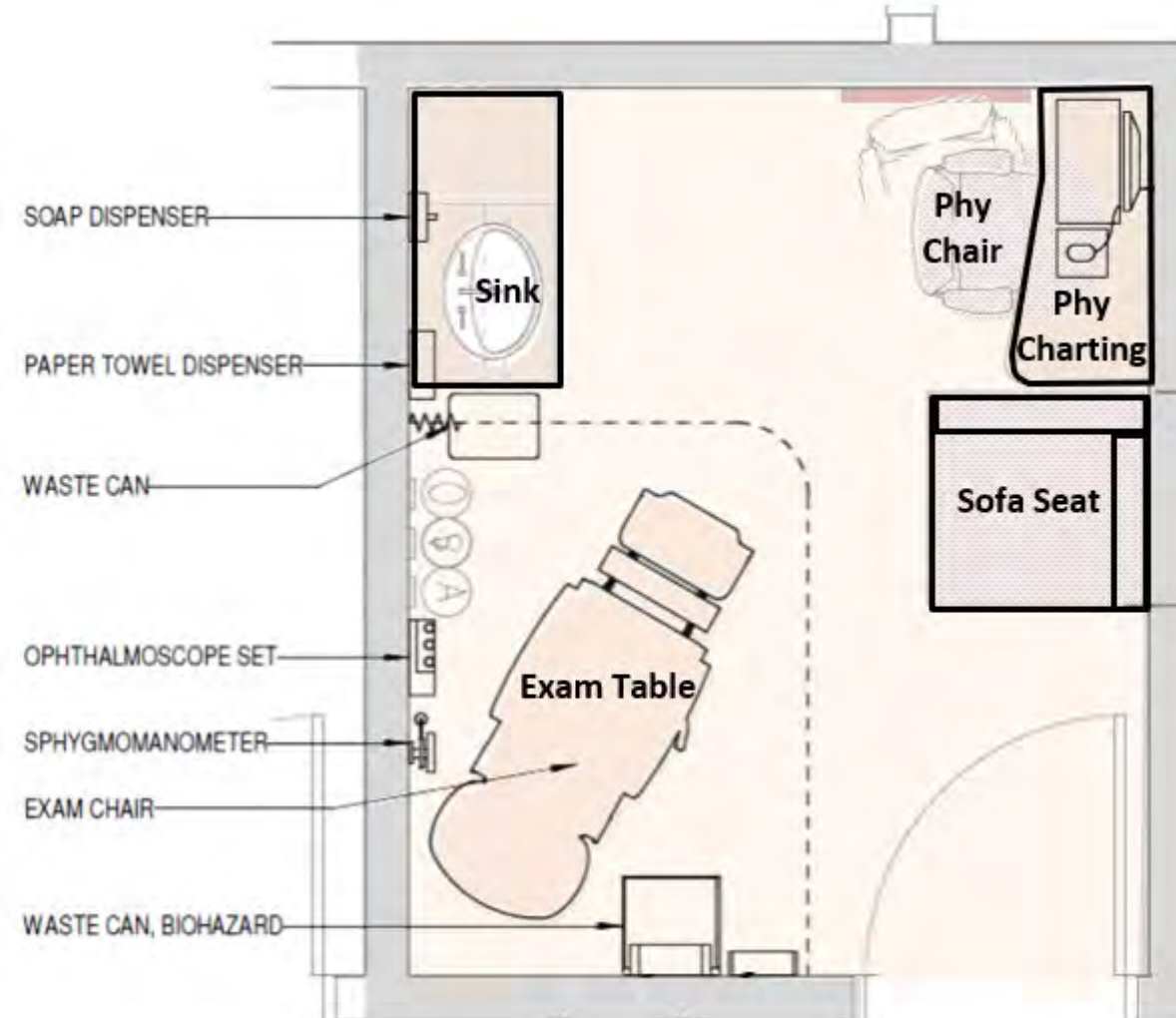


After

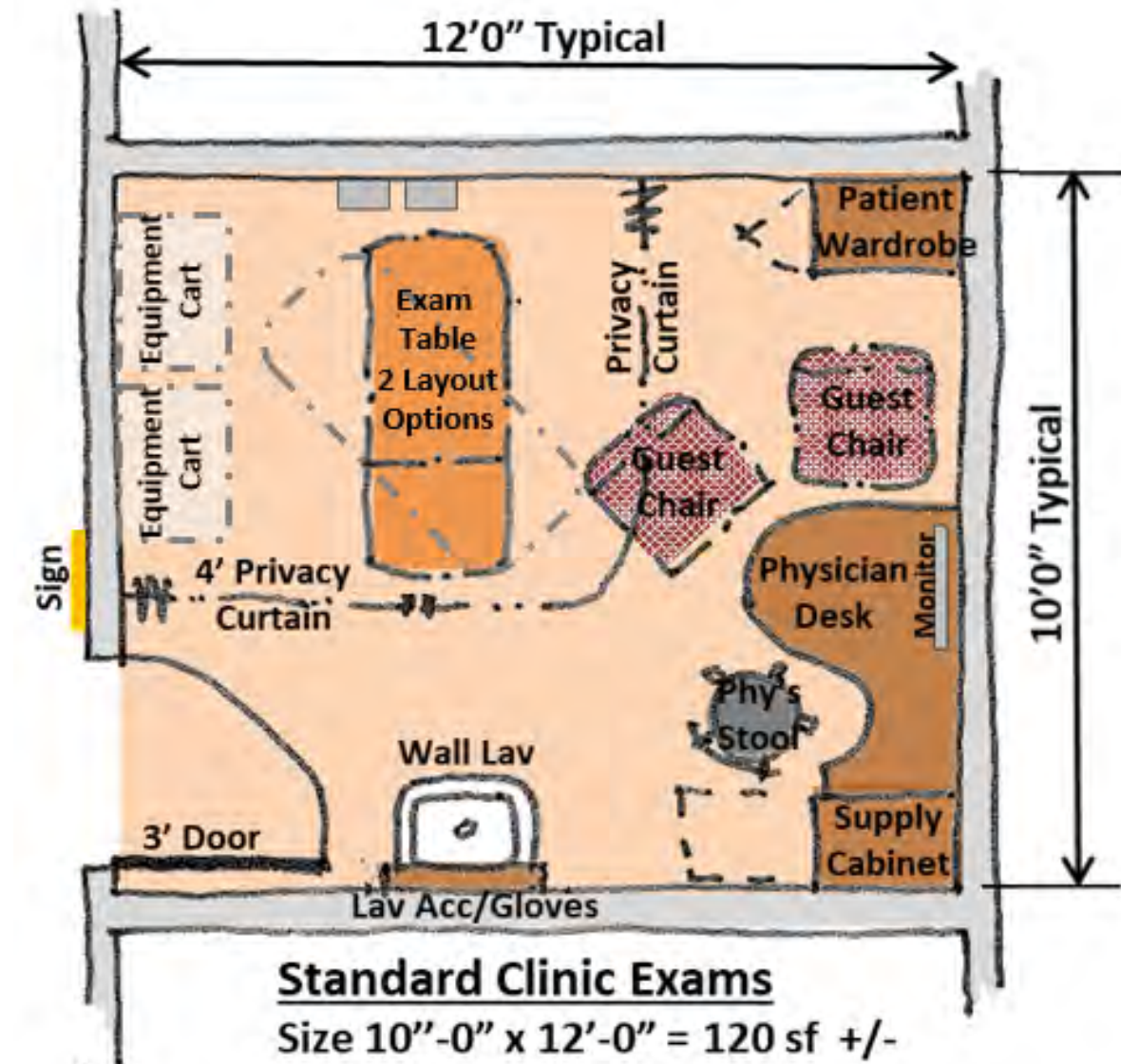
Alternate Standard Exam Room Design Review

UM Design Concerns Of Note:

- Sink is as far from Door as Possible.
- Phys Stool will beat up wall with every turn.
- No Second Guest Chair, Second Guest Chair will block access to Supplies and Sink.
- Limited Room for Equipment Carts
- Clinical Supplies in wrong location/Zone for Staff Physician access.
- Sofa Seat is problematic for maintenance / Patient movement.



