

VA



U.S. Department
of Veterans Affairs

Office of Construction & Facilities Management

SEPS+BIM

Space and Equipment Planning System
+
Building Information Modeling

VA



U.S. Department
of Veterans Affairs

Office of Construction & Facilities Management

SEPS+BIM

A New Process for Using
BIM and SEPS Together
for Facility Planning and Design

Space and Equipment Planning System

VA



U.S. Department of Veterans Affairs



Department of Defense
Military Health System

Space and

You are accessing a U.S. Government system authorized for use only. By using this system, you agree to the following conditions:

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- This IS includes the use of information for national security interests--not for personal or commercial purposes.
- Notwithstanding to any other notice, this IS does not provide a warranty of confidentiality or security.

Space and Equipment Planning System

https://seps.max.gov/ProjectAdministration/Home.aspx

Tools Utilities Help Exit

U.S. Department of Defense

Project: DENTAL CLINIC IN HOSPITAL (DENTAL CLINIC FOR TESTING PFD)

SEPS - Project Administration [Project Builder]

Project: DENTAL CLINIC IN HOSPITAL (DENTAL CLINIC FOR TESTING PFD)

Display: Agency Names Criteria Names

- 01- DENTAL SERVICE (222)
 - 01- RECEPTION AREAS
 - 02- PATIENT AREAS
 - 01- DNTG1 - Operatory, General Treatment
 - 02- DNXC1 - Panoramic X-Ray
 - 03- TLTU1 - Toilet, Patient
 - 04- DNTG1 - Operatory, General Treatment
 - 05- DNTG1 - Operatory, General Treatment

General Program for Design (PFD) Contents Permissions

Room Code/Name: Search

Sort By: Room Name Compressed Uncompressed

Delete	Qty	Room Code	Room Name
<input type="checkbox"/>	1	DNPC1	Ceramics Room
<input type="checkbox"/>	1	CRA02	Conference / Classroom
<input type="checkbox"/>	1	CRA01	Conference Room / Library
<input type="checkbox"/>	1	RPR01	Copy Room
<input type="checkbox"/>	1	JANC1	Housekeeping Aides Closet - HAC
<input type="checkbox"/>	1	DNPC2	Instrument Preparation and Sterilization
<input type="checkbox"/>	1	DNPL1	Laboratory, Dental Prosthetic
<input type="checkbox"/>	1	DNPL1	Laboratory, Maxillo-Facial
<input type="checkbox"/>	1	HC1	Laboratory, Oral Pathology
<input type="checkbox"/>	1		Linen Room and Clean SF



VA



U.S. Department
of Veterans Affairs



Department of Defense

**Military Health
System**

Welcome to the Space and Equipment Planning System (SEPS)

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- At any time, the USG may inspect and seize data stored on this IS.
- Communications using, or data stored on, this IS are not private, are subject to routine monitoring, interception, and search, and may be disclosed or used for any USG-authorized purpose.
- This IS includes security measures (e.g., authentication and access controls) to protect USG interests--not for your personal benefit or privacy.
- Notwithstanding the above, using this IS does not constitute consent to PM, LE or CI investigative searching or monitoring of the content of privileged communications, or work product, related to personal representation or services by attorneys, psychotherapists, or clergy, and their assistants. Such communications and work product are private and confidential. See User Agreement for details.

I Agree



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SEPS - Project Administration [Project Builder]

Project: SEPS CLINIC IN LOS ANGELES (NEW CLINIC)
Department: DENTAL SERVICE (222)

General Input Data Worksheet Program for Design (PFD) Contents Documents Permissions

1 of 1

Status	Question
Answered	1. Is a Panoramic / Cephalometric x-ray authorized? (M)
Answered	2. Is a Computerized Tomography (CT) Cone-Beam Room authorized? (M)
Answered	3. Is a Picture Archiving and Communication System (PACS) authorized? (M)
Answered	4. Is a Tele-health Room in the Dental Treatment Patient Area authorized? (M)
New	5. Is a Dental Surgery Suite authorized? (M)
New	6. Is a General Purpose Laboratory authorized? (M)
New	7. Is a Porcelain / Ceramics Laboratory authorized? (M)
New	8. Is a Maxillo-facial Laboratory authorized? (M)

A	E	I	J	K
Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	LOB01	LOBBY, SEATING AREA	Lobby
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	RECP1	RECEPTION	Reception
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	TLTU1	TOILET	Toilet, Visitor
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	BX001	EXCHANGE, VENDING (EQUIPPED BY OTHERS)	Vending Area
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	WRC01	WAITING	Sub Waiting
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT1	Bedroom, PRC, 1 Bed	Patient Room, One Bed
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Bathroom, Patient
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Bathroom, Patient, Shower Litter
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT2	Bedroom, PRC, Isolation, 1 Bed	Isolation Patient Room, One-Bed
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Isolation Bathroom, Patient
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRAR1	ANTEROOM, ISOLATION, NEGATIVE PRESSURE	Isolation, Anteroom
POLYTRAUMA REHABILITATION			FOOD SERVICE, CAFETERIA DINING	

A	B	C	D
2 - RECEPTION AREA			
1 - WRC01 - Waiting			
JSN	Content Item	Agency	Qty
A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	1
F0206	Chair, Side, Bariatric, With Arms	VA	1
F0305	Chair, Waiting Room, Single	VA	3
F2300	Rack, Magazine, Wall Mounted	VA	1
F2310	Rack, Pamphlet, Wall Mounted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
2 - PLAY1 - Playroom			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	2
F0215	Chair, Child's	VA	4
F0305	Chair, Waiting Room, Single	VA	2
F0760	Table, Child's	VA	1
F2000	Basket, Wastepaper, Round, Metal	VA	1
F2045	Furniture, Playroom, Assorted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
3 - RECP1 - Reception			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	2
A1015	Telephone, Desk, Multiple Line	VA	2
A6105	Counter, Reception Control, Built-In	VA	1
F0275	Chair, Swivel, High Back	VA	1

SEPS to BIM Process

SEPS - Project Administration [Reports]

