

**Section 4**

**Design Plates, Standards,  
Equipment Lists**



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**Guide Plates**

The Guide Plates are organized by Functional Area and then by room name. Guide Plates that apply to more than one functional area are at the front of this section.

See Appendix in Section 5 for Index of Guide Plates by all functional areas including cross references by room designations (SEPS code) used in the Space Planning Criteria.

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# Introduction

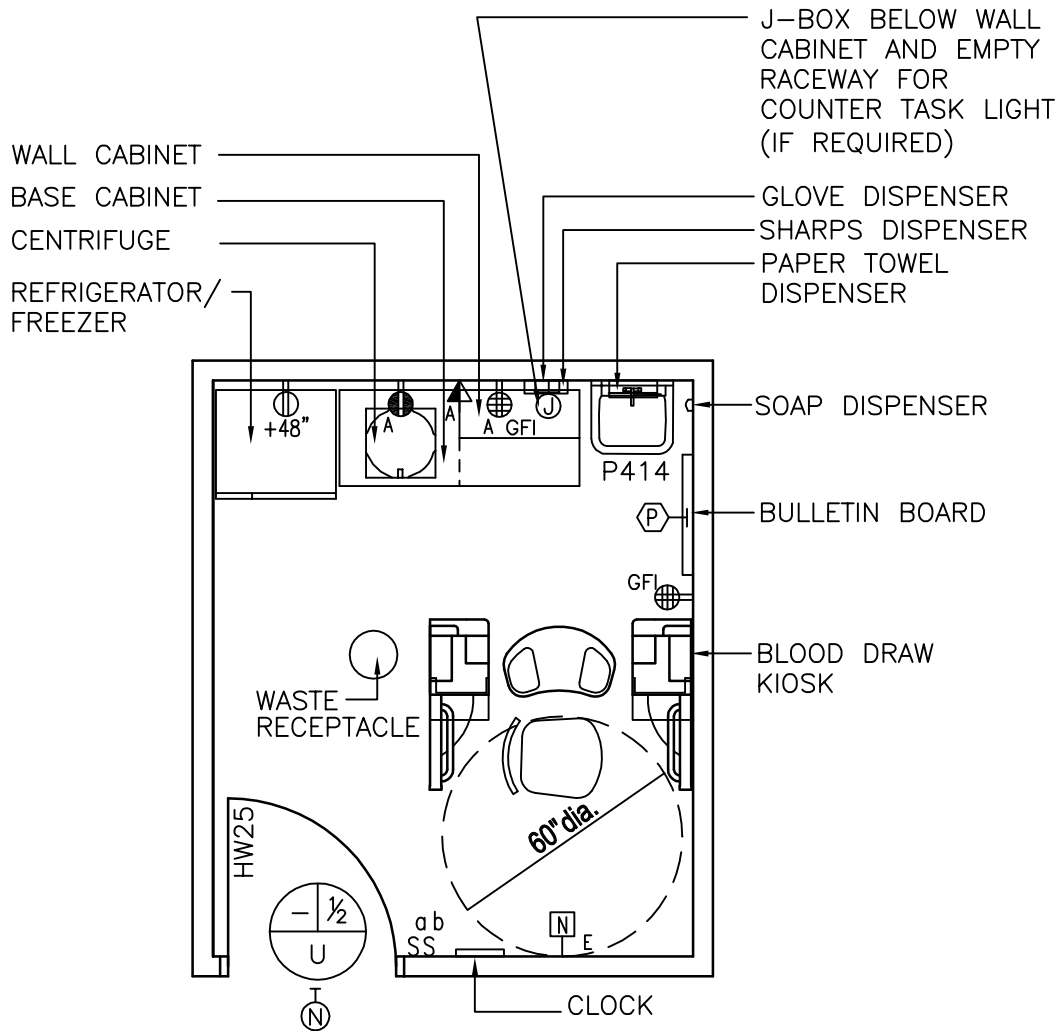
The Design Guide Plates included with this publication are intended as general representations of typical furniture, equipment, functional and personnel space needs. The design Guide Plates were developed as a design tool to assist the Project Team in understanding the choices to be made during design; and to assist designers in understanding VA's functional requirements for Ambulatory Care Clinics. The Guide Plates are not intended to be project specific and are not meant to limit design opportunities.

While plates are provided for a majority of spaces required in an Outpatient Clinic, it is not possible to foresee all possible variations or future requirements. The project-specific space program shall be used as the basis for individual project design.

In all cases the Guide Plates must be reviewed against project criteria and any special requirements. Users shall refer to other VA criteria and standards (listed in Section 1) when information is either too detailed or too broad to be included in the Guide Plates. Equipment requirements and technologies are continually evolving. Equipment manufacturers shall be consulted for actual dimensions and utility requirements.

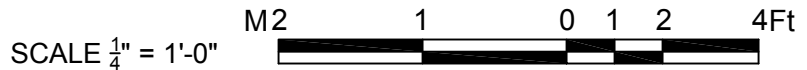
See Section 5 for a cross reference to the Room Names and SEPS designations used in Chapter 265 of the Space Criteria.

Blood Draw (LBVP1)  
Floor Plan



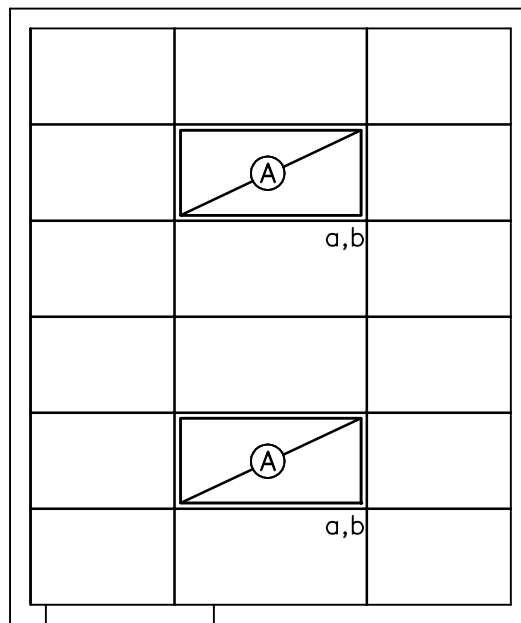
120 NSF/ 11.2 NSM (SHOWN ABOVE)

ONCOLOGY LAB SIMILAR REDUCE TO 80 NSF/ 7.4 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.

Blood Draw (LBVP1)  
Reflected Ceiling Plan



120 NSF/ 11.2 NSM (SHOWN ABOVE)

ONCOLOGY LAB SIMILAR REDUCE TO 80 NSF/ 7.4 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

## Blood Draw (LBVP1)

### Design Standards

#### ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

#### SPECIAL EQUIPMENT

	--
--	----

#### LIGHTING

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fluorescent nurse call light.</li> <li>6) Fixture description for alternate 80 NSF room is the same as described in Note 1 above. Orient two fixtures at 90° to layout for 120 NSF room. Reduce fixture wattage to approximately 65% that required for 120 NSF room.</li> </ol>

#### POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

#### COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

#### HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

#### PLUMBING AND MEDICAL GASES

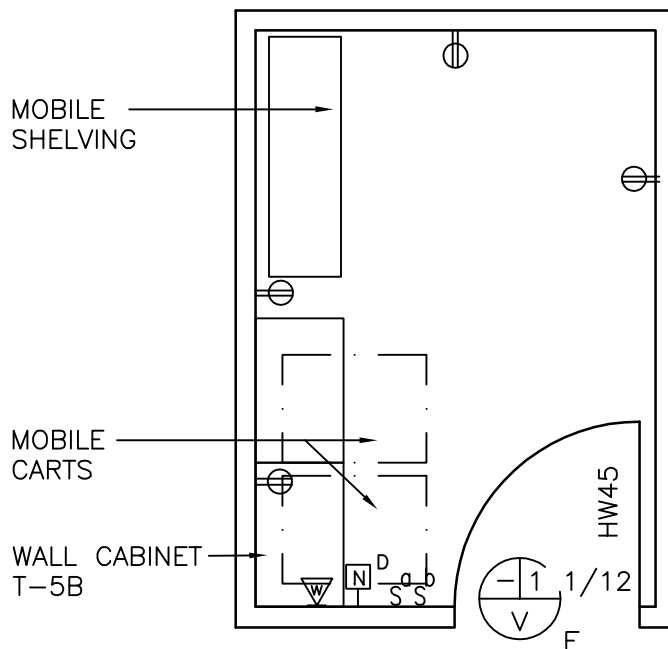
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Blood Draw (LBVP1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030	Top 10A	1	CC	Counter top, high pressure plastic laminate, decorative, over plywood or particle board core, 1-1/4" (25 mm) thick (PG-18-1, MCS 12 36 00)
C03F0	VL4	1	CC	Cabinet, under counter, with 2 drawers, 2 hinged doors and 1 adjustable shelf, 30" x 22" x 31" (750 mm x 550 mm x 775 mm) for floor mounted add, 5" (125 mm) toe base (PG-18-1, MCS 12 31 00, 12 32 00)
	VL5	1	CC	Cabinet, under counter, with 4 drawers, 1 hinged door and 2 adjustable shelves, 30" x 22" x 31" (750 mm x 550 mm x 775 mm) for floor mounted add, 5" (125 mm) toe base (PG-18-1; MCS 12 31 00, 12 32 00)
CE040	VL25	1	CC	Cabinet, wall, with sloping top, 2 glazed sliding doors and 2 adjustable shelves, 30" x 13" x 30" (750 mm x 325 mm x 750 mm) (PG-18-1, MCS 12 31 00, 12 32 00)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station with corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M1410		1	VV	Kiosk, blood draw or chair, laboratory, blood drawing with storage
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm) Note: F3010 is 48" x 48" (1200 mm x 1200 mm) and F3025 is wood frame.
R7250		1	VV	Refrigerator/freezer, 120 volt, domestic, approx. 31" x 28" x 66" (775 mm x 700 mm x 1650 mm)
L1350		1	VV	Centrifuge, non-refrigerated, bench model, 120 volt, approx. 19" H x 16" W x 19" D (480 mm H x 400 mm W x 480 mm D)
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container/glove dispenser

# Clean Utility Room (UCCL1) Floor Plan



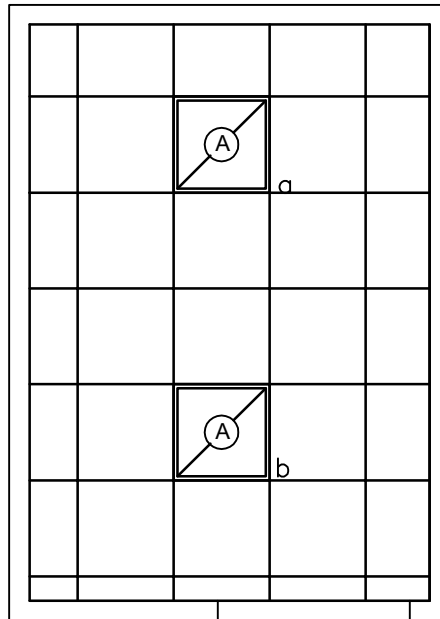
Minimum: 100 NSF/ 9.4 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Clean Utility Room (UCCL1)  
Reflected Ceiling Plan



Minimum: 100 NSF/ 9.4 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Clean Utility Room (UCCL1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB (SC)
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Recessed 2' x 2' (600 mm x 600 mm) fluorescent light fixture with acrylic prismatic lens, T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	Not Required
Occupancy:	Not Applicable
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

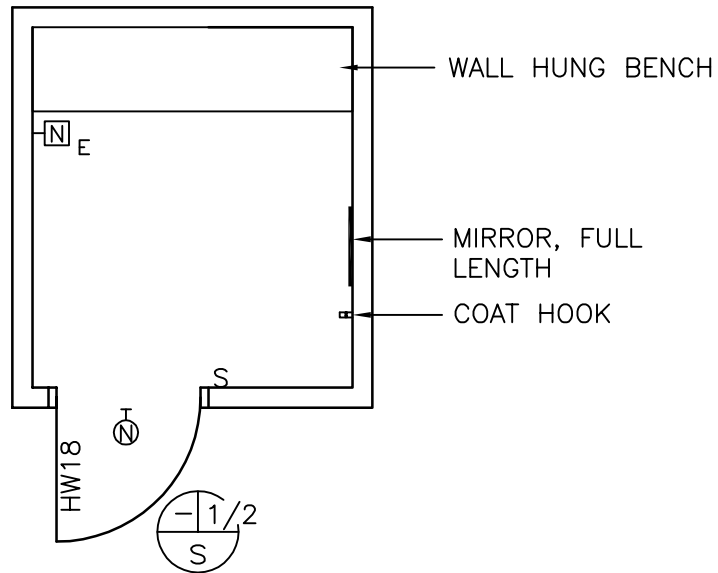


**Clean Utility Room (UCCL1)**

**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
CD040	T-5B	AR	CC	Cabinet, wall, with sloping top, 2 hinged doors and 2 adjustable shelves, 36" x 22" x 42" (900 mm x 550 mm x 1050 mm) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Nurse call duty station (PG-18-1, MCS 27 52 23)
M2050		AR	VV	Shelving, storage, mobile, steel, rod shelf, open style with 5 adjustable shelves
E0945		AR	VV	Cart, mobile with adjustable shelves, 27" x 36" x 38" (675 mm x 900 mm x 950 mm)

Dressing Room (DR001)  
Floor Plan



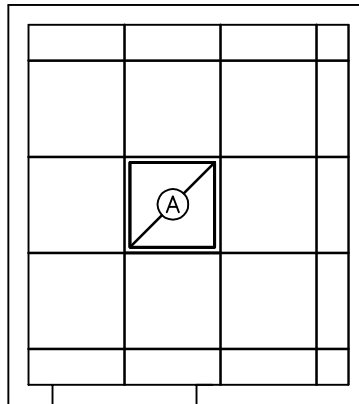
Ortho; Radiology: 50 NSF/ 4.6 NSM (Shown above)  
Endoscopy: 60 NSF/ 5.6 NSM



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.