Proposed Alternate Model

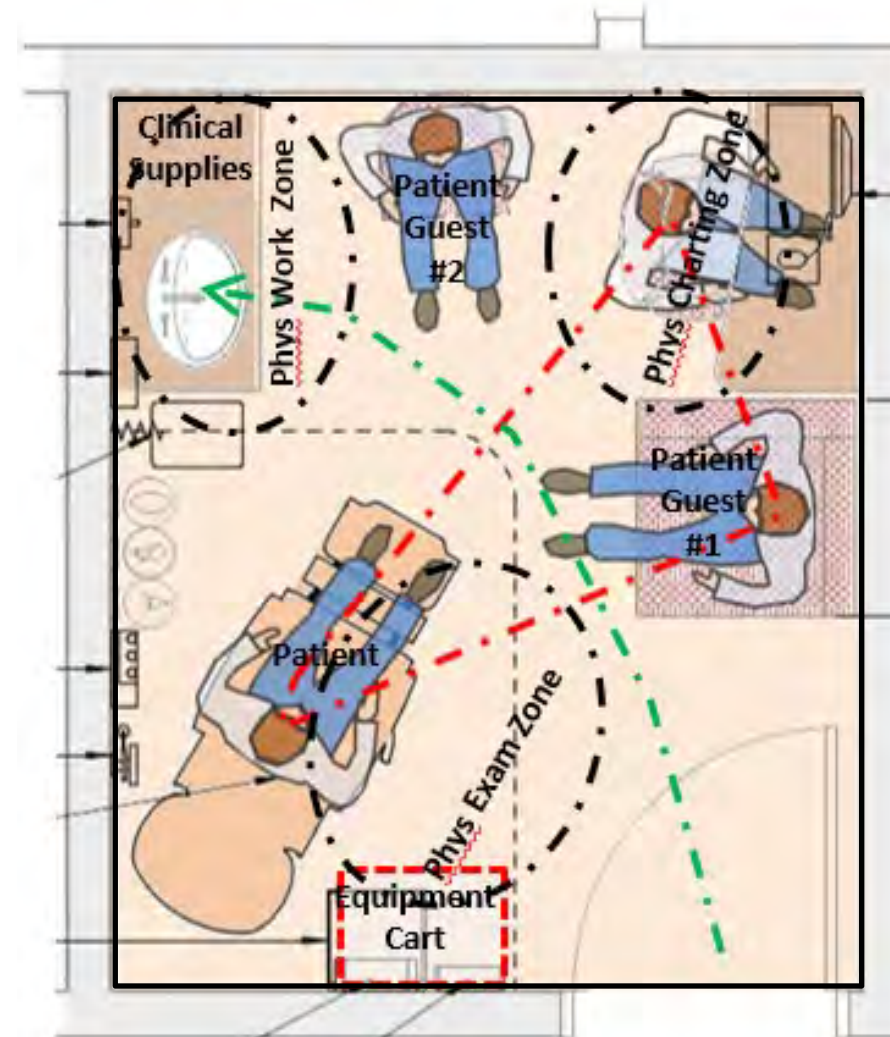


Alternate Exam Comparison to Standard Exam

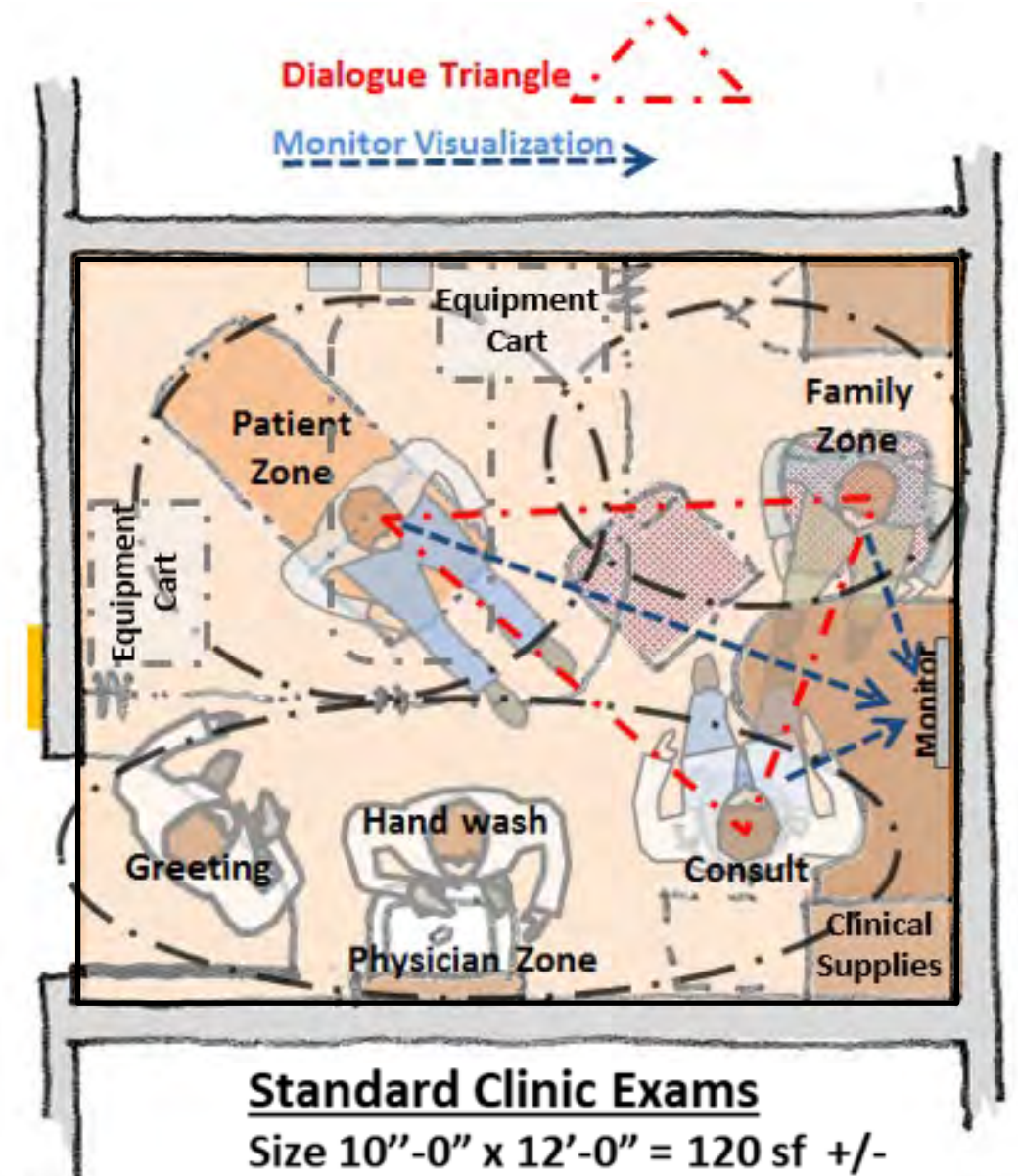
Alternate Standard Exam Room Design Review

UM Operational Concerns:

- Phys Rotation to see Patient on Exam Table is not conducive to charting.
- Phys needs to travel through Guest legs to examine Patient on Table.
- Distance between Phys and Patient on exam is extended.
- Sharing Images on Monitor will be a challenge.
- Phys Zone is split up in room.
- Hand washing is not accessible directly on entering and exiting the room. Infection Control has high level of concerns Phys/Staff will not wash hands.
- Staff access to sink while room is occupied is difficult and requires crossing through patient/Family Legs.
- Second Guest Chair is behind Phys.
- Equipment Carts count is reduced.
- Clinical Supplies in wrong location/Zone for Staff Physician access during exam process.