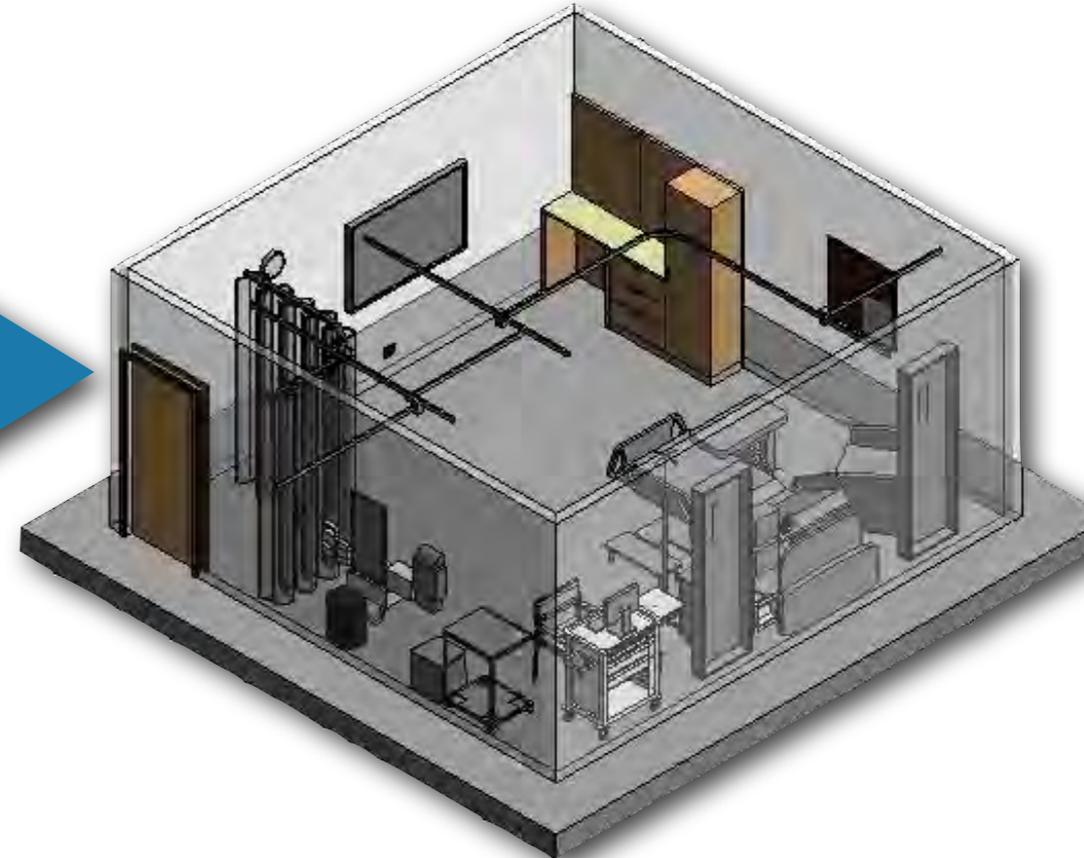
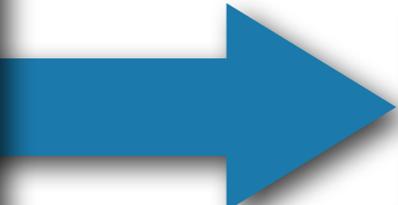
All Reports

- Program for Design
- Program for Design (Excel)
- Program for Design Summary
- Project Input Data Worksheet (Excel)
- Project Rooms
- Project Net to Gross Factors Summary
- Project User-Defined Room Types (Excel)
- Project vs. Criteria Report (Excel)
- Project Space Comparison (Excel)
- Project Change History (Excel)
- Project Room Contents
- Project Contents List (Excel)
- Project Co
- Project Us
- Project BI
- Project PA



Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	LOB01	LOBBY, SEATING AREA	Lobby
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	RECP1	RECEPTION	Reception
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	TLTU1	TOILET	Toilet, Visitor
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	BX001	EXCHANGE, VENDING (EQUIPPED BY OTHERS)	Vending Area

2 - RECEPTION AREA			
1 - WRC01 - Waiting			
JSN	Content Item	Agency	Qty
A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	1
F0206	Chair, Side, Bariatric, With Arms	VA	1
F0305	Chair, Waiting Room, Single	VA	3
F2300	Rack, Magazine, Wall Mounted	VA	1
F2310	Rack, Pamphlet, Wall Mounted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
2 - PLAY1 - Playroom			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	2
F0215	Chair, Child's	VA	4
F0305	Chair, Waiting Room, Single	VA	2
F0760	Table, Child's	VA	1
F2000	Basket, Wastepaper, Round, Metal	VA	1
F2045	Furniture, Playroom, Assorted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
3 - RECP1 - Reception			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	2
A1015	Telephone, Desk, Multiple Line	VA	2
A6105	Counter, Reception Control, Built-In	VA	1
F0275	Chair, Swivel, High Back	VA	1



Exporting BIM EXCEL from SEPS

SEPS – Project Administration [Reports]

All Reports

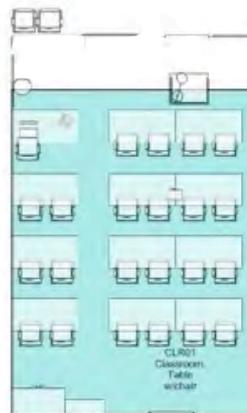
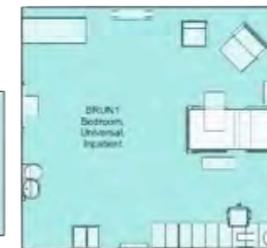
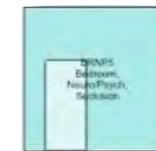
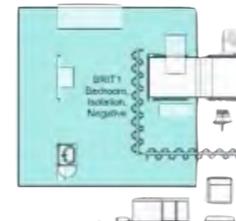
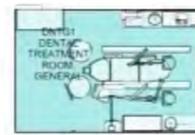
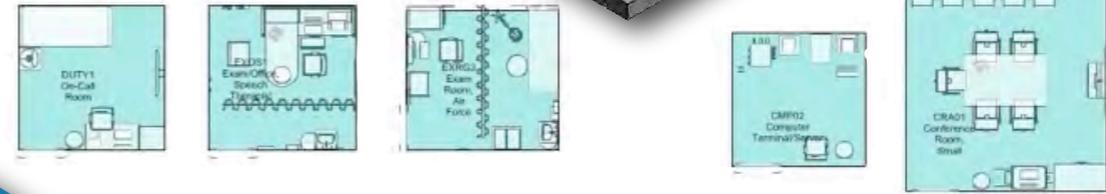
- Program for Design
- Program for Design (Excel)
- Program for Design Summary
- Project Input Data Worksheet (Excel)
- Project Rooms
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- Project User-Defined Room Types (Excel)
- Project vs. Criteria Report (Excel)
- Project Space Comparison (Excel)
- Project Change History (Excel)
- Project Room Contents
- Project Contents List (Excel)
- Project Contents Cost Summary
- Project Contents Logistical Costs
- Project Contents Quantity Listing
- Project Contents Location Listing
- Project User-Defined Content Ty
- Project BIM Export (Excel)**
- Project PACES Export (XML)

