Exam, OB/GYN/Bariatric Floor Plan
DRAWING TITLE

EXRG8
SPACE TYPE

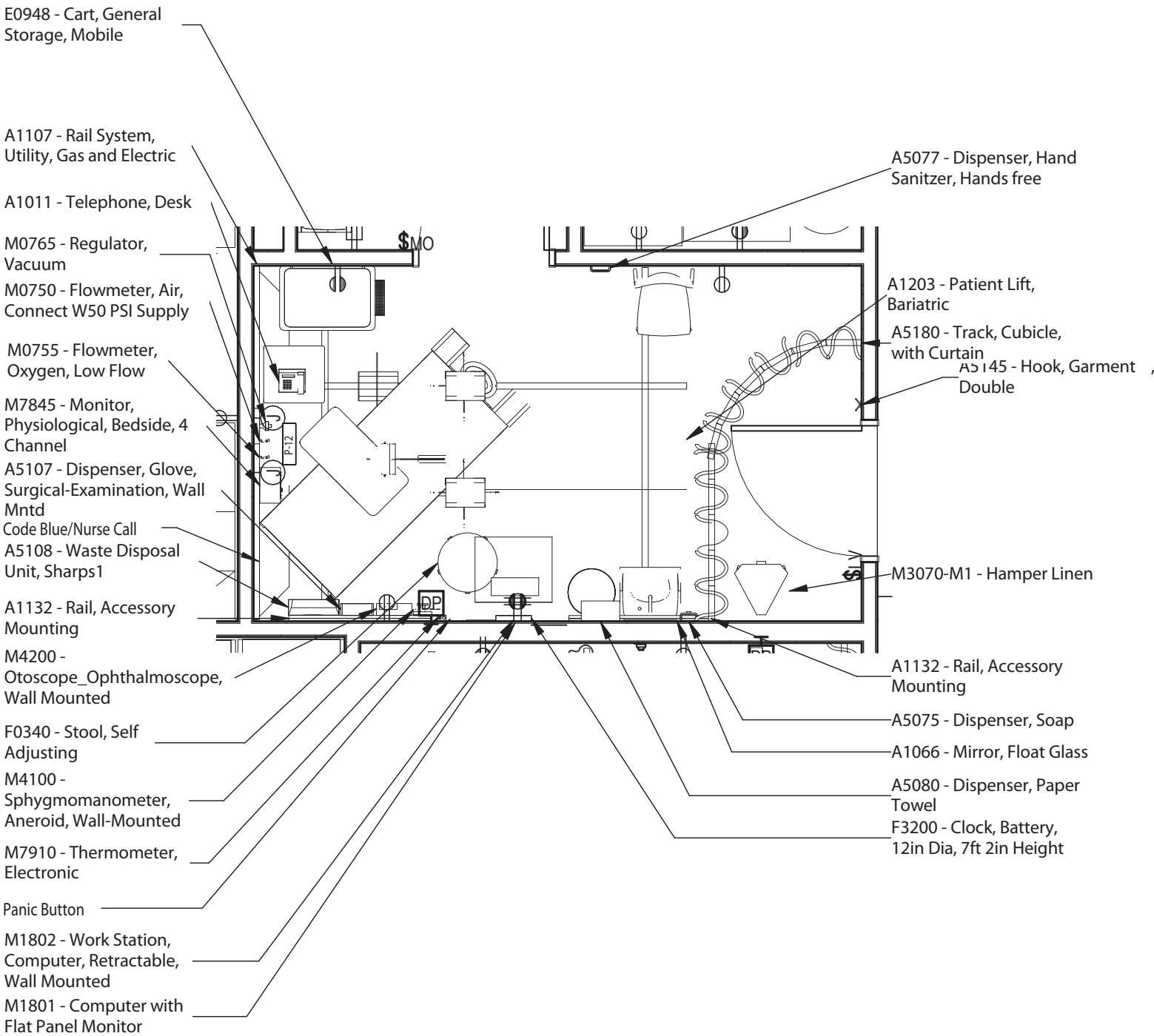
1B4321
ROOM NUMBER

AMBULATORY CARE - MED SURGICAL SPECIALTY CLINIC (262)
DEPARTMENT NAME

603-320
PROJECT NUMBER

23NOV15
DATE

1/4" = 1'-0"
SCALE



[** Note: This is an example of the Room Data Sheet submission.]

Exam, OB/GYN/Bariatric RCP

DRAWING TITLE

EXRG8

SPACE TYPE

1B4321

ROOM NUMBER

AMBULATORY CARE - MED SURGICAL SPECIALTY CLINIC (262)