Proposed Alternate Model

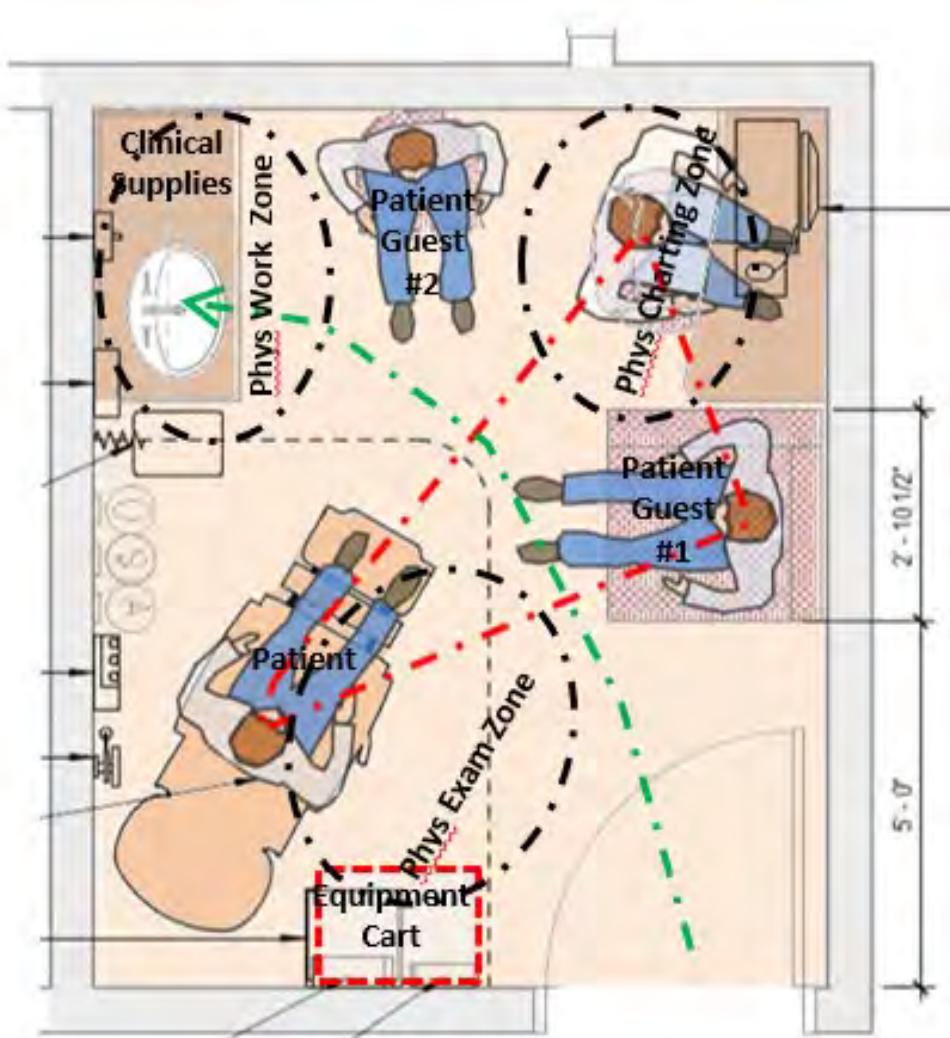


Alternate Exam Comparison to Standard Exam

Alternate Standard Exam Design Review



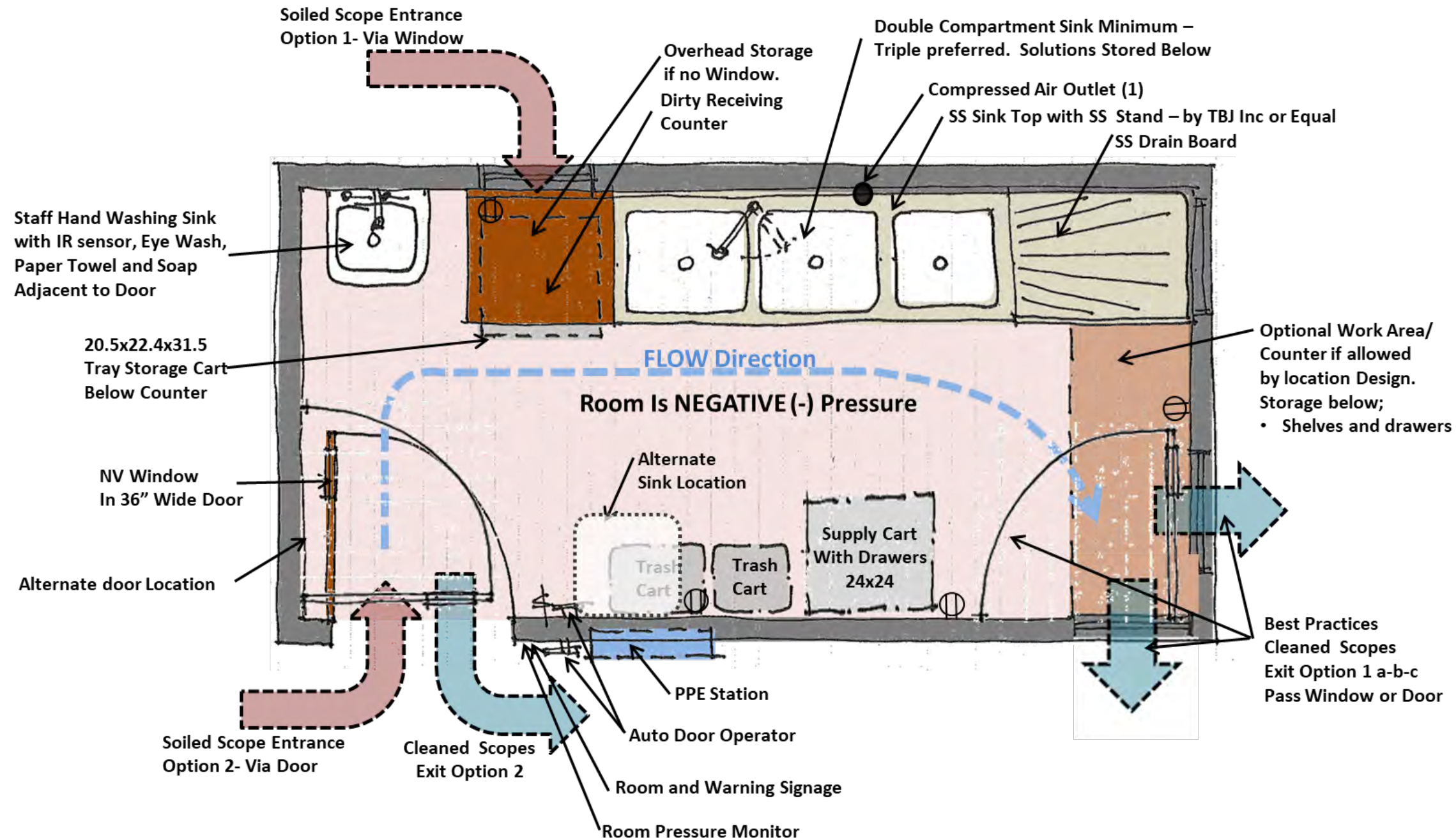
Full Scale Mockups



Floor Plan

Alternate Exam Comparison to Standard Exam

Standard Room Designs – Key Processes

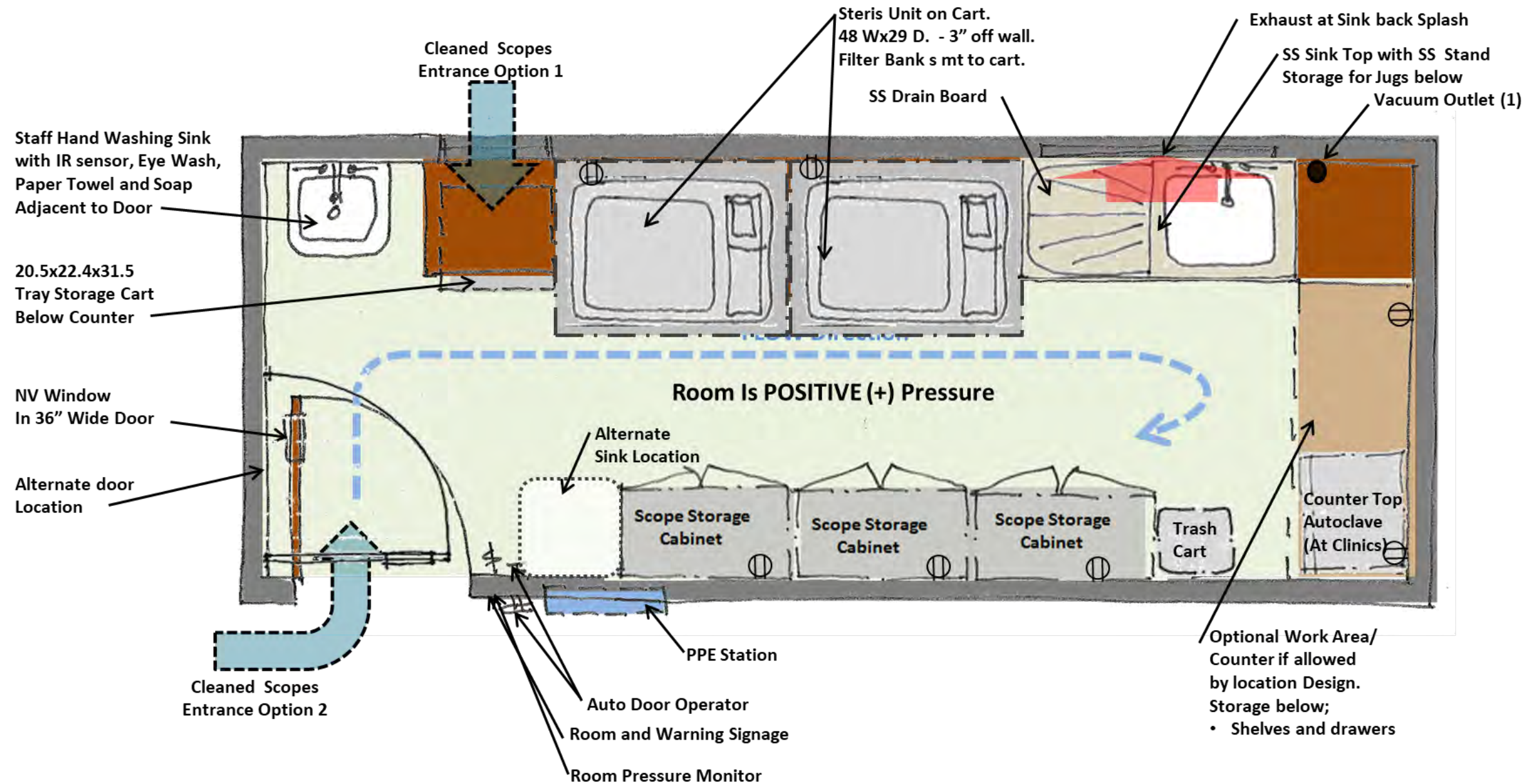


General Notes;

1. Left or Right-handed works
2. Will need computer and Phones
3. Temperature Control 68-72 deg.
4. 30-60 Relative Humidity
5. Floors are Seamless/Welded
6. Integral Base required
7. Wall Protection needed.
8. Wall to have latest Operational Posters
9. Provide Power as needed
10. Provide Lighting and ventilation as needed.

UM Scope Cleaning Prototypical Layout

Standard Room Designs – Key Processes



General Notes;

1. Left or Right-handed works
2. Will need computer and Phones
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UM Scope Cleaning Prototypical Layout