Export Project

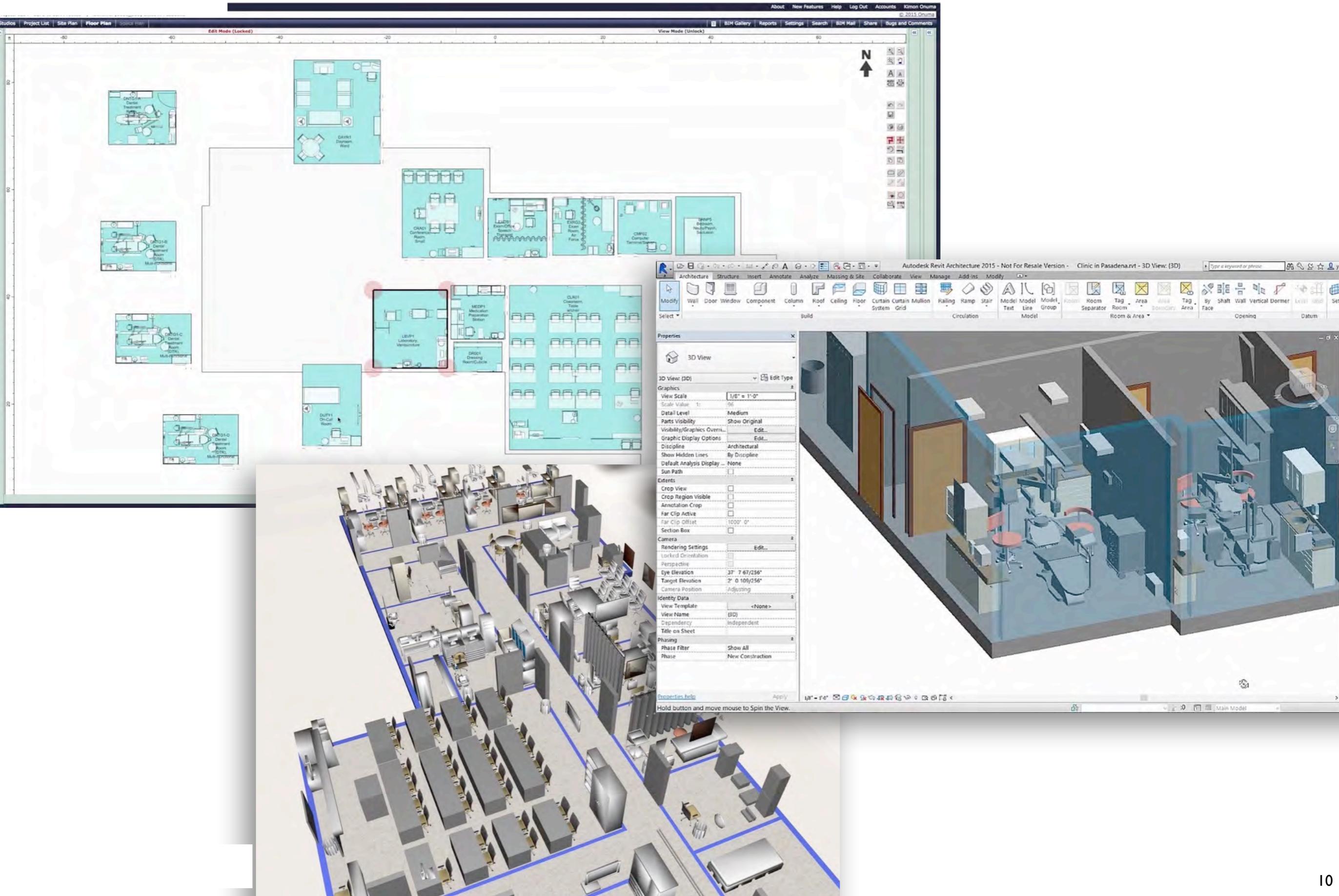
Project Building NTG Factor	Project Department Name	Project Department NTG Factor	Project Room Name	Room Code	Area	Default Area
1.35	DENTAL SERVICE (222)	1.55	Toilet, Patient	TLTU1	50	60
1.35	DENTAL SERVICE (222)	1.55	Instrument Preparation and Sterilization	DNSC2	80	145
1.35	DENTAL SERVICE (222)	1.55	X-Ray Film Processing	DNXF1	80	60
1.35	DENTAL SERVICE (222)	1.55	Housekeeping Aides Closet - HAC	JANC1	40	40
1.35	DENTAL SERVICE (222)	1.55	Linen Room and Clean SPD Cart	LCCL1	80	10
1.35	DENTAL SERVICE (222)	1.55	Soiled SPD Cart Holding	LCSL1	75	100
1.35	DENTAL SERVICE (222)	1.55	Storage	SRS01	80	100
1.35	DENTAL SERVICE (222)	1.55	Conference Room / Library	CRA01	300	250
1.35	DENTAL SERVICE (222)	1.55	Office, Assistant Chief	OFC01	120	200
1.35	DENTAL SERVICE (222)	1.55	Office, Assistant Chief	OFC01	120	200

Creating BIM from SEPS

Project Building NTG Factor	Project Department Name	Project Department NTG Factor	Project Room Name	Room Code	Area	Default Area
1.35	DENTAL SERVICE (222)	1.55	Toilet, Patient	TLTU1	50	60
1.35	DENTAL SERVICE (222)	1.55	Instrument Preparation and Sterilization	DNSC2	80	145
1.35	DENTAL SERVICE (222)	1.55	X-Ray Film Processing	DNXF1	80	60
1.35	DENTAL SERVICE (222)	1.55	Housekeeping Aides Closet - HAC	JANC1	40	40
1.35	DENTAL SERVICE (222)	1.55	Linen Room and Clean SPD Cart	LCCL1	80	10
1.35	DENTAL SERVICE (222)	1.55	Soiled SPD Cart Holding	LCSL1	75	100
1.35	DENTAL SERVICE (222)	1.55	Storage	SRS01	80	10
1.35	DENTAL SERVICE (222)	1.55	Conference Room / Library	CRA01	300	250
1.35	DENTAL SERVICE (222)	1.55	Office, Assistant Chief	OFC01	120	200
1.35	DENTAL SERVICE (222)	1.55	Office, Assistant Chief	OFC01	120	200



SEPS Spaces and Equipment in BIM



Tracking Program for Design

VA NORTH TEXAS HEALTH CARE SYSTEM
Clinical Expansion for Mental Health

Department Area Summary (NSF | GSF)
Space Program

Department Name	Department Number	Approved SEPS			DD2 110228	
		Total NSF	NTG Factor	Total DGSF	Total NSF	Total DGSF
001 Mental Health Clinic	260	37,430	1.40	52,402	43,238	64,139
002 Substance Abuse Clinic Gold Team	202	8,660	1.40	12,124	8,199	12,526
003 Veterans Recovery Center (PRRC)	261	6,785	1.45	9,838	5,351	7,545
004 Lobby	244	1,530	1.20	1,836	4,058	7,765
005 Domiciliary 40 Beds	312	18,748	1.55	29,059	20,902	32,521
006 SARRTP 40 Beds	312	18,748	1.55	29,059	21,962	32,112
007 PRRTTP 40 Beds	312	18,628	1.55	28,873	21,130	33,264
008 OTEC KTEC	270	6,969	1.35	9,408	6,675	8,092
009 MH Administration	254	15,590	1.30	20,267	10,260	15,016
010 Psychology Service	272	1,730	1.40	2,422	0	0
011 Social Work Service	282	0	1.30	0	0	0
012 Methadone Clinic	202	2,970	1.40	4,158	3,451	5,496
013 Satellite Pharmacy		870	1.30	1,131	1,181	1,474
014 Café		750	1.20	900	1,497	1,947
015 Service Dock		550	1.20	660	275	1,065
SUM OF DEPARTMENTAL DGSF TOTALS		139,958		202,139	148,179	222,962