DEPARTMENT NAME

603-320

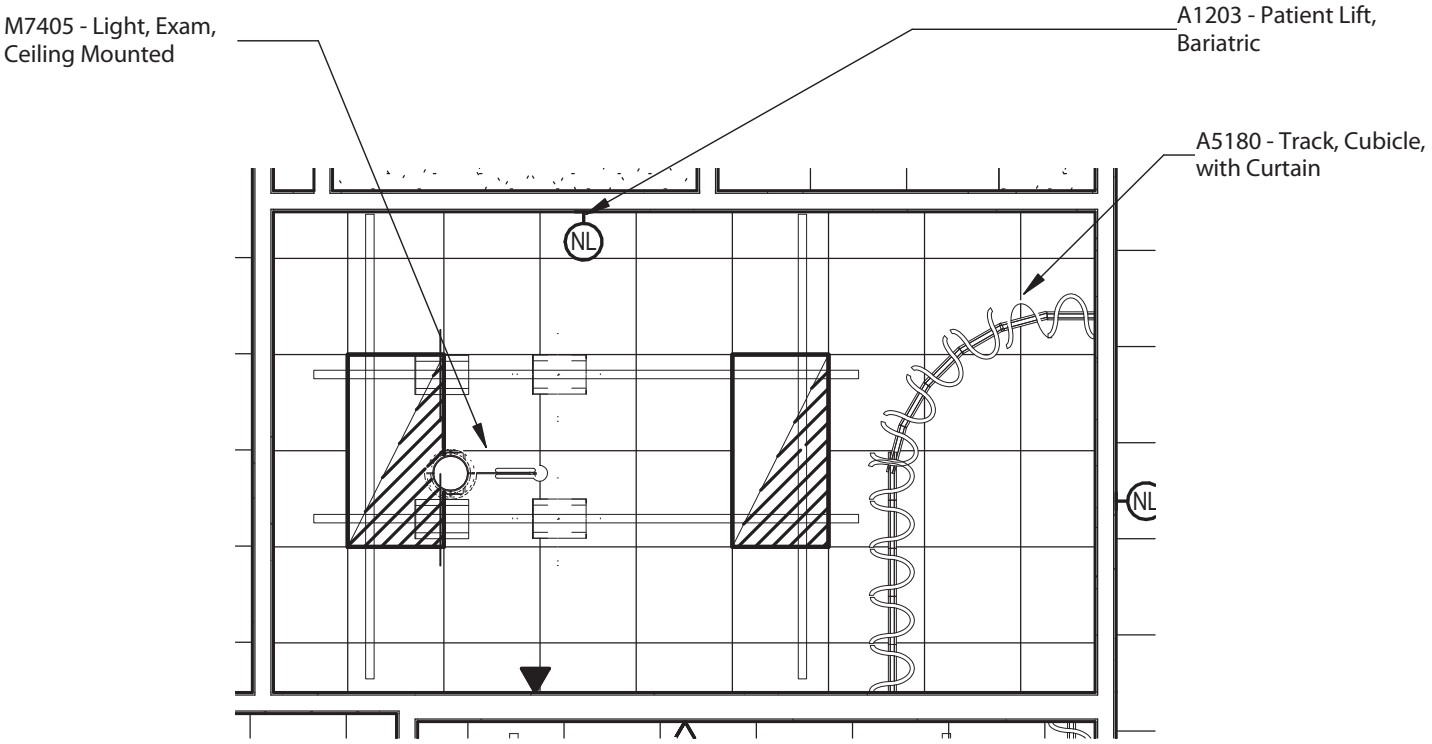
PROJECT NUMBER

23NOV15

DATE

1/4" = 1'-0"

SCALE



[** Note: This is an example of the Room Data Sheet submission.]