Designing New Standards



No Wire Management



Wire Management

Designing New Standards

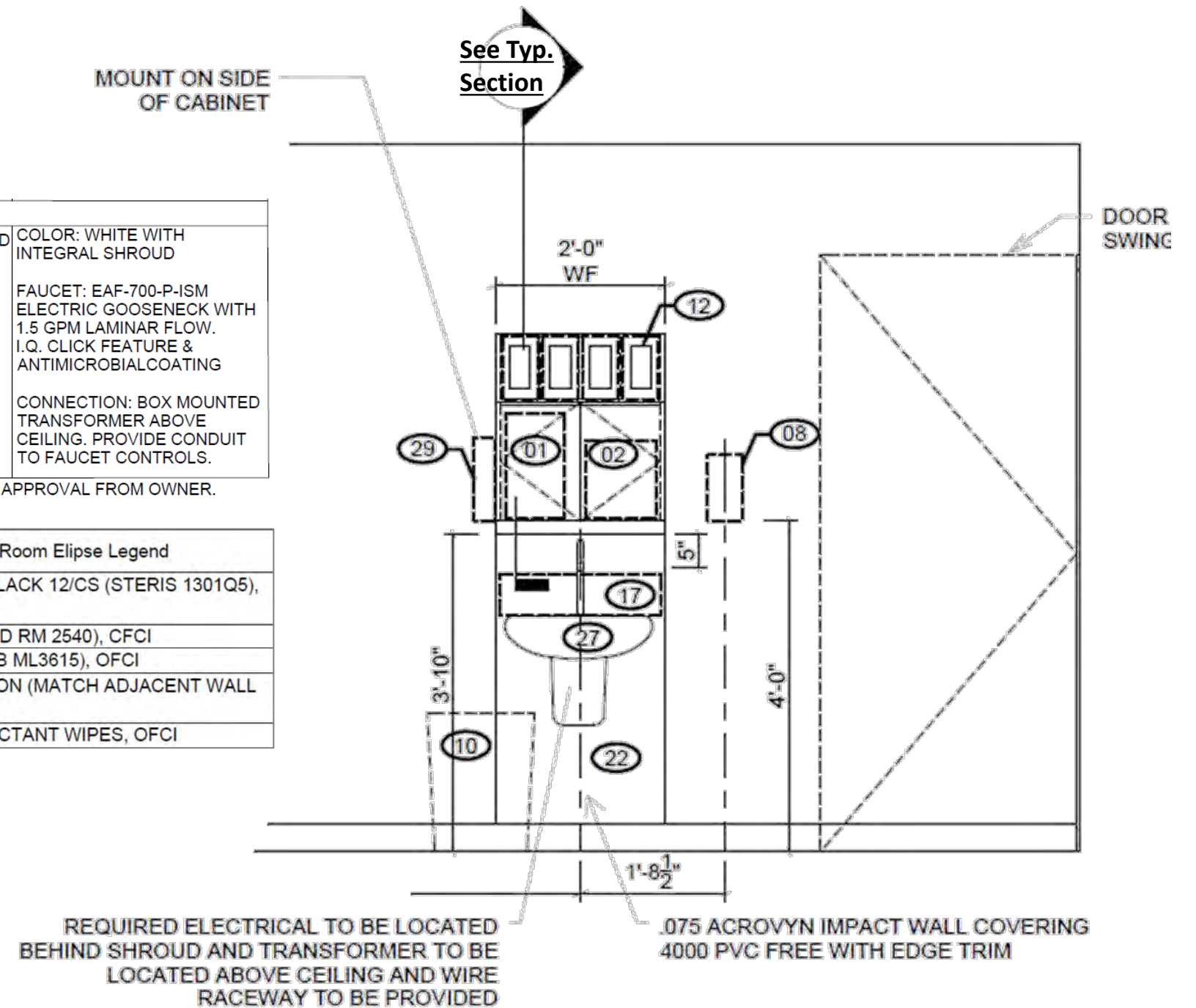


Typical Handwashing Station Sink

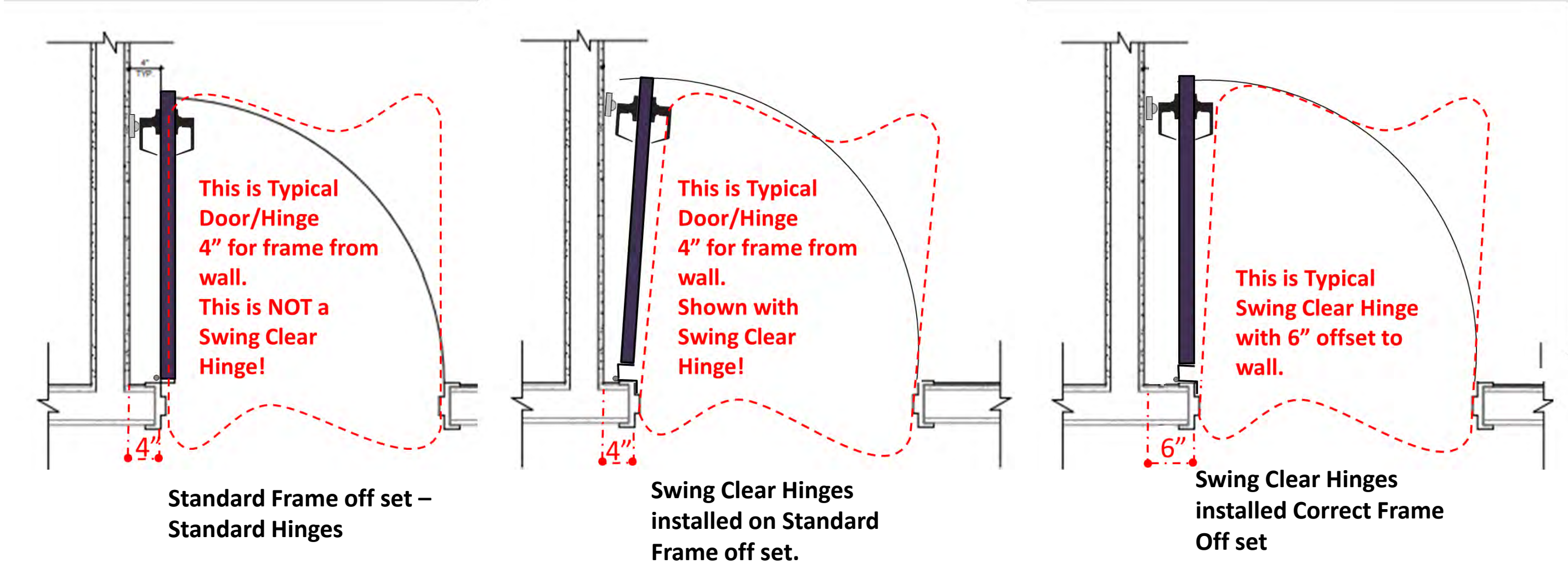
PLUMBING			
S-1	WALL HUNG	AMERICAN STANDARD "MURRO" 0955.901	COLOR: WHITE WITH INTEGRAL SHROUD FAUCET: EAF-700-P-ISM ELECTRIC GOOSENECK WITH 1.5 GPM LAMINAR FLOW. I.Q. CLICK FEATURE & ANTIMICROBIAL COATING CONNECTION: BOX MOUNTED TRANSFORMER ABOVE CEILING. PROVIDE CONDUIT TO FAUCET CONTROLS.

*NO SUBSTITUTIONS WITHOUT WRITTEN APPROVAL FROM OWNER.

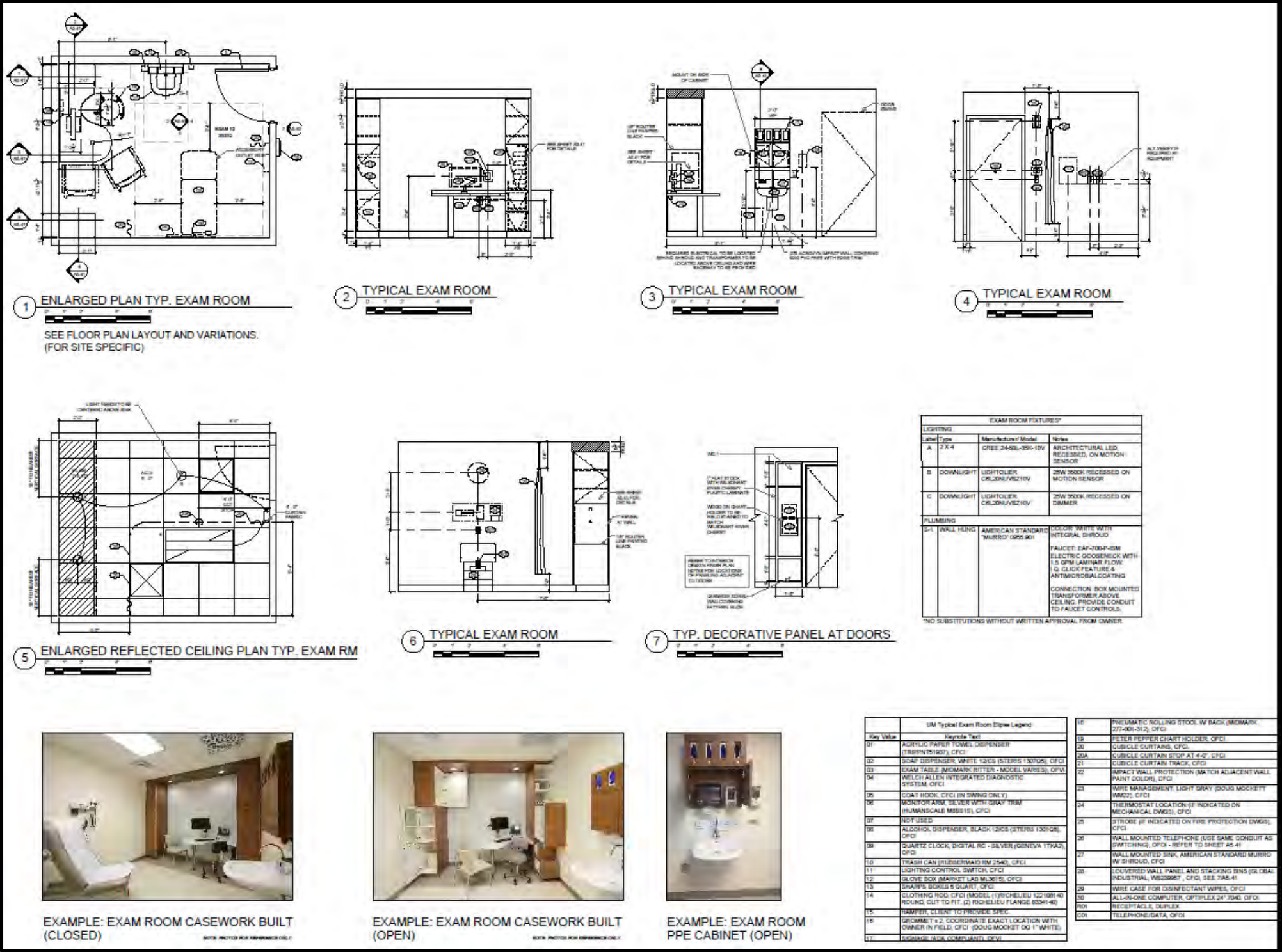
	UM Typical Exam Room Elipse Legend
08	ALCOHOL DISPENSER, BLACK 12/CS (STERIS 1301Q5), OFCI
10	TRASH CAN (RUBBERMAID RM 2540), CFCI
12	GLOVE BOX (MARKET LAB ML3615), OFCI
22	IMPACT WALL PROTECTION (MATCH ADJACENT WALL PAINT COLOR), CFCI
29	WIRE CASE FOR DISINFECTANT WIPES, OFCI