Dressing Room (DR001)  
Reflected Ceiling Plan

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Ortho; Radiology: 50 NSF/ 4.6 NSM (Shown above)  
Endoscopy: 60 NSF/ 5.6 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

Dressing Room (DR001)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Recessed 2' x 2' (600 mm x 600 mm) fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fluorescent nurse call light.</li> <li>6) Fixture description for alternate 60 NSF room is the same as described in Note 1 above. Locate fixture centrally in the room. Fixture wattage should be the same as required for 50 NSF room.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	Not Applicable
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	1
AC Load-(Equipment):	No
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Ventilate this cubical by drawing conditioned air from the adjoining spaces and returning it back to the system. Conditioned air need not be supplied.</li> <li>2) Year around conditions.</li> </ol>

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

**Dressing Room (DR001)**

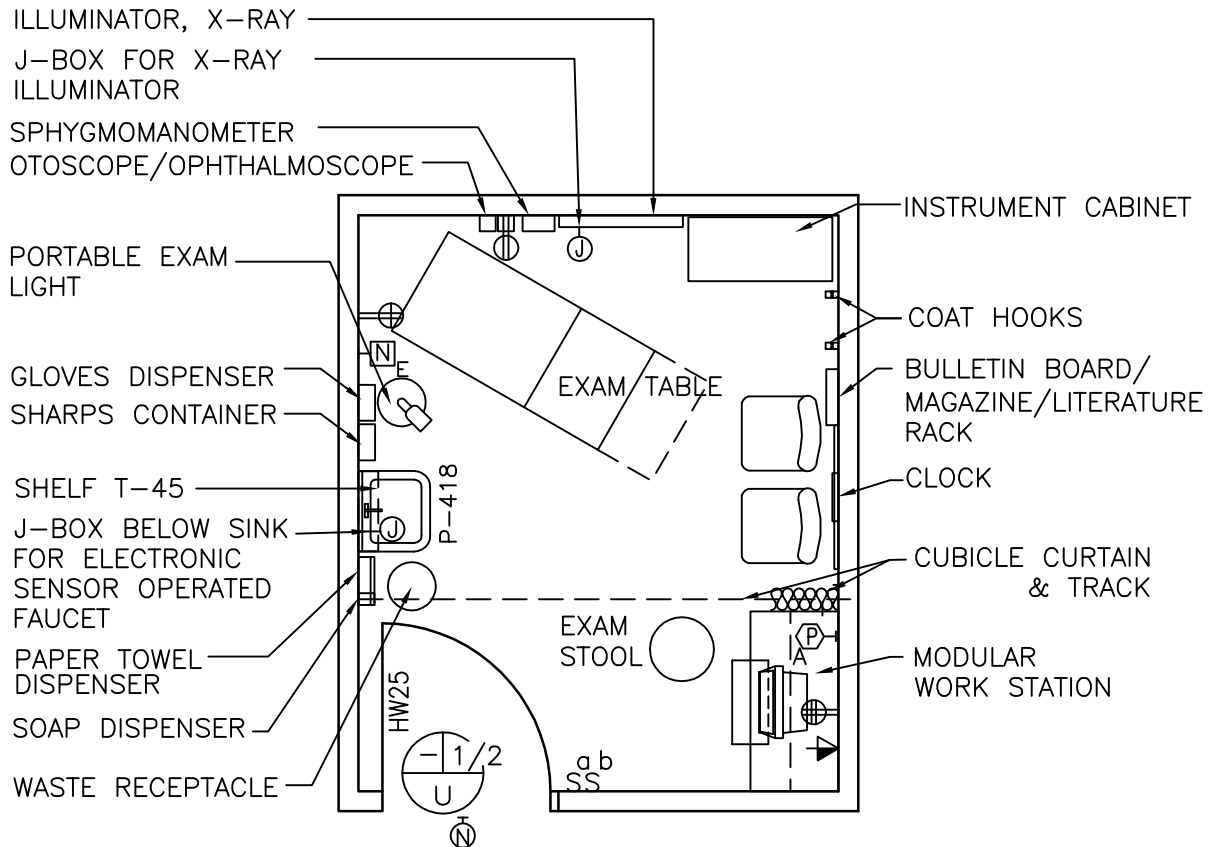
**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
		AR	CC	Wall hung bench (PG-18-1, MCS 06 20 00)
A1066		1	CC	Mirror full length, heat tempered glass, 20" x 48" (500 mm x 1200 mm) (PG-18-1, MCS 10 28 00)
		1	CC	Corded nurse call emergency station, activated by pull cord button on wall, with corridor signal light (PG-18-1, MCS 27 52 23)
A5145		2	VV	Hook, coat, wall hung



Exam Room (Multi-Purpose) (EXRG3)

Floor Plan

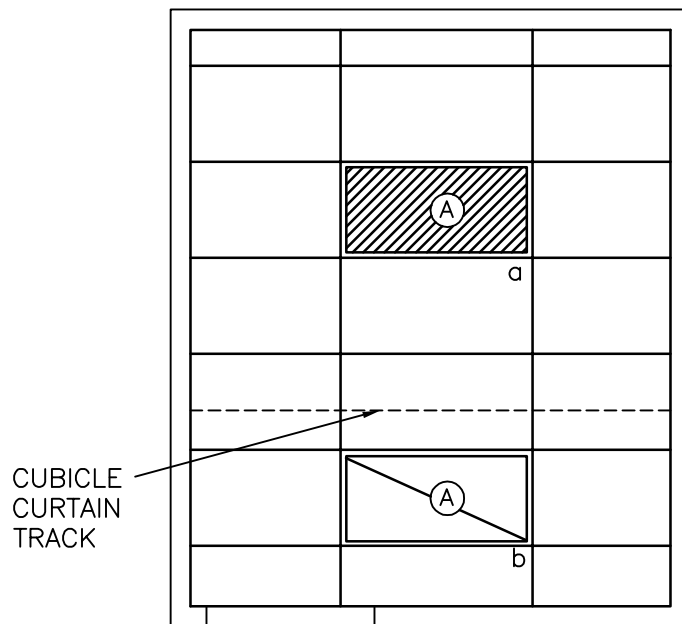


120 NSF/ 11.2 NSM (Shown above)  
 Audiology similar: 150 NSF/ 13.9 NSM



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.

Exam Room (Multi-Purpose) (EXRG3)  
 Reflected Ceiling Plan



120 NSF/ 11.2 NSM (Shown above)  
 Audiology similar: 150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Exam Room (Multi-Purpose) (EXRG3)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB Lay-in Panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) Portable Examining Light</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>6) Fluorescent nurse call light.</li> <li>7) Fixture description for alternate 150 NSF room is the same as described in Note 1 above. Orient both fixtures in the same manner as shown for 120 NSF room. Increase overall room wattage by 20%.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> <li>2) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

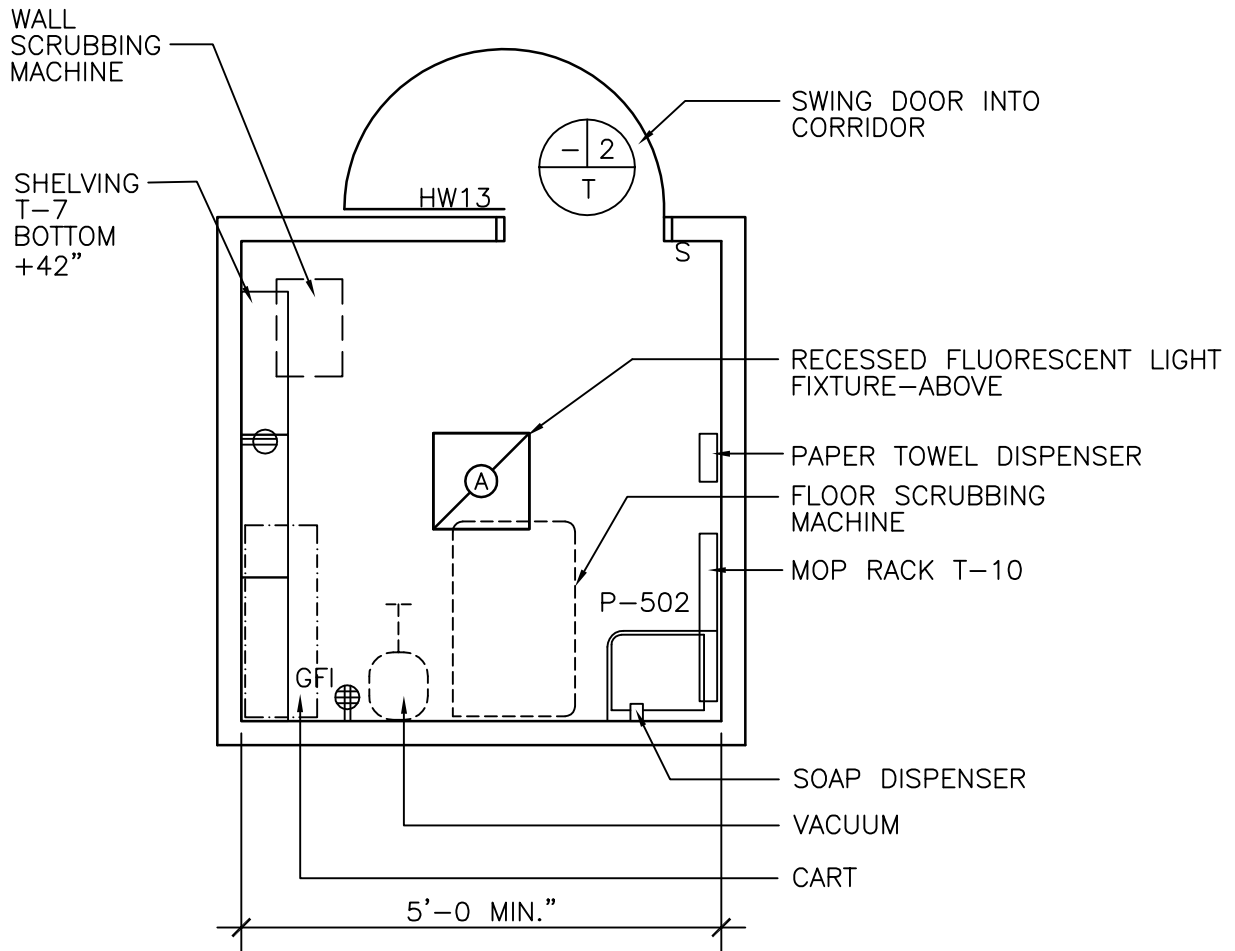


Exam Room (Multi-Purpose) (EXRG3)

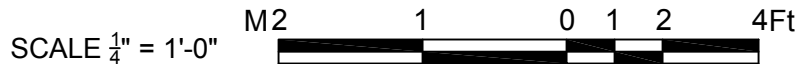
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5145		2	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
F0210		AR	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
X3930		AR	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted

Housekeeping Aids Closet (HAC) (JANC1)  
 Floor Plan & Reflected Ceiling Plan



100 NSF (Large)/ 9.3 NSM (Large) (Shown above)  
 60 NSF (Surgery) 5.6 NSM  
 40 NSF(Standard)/ 3.8 NSM (Standard)



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.

## Housekeeping Aids Closet (HAC) (JANC1)

### Design Standards

#### ARCHITECTURAL

Ceiling:	GWB-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	CT 48" (1200 mm) above base
Base:	WSF, 6" (150 mm) Integral Cove Base
Floor Finish:	WSF
Lead Lining:	--
Notes:	--

#### SPECIAL EQUIPMENT

	--
--	----

#### LIGHTING

General:	--
Special:	--
Emergency:	All
Note:	<ol style="list-style-type: none"> <li>1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 60 NSF and 40 NSF rooms is the same as described in Note 1 above. Locate the fixture in the center of the room. Reduce fixture wattage to half that required for 100 NSF room.</li> </ol>

#### POWER

General:	As Shown
Emergency:	As Shown
Notes:	--

#### COMMUNICATION/SPECIAL SYSTEMS

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

#### HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	Not Applicable
Minimum Air Changes per Hour:	Highest of: 10 air changes per hour, or 1 CFM/SF (23 liters/sec/sq meters), or 50 CFM (24 liters/sec). Air admitted as make-up from adjoining spaces
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	Not Applicable
AC Load-(Equipment):	Not Applicable
AC Load-(Light):	As Required
Notes:	--

#### PLUMBING AND MEDICAL GASES

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



## Housekeeping Aids Closet (HAC) (JANC1)

## Equipment List

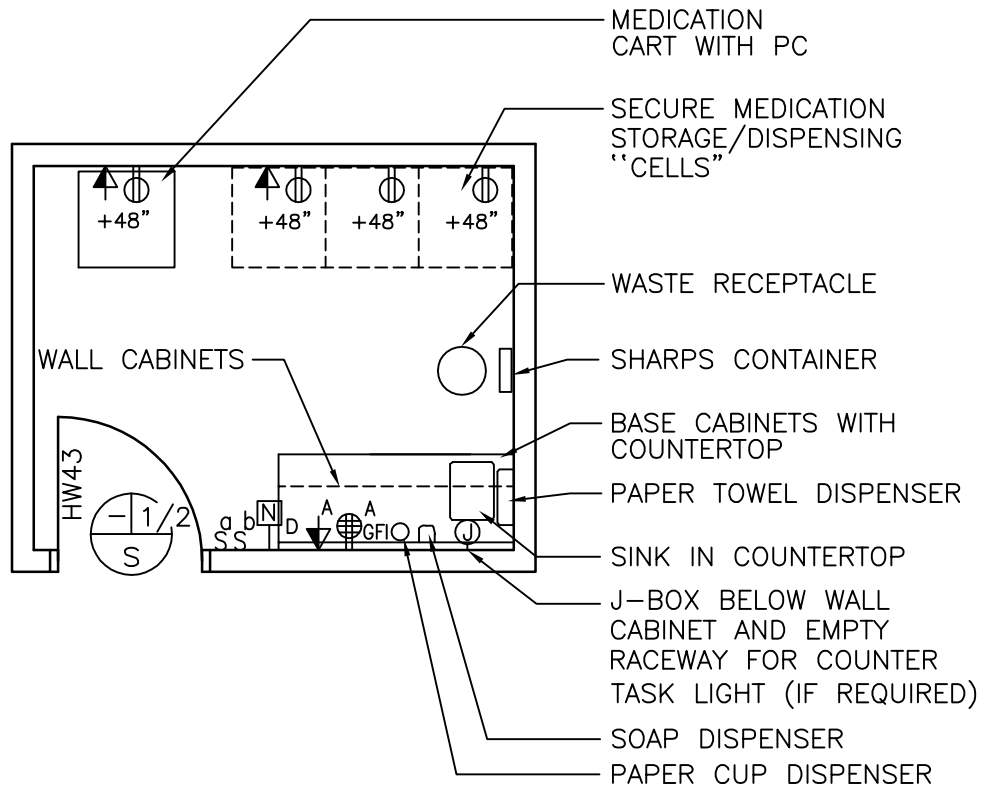
JSN	SYMBOL	QTY	AI	DESCRIPTION
P4700	P-502	1	CC	Sink, service, corner, floor mounted (PG-18-1, MCS 22 40 00)
A5135	T-10	AR	CC	Rack, mop, wall mounted (PG-18-1, MCS 10 28 00)
A5135	T-7	AR	CC	Shelving, wall hung, corrosion resisting steel, 2 fixed shelves, 2 doors with locks, 36" x 12" x 48" (900 mm x 300 mm x 1200 mm), 60" (1520 mm) above finished floor (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26)
M2600		1	VV	Vacuum cleaner, battery powered
		1	VV	Machine, scrubbing, wall, battery powered
M2650		1	VV	Machine, scrubbing, floor, battery powered
F0500		1	VV	Cart, supplies, 24" x 48" (600 mm x 1200 mm)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted



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Medication Room (MEDP1)  
 Floor Plan



80 NSF/ 7.4 NSM (Shown above)

Dermatology: 90 NSF/ 8.4 NSM

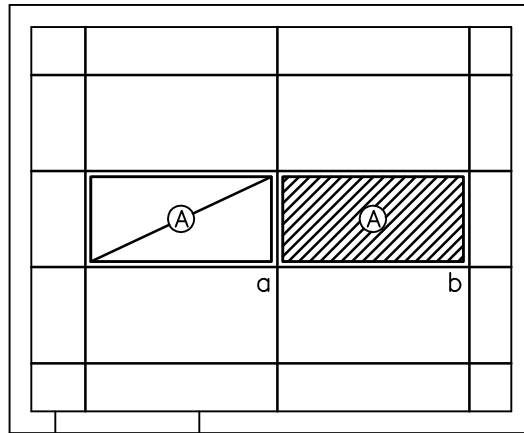
Methadone maintenance: 120 NSF/ 11.2 NSM

SCALE 1/4" = 1'-0"



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.