Exam, OB/GYN/Bariatric Elevations
DRAWING TITLE

EXRG8
SPACE TYPE

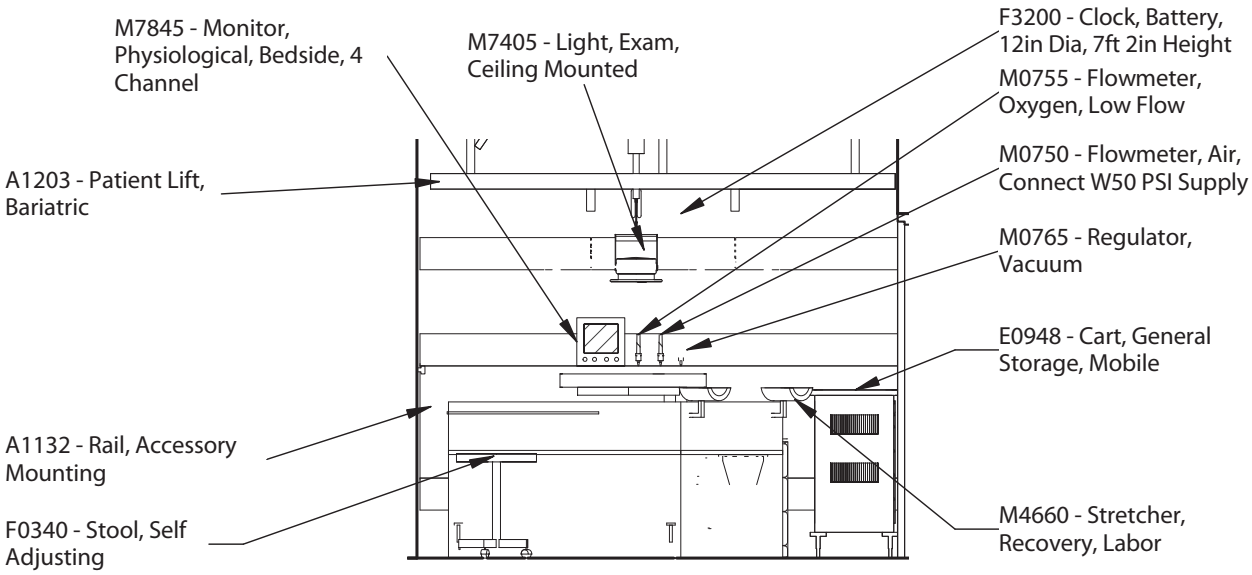
1B4321
ROOM NUMBER

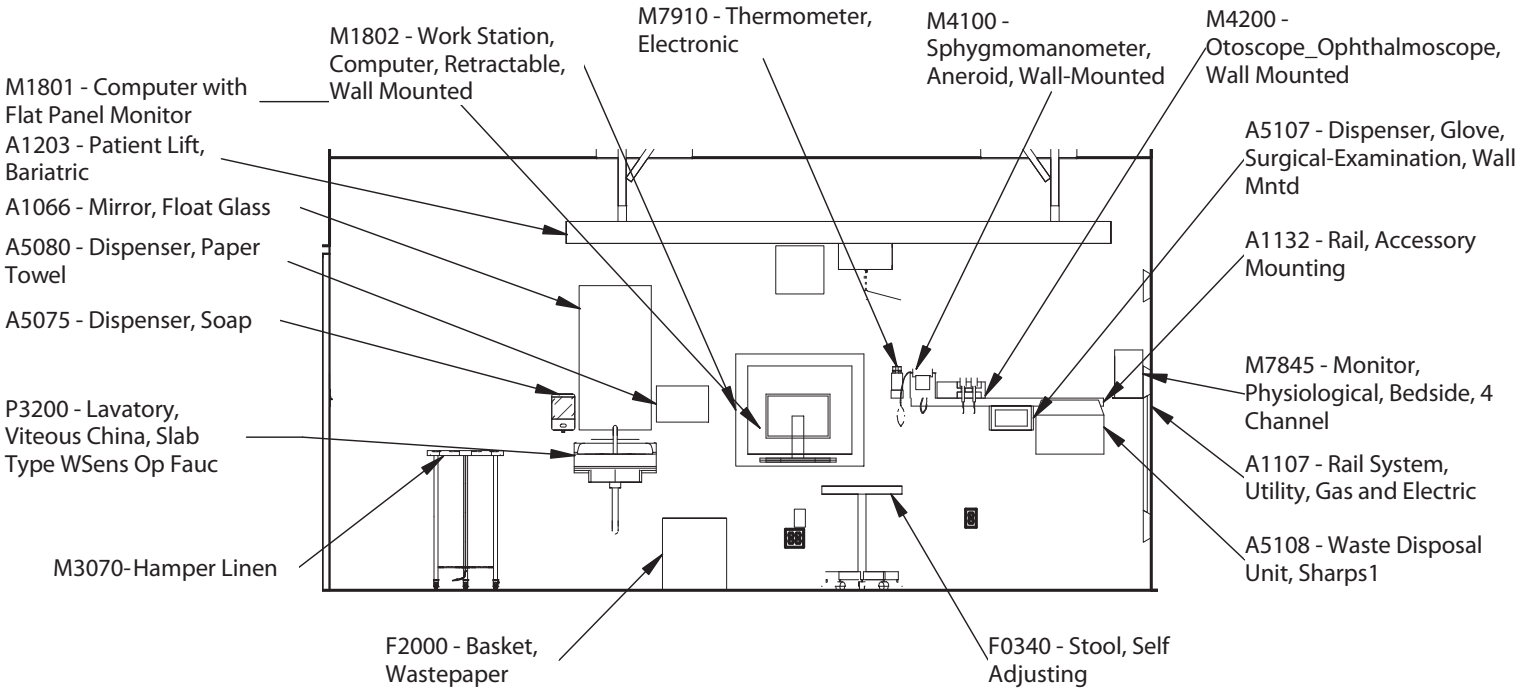
AMBULATORY CARE - MED SURGICAL SPECIALTY CLINIC (262)
DEPARTMENT NAME

603-320
PROJECT NUMBER

23NOV15
DATE

1/4" = 1'-0"
SCALE





[** Note: This is an example of the Room Data Sheet submission.]

Planning Information

Program Space Name:	Exam Room, GYN	Program Space Type:	EXRG8
Department:	AMBULATORY CARE - HOSPITAL BASED (262)	Program Space Area (NSF):	140 SF
		Room Occupancy:	2, per HVAC loads

Architectural Requirements

Ceiling Material:	GWB Lay-in Panels
Ceiling Height:	9'-0"
Wall Finish:	
Wainscot:	48"; CT in Toilet Room
Base:	RB; CT in Toilet Room
Floor Finish:	LVT; CT in Toilet Room
Slab Depression:	--
Sound Protection:	STC 40
Minimum Door Size:	3'-6"
Minimum Door Height:	7'-0"
Hardware:	--
Door Notes:	--
Windows:	--
Notes:	--

Special Equipment

Special Equipment:	--

Lighting

General:	--
Special:	
Emergency Light:	As Shown
Night Lighting:	--
Lighting Level:	Per V.A. (Appendix A:) Illumination levels
Notes:	1. 2'x4' LED recessed fixtures. 2. Dimming capabilities standard for all fixtures

Power

General:	As Shown
Special:	--
Emergency:	As Shown
Voltages:	--
Notes:	1. Junction box x-ray illuminator. Connect per equipment manufacture. 2. Recessed floor mounted junction box for exam and treatment table. 3. Portable exam light.

Communication/Special Systems

Data:	Yes
Telephone:	Yes
ADP:	--
Intercom	--
Patient Monitor:	Yes
Nurse Call:	Yes
Panic Call:	--
Battery Operated Clock:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	Yes
Notes:	Coordinate location and height of work station receptacles with modular furniture.