Designing New Standards



Designing New Standards

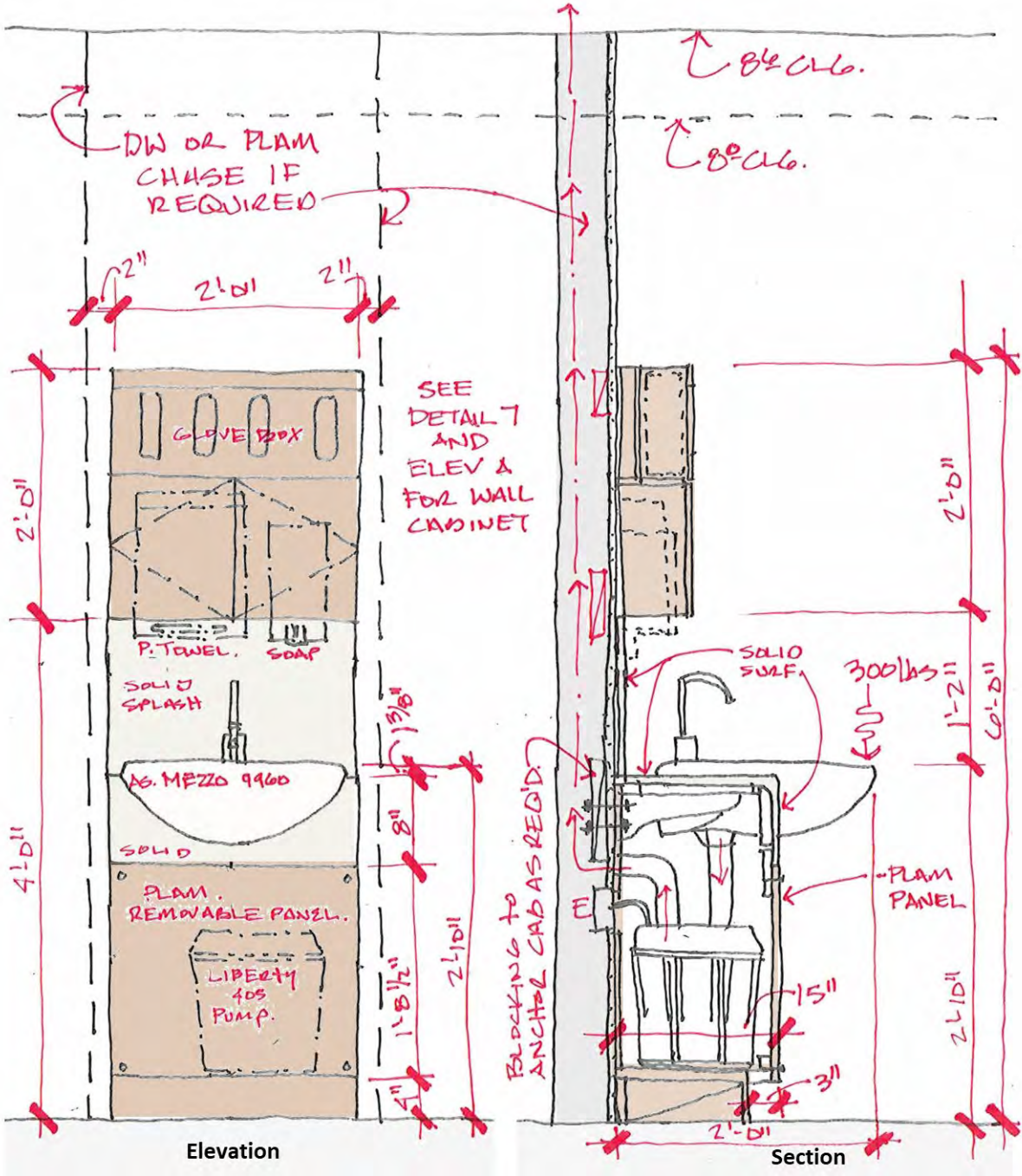




49



Designing New Standards



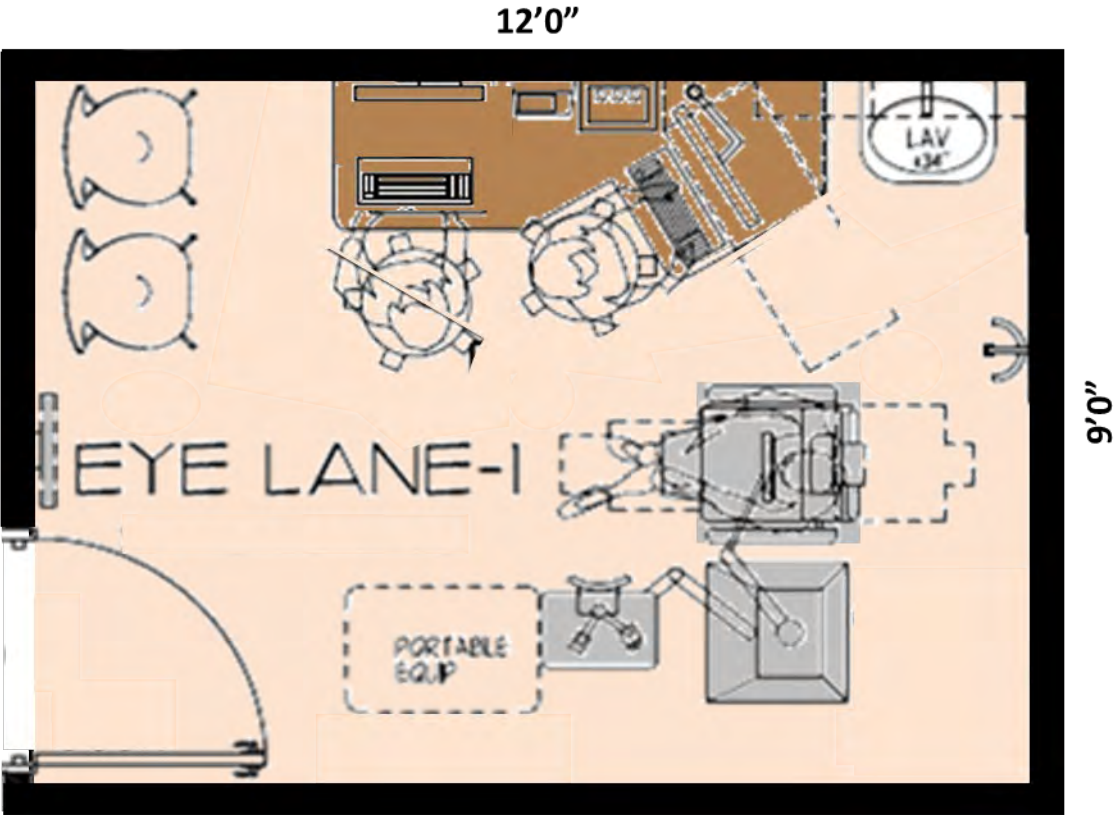
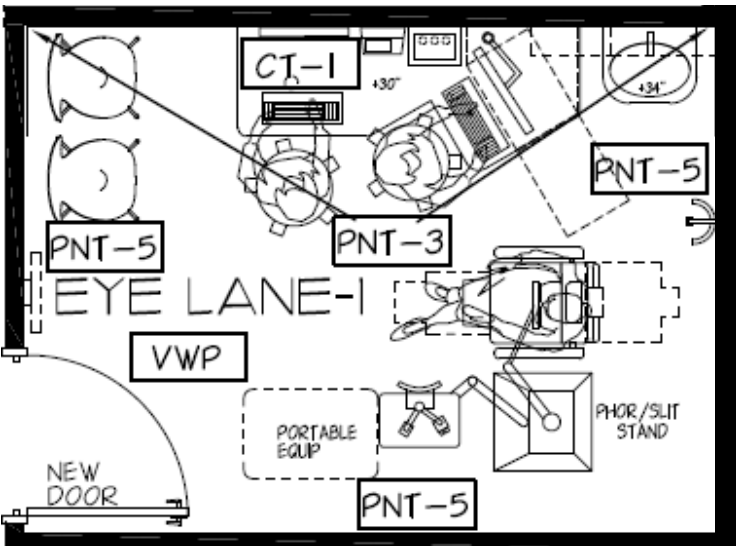
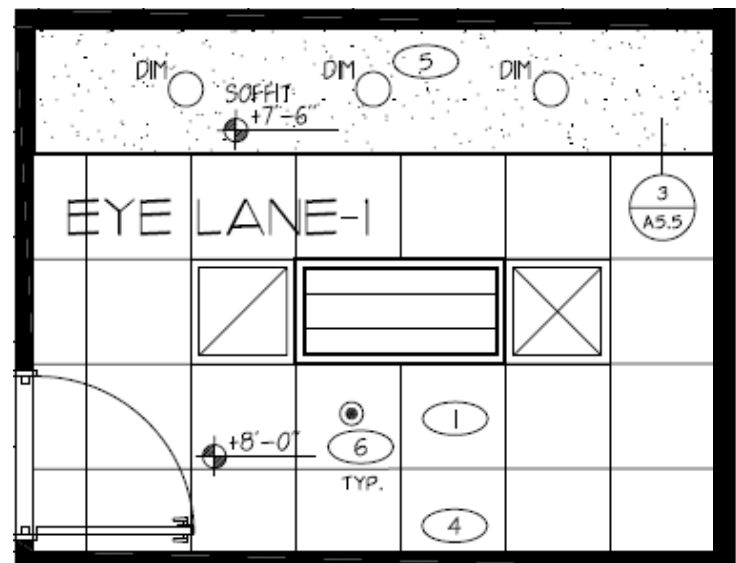
Standard Reception & Registration Desks