Medication Room (MEDP1)  
Reflected Ceiling Plan



80 NSF/ 7.4 NSM (Shown above)

Dermatology: 90 NSF/ 8.4 NSM

Methadone maintenance: 120 NSF/ 11.2 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

Medication Room (MEDP1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 90 and 120 NSF rooms is the same as described in Note 1 above. Orient two fixtures in a similar manner to layout for 80 NSF room. Fixture wattage should remain the same as required for 80 NSF room.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	1
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



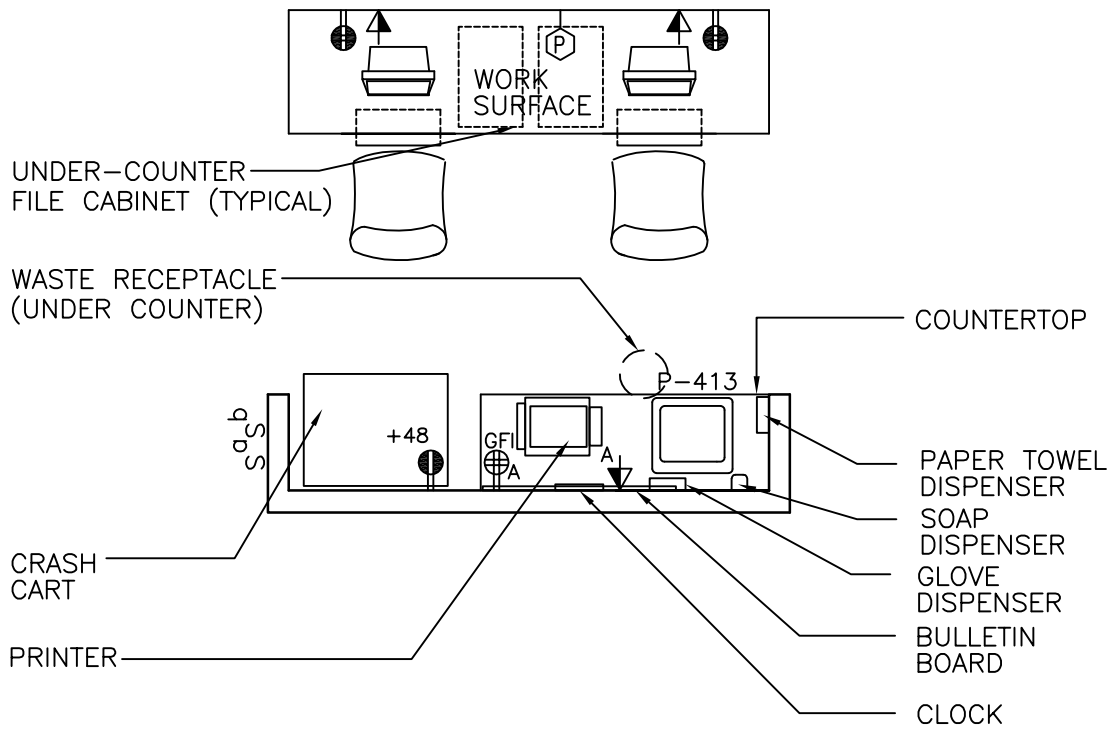
Medication Room (MEDP1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
C04P0		1	CC	Cabinet, sink base, 2-door, 60" x 24" x 36" (1520 mm x 600 mm x 900 mm) (PG-18-1, MCS 12 31 00)
D0370		1	CC	Cabinet, drawer base, 24" x 24" x 36" (600 mm x 600 mm x 900 mm) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex and quadruplex(PG-18-1, MCS 26 27 26)
CE050		AR	CC	Cabinet, wall, 2 adjustable shelves, sloping top 24" W x 24" D x 30" H (600 mm W x 600 mm D x 750 mm H)
CT030		AR	CC	Countertop, SS (PG-18-1, MCS 12 36 00)
CS090	A-2	1	CC	Sink, CRS integral with top, with faucet, drain outlet and top (PG-18-1, MCS 12 36 00)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Nurse call duty station (PG-18-1, MCS 27 52 23)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5085		1	VV	Dispenser, paper cup, wall mounted
M3150		AR	VV	Automated storage/dispensing unit (cell) secure, approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)
A5106		1	VV	Sharps container
M7250		1	VV	Cart, medication, with PC computer system 36" x 30" x 36" (900 mm x 750 mm x 900 mm)



Nurse Station (NSTA1) (For Ambulatory Surgery and Minor Surgery Recovery Areas)  
 Floor Plan



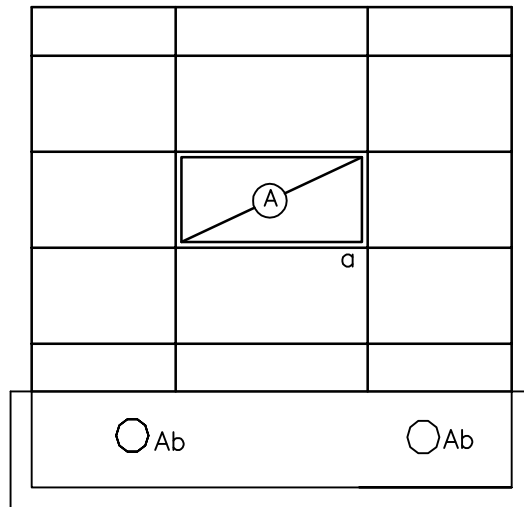
75 NSF/ 7.0 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Nurse Station (NSTA1) (for Ambulatory Surgery and Minor Surgery Recovery Areas)  
Reflected Ceiling Plan



75 NSF/ 7.0 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Nurse Station (NSTA1) (For Ambulatory Surgery and Minor Surgery Recovery Areas)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) Provide 9" toe kick at front of counter.

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Recess light fixture over counter with fluorescent lamp.</li> <li>2) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	Yes
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Nurse call system at Nurse's Station is PC based.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

**Nurse Station (NSTA1) (For Ambulatory Surgery and Minor Surgery Recovery Areas)**

**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
CT030		AR	CC	Counter, plastic laminate top (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
P3100	P-413	1	CC	Lavatory, counter mounted (PG-18-1, MCS 22 40 00)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
F0210		AR	VV	Chair, rotary, without arms
F3010 or F3025		1	VV	Bulletin board, 60" W x 36" H (1520 mm W x 900 mm H)
F0410		AR	VV	Metal file, under counter
M1801		AR	VV	PC, computer system, with keyboard
M1840		1	VV	Printer, computer system
F3200		1	VV	Clock, atomic, battery operated
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
A5080		1	VV	Dispenser, paper towel, wall mounted
E0954		1	VV	Crash cart, 28" x 36" x 36" (700 mm x 900 mm x 900 mm)
T0015		1	VV	Defibrillator 12-Volt
F2017		1	VV	Receptacle, waste, step on type

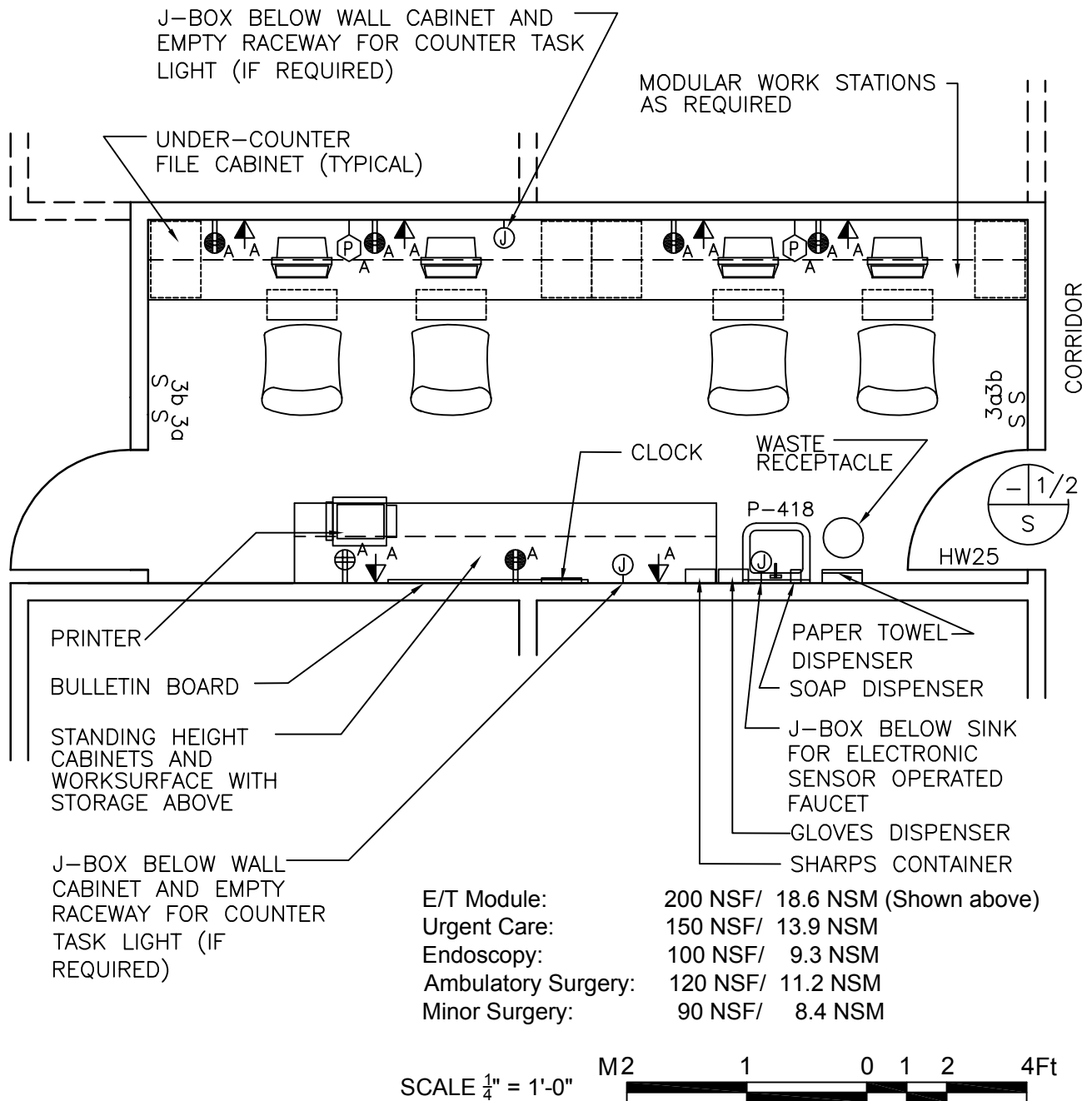


Nurse/Communication Station (NSTA4)

Floor Plan

NOTE: IN ET MODULES & SUBSPECIALTY CLINICS THE NURSE STATION MAY BE CLOSED (AS SHOWN) OR OPEN TO CORRIDOR(S) AS REQUIRED FOR FUNCTIONS SERVED.

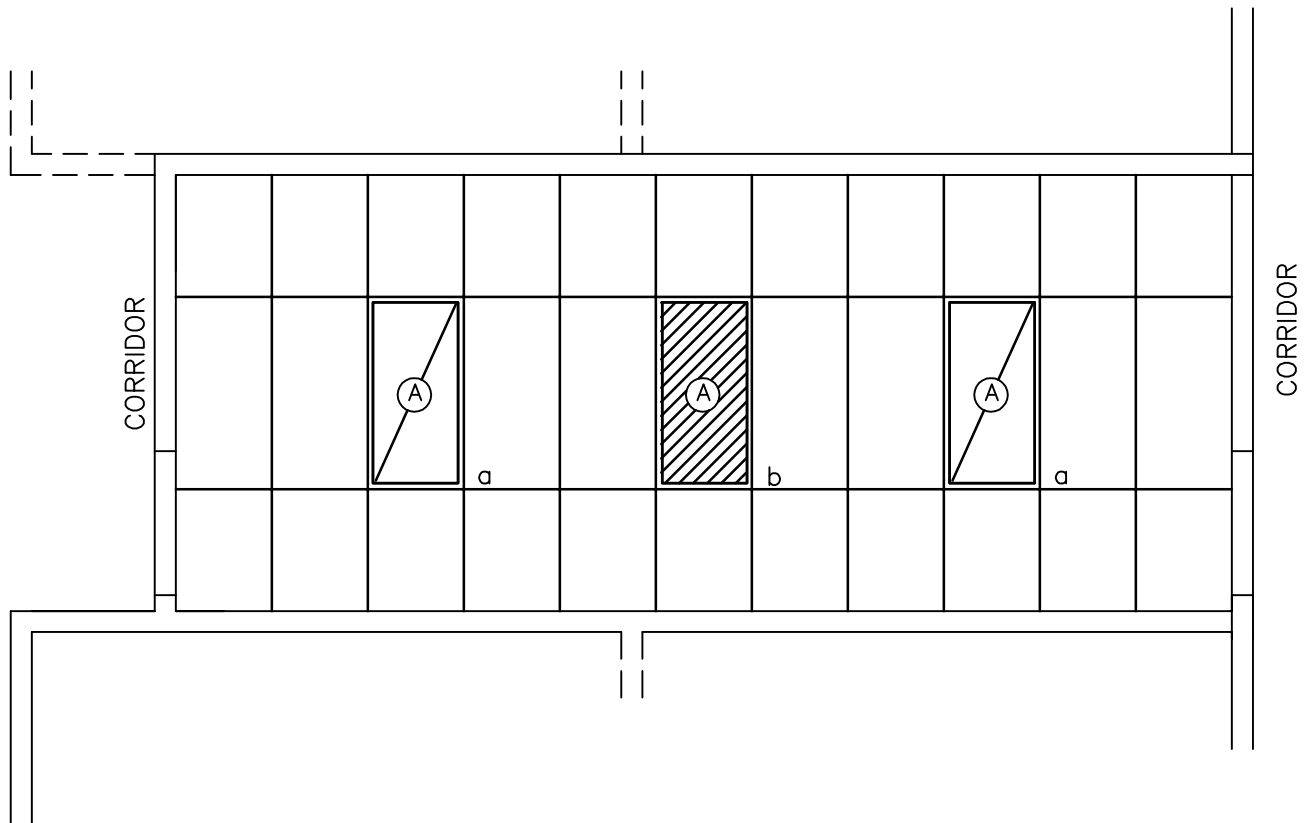
IN SURGERY PROVIDE VISUAL AND PHYSICAL ACCESS AS REQUIRED FOR NURSE STATIONS



E/T Module:	200 NSF/ 18.6 NSM (Shown above)
Urgent Care:	150 NSF/ 13.9 NSM
Endoscopy:	100 NSF/ 9.3 NSM
Ambulatory Surgery:	120 NSF/ 11.2 NSM
Minor Surgery:	90 NSF/ 8.4 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.

Nurse/Communication Station (NSTA4)  
 Reflected Ceiling Plan



E/T Module:	200 NSF/	18.6 NSM (Shown above)
Urgent Care:	150 NSF/	13.9 NSM
Endoscopy:	100 NSF/	9.3 NSM
Ambulatory Surgery:	120 NSF/	11.2 NSM
Minor Surgery:	90 NSF/	8.4 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Nurse/Communication Station (NSTA4)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) Provide 9" toe kick at front of counter.