Located in Bldg 4 - Refer to LT-SCI

Building Support and Vertical Circulation

Entry Vestibule

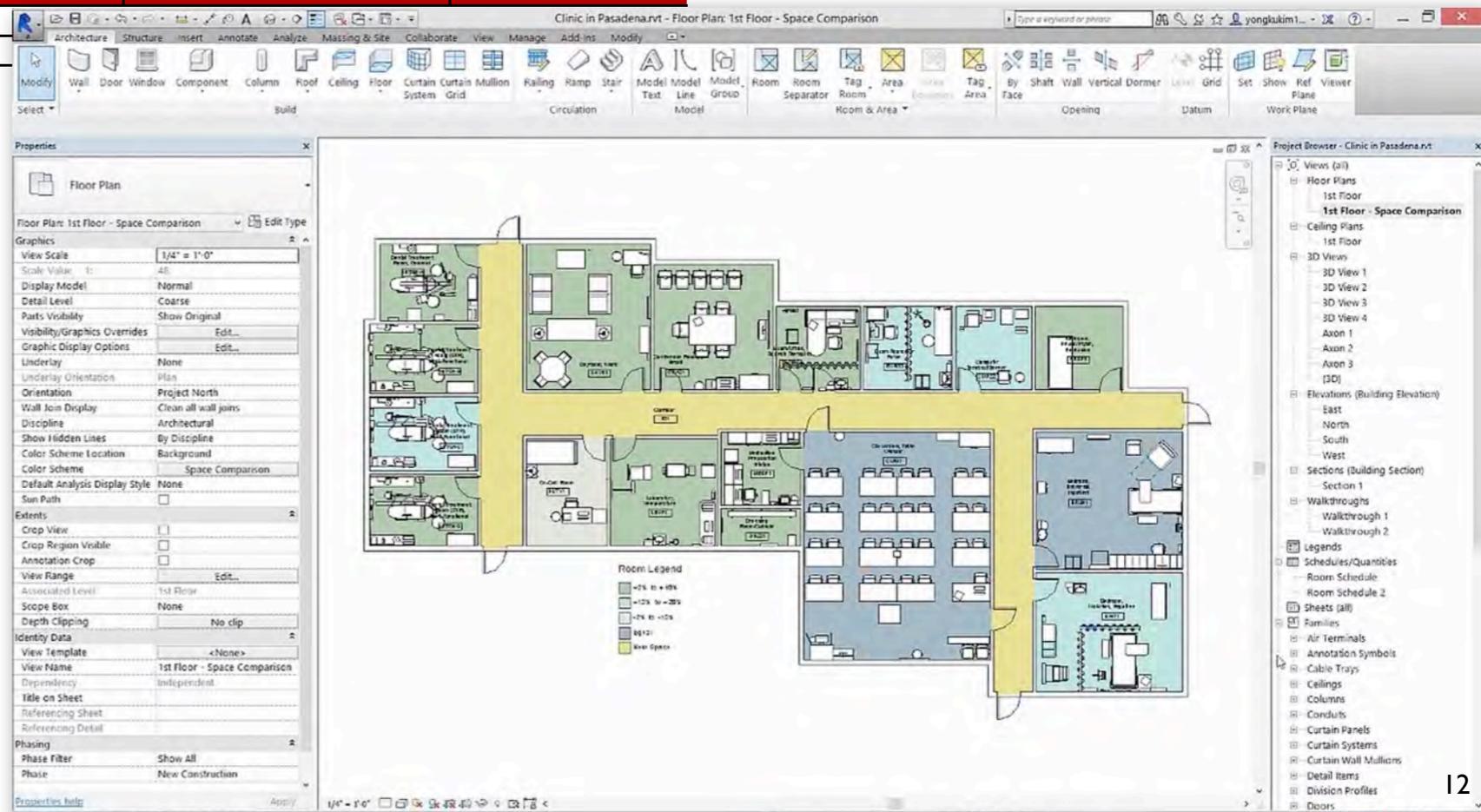
- Main Entry
- Recreation | Therapy
- VRC

Vertical Circulation

- Elevators (Clinic Public) 4 Cabs
- Elevators (Clinic Service) 2 Cabs
- Elevators (Residential Public) 2 Cabs
- Elevators (Residential Public) 2 Cabs
- Elevators (Residential Service) 2 Cabs
- Exit Stair 1
- Exit Stair 2
- Exit Stair 4 (Exterior)
- Exit Stair 5 (Exterior)
- Exit Stair 6 (Exterior)
- Exit Stair 7 (Exterior)
- Exit Stair 8
- Exit Stair 9
- Exit Stair 10