Heating, Ventilating, and Air Conditioning

Inside Design Conditions:	Temperature: 70°F - 75°F Relative Humidity: 20% - 60%
Minimum Air Changes per Hour:	6 (Exam Room); 10 (Toilet Room)
100% Exhaust Air:	Yes (Toilet Only)
100% Outside Air:	No
Room Air Balance:	Neutral (Exam Room) ; Negative (Toilet Room)
Dedicated Exhaust System:	No
AC Load (Equipment):	As Required
AC Load (Light):	As Required
Occupancy:	2, per HVAC loads
Individual Temperature Control:	--
Room Pressure:	Neutral (Exam Room) ; Negative (Toilet Room)
Noise Criteria:	--
Notes:	

Plumbing and Medical Gases

Cold Water:	Yes
Hot Water:	Yes
Domestic Water (HWH):	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	#
Medical Vacuum:	#
Medical Oxygen:	#
Laboratory Air:	#
Laboratory Vacuum:	#
Laboratory Oxygen:	#
Laboratory CO2:	#
Misc. Gases:	#
Sprinkler:	--
Floor Drain:	--
Water Control:	--
Notes:	

[** Note: This is an example of the Room Data Sheet submission.]

Exam, OB/GYN/Bariatric Equipment List

DRAWING TITLE

EXRG8

SPACE TYPE

1B4321

ROOM NUMBER

AMBULATORY CARE - MED SURGICAL SPECIALTY CLINIC (262)

DEPARTMENT NAME

603-320

PROJECT NUMBER

23NOV15

DATE

SCALE

JSN	NAME	QTY	ACQ/INS
A1011	A1011 - Telephone, Desk, 1 Line 12 x 12 12"x 12"	1	
A1107	A1107 - Rail System, Utility, Gas and Electric 120"x 2"	1	
A1132	A1132 - Rail, Accessory Mounting 48"x 2"	2	
A1203	A1203 - Patient Lift, Bariatric	1	
A5075	A5075 - Dispenser, Soap 6"x 3"	1	
A5077	A5077 - Dispenser, Hand Sanitzer, Hands free 7"x 3"	1	
A5080	A5080 - Dispenser, Paper Towel 13"x 7"	1	
A5107	A5107 - Dispenser, Glove, Surgical-Examination, Wall Mntd 10"x 4"	1	
A5108	A5108 - Waste Disposal Unit, Sharps 17"x 13"	1	VV
A5145	A5145 - Hook, Garment, Double 4"x 2"	1	CC
A5180	A5180 - Track, Cubicle, with Curtain 11"x 12"	11	VV
E0948	E0948 - Cart, General Storage, Mobile 42x32x22 35"x 22"	1	VV
F0340	F0340 - Stool, Self Adjusting 20"x 20"	1	VV
F2000	F2000 - Basket, Wastepaper 16"x 16"	1	VV
F3200	F3200 - Clock, Battery, 12in Dia 12"x 2", 7'-2" Height	2	
M0750	M0750 - Flowmeter, Air, Connect W50 PSI Supply 1"x 3"	1	
M0755	M0755 - Flowmeter, Oxygen, Low Flow 1"x 3"	1	
M0765	M0765 - Regulator, Vacuum 4"x 3"	1	
M1801	M1801 - Computer with Flat Panel Monitor	1	VV
M1802	M1802 - Work Station, Computer, Retractable, Wall Mounted 32"x 6"	1	
M3070	M3070-M1 - Hamper Linen	1	
M4100	M4100 - Sphygmomanometer, Aneroid, Wall-Mounted 10"x 4"	1	
M4200	M4200 - Otoscope_Ophthalmoscope, Wall Mounted 12"x 4"	1	
M4660	M4660 - Stretcher, Recovery, Labor 37"x 92"	1	VV
M7040	M7040 - Table, Overbed 18"x 36"	1	VV
M7405	M7405 - Light, Exam, Ceiling Mounted 13"x 31"	1	CC
M7845	M7845 - Monitor, Physiological, Bedside, 4 Channel 12"x 7"	1	VV
M7910	M7910 - Thermometer, Electronic 3"x 2"	1	VV

[** Note: This is an example of the Room Data Sheet submission.]

Exam, OB/GYN/Bariatric Axo

DRAWING TITLE

EXRG8

SPACE TYPE

1B4321

ROOM NUMBER

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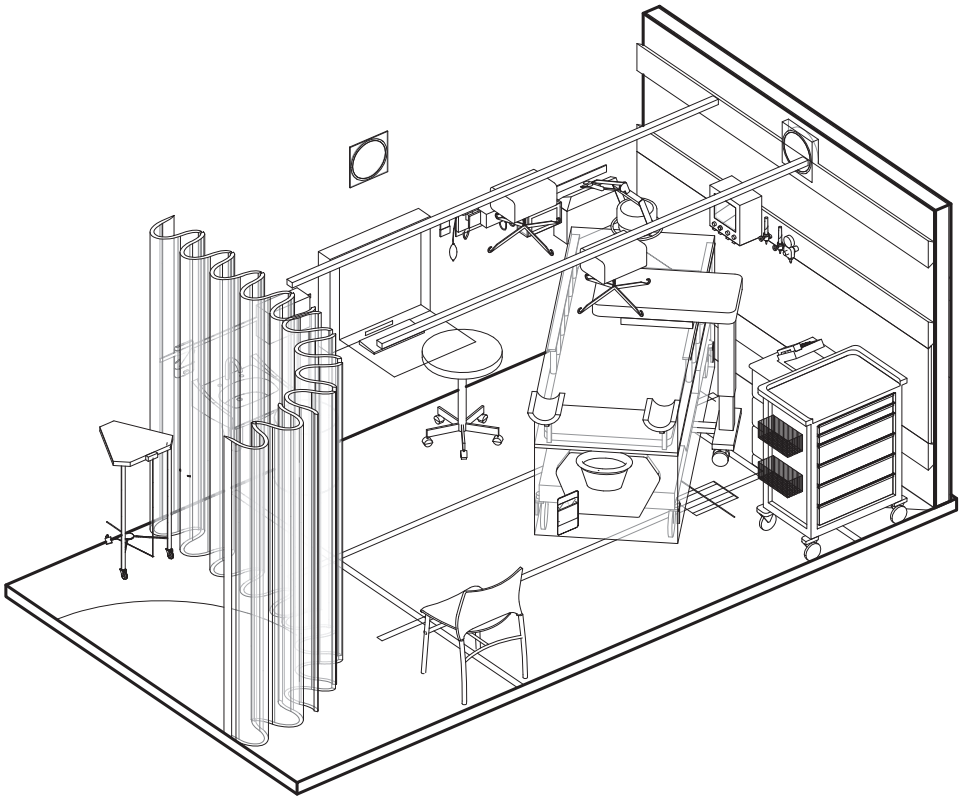
SCALE