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 90, 100, 120, and 150 NSF rooms is the same as described in Note 1 above. Orient fixtures in a similar manner to layout for 220 NSF room. Reduce fixture count to two fixtures for 90 and 100 NSF rooms and reduce count to three fixtures for 100 and 150 NSF rooms. Fixture wattage should be the same as required for 220 NSF room.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	Yes
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Nurse/Communication Station (NSTA4)

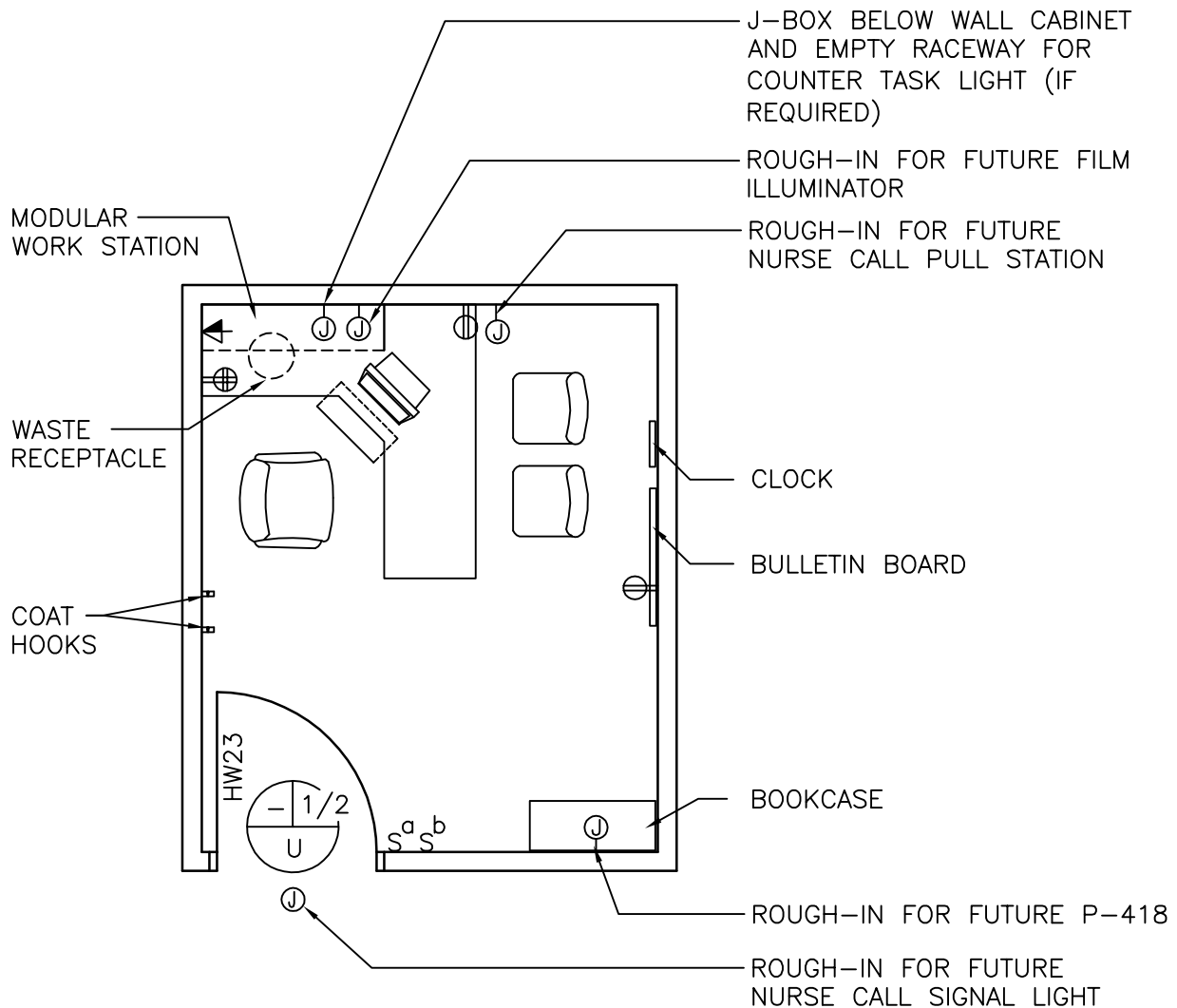
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Counter, plastic laminate top (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1; MCS 22 40 00)
		AR	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
A6105		AR	CC	Base cabinets, counter top, and storage above (work surface) (PG-18-1, MCS 12 32 00 and 12 36 00)
F0210		AR	VV	Chair, rotary, without arms
F3010 or F3025		1	VV	Bulletin board, 60" W x 36" H (1520 mm W x 900 mm H)
F0410		AR	VV	Metal file, under counter
M1801		AR	VV	PC, computer system, with keyboard
M1840		1	VV	Printer, computer system
F3200		1	VV	Clock, atomic, battery operated
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
A5106		1	VV	Sharps container
A5080		1	VV	Dispenser, paper towel, wall mounted
F2017		1	VV	Receptacle, waste, step on type

Office (OFA01)(OFA02)(OFA03)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

Floor Plan

CONSIDER PROVIDING BACKING ROUGH-INS FOR CONVERSION TO EXAM ROOM-SEE GUIDE PLATE 4-174 SIMILAR.



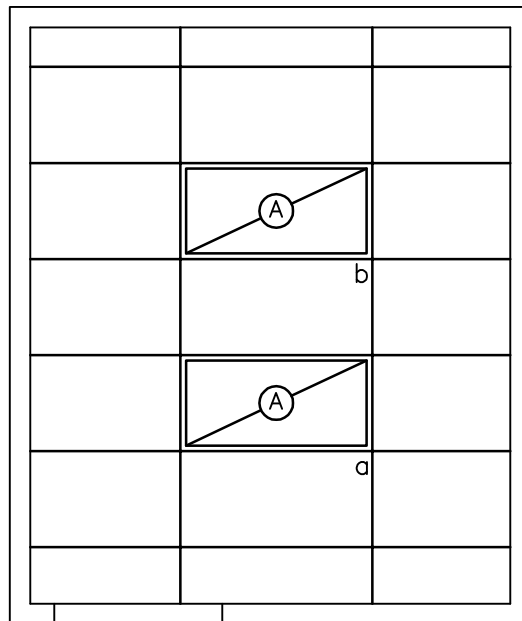
Typical: 120 NSF/ 11.2 NSM (Shown above)  
 Minimum: 80 NSF/ 7.4 NSM  
 Maximum: 150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Office (OFA01)(OFA02)(OFA03)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)  
Reflected Ceiling Plan



Typical: 120 NSF/ 11.2 NSM (Shown above)  
Minimum: 80 NSF/ 7.4 NSM  
Maximum: 150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

Office (OFA01)(OFA02)(OFA03)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CPT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 80 and 150 NSF rooms is the same as described in Note 1 above. Orient the two fixtures for 150 NSF room in the same manner as shown for 120 NSF room. Orient single fixture and grid for 80 NSF room at 90° from orientation shown in 150 NSF room. For 80 and 150 NSF rooms, increase fixture wattage by 50%.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Rough-in Only
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Rough-in Only
Hot Water:	Rough-in Only
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Rough-in Only
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

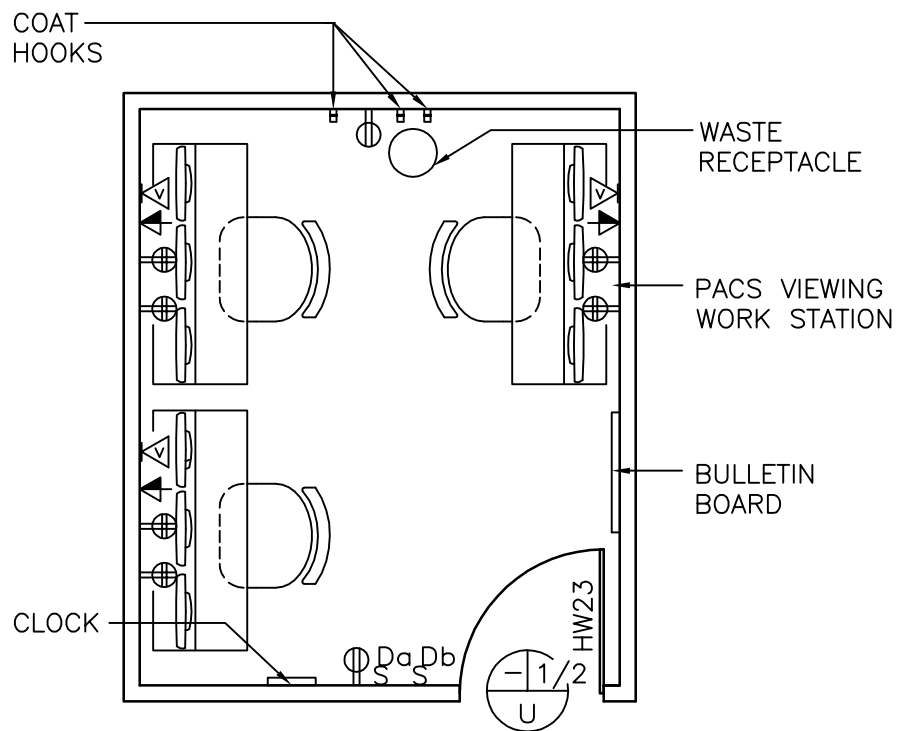
Office (OFAO1)(OFAO2)(OFAO3)(SEC01)(OFC01)(OFC02)(OFD01)(OFD03)(OFDC1)(OFDR1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
	P-418	1	CC	Rough-in for lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Rough-in for nurse call, emergency station, and corridor signal light (PG-18-1, MCS 27 52 23)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		1	VV	Chair, rotary, with arms
F0120		1	VV	Bookcase, sectional, each section, 33" x 13" x 75" (825 mm x 325 mm x 1875 mm) with 10" (250 mm) base
A5145		2	VV	Hook, coat, wall mounted
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
M1801		1	VV	PC, computer system, with keyboard
F0210		2	VV	Chair, straight, without arms
F3010		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F3200		1	VV	Clock, atomic, battery operated
Refer to Examination Room Guide Plate (EXRG3) for location of following:				
		AR	CC	Provide backing for future wall mounted equipment and accessories: Sphygmomanometer Otoscope / Ophthalmoscope Glove dispenser Sharps container Paper towel dispenser
		1	CC	Rough-in j-box for future x-ray film illuminator

PACS Viewing Room (XVCO1)  
 Floor Plan

NOTE: GUIDE PLATE ALSO APPLIES FOR ENDOSCOPY SUITE DICTATION/ VIEWING

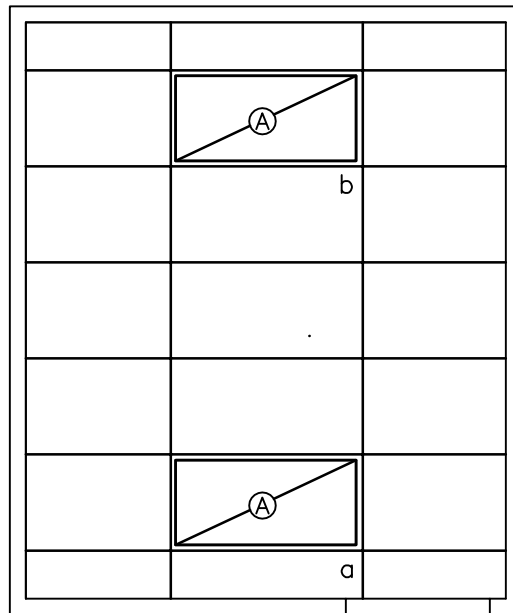


120 NSF/ 11.1 NSM (Shown above)  
 Common Viewing in Radiology 150 NSF/ 13.9 NSM



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.

PACS Viewing Room (XVCO1)  
Reflected Ceiling Plan



120 NSF/ 11.1 NSM (Shown above)  
Common Viewing in Radiology 150 NSF/ 13.9 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.

PACS Viewing Room (XVCO1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CPT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent fixture with acrylic prismatic lens, rapid start dimmable ballast, F32T8, color temperature of 3500°K and CRI not less than 70.</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 150 NSF room is the same as described in Note 1 above. Orient two fixtures in a similar manner to that shown for 120 NSF room. The fixture wattage for 150 and 120 NSF rooms should be the same.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	Yes
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



PACS Viewing Room (XVCO1)

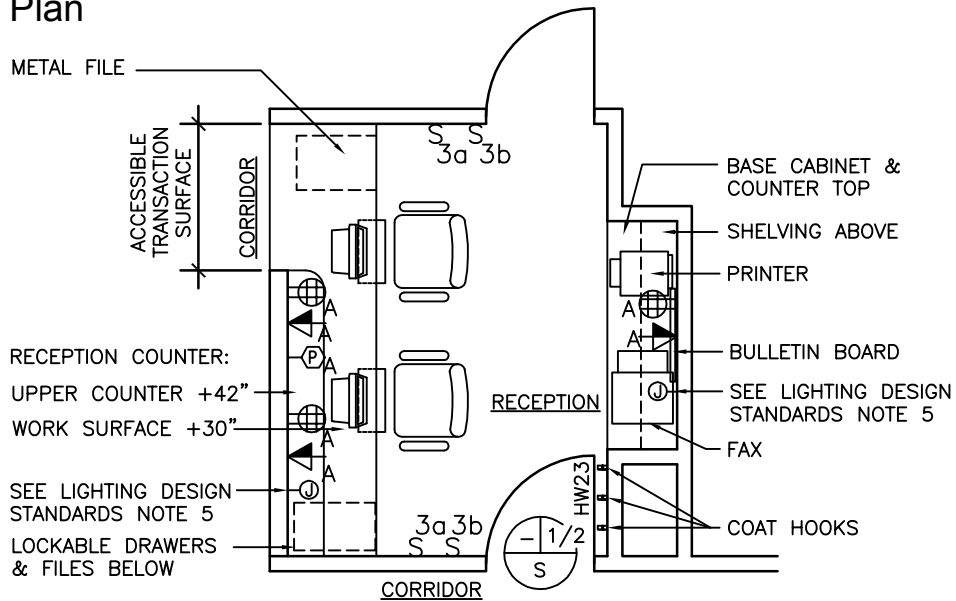
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
F3010 or F3025		1	CC	Bulletin Board, 48" x 36" (1200 mm x 900 mm)
		AR	CC	Outlet, video, wall mounted (PG-18-1, MCS 27 41 31)
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
F3200		1	VV	Clock, atomic, battery operated
X4122		AR	VV	PACS viewing/high resolution workstation, 2 monitors with controls
M1801		AR	VV	PC, computer system, with keyboard
F0210		AR	VV	Chair, rotary, without arms
A5145		3	VV	Hook, coat, wall mounted

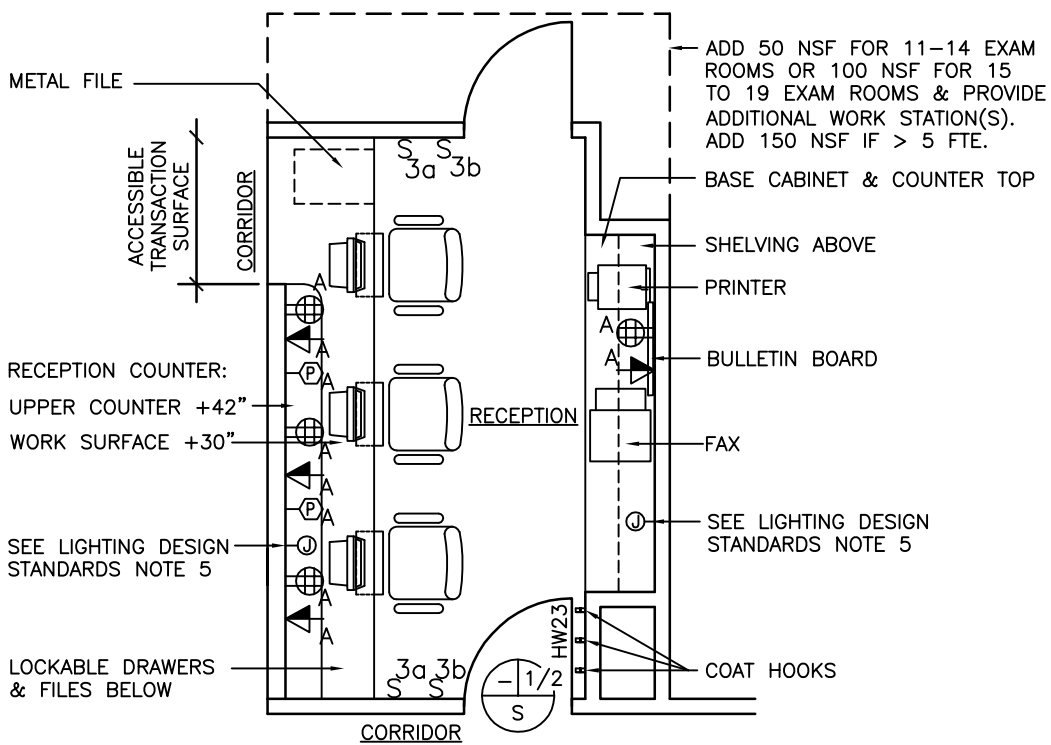


Reception (RECP1)