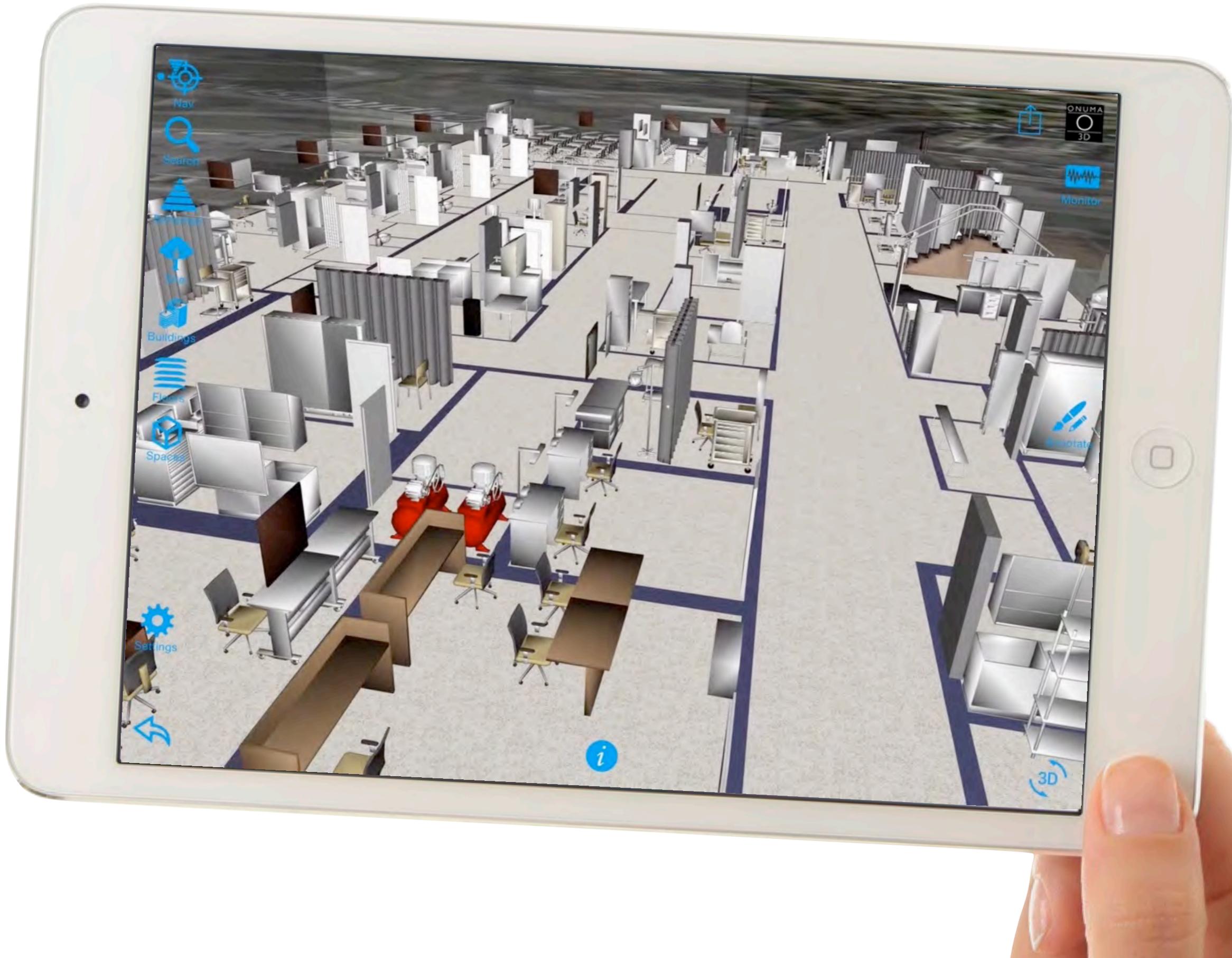
Electrical Support

- Electrical Room (Level 1)
- Electrical Room (Level 2)