1 Team 4 - Exam Rm, OB/GYN/Bari

SCALE:

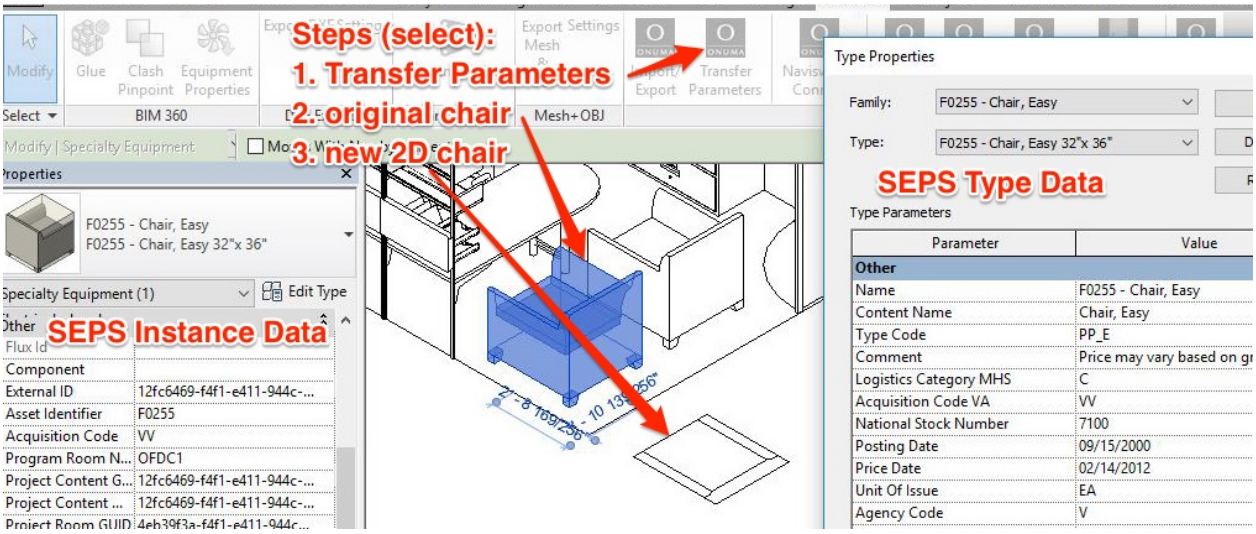
* Submit 3D pdf. model file instead of static axonometric drawing.

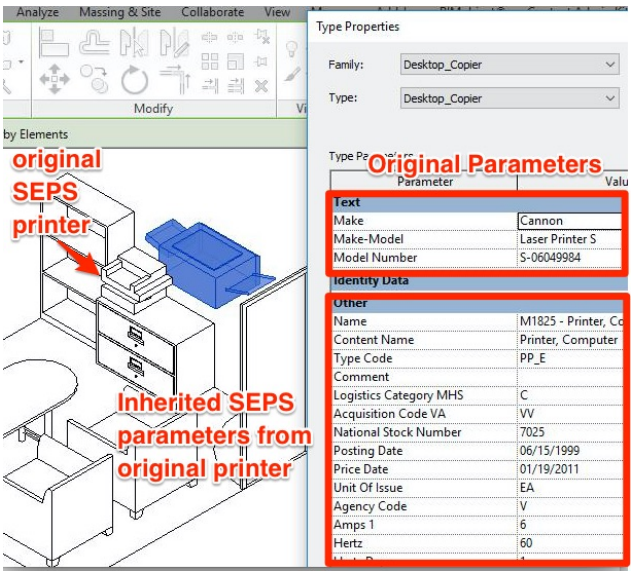
[** Note: This is an example of the Room Data Sheet submission.]