Floor Plan



Typical Reception: 120 NSF/ 11.2 NSM  
 Prosthetics similar: 60 NSF/ 5.6 NSM



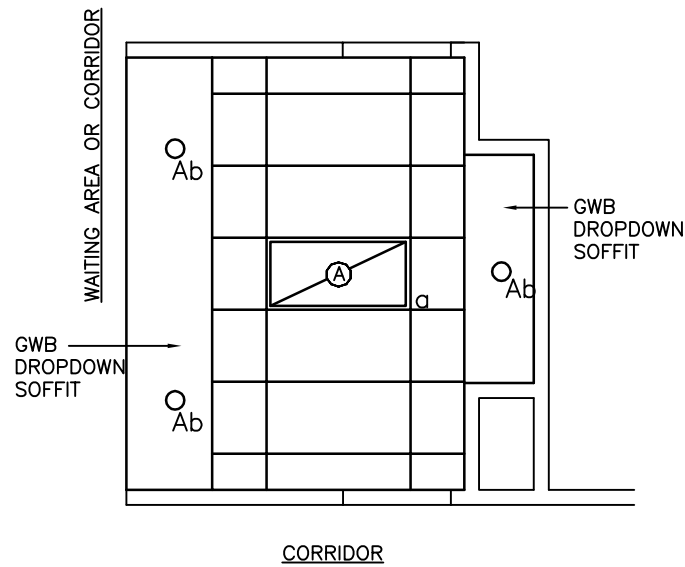
Clinical Reception (for up to 10 Exam Rooms): 150 NSF/13.9 NSM

SCALE  $\frac{3}{16}'' = 1'-0''$

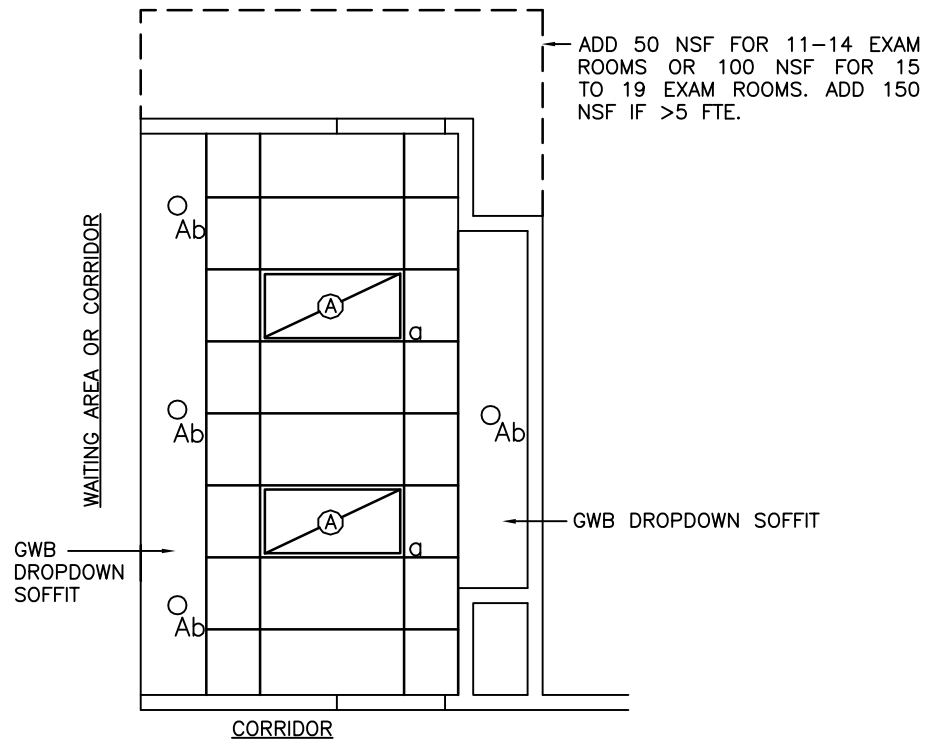


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Reception (RECP1)  
Reflected Ceiling Plan



Typical Reception: 120 NSF/ 11.2 NSM  
Prosthetics similar: 60 NSF/ 5.6 NSM



Clinical Reception (for up to 10 Exam Rooms): 150 NSF/13.9 NSM

SCALE  $\frac{3}{16}'' = 1'-0''$



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Reception (RECP1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	--
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Emergency:	--

- Notes:
- 1) Recessed fluorescent fixture with compact fluorescent lamp.
  - 2) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent fixture with F32T8 lamps, color temperature of 3500°K , CRI=70 (minimum).
  - 3) The foot-candle level is average maintained.
  - 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamps(s) on first switch and outer lamps on second switch.
  - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
  - 5) J-box below wall cabinet and empty raceway for counter task light (if required).

**POWER**

General:	As Shown
Special:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

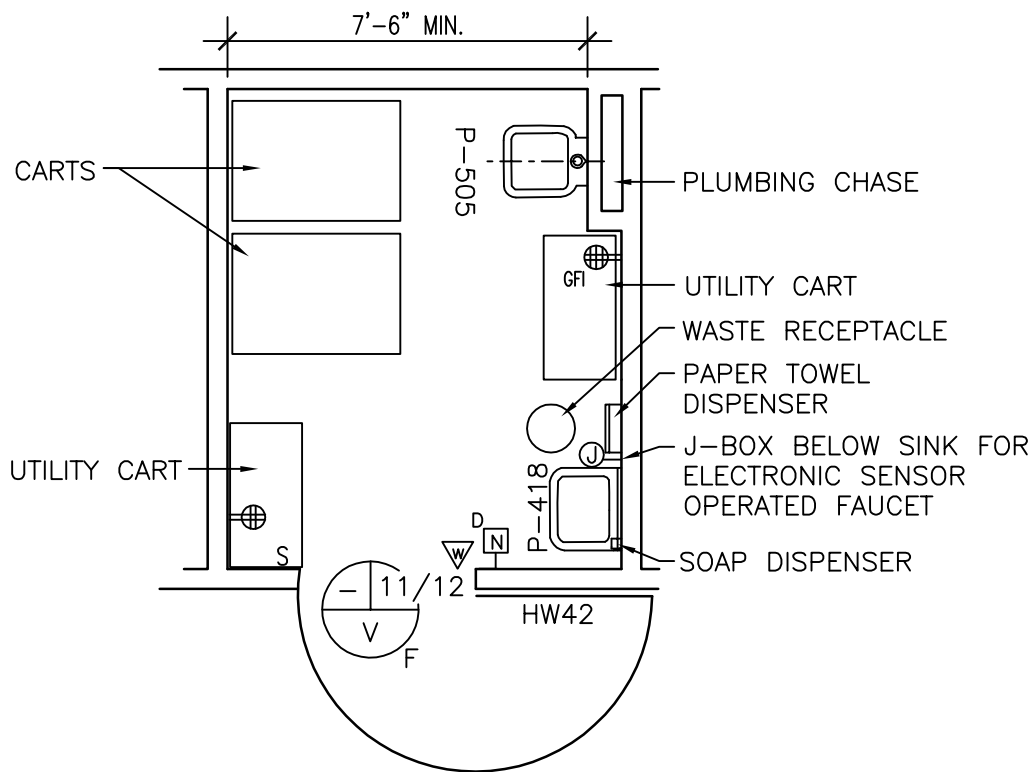
Reception (RECP1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Shelving, wall hung, standard and bracket type, 2 adjustable shelves, 12" D x length as required (300 mm D x length as required (PG-18-1, MCS 12 36 00)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
F3010 or F3025		AR	CC	Bulletin board
CT030		AR	CC	Reception counter, custom casework (PG-18-1, MCS 06 20 00)
A6105		AR	CC	Base cabinets, counter top, and open wall shelving (work surface) (PG-18-1, MCS 12 32 00 and 12 36 00)
		AR	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M1801		AR	VV	CRT, computer system, with keyboard
F0410		AR	VV	Metal file, under counter
M1840		1	VV	Printer, computer system
F0280		AR	VV	Chair, rotary, with arms
M1840		1	VV	Machine, facsimile
A5145		3	VV	Hook, coat, wall mounted



Soiled Utility Room (USCL1)  
 Floor Plan



Typical (min.): 80 NSF/ 7.4 NSM (Shown above)  
 Ambulatory Surgery: 100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}" = 1'-0"$

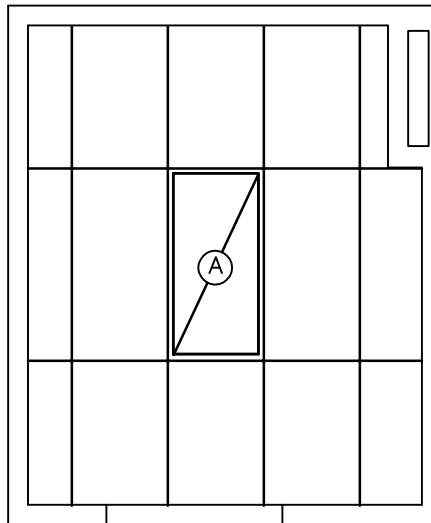


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# Soiled Utility Room (USCL1)

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## Reflected Ceiling Plan



Typical (min.): 80 NSF/ 7.4 NSM (Shown above)  
Ambulatory Surgery: 100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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Soiled Utility Room (USCL1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB (SC)
Wainscot:	--
Base:	RSF
Floor Finish:	RSF
Slab Depression:	--
Sound Protection:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent fixture with acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 100 NSF room is the same as described in Note 1 above. Orient single fixture for 100 NSF in the same manner as shown for 80 NSF room. Fixture wattage should be the same for both room sizes.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	Not Required
Minimum Air Changes per Hour:	10 (All Make-Up Air)
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	None
AC Load-(Equipment):	None
AC Load-(Light):	As Required
Notes:	1) Admit make-up air through the door undercut and transfer grille (if required) from the adjoining areas.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



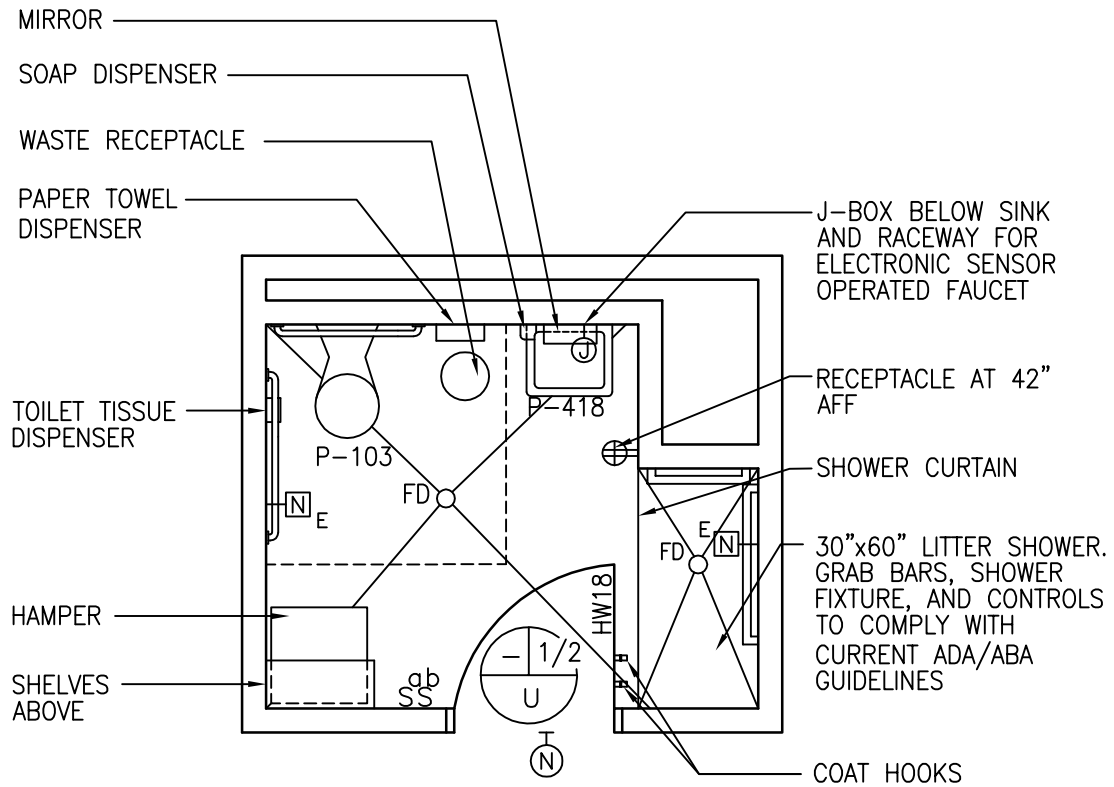
**Soiled Utility Room (USCL1)**

**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
P6500	P-505	1	CC	Sink, service, clinic, flushing rim, wall hung (PG-18-1, MCS 22 40 00)
		AR	CC	Receptacle, electrical, quadruplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call duty station, wall mounted (PG-18-1, MCS 27 52 23)
		1	CC	Outlet, telephone, wall mounted (PG-18-1, MCS 27 15 00)
F0535		2	VV	Cart, utility, corrosion resisting steel, 36" x 18" x 30" (900 mm x 450 mm x 750 mm)
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F0510		AR	VV	Carts, soiled, linen



Toilet/ Shower, Wheelchair (TLTS1) (TLTS2)  
 Floor Plan



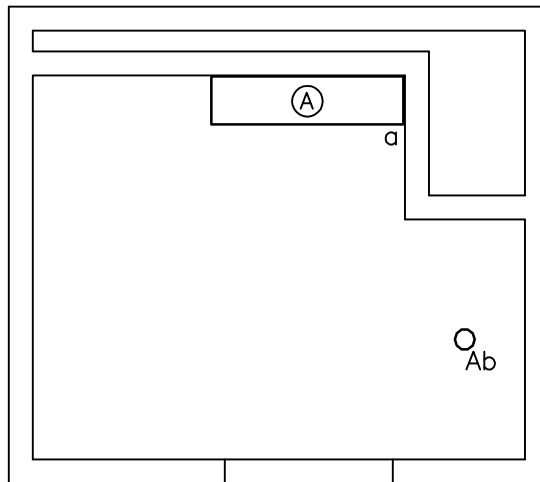
Minimum: 75 NSF/ 7.0 NSM

SCALE 1/4" = 1'-0"



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Toilet/ Shower, Wheelchair (TLTS1) (TLTS2)  
Reflected Ceiling Plan



Minimum: 75 NSF/ 7.0 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Toilet/Shower, Wheelchair (TLTS1) (TLTS2)

Design Standards

**ARCHITECTURAL**

Ceiling: PCP-P/GWB-EPY/PL-EPY  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: CT  
 Wainscot: --  
 Base: CT  
 Floor Finish: CT (Slip Resistant)  
 Slab Depression: 3" (75 mm) depression to allow entire floor area to slope to drain  
 Notes: 1) 3'-6" (1050 mm) wide door

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: --  
 Notes: 1) Recessed fluorescent lensed fixture. UL listed for wet locations.  
 2) Wall mounted fluorescent fixture above mirror. Fixture shall have T8 lamps, 3500°K, CRI=70 (minimum).  
 3) The foot-candle level is average maintained.  
 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.  
 6) Fluorescent nurse call light.