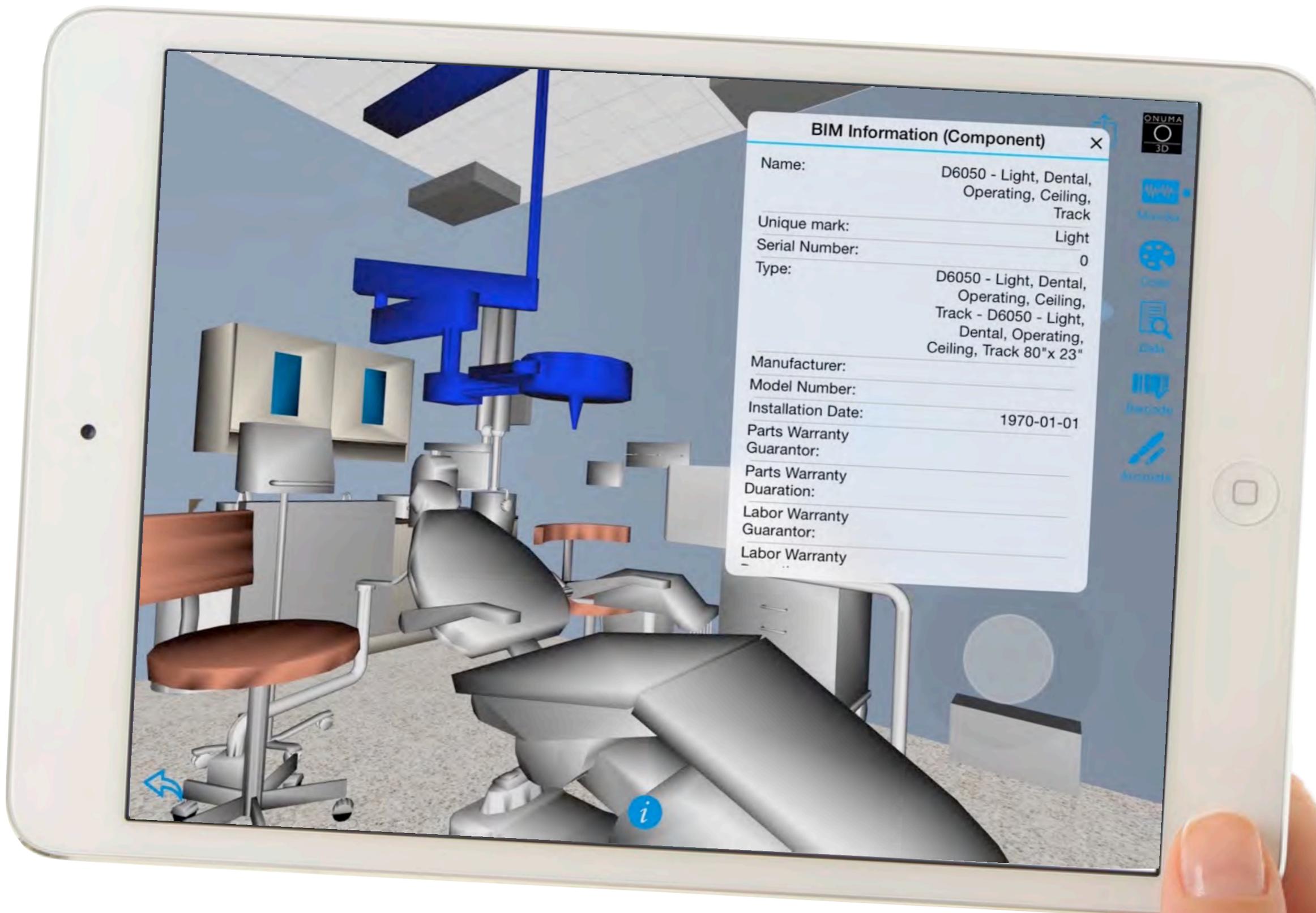


SEPS BIM is Mobile Friendly





Collaborate Through the BIM

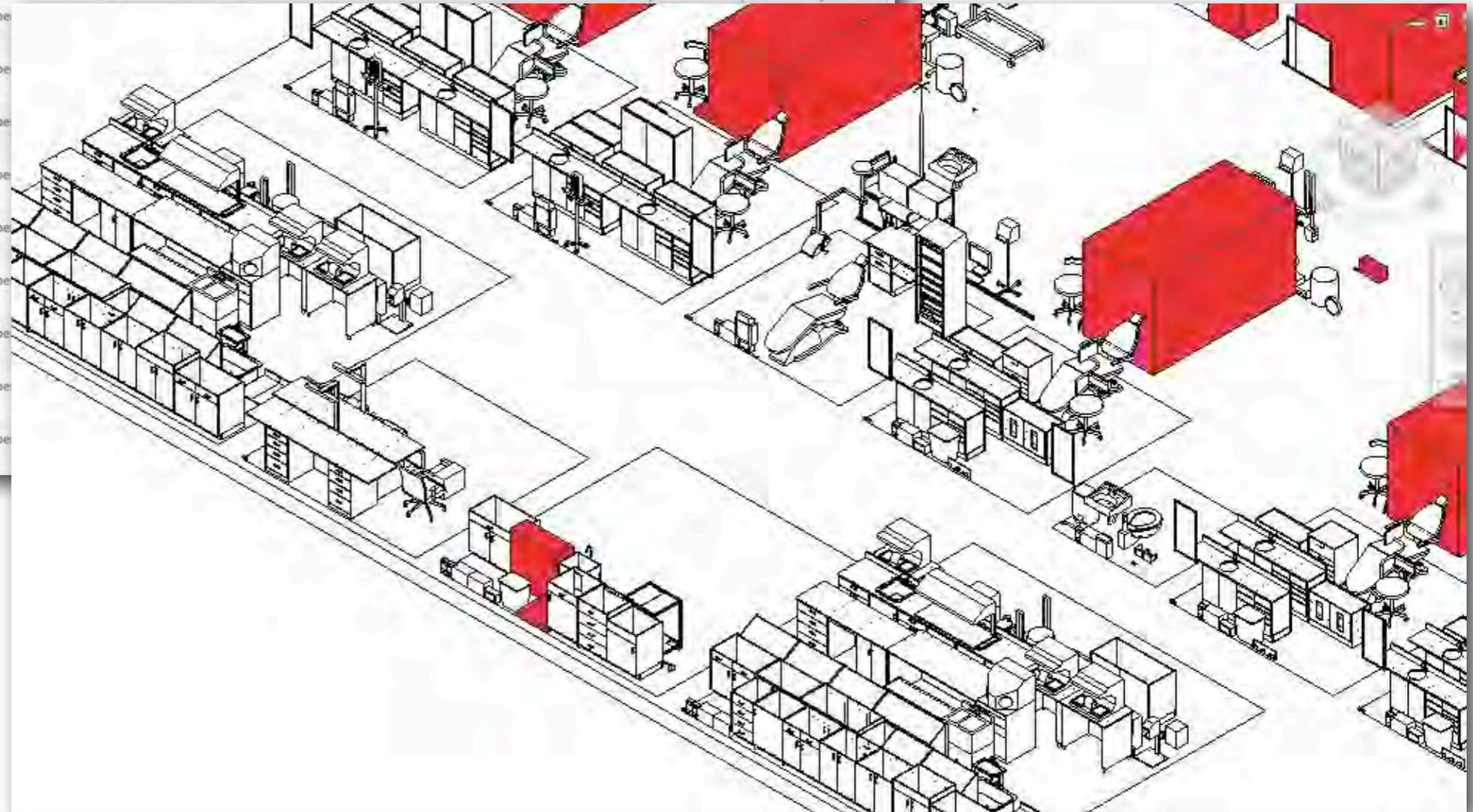


BIM Information (Component)	
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Unique mark:	Light
Serial Number:	0
Type:	D6050 - Light, Dental, Operating, Ceiling, Track - D6050 - Light, Dental, Operating, Ceiling, Track 80"x 23"
Manufacturer:	
Model Number:	
Installation Date:	1970-01-01
Parts Warranty Guarantor:	
Parts Warranty Duration:	
Labor Warranty Guarantor:	
Labor Warranty	

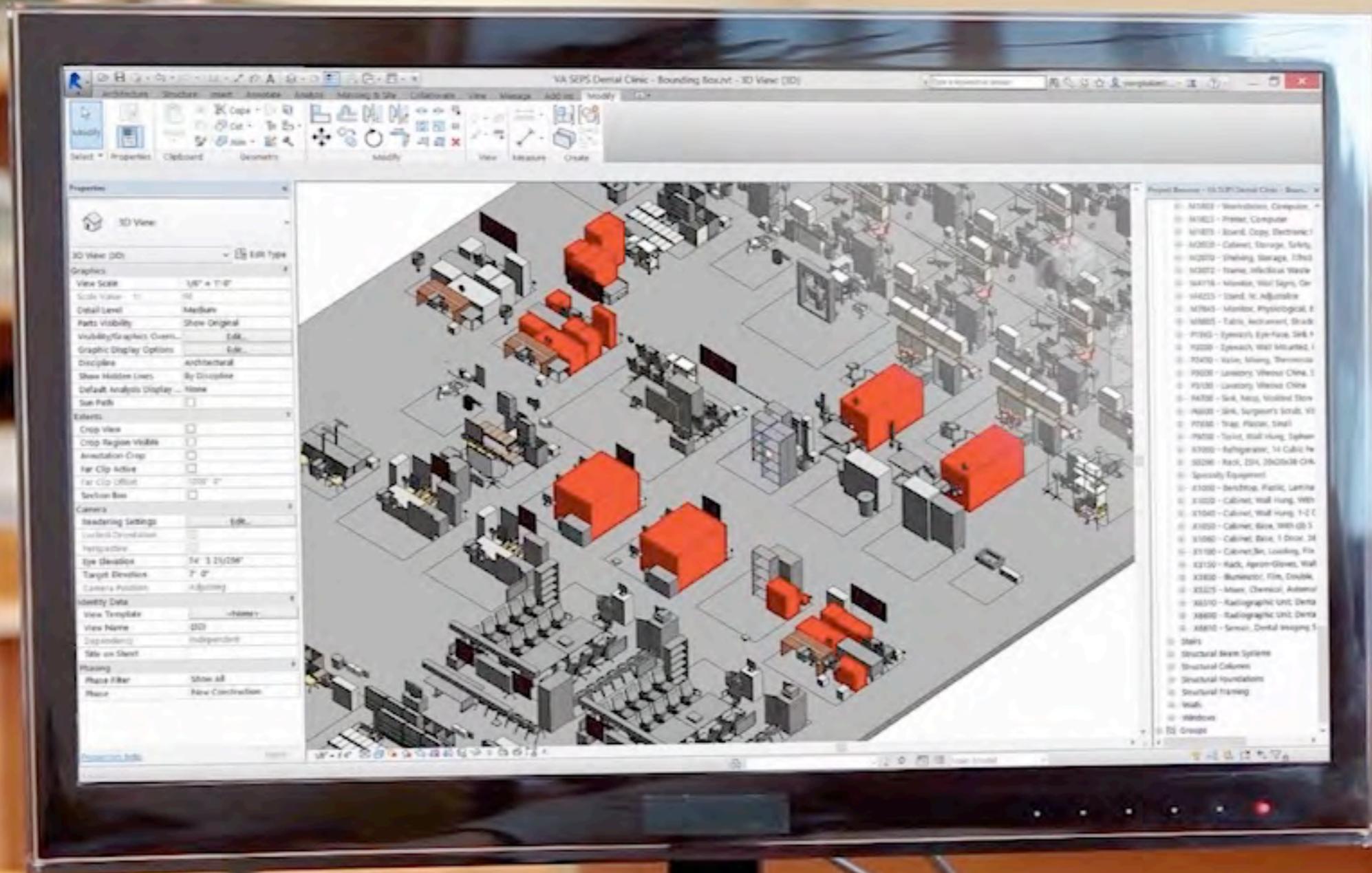
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- Monitor
- Color
- Info
- Barcode
- Assisted