APPENDIX 2 Maintaining Type and Instance Data when Replacing Objects

Normally, changing the Type of a family to another Type of a family keeps the Instance Data (individual GUID, etc.) intact but the Type data gets lost since the object inherits the data of the new Type.
The free ONUMA Plugin to import the SEPS Requirements file can be used to replace the default SEPS2BIM object with any other object (2D object, generic object, manufacturer specific object, etc.) even if they don't belong to the same Family Category in Revit.
Replacing objects while maintaining the original VA data involves the following steps:

1) Add an instance of a family to your model
2) Select the "Transfer Parameters" button from the Plugin
3) Click on the original object that you want to transfer the data from
4) Click on the object that you want the data to be transferred to





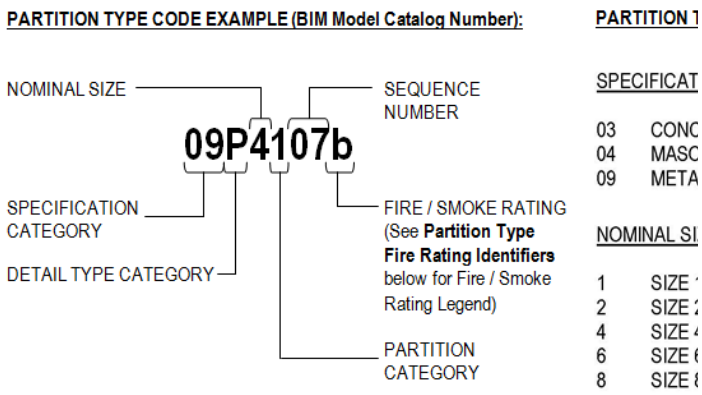
VA BIM Standard: https://www.cfm.va.gov/til/projReq.asp
SEPS2BIM Plugins: http://seps2bim.org/tools.html

APPENDIX 4 – INTERIOR PARTITIONS, FIRE-RATED PARTITIONS AND SMOKE BARRIERS

INTERIOR PARTITION TYPES

PARTITION TYPE CLASSIFICATION AND NAMING:

A different partition type is to be created for each type of wall used in the project. The following system is an example used to classify, organize, and manage partition types within the BIM model. It's used to help project teams establish a naming convention for cataloging all partition types in the model:



Example of Information built within a partition type:

Parameter	Value
Identity Data	
Keynote	
Model	
Manufacturer	
Type Comments	
URL	http://www.gp.com/build/page
Description	3 5/8" Metal Stud, 5/8" Gypsum
Assembly Description	Partitions - Drywall w/ Metal Stud
Assembly Code	C1010145
Type Mark	19b
Fire Rating	1HR
Cost	
Partition Type Code	09P4107b
Fire Test #	U465
Sound Test #	RAL TL99-103
UL URL	
USG Fire Test URL	
STC	45-49
Specification	

INTERIOR PARTITION TYPE PARAMETERS

The "Wall-Interior Partition" defines the elements and must be included as required. Partition information must be scheduled.

WALL SCHEDULE

Each partition type holds parameters containing descriptions of its components and its construction which is shown in the schedule:

Partition Type Code: A constant code to catalog partition types**

Type Mark: Construction Document Partition Type Number** * Different for each project (see *Partition Type Number* below)

Assembly Code: Defines wall at an Industry Level*

Description: Description of wall in BIM**

---

* Define for use in contract documents

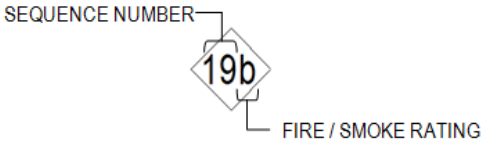
** Model management information (Not provided for specific contract document use)

PARTITION SCHEDULE				
Type Mark	Partition Type Code	Description	Area	Length
16	09P4101	3 5/8" Metal Stud, 5/8" Gypsum Board on 2 Sides 6" above Ceiling	15730 SF	1792' - 8 1/4"
17	09P4103	3 5/8" Metal Stud, 5/8" Gypsum Board on 1 Side 6" above Ceiling	41227 SF	8645' - 4 3/4"
18	09P4105	3 5/8" Metal Stud, 5/8" Gypsum Board on 1 Side at Full Height	3420 SF	291' - 11 5/8"
19	09P4107	3 5/8" Metal Stud, 5/8" Gypsum Board on 2 Sides at Full Height	226 SF	19' - 10 7/8"
19b	09P4119b	3 5/8" Metal Stud, 5/8" Gypsum Board, Fire Resistant, on 2 Sides at Full Height	10666 SF	1063' - 5 5/8"
19bs	09P4107bs	3 5/8" Metal Stud, 5/8" Gypsum Board on 2 Sides at Full Height	1283 SF	182' - 6 1/4"
20c	09P4109c	3 5/8" Metal Stud, 2 layer of 5/8" Gypsum Board on 2 Sides at Full Height	1391 SF	82' - 7"
21	09P4111	3 5/8" Metal Stud, 5/8" Gypsum Board on both sides- half height	2957 SF	321' - 4 1/8"
21bs	09P4111bs	3 5/8" Metal Stud, 5/8" Gypsum Board on 1 Side at Full Height	472 SF	66' - 0 1/4"
26	09P4201	3 5/8" Metal Stud, Batt Insulation, 5/8" Gypsum Board on 1 Side at Full Height	9372 SF	778' - 4 5/8"
			86743 SF	13244' - 3 1/4"