**POWER**

General: As Shown  
 Emergency: As Shown  
 Notes: --

**COMMUNICATION/SPECIAL SYSTEMS**

Data: --  
 Telephone: --  
 Intercom: --  
 Nurse Call: Yes  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: 1. Nurse Call

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:  
 (Interior) Conditioned by make-up air  
 (Perimeter) Heating 68°F (20°C)  
 Provide radiant ceiling panels  
 Minimum Air Changes per Hour: Highest of:  
 10 air changes per hour, or  
 50 CFM (24 liters/sec). or  
 Room air balance  
 100% Exhaust: Yes  
 100% Outside Air: No  
 Room Air Balance: Double Negative (--)  
 Dedicated Exhaust System: No  
 Occupancy: Transient  
 AC Load-(Equipment): None  
 AC Load-(Light): As Required  
 Notes: 1) Individual Room Temperature Control:  
 (Interior) Not Required  
 (Perimeter) Required for Heating Mode

**PLUMBING AND MEDICAL GASES**

Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: --  
 Medical Vacuum: --  
 Oxygen: --  
 Notes: --

Toilet/Shower, Wheelchair (TLTS1) (TLTS2)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P9150	P-103	1	CC	Water closet, wall hung (PG-18-1, MCS 22 40 00)
A5109		AR	CC	Bar, grab for water closet (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD-10 21 13-1)
A5200		1	CC	Dispenser, toilet tissue, double roll (PG-18-1, MCS 10 28 00)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5080		1	CC	Dispenser, paper towel and disposal combination units (PG-18-1, MCS 10 28 00)
A1066		1	CC	Mirror, wheelchair, 24" W X 36" H (600 mm W x 900 mm H) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD-10 28 00-3)
		AR	CC	Nurse call, emergency station with pull cord and corridor signal light. Omit for staff toilet/shower.
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
A5145		2	VV	Hook, coat
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter

**SHOWER**

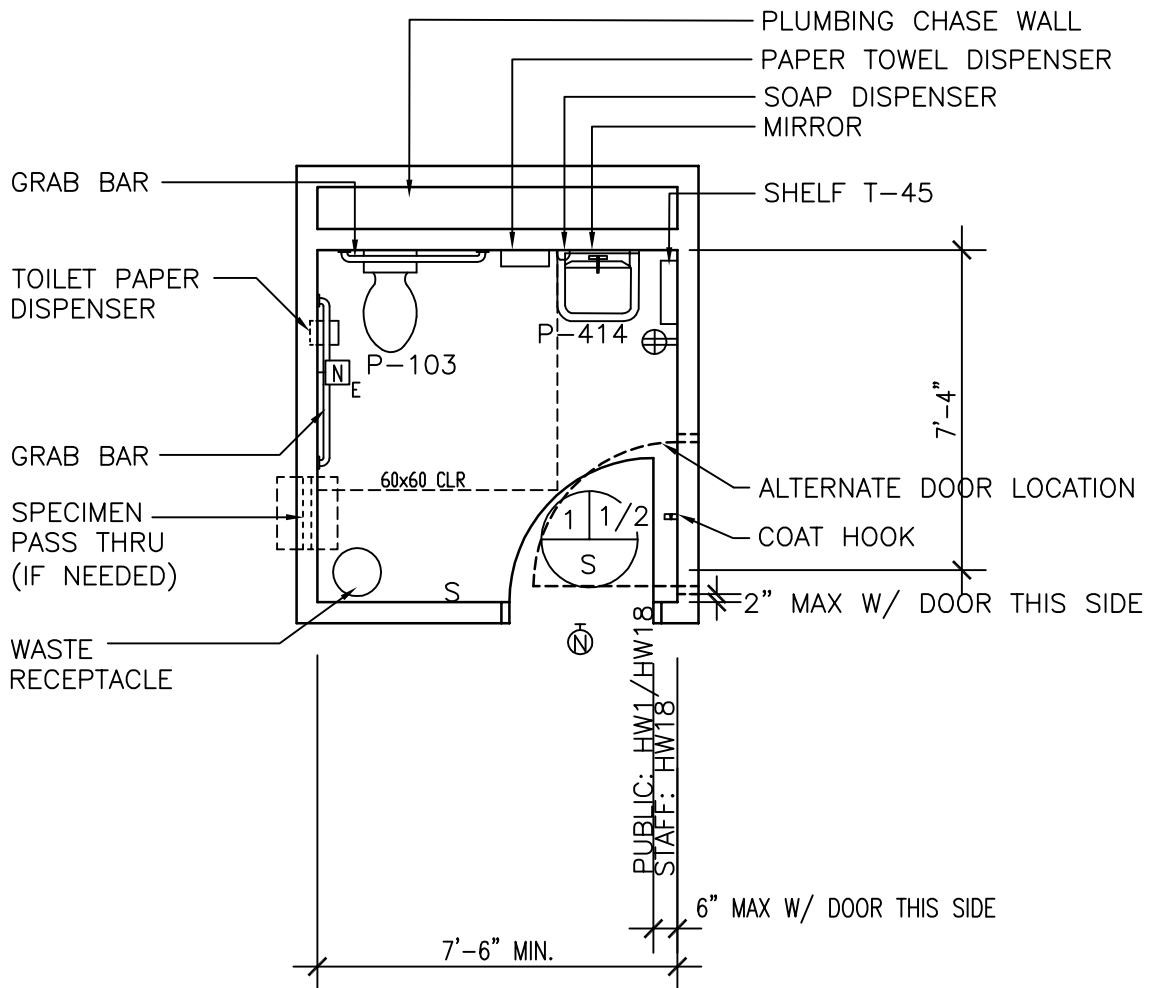
JSN	SYMBOL	QTY	AI	DESCRIPTION
P5040	P-703	1	CC	Shower fixture (PG-18-1, MCS 22 40 00)
A5110		AR	CC	Grab bar, shower (PG-18-1, MCS 10 28 00)
A5175		1	CC	Soap dish, recessed (PG-18-1, MCS 10 28 00)
A5185		1	CC	Track, shower curtain, with hooks, ceiling mounted (PG-18-1, MCS 10 28 00)
A5162		2	CC	Shelves, wall mounted, adjustable 10" D x 30" (250 mm D x 750 mm); minimum 40" (1000 mm), maximum 56" (1425 mm) AFF (PG-18-1, MCS 12 32 00 or 12 36 00)
A5170		1	VV	Curtain, shower
M3070		1	VV	Hamper, soiled linen and towels



Toilet, Wheelchair Accessible (TLTU1)

Floor Plan

NOTE: DO NOT OVERLAP DOOR SWING WITH ADA/ ABA CLEARANCE AT WATER CLOSET.



55 NSF/ 3.7 NSM

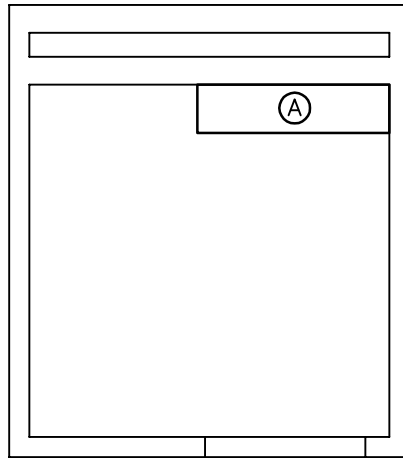
SCALE 1/4" = 1'-0"



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Toilet, Wheelchair Accessible (TLTU1)  
Reflected Ceiling Plan

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55 NSF/ 3.7 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Toilet, Wheelchair Accessible (TLTU1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	48" (1200 mm) min., CT
Base:	CT
Floor Finish:	CT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Wall mounted fluorescent fixture above mirror. Fixture shall have T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fluorescent nurse call light.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	(Interior) Conditioned by make-up air (Perimeter) Heating 68°F (20°C) Provide radiant ceiling panels
Minimum Air Changes per Hour:	Highest of: 10 air changes per hour, or 50 CFM (24 liters/sec). Room air balance
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	Transient
AC Load-(Equipment):	None
AC Load-(Light):	As Required
Notes:	1) Individual Room Temperature Control: (Interior) Not Required (Perimeter) Required for Heating Mode

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Toilet, Wheelchair Accessible (TLTU1)

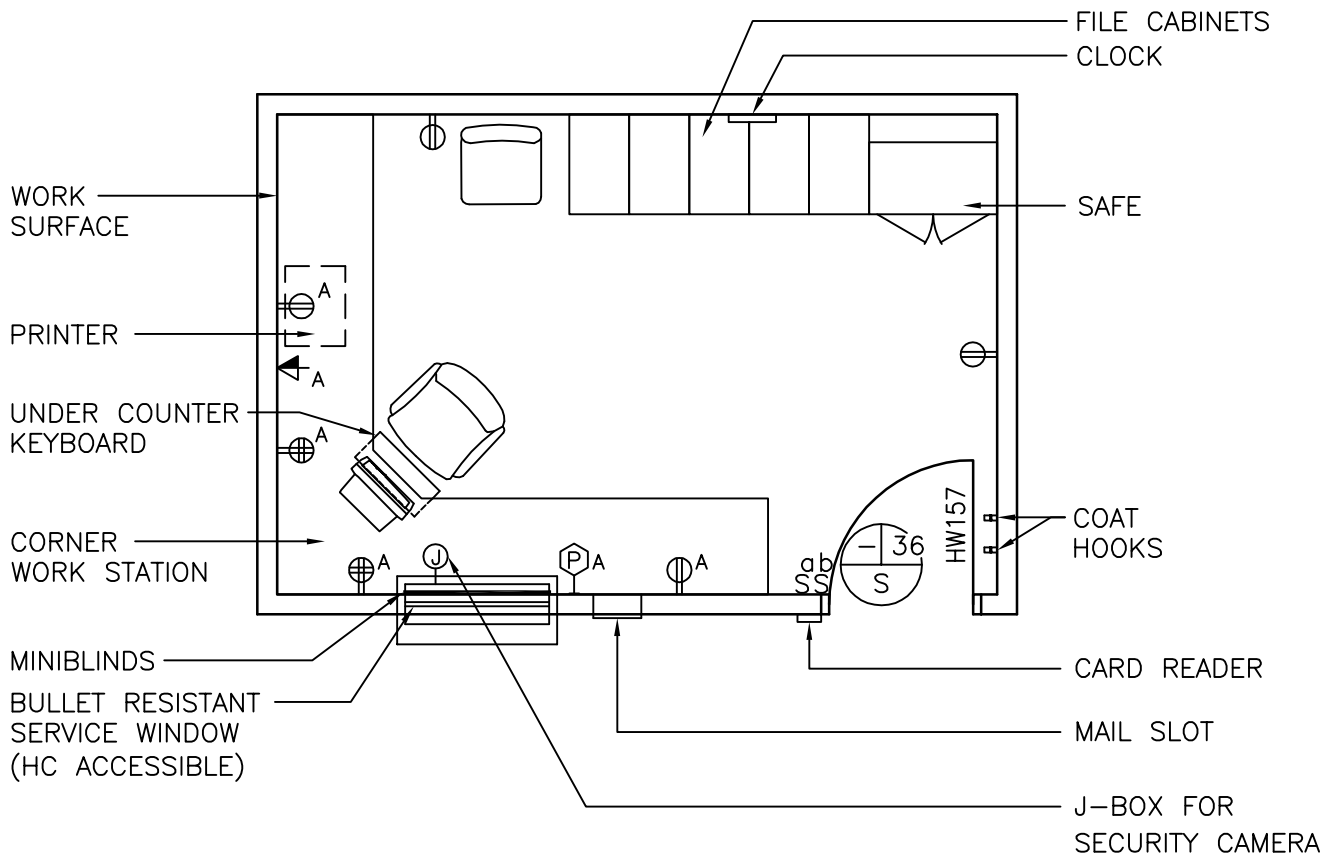
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P9150	P-103	1	CC	Water closet, wall hung (PG-18-1, MCS 22 40 00)
A5200		1	CC	Dispenser, toilet tissue, double roll (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 21 13-1)
A5109		AR	CC	Bar, grab for water closet (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 21 13-1)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) over wheelchair lavatory (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-3)
A5162	T-45	1	CC	Shelf, stainless steel, wall hung, 6" x 18" (150 mm x 450 mm) (PG-18-1, MCS 10 28 00)
		1	CC	Light, over mirror (PG-18-1, MCS 26 51 00)
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with corridor signal light, provide pull cord by water closet (PG-18-1, MCS 27 52 23). Omit in staff toilet.
A5145		1	VV	Hook, coat, wall mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
				Note: Provide following only when clinic has a laboratory.
		1	CC	Specimen pass-thru, to general lab (PG-18-1, MCS 10 28 00)



Ambulatory Care: Agent Cashier (CASH1)

Floor Plan



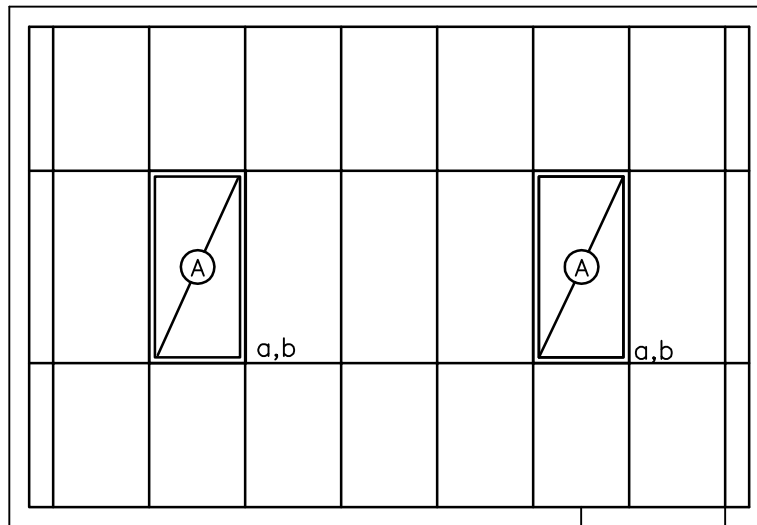
150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: Agent Cashier (CASH1)  
Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: Agent Cashier (CASH1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CP
Slab Depression:	--
Notes:	1) Refer to PG-18-3, construction procedures, Topic 14 for physical security requirements including wall, door and window construction.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louver, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Alarm Button:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	Yes
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