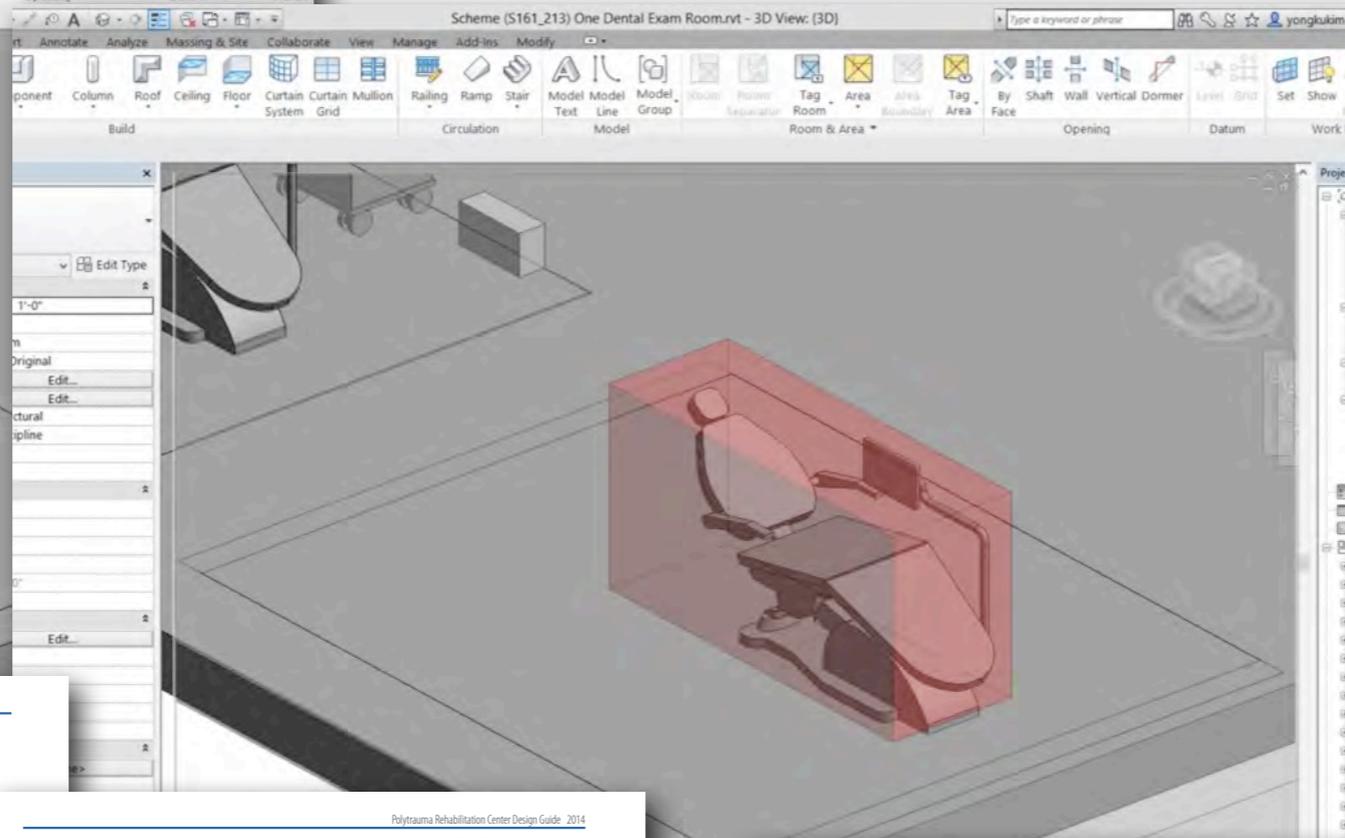
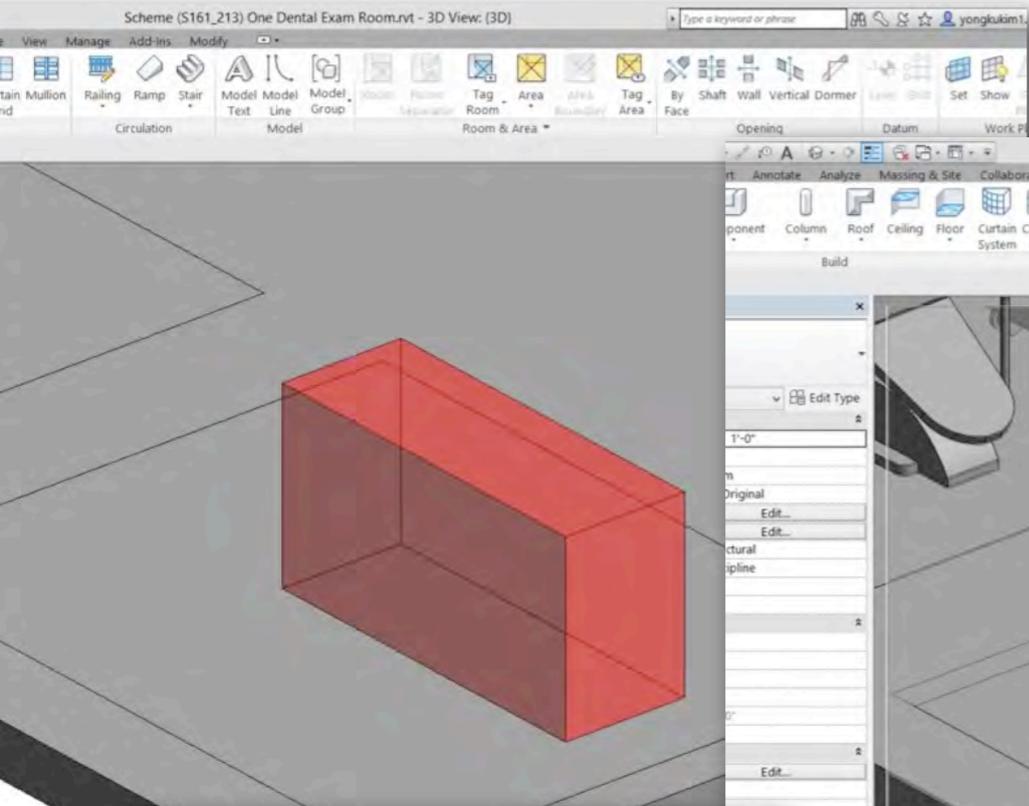
Updating Criteria in SEPS

Project Building NTG Factor	Project Department Name	Project Department NTG Factor	Project Functional Area Name	Project Room Name	Room Code	Criteria Room Name	Criteria VA Name	Omniclass Code	Area	Occ	Room Type Name	Default Area	Default Occ	Ceiling Height	Door Width	Floor Load
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Operator, General Treatment	Operator, General Treatment	13-51.64.27	120	0	Dental Treatment Room, General	125	0	102	36	60
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Operator, General Treatment	Operator, General Treatment	13-51.64.27	120	0	Dental Treatment Room, General	125	0	102	36	60
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Operator, General Treatment	Operator, General Treatment	13-51.64.27	120	0	Dental Treatment Room, General	125	0	102	36	60
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
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1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										
1.35	DENTAL SERVICE (222)	1.55	PATIENT AREAS	Operator, General Treatment	DNTG1	Ope										