Standard Reception & Registration Desks



Designing New Standards



Floor Plan



Designing New Standards



Interior Design Standards

- Interior Design standards can include:
 - Finish Standards
 - Furniture Standards
 - Artwork Standards
 - Room Signage, Donor Signage, and Departmental Signage Standards
 - Equipment and Accessory Standards
 - Fixture Standards
 - Lighting Standards




Interior Design standards:

- Finish Standards
- Furniture Standards
- Artwork Standards
- Room Signage, Donor Signage, and Departmental Signage Standards
- Equipment and Accessory Standards
- Fixture Standards
- Lighting Standards

Interior Design Standards



Standard Binders,
Divided by building or department



UNIVERSITY OF MIAMI HEALTH SYSTEM


CLINICAL SPACE STANDARDS

MATERIAL FINISH SPECIFICATIONS
SUBMITTED BY: UM MEDICAL INTERIOR DESIGN

	DESCRIPTION	
1	CEILING FINISHES	
2	FLOOR FINISHES	
3	WALL FINISHES	
4	PAINT FINISHES	
5	CASEWORK FINISHES	
6	ROLLER SHADES	
7	MISCELLANEOUS	

1

Digital Standards



UNIVERSITY OF MIAMI HEALTH SYSTEM


RESEARCH/EDUCATION
SPACE STANDARDS

MATERIAL FINISH SPECIFICATIONS
SUBMITTED BY: UM MEDICAL INTERIOR DESIGN


	DESCRIPTION	
1	CEILING FINISHES	
2	FLOOR FINISHES	
3	WALL FINISHES	
4	PAINT FINISHES	
5	CASEWORK FINISHES	
6	ROLLER SHADES	
7	MISCELLANEOUS	

1

Interior Design Standards




MATERIAL CODE:
PNT-1


LOCATION/ROOM TYPE:	FIELD PAINT
DESCRIPTION:	INTERIOR PAINT
MANUFACTURER:	BENJAMIN MOORE
MODEL #:	CLASSIC GREY OC-23
PRODUCT SPECS:	LATEX EGGSHELL
MATERIAL IMAGE/SAMPLE:	

26

9/1/2021




MATERIAL CODE:
ACT-1


LOCATION/ROOM TYPE:	CEILINGS - BACK OF HOUSE
DESCRIPTION:	ACOUSTICAL CEILING TILE
MANUFACTURER:	ARMSTRONG
MODEL #:	DUNE 1774
PRODUCT SPECS:	24"X24" DUNE SQUARE LAY-IN WITH PRELUDE 15/16" SUSPENSION SYSTEM
MATERIAL IMAGE/SAMPLE:	

2

9/1/2021




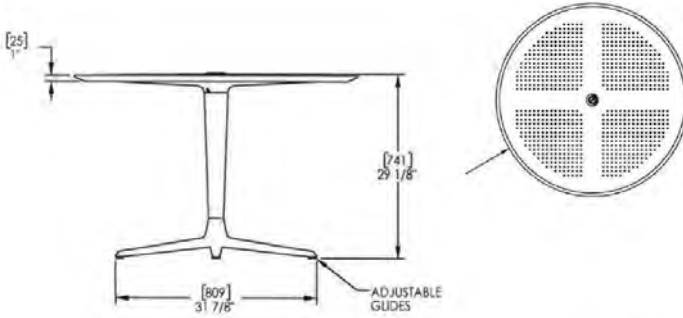
MATERIAL CODE:
SSV-1

LOCATION/ROOM TYPE:	BIO ROOMS, TISSUE CULTURE ROOMS
DESCRIPTION:	SEAMLESS SHEET VINYL
MANUFACTURER:	TARKETT
MODEL #:	ARIA 3.0 COLOR CABANA 0657
PRODUCT SPECS:	HOMOGENEOUS SHEET NON-DIRECTIONAL GLUE-DOWN
MATERIAL IMAGE/SAMPLE:	

14

9/1/2021

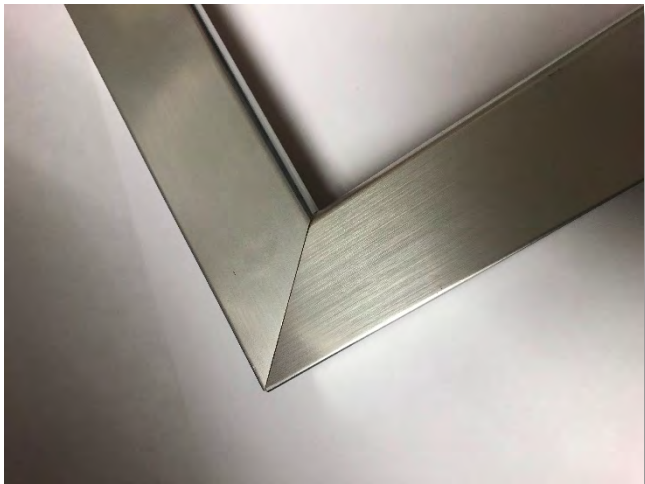
Interior Design Standards

UNIVERSITY OF MIAMI		landscapeforms		MATERIAL CODE: LF-1
LOCATION/ ROOM TYPE:	CHIPMAN CHAIR AND TABLE			
DESCRIPTION:				
PRODUCT NAME:				
MODEL #:				
MANUFACTURER:				
SPECIFICATIONS:				
LEED CONTRIBUTION:	<input type="checkbox"/> YES <input type="checkbox"/> NO	TYPE:		
MATERIAL IMAGE/SAMPLE:				
SPECIAL NOTES:	40			
6/18/2019				

UNIVERSITY OF MIAMI		W R K L A B creating innovative workplaces		MATERIAL CODE: TK-1
LOCATION/ ROOM TYPE:	NURSES SAYL			
DESCRIPTION:				
PRODUCT NAME:				
MODEL #:				
MANUFACTURER:				
SPECIFICATIONS:				
LEED CONTRIBUTION:				
MATERIAL IMAGE/SAMPLE:				
SPECIAL NOTES:	27			
6/18/2019				

UNIVERSITY OF MIAMI		empire office		MATERIAL CODE: CH-2A
LOCATION/ ROOM TYPE:	KIMBALL BOYD SUBWAITING			
DESCRIPTION:				
PRODUCT NAME:				
MODEL #:				
MANUFACTURER:				
SPECIFICATIONS:				
LEED CONTRIBUTION:	BOYD LOVESEAT			
MATERIAL IMAGE/SAMPLE:				
SPECIAL NOTES:	9			
6/18/2019				

Interior Design Standards



Standard Frames



Standard Placement
in Exam Rooms

Photos of University
Mascot, Sebastian the
Ibis

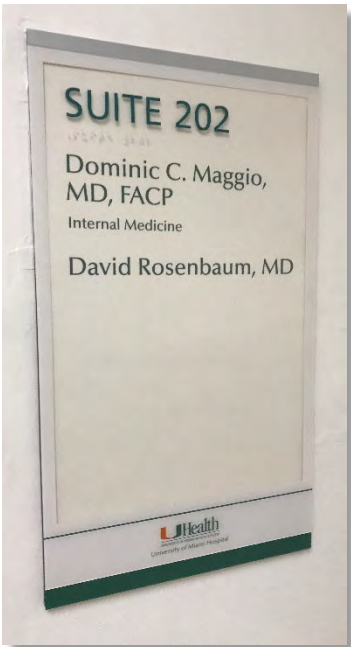
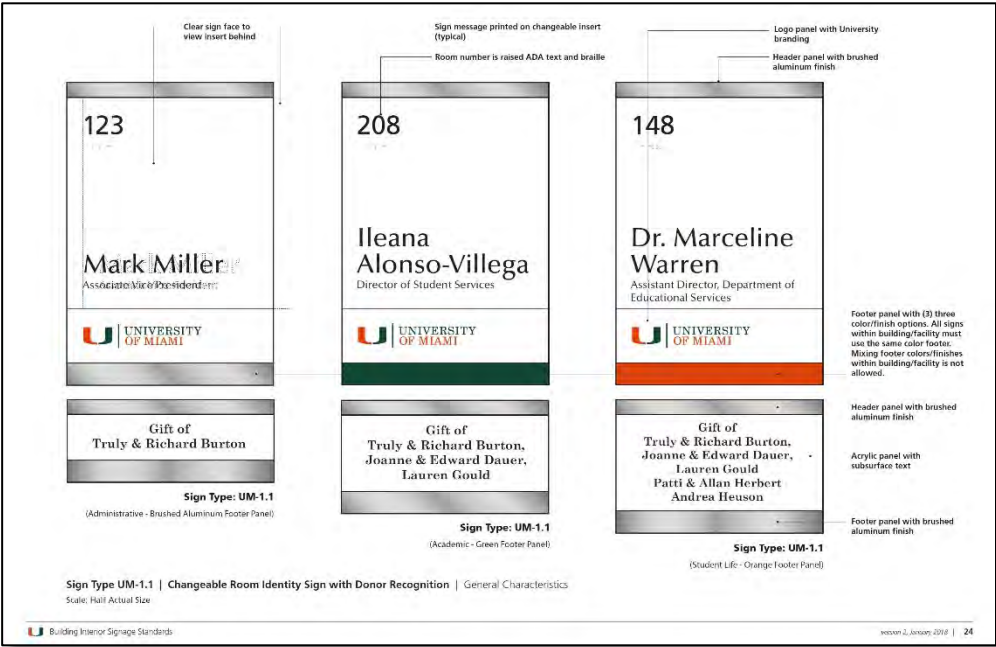