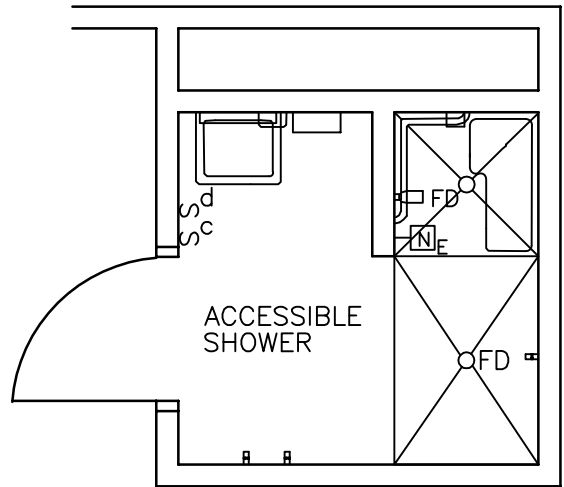
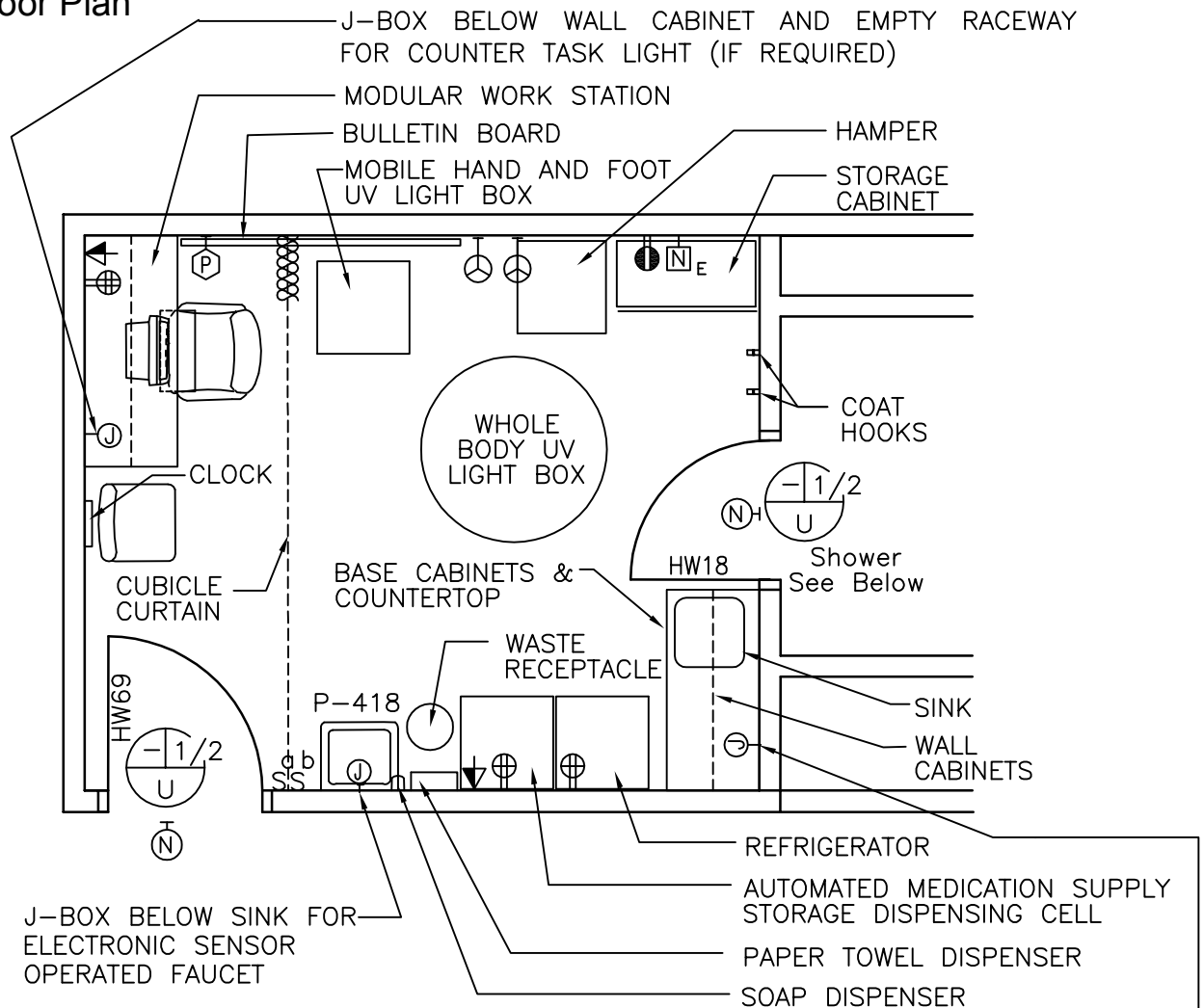
Ambulatory Care: Agent Cashier (CASH1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Service window, bullet resistant (PG-18-1, MCS 08 56 59; PG-18-4, NCS SD 08 56 59-1)
		1	CC	Alarm, motion detector, intrusion (PG-18-1, MCS 28 16 11)
		1	CC	Outlet, computer (PG-18-1, MCS 27 15 00)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Card key access (PG-18-1, MCS 28 13 16)
		1	CC	Mail slot (PG-18-1, MCS 08 56 59)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
F0230		1	VV	Chair, rotary, without arms
F0275		1	VV	Chair, rotary, with arms
F0405		AR	VV	Cabinet, filing, 5 drawer, approx. 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)
F3100		1	VV	Safe, office, combination lock, 1 or 2 doors, size as required
A5145		2	VV	Hook, coat, wall mounted
E0099		1	VV	Corner workstation 60" x 72" x 30" (1520 mm x 1800 mm x 750 mm)
E0042		AR	VV	Work surface, modular 30" D (750 mm D)
M1801 & M1825		1	VV	Computer and printer
F3200		1	VV	Clock, atomic, battery operated
A6311		1	VV	Horizontal miniblinds

Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)

Floor Plan



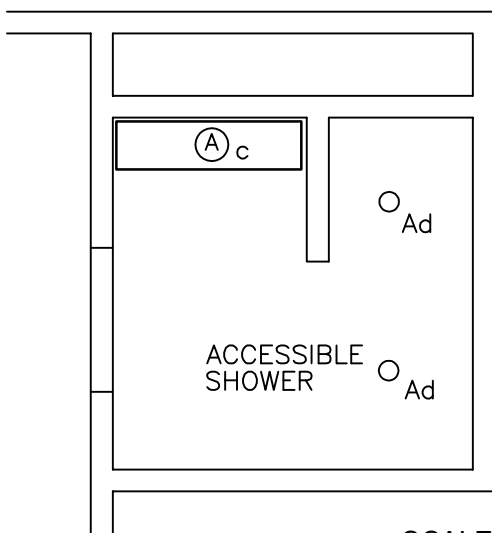
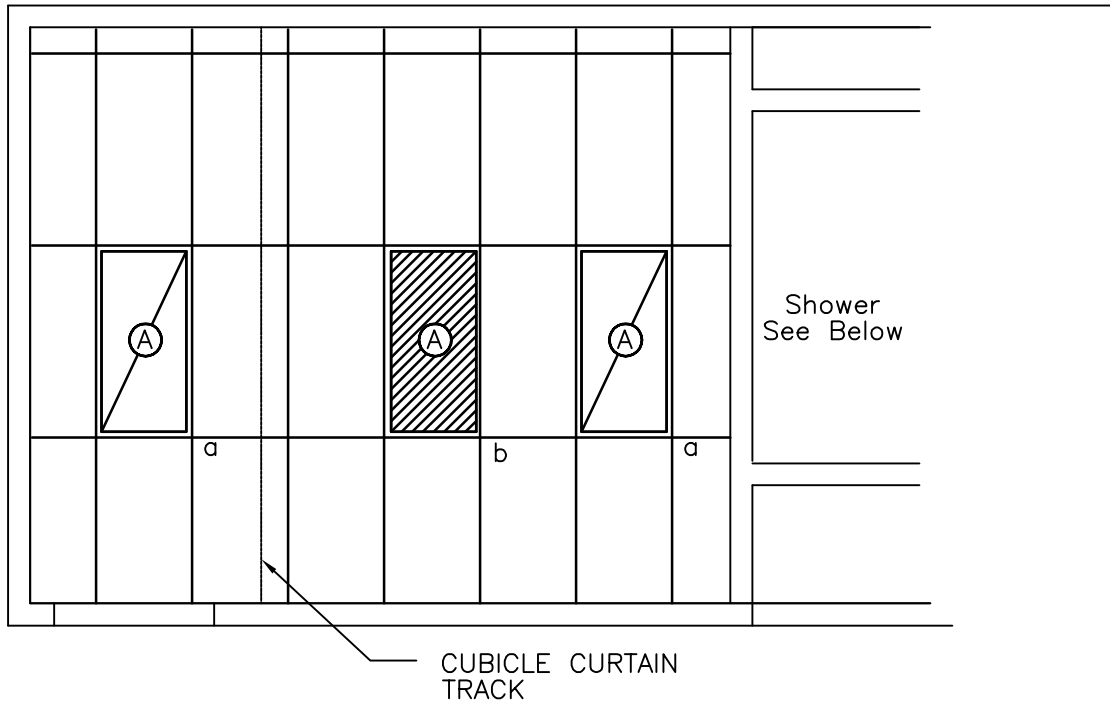
Proc. RM: 175 NSF/ 16.3 NSM  
 Shower: 55 NSF / 4.7 NSM

SCALE 1/4" = 1'-0"



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Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)  
 Reflected Ceiling Plan



Proc. RM: 175 NSF/ 16.3 NSM  
 Shower: 55 NSF / 4.7 NSM

SCALE 1/4" = 1'-0"



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Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)

Design Standards

**ARCHITECTURAL**

**TREATMENT ROOM**

Ceiling: AT  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: GWB-P  
 Base: RSF-6" (150 mm) Integral Cove  
 Floor Finish: RSF

**SHOWER ROOM**

Ceiling: PCP-P/GWB-P/PL-P  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: CT, full height  
 Base: CT  
 Floor Finish: CT; (non-slip)  
 Slab Depression: 3" (75 mm)

Notes: 1) Extend shower pan waterproofing through drying area and provide floor drain.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: --

- Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens w/ F32T8 lamps, 3500°K, CRI=70 (minimum).  
 2) Recessed wet listed light fixture with 32 watt lamp.  
 3) The foot-candle level is average maintained.  
 4) Wall mounted fixture with fluorescent lamp.  
 5) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 6) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.  
 7) Fluorescent nurse call light.

**POWER**

General: As Shown  
 Emergency: As Shown

Notes: 1) Junction box for connection to UV light box at 208V. Voltage, phase, and required connection per equipment manufacturer.

**POWER (Cont'd)**

- 2) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: Yes  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: Yes  
 VTEL: --  
 VA Satellite TV: --

Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 6  
 100% Exhaust: From Toilet Only  
 100% Outside Air: No  
 Room Air Balance: Treatment Room Neutral (0) Toilet Negative (-)  
 Dedicated Exhaust System: No  
 Occupancy: 3  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

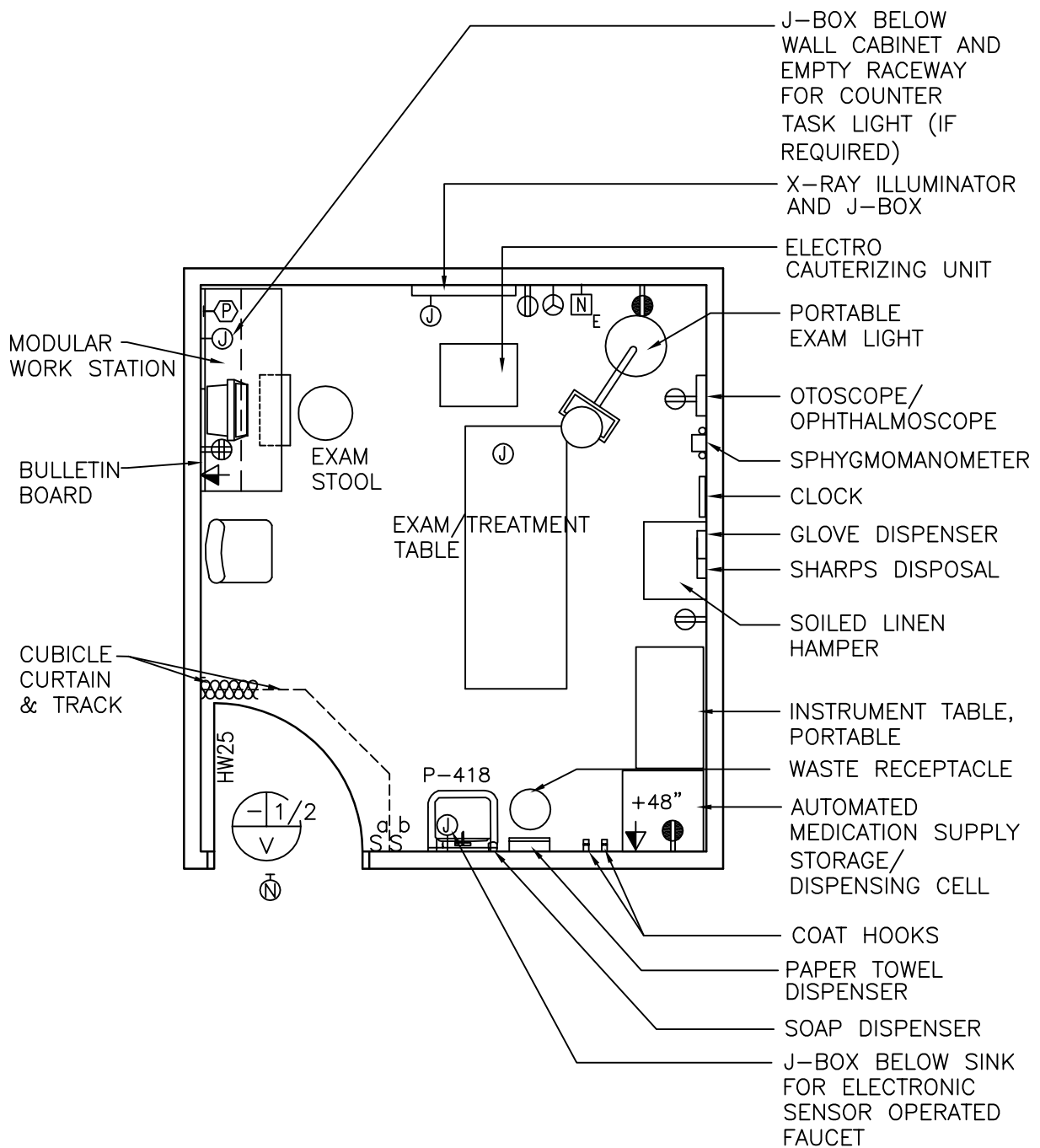
Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: --  
 Medical Vacuum: --  
 Oxygen: --  
 Notes: --



Ambulatory Care: Dermatology Phototherapy Treatment Room (OPDU1)  
 Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		2	CC	Power, for light boxes (PG-18-1, MCS 26 27 26). Verify equipment voltage
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A6105 or E0210		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 and 12 36 00)
D0795		1	CC	Sink, single bowl, CRS, self rimming (PG-18-1, MCS 12 36 00)
		1	CC	Nurse call emergency station on with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
F0465		1	VV	Cabinet, storage, steel, freestanding with 2 doors, 5 adjustable shelves and lock 36" W x 18" D x 84" H (900 mm W x 450 mm D X 2100 mm H)
F0205		1	VV	Chair, rotary, with arms
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
A5145		2	VV	Hook, coat, wall mounted
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M8192		1	VV	Hand and foot UV light box, on mobile stand, approx. 24" W x 24" D x 30" H (600 mm W x 600 mm D x 750 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 15" (380 mm) diameter
M1801		2	VV	PC, computer system, with keyboard
M7410, M8190		1	VV	Whole body UV light box, approx. 4" (100 mm) diameter in closed position
A5180		AR	VV	Curtain, cubicle
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
M3070		1	VV	Hamper, soiled linen and towels
R7000		1	VV	Refrigerator, domestic type, 15 cu ft (0.42 m <sup>3</sup> ), approx. 31" x 28" x 66" (775 mm x 700 mm x 1650 mm)
M3150		AR	VV	Automated supply storage/dispensing unit (cell), approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H) each cell

# Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1) Floor Plan



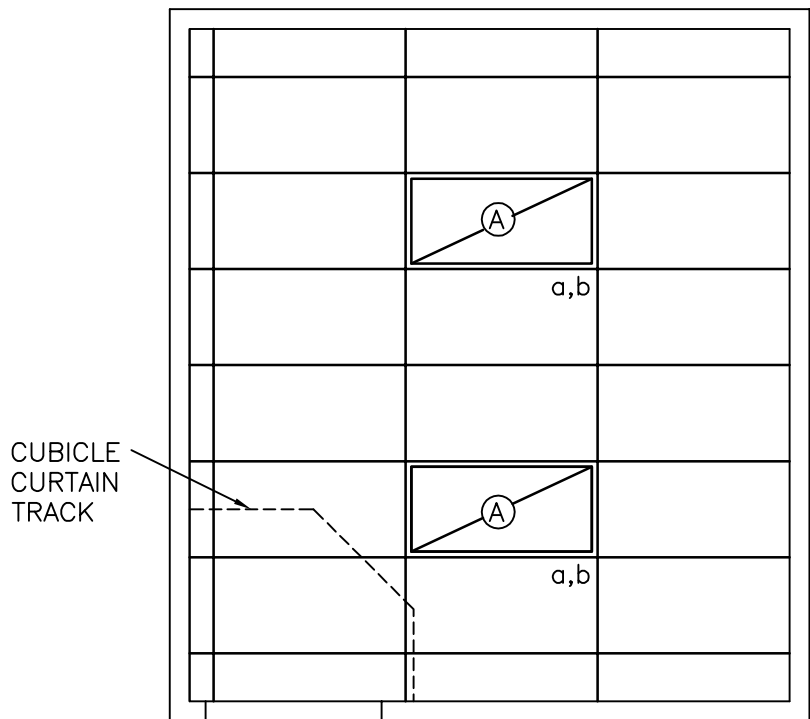
175 NSF/ 16.3 NSM

SCALE 1/4" = 1'-0"



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Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1)  
Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	Yes

- Notes:
- 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens w/ F32T8 lamps. Fluorescent lamp Kelvin temperature shall be 3500°K, CRI=70 (minimum).
  - 2) The foot-candle level is average maintained.
  - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
  - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
  - 5) Fluorescent nurse call light.