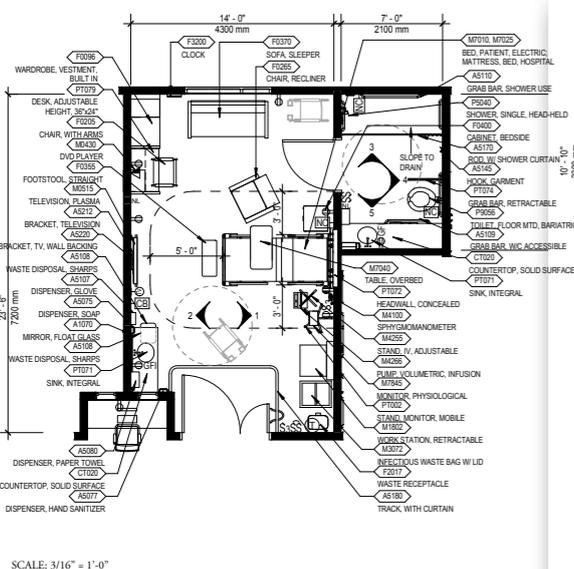


Updating Criteria and Equipment in BIM





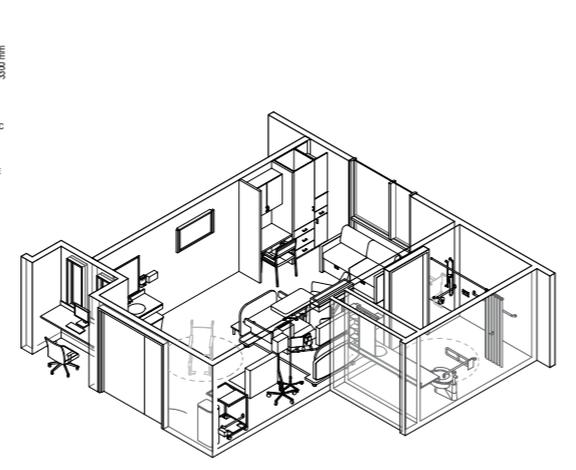
Bedroom, Patient (BRMS1); Toilet/Shower, Patient (TLTS2) - Option 3



Polytrauma Rehabilitation Center - Inpatient Unit
Floor/Equipment Plan (300 NSF/27.9 NSM; 75 NSF/7.0 NSM)

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

Bedroom, Patient (BRMS1); Toilet/Shower, Patient (TLTS2) - Option 3



Polytrauma Rehabilitation Center - Inpatient Unit
Room/Equipment Isometric

NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.



SEPS to BIM Training Material

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VA » Office of Construction & Facilities Management » Technical Information Library (TIL)

Office of Construction & Facilities Management

Technical Information Library (TIL)

THE SOURCE for VA's ELECTRONIC Design and Construction Information

TIL Feedback - we welcome your suggestions at til@va.gov

What's New in the TIL?

- Standards Updates
 - January 1, 2015
 - Previous Issues
- Physical Security Design Manual
- Plumbing Design Manual
- CBOC Prototype
- Dental Service Design Guide
- Space Planning Criteria Chapter 222 Dental Service

Related Links

- Whole Building Design Guide

TIL Quick Links

- A/E Submission Rqmts
- BIM Guide
- CBOC Prototype
- Cost Estimating
- Design Guides (graphical)
- Design Manuals
- NCA Criteria & Specs
- Signage Manual
- Space Planning, VA-SEPS
- Specifications
- Standard Details
- Sustainable Design
- VA Hospital Building System
- Wayfinding Report and Chapter

VA Numbered Standards for Construction

- PG-18-1 Master Construction Specifications
- PG-18-2 Design and Construction
- PG-18-3 Design Guides (graphical, by function)
- PG-18-4 Design and Construction

CFM TIL RESOURCES

- CFM Home
- TIL Home
- TIL CATALOG
 - product listing A to Z
- >> ALERTS
- >> Design Criteria
- >> AE Design Submission & Review
- >> Project Software Requirements
- TIL Standards from FTP site
- Contact Us

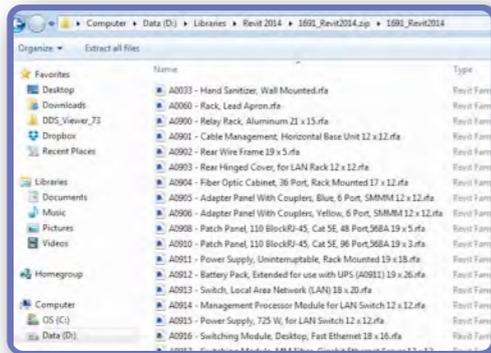
QUICK LINKS

- Career Opportunities
- Office of Acquisition, Logistics and Construction (OALC)
- Office of Small and Disadvantaged Business Utilization (OSDBU)
- Office of Asset Enterprise Management (OAEM)

CONNECT WITH US



1- Excel Room & Contents List from SEPS.

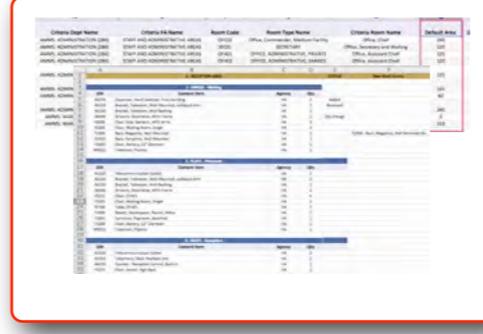


2- ALL Available Revit Family Objects



3. ALL Available BIM Templates as Individual Files
"N"=number of BIM templates

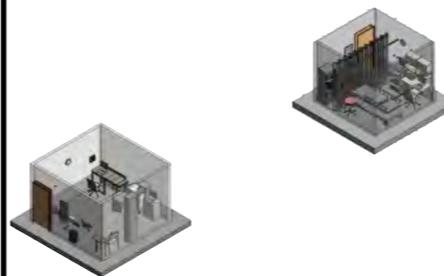
IDIQ AE Submits to VA



1- Excel Room & Contents With Status Edits.



2- Any New Revit Family Objects



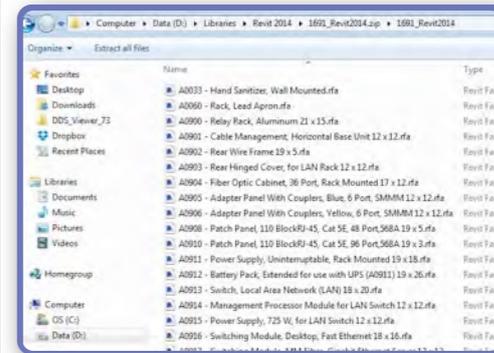
3. New BIM Templates



VA Provides to Next IDIQ AE



1- Excel Room & Contents List from SEPS.



2- Revit Family Objects Updated + more object



3. ALL Available BIM Templates as Individual Files
N+New=Number of BIM Templates

In Summary

We've seen how a new Dental Clinic project can be started and exported from SEPS.

Using the SEPS-BIM process, the information was transformed into 3D and data, then used to create and manage the design for a new construction project.

SUMMING UP

The SEPS-BIM integration allows the VA to leverage technology, enhance communications, and streamline our processes.

But most importantly, these improvements will also help the VA to meet our ultimate goal of providing the facilities that will house the best possible care for our Veterans.

VA



**U.S. Department
of Veterans Affairs**

Office of Construction & Facilities Management

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SEPS + BIM Template Prime Contractor:
National Institute of Building Sciences

Consultant:
ONUMA Inc.

Video Production:
BUILDING MEDIA Inc.