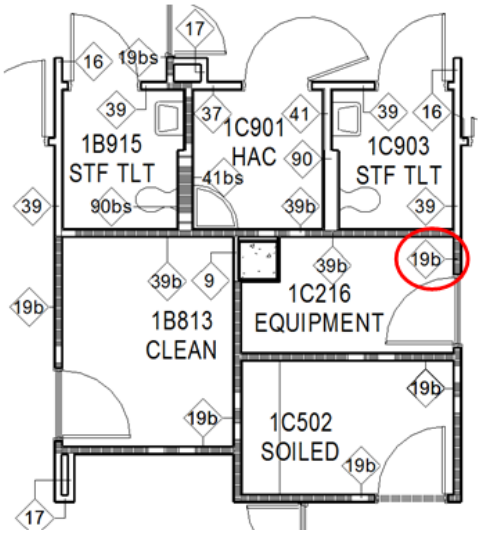
INTERIOR PARTITION TYPE NUMBER

The "Type Mark" from the schedule above relates to the construction document partition type number. It is a project specific number allowing appropriate construction document partition type number sequencing. This number which is held in the 3D partition gets tagged in plan and relates to the partition type details:

TYPE MARK



Interior Partition Type tagged in plan:



Interior Partition Type Fire Rating Legend:

19	No Rating
19a	Smoke Rated
19b	1 Hour Fire Rated
19bs	1 Hour Fire & Smoke Rated
19c	2 Hour Fire Rated
19cs	2 Hour Fire & Smoke Rated

Continue the progression of letters in the format above for ratings above 2 Hours.

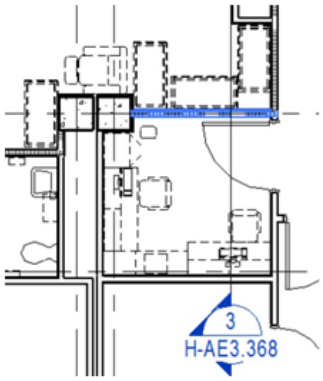
FIRE-RATED PARTITIONS AND SMOKE BARRIERS

Fire rating/smoke fill patterns are to be constructed within a 3D wall type so that the partition's respective rating is shown through all scales and through all types of views.

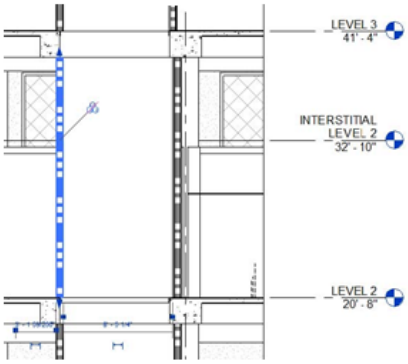
FIRE RESISTIVE RATED WALLS, 1 HOUR
FIRE RESISTIVE RATED WALLS, 2 HOUR
FIRE RESISTIVE RATED WALLS, 3 HOUR
FIRE RESISTIVE RATED WALLS, 4 HOUR
FIRE RATED, SMOKE BARRIER WALLS, 1 HOUR
FIRE RATED, SMOKE BARRIER WALLS, 2 HOUR
FIRE RATED, SMOKE BARRIER WALLS, 3 HOUR
FIRE RATED, SMOKE BARRIER WALLS, 4 HOUR

Examples of patterns showing through a variety of view-types:

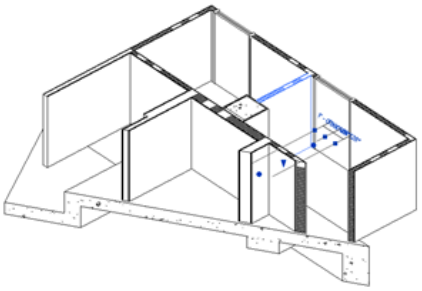
A. Plan



B. Section



C. 3-D



APPENDIX 5 INSTRUCTIONS FOR GEO-REFERENCING

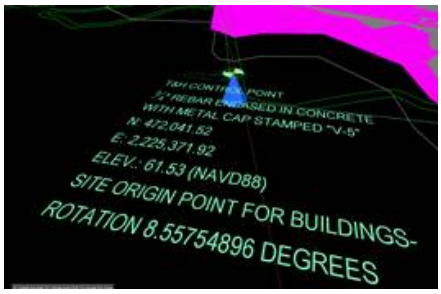
GENERAL

Because of the importance of tying the model to an actual, physical point in space so they can be referenced properly during construction and for other purposes, ALL models created for VA must be correctly geo-referenced.

DEFINITIONS

Site Origin Point - The permanent, physical, USGS[1] Survey Marker's geographic survey point

Project Base Point - The coordinate system in the model space



Site Origin and 3D Text in Model

PROCEDURES

1. The project civil engineer and/or licensed surveyor will identify, or establish, a permanent local campus or project site USGS Survey Marker (**Site Origin Point)** no further than 1.5 miles from the new building before Conceptual Design begins.
2. Civil work always refers to the State Plane coordinates of the Project Survey Marker (**Site Origin Point**). There will be a Point-of-Origin object placed in the model(s) at this point with adjacent 3D text calling out the civil coordinates.
3. The Civil Engineer will establish the correct Northings, Eastings, Elevation, and Angle to Project North from the **Site Origin Point** relative to the **Project Base Point** which must be correctly applied to **all** discipline/trade models and Design and Construction Coordination files so that the **Project Base Point** is exactly aligned to the civil survey marker **Site Origin Point**. This will assure that multiple buildings will all align with the site and each other.

Project Base Point Reference

4. The relationship of the ***Site Origin Point coordinates and True North*** to the ***Project Base Point and Project North*** are jointly determined by the civil engineer and architect. This allows the location of the building on the site to adjust without changing the model survey alignments.