Photos of University
Mascot, White Ibis

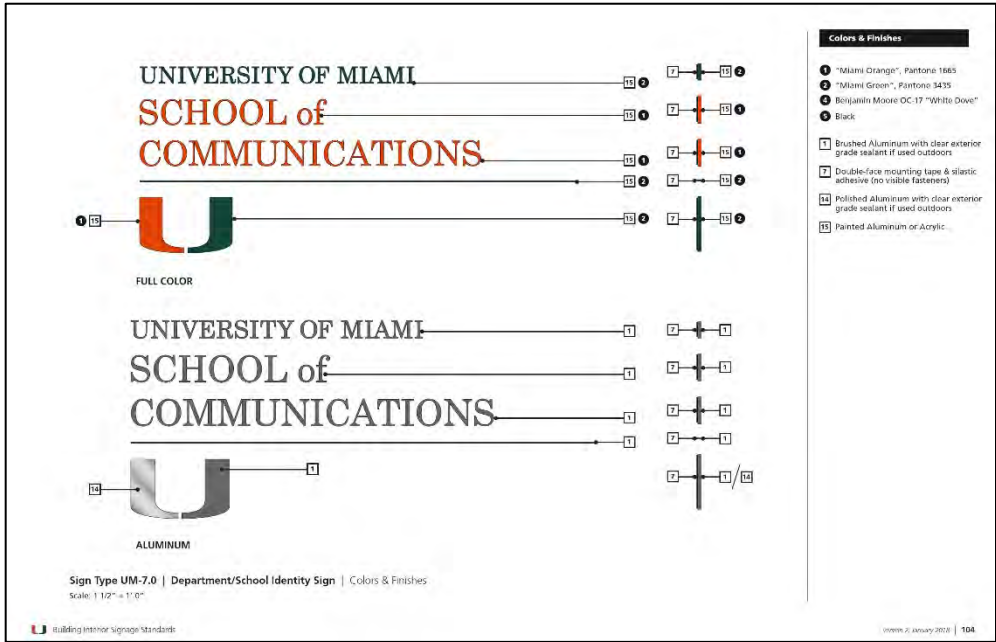
Artwork Standard: Flora and Fauna, Regional Photography

Artwork Standards

Interior Design Standards



Standard Suite Signage





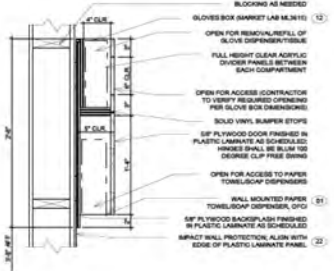
Signage Standard Documentation


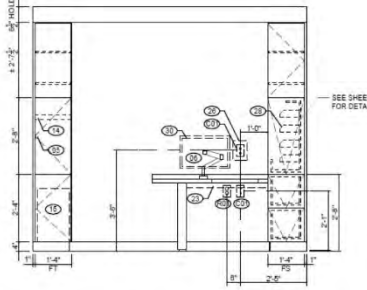





Departmental and Entry Signage

Interior Design Standards

<div>UHealth UNIVERSITY OF MIAMI HEALTH SYSTEM</div> <div>MATERIAL CODE:</div>	
LOCATION/ROOM TYPE:	TOILET WALL PUBLIC TOILETS
DESCRIPTION:	MIRROR
MANUFACTURER:	BRADLEY
MODEL #:	747F-024360S
PRODUCT SPECS:	24"X36" MIRROR WITH FROSTED FRAMELESS SOLID ACID ETCHED BORDER FLOAT GLASS SURFACE
MATERIAL IMAGE/SAMPLE:	
13 9/23/2021	

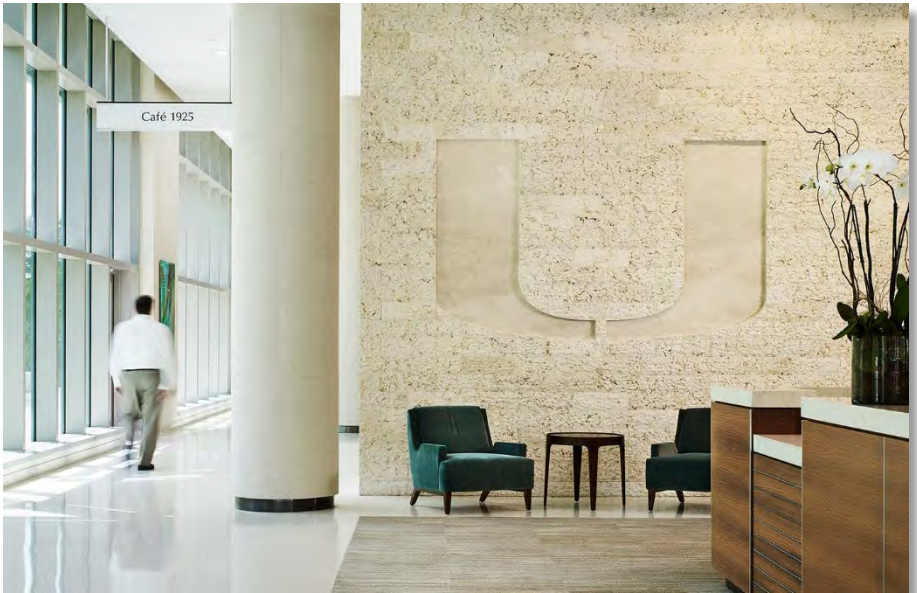
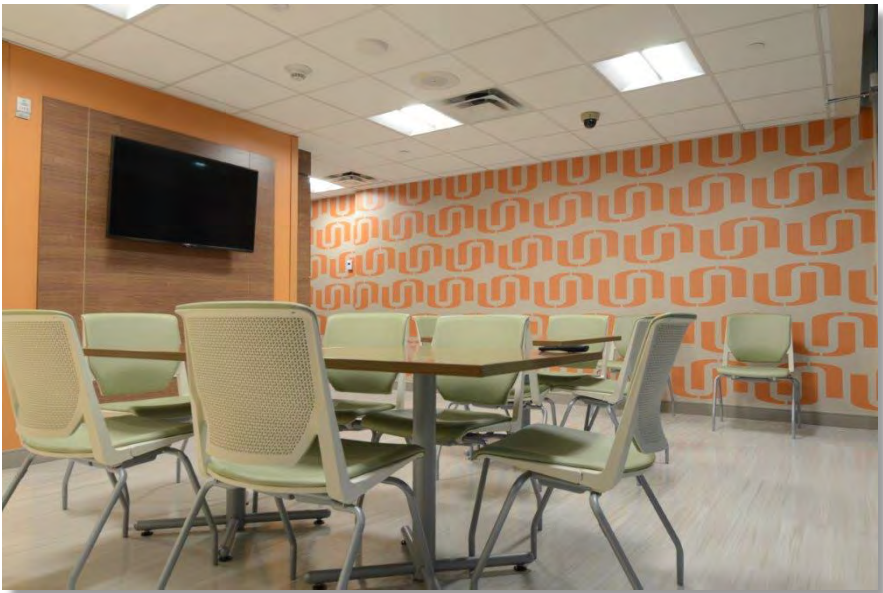
<div>University of Miami Hospital</div> <div>MATERIAL CODE: CFCI</div>	
LOCATION/ROOM TYPE:	WALL SINK LAVATORY
DESCRIPTION:	CLEAR PAPER TOWEL DISPENSER 
PRODUCT NAME:	TRIPPNT www.trippnt.com
MODEL #:	51937
MANUFACTURER:	TRIPPNT CARTS
SPECIFICATIONS:	9 7/8" X 6 1/2" 3 7/8"
LEED CONTRIBUTION:	<input type="checkbox"/> YES TYPE: <input type="checkbox"/> NO
MATERIAL IMAGE/SAMPLE:	
SPECIAL NOTES:	104
6/20/2019	

<div>University of Miami Hospital</div> <div>MATERIAL CODE:</div>	
LOCATION/ROOM TYPE:	COMPUTER ARM
DESCRIPTION:	
PRODUCT NAME:	M-8
MODEL #:	M8BS1S
MANUFACTURER:	AMEROCK
SPECIFICATIONS:	STRAIGHT LINK DYNAMIC LINK COLOR SILVER BOLT MOUNT 
LEED CONTRIBUTION:	<input type="checkbox"/> YES TYPE: <input type="checkbox"/> NO
MATERIAL IMAGE/SAMPLE:	
SPECIAL NOTES:	111
6/20/2019	

<div>SYLVESTER COMPREHENSIVE CANCER CENTER UNIVERSITY OF MIAMI HEALTH SYSTEM</div> <div>UMHC UNIVERSITY OF MIAMI HOSPITAL AND CLINICS</div> <div>MATERIAL CODE: OFCI</div>	
LOCATION/ROOM TYPE:	WIRE MANAGEMENT
DESCRIPTION:	
PRODUCT NAME:	
MODEL #:	WM22
MANUFACTURER:	
SPECIFICATIONS:	COLOR LIGHT GRAY 
LEED CONTRIBUTION:	<input type="checkbox"/> YES TYPE: <input type="checkbox"/> NO
MATERIAL IMAGE/SAMPLE:	
SPECIAL NOTES:	174
6/25/2019	

- Toilet Fixtures and Accessories
- Exam Room and Clinic Accessories
- Wire Management and Technology Accessories
- Clinic and Lab Equipment