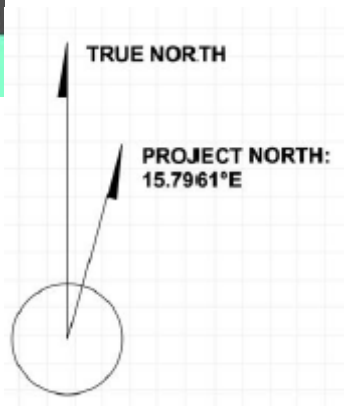


Illustration of True North/Project North

[1] United States Geological Survey = USGS

5. The Architects Engineers and designers will include a 3d Marker in all design models with text hat state the distance (X,Y,Z) to the southwest column grid at top of slab.
6. All construction/shop/fabrication models will include a 3D Marker in all design models with text that states the distance (X,Y,Z) to the southwest column grid at top of slab.

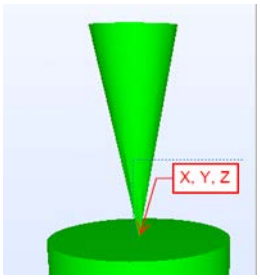
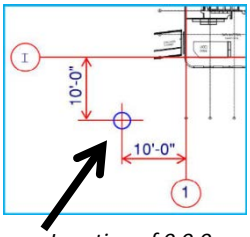


Illustration of 3D Marker

Modeling[2] **-** When starting to model a new project, make the **Project Base Point** visible on the initial Main Level plan view. Set and pin the structural column grid intersection (typically A-1) to *precisely* align the location of the **Project Base Point** with the **Site Origin Point**. The Northings, Eastings, Elevation, and Project North must be entered into the Identity Data parameters for this structural grid intersection, and a second Identity Data parameter should be set up at (0,0,0). The (0,0,0) parameter should be used when exporting IFC files, so that the IFC files have the Project Base Point, at (0,0,0) when checked in model viewing software.

Project North and True North must be accurate and easily identifiable in all models and on all plan view drawing deliverables. The Model Manager must set the location of the models so that the civil model is at actual elevation, and the building models align and the X and Y coordinates of the **Site Origin Point** are at (0,0) and the buildings align.

With approval from VA in cases where a USGS Survey Marker cannot be made available, building models must establish the Project Origin (0,0,0) outside of the building so that it can be adjusted later to reference a permanent Survey Marker. The Project Origin must be located at the top of the slab (TOS) and 10’ West and 10’ South of the southwest corner of the structural column grid intersection (typically A-1). A 3D Marker must be placed in the model at this location (0,0,0). The distance North, West, and Elevation from the Marker (0,0,0) to the column line (10’,10’,0’) must also be shown in 3D text near the marker.



Location of 0,0,0

[2] These instructions are for Revit use; users of other software should consult with the vendor for instructions to achieve the same result.

APPENDIX 6 As-Built Deliverables for Leasing

Before the space is released to the VA tenant, the Lessor shall provide the VA with As-Built documentation reflecting the actual leased space. This information is necessary to provide information for the annual reporting on VA's Capital Asset Inventory of space to the Office of Management and Budget (OMB) and for passing The Joint Commission surveys, who assures that VA provides care in safe environments. The As-Built documentation shall consist of electronic files (on DVD or other agreed upon transfer medium) and include a Building Information Model (BIM/model) in the latest release of Autodesk Revit (.rvt file format) and 2D floorplans (.dwg and electronic .pdf formats) derived from the model according to the guidance provided in the VA Drawing Deliverable Requirements (DDR). The lessor also should refer to the VA BIM Standards for additional guidance on modeling the elements noted in Appendix 6.

As-Built Deliverables when VA is a Tenant in Leased Space: The BIM As-Built documents shall show only the architectural layout elements pertinent to the lease (no finishes or graphic rendering), and include locations of exterior walls and roof (Level of Development (LOD) 200). Floor layout, interior walls, exterior and interior doors, windows, floors, column locations in rentable space, ceilings, bathrooms, and circulation (corridors, exit stairs, elevators, etc.) shall be modeled to a LOD 300. Other elements and utility systems do not need to be modeled.

Rooms, Departments, and areas must be modeled as *spatial objects* following Autodesk Revit best practices and be generated with the appropriate BIM tool and associated with bounding elements (walls, doors, windows, floors, columns, ceilings, underside of deck). All properties information associated with these spaces must be fully generated from and connected to the model geometry which defines its boundaries.

When using Autodesk Revit, **Architectural Spaces** must be modeled as **"Rooms"** and when rooms are aggregated into Departments they must also be modeled as **"Areas."**

All *spatial objects* must be identified with the appropriate property information, identifying each room by name and functional code and department ownership according to the Capital Asset Inventory Space (CAI) Mapping Guidelines. If two areas have different functional space classifications, even though they are within the same physical room, they must be modeled as two separate spatial objects. Net Usable Square Feet (NUSF), Department Gross Square Feet (DGSF), and Gross Square Feet (GSF) for each space as applicable must be calculated automatically using BIM tools, and shown on the 2D electronic floorplans. (See Standard Alert 002a on the VA Technical Information Library for how to measure spaces.)

Life Safety Code, Physical Security, Rated Partitions, Exiting: All building elements that pertain to the Life Safety Code, Physical Security, emergency egress paths, exit sign locations, fire pull stations, suite designations, etc., must be modeled (minimum) to LOD 300. The specific identifying non-graphic information must be attached to each element. All Smoke Barriers and Fire Rated Partitions including fire safety suites must be modeled in BIM and shown on the 2D floor layout plans according to the rated walls graphic fill patterns provided in the VA BIM Standard Appendix 4.