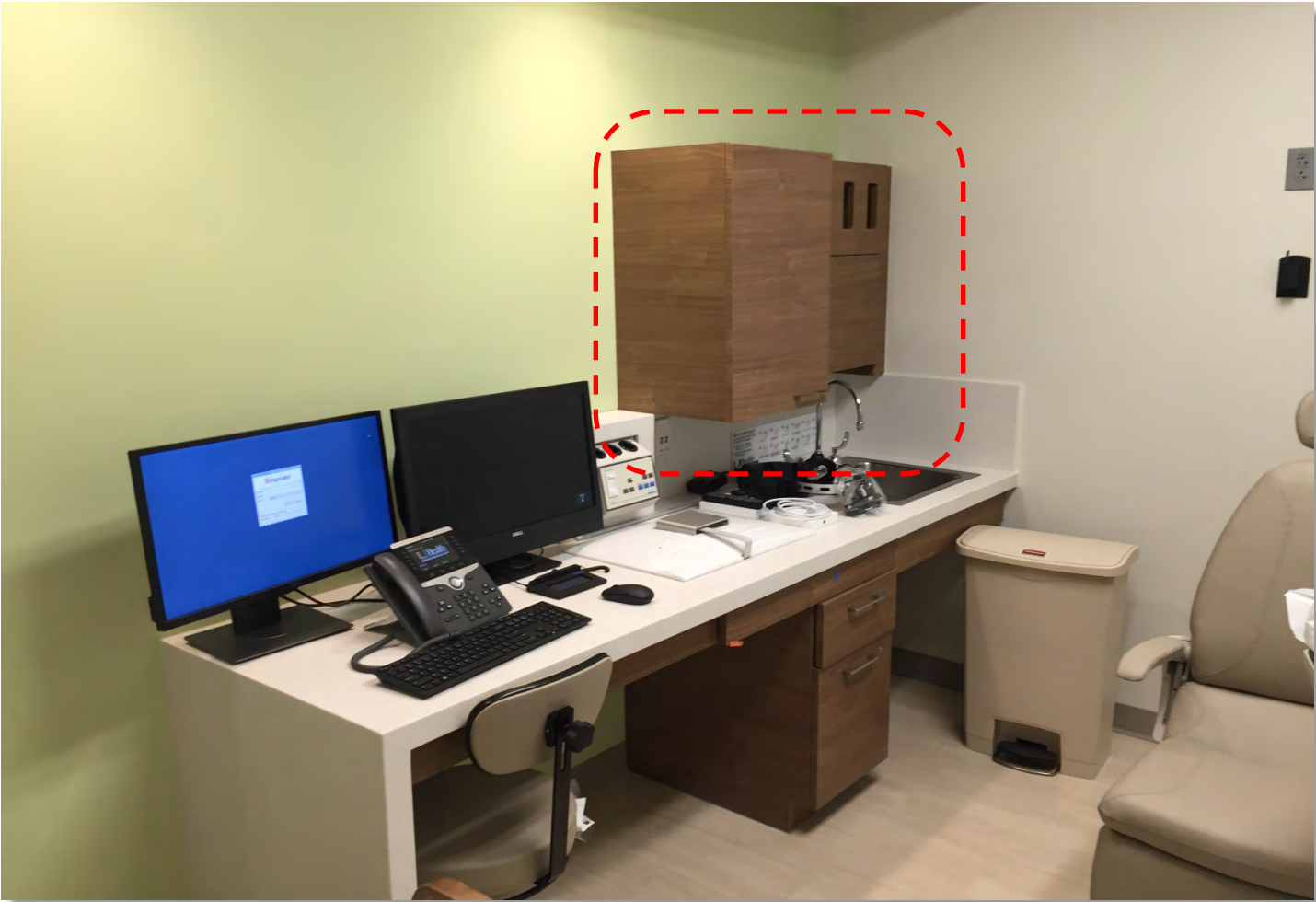
Interior Design Standards, Creating a Brand





Contractor Challenges

Construction Challenges



Incorrect



Correct

Construction Challenges



Incorrect

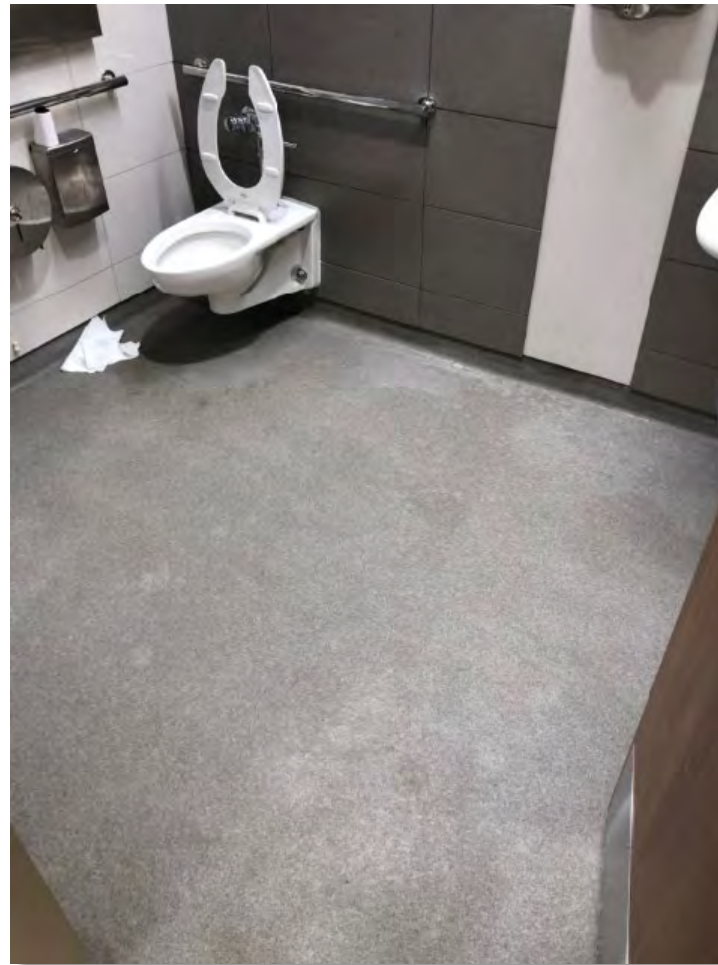


Correct

Value Engineering Consequences.

1. Wrist blades, This is an infection control issue.
2. Sink with lots of flat surfaces, also an infection control issue.
3. Sink with hard corners? We have round corners as they sink is in a high traffic location.
4. Don't see a waste/supply pipe shroud yet. We have a solid attractive shroud.

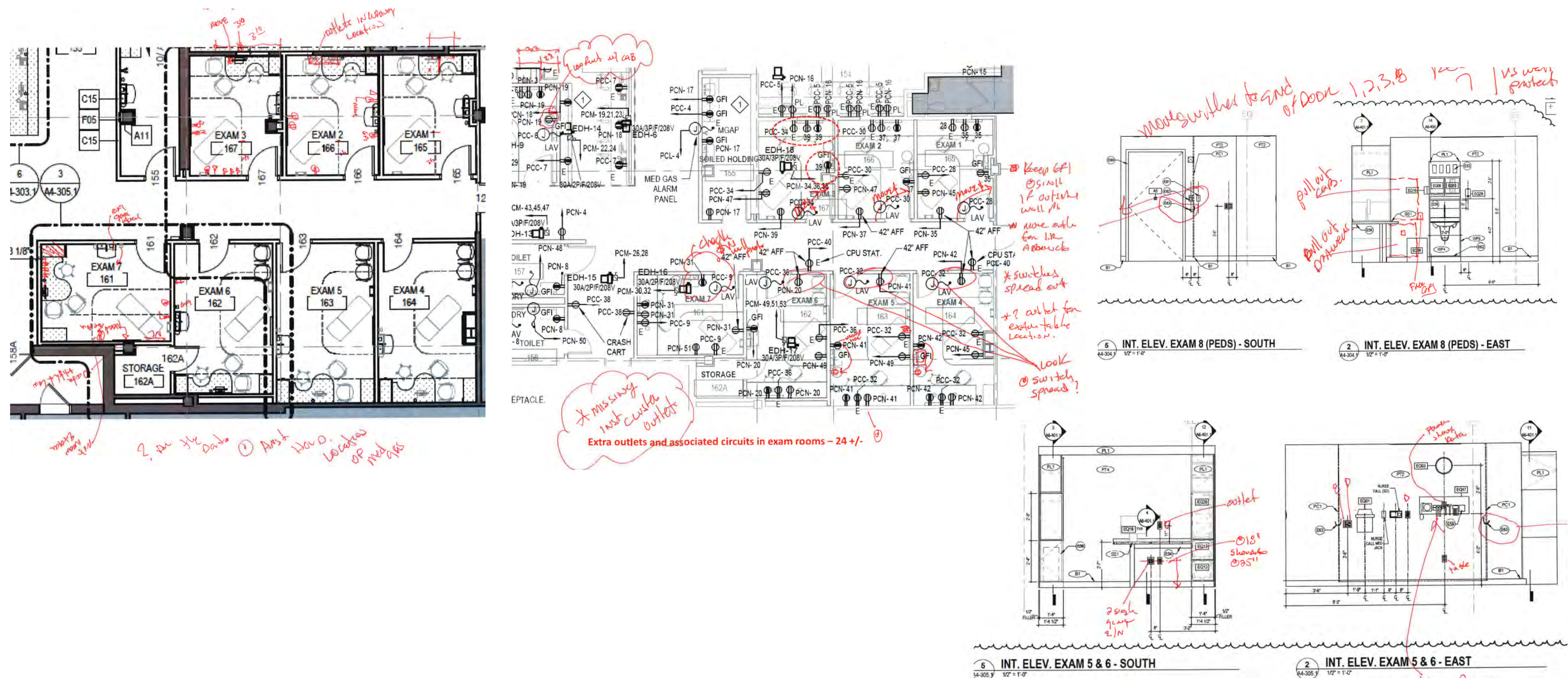
Construction Challenges



Construction Challenges



Architect Challenges





Thank you for your attention!