**POWER**

General:	As Shown
Emergency:	As Shown

- Notes:
- 1) Junction box x-ray illuminator. Connect per equipment manufacturer.
  - 2) Floor mounted junction box for powered exam and treatment table. Connect per equipment manufacturer.
  - 3) Coordinate location and height of work station receptacles with modular furniture.
  - 4) Exam table may be wall outlet connected.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

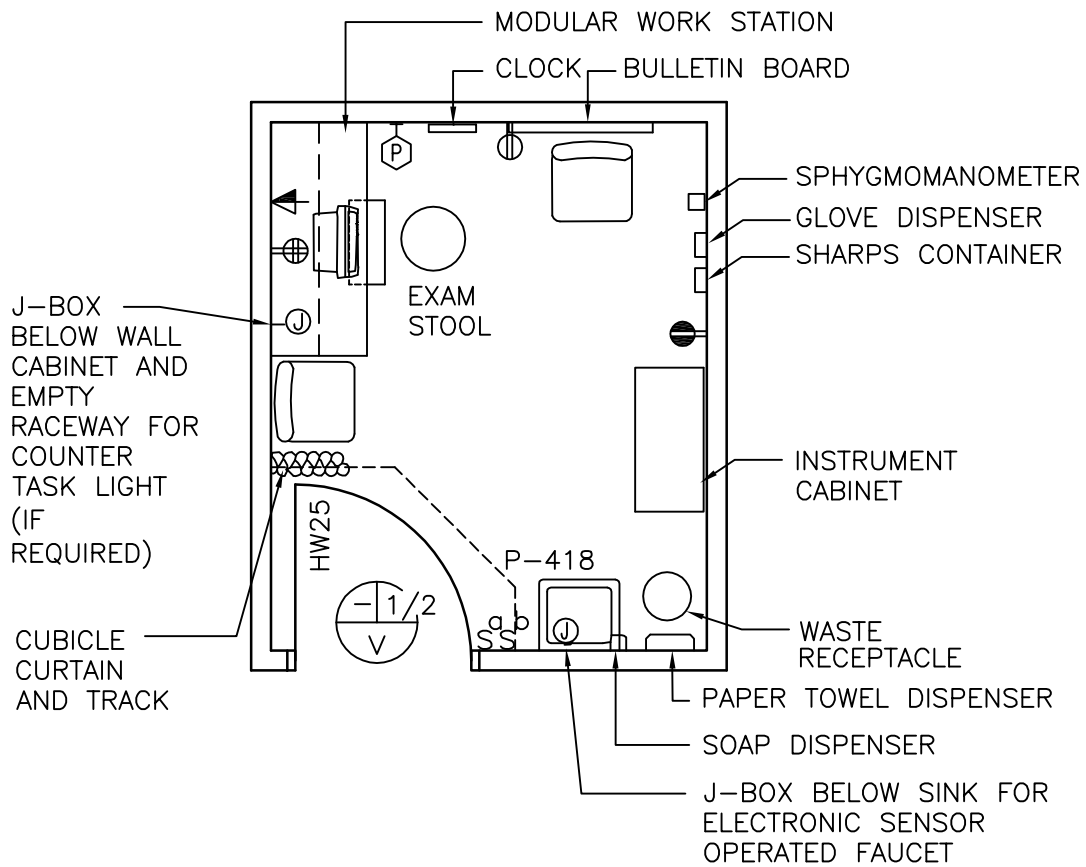
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Ambulatory Care: Dermatology Procedure/Treatment Room (TRGS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Junction box, floor, 120V power for examining table (PG-18-1, MCS 26 27 26)
A1010		2	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M7420		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
E0210		AR	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M3185		1	VV	Electro-surgical unit, mobile, approx. 21" W x 24" D (525 mm W x 600 mm D)
A5145		2	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M1801		1	VV	PC, computer system, with keyboard
F0210		1	VV	Chair, straight, without arms
M9066		1	VV	Table, examining and treatment, motorized
M8830		1	VV	Table, instrument, dressing, corrosion resisting steel, 20" W x 36" L x 35" H (500 mm W x 900 mm L x 875 mm H)
A5180		1	VV	Curtain, cubicle
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F0340		1	VV	Stool, examining, adjustable
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm) Note: F3010 is 48" x 48" (1200 mm x 1200 mm) and F3025 is wood frame.
A5106		1	VV	Sharps container
A5106		1	VV	Glove dispenser
M3070		1	VV	Hamper, soiled linen
M3150		AR	VV	Automated storage/dispensing unit (cell), secure; approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)

Ambulatory Care: ETM: Nurse Triage (EXRG4)  
 Floor Plan



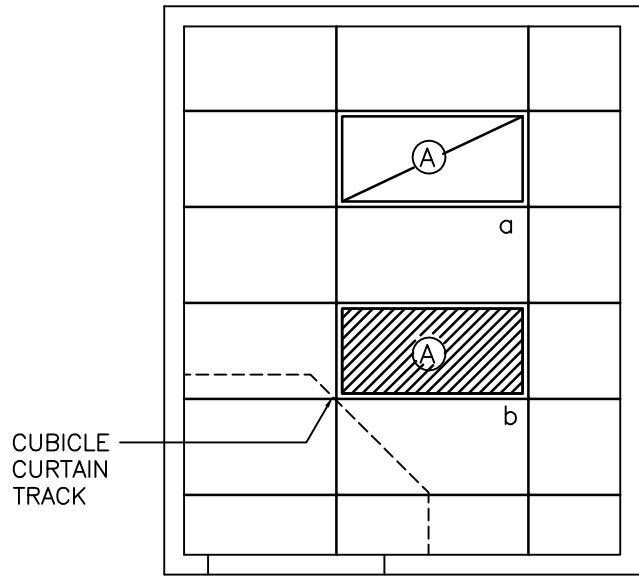
100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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Ambulatory Care: ETM Nurse Triage (EXRG4)  
Reflected Ceiling Plan



100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: ETM Nurse Triage (EXRG4)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture. Parabolic louver w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	Yes
100% Outside Air:	Only if served by 100% OA (Outside Air) AHU
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Year around conditions.</li> </ol>

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

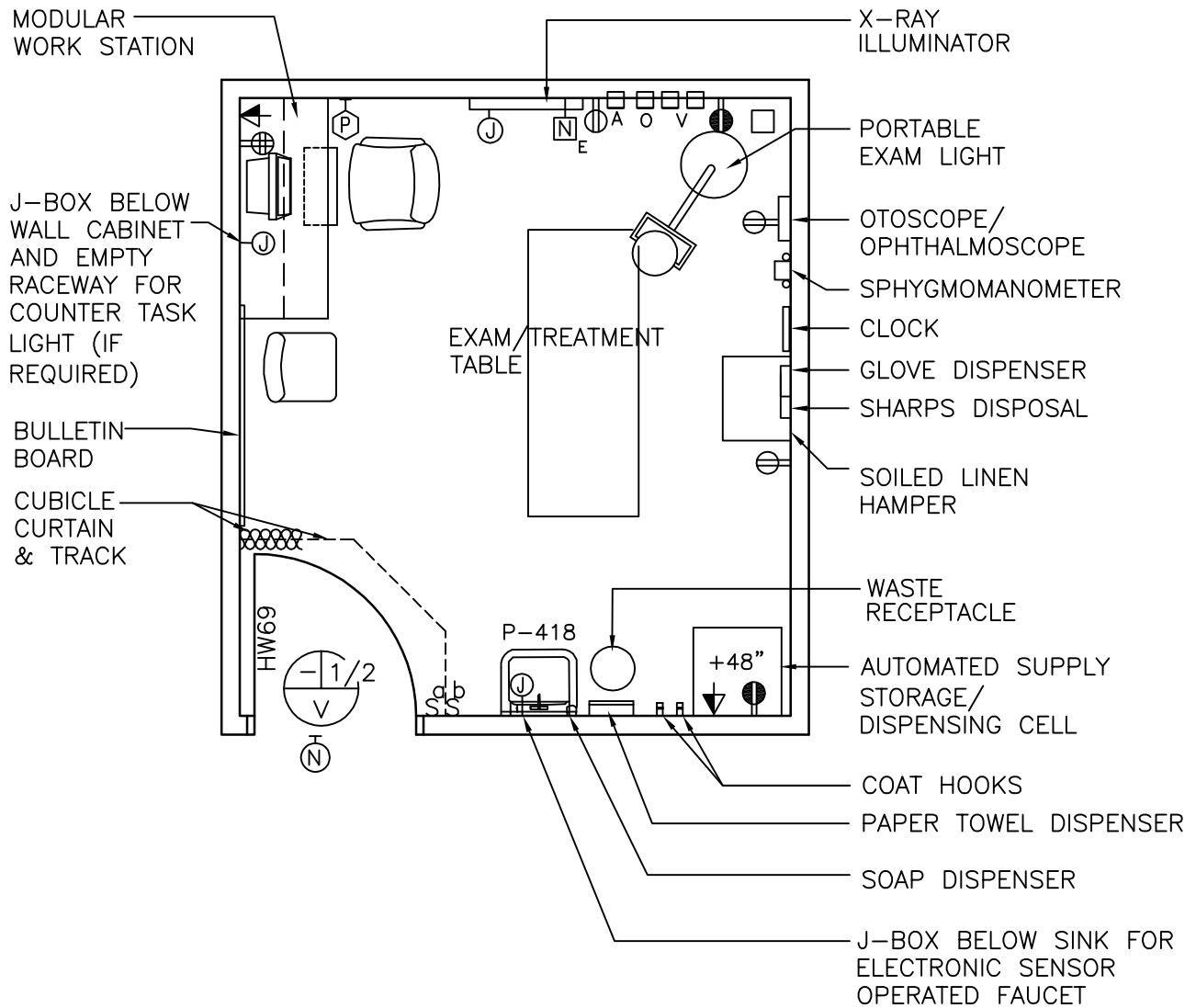


Ambulatory Care: ETM Nurse Triage (EXRG4)

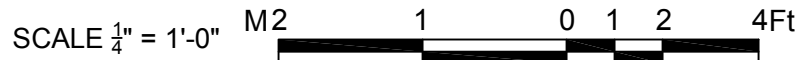
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5180		1	VV	Curtain, cubicle
F0210		AR	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted

Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1)  
 Floor Plan

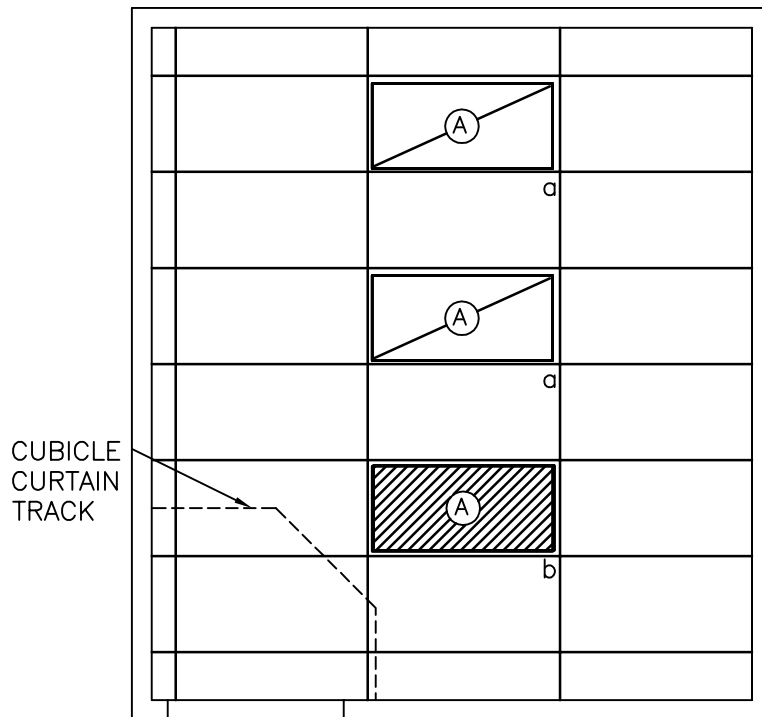


175 NSF/ 16.3 NSM



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Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1)  
Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

As Required

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Recessed 2' x 4' (600 mm x 1200 mm) fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps. Color corrected lamps having a color rendering index (CRI) of 70 or above with color temperature of 3500°K.</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fluorescent nurse call light.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Lighting; portable light; x-ray illuminator; select receptacles shall be on emergency power.</li> <li>2) Coordinate location and height of work station receptacles with modular furniture.</li> <li>3) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	5
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

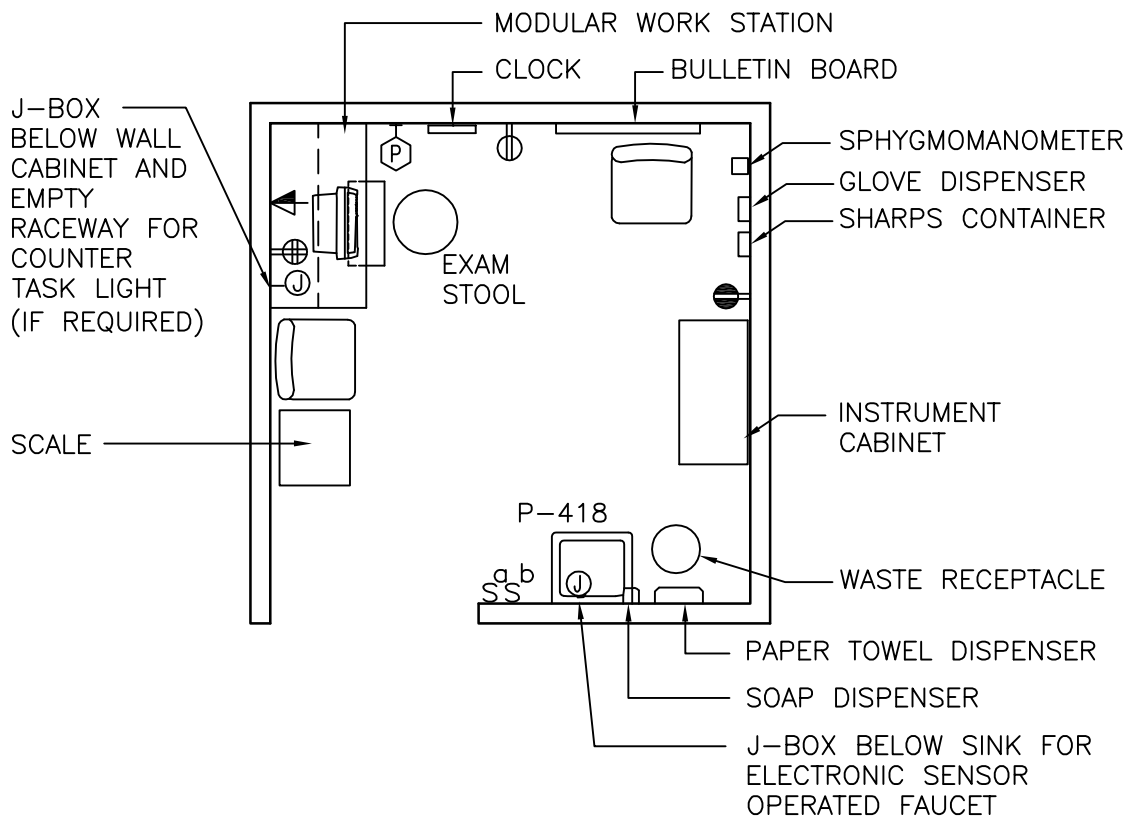
Ambulatory Care: ETM Procedure Room, Multi-Purpose (TRGM1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5180		AR	CC	Track, curtain, cubicle, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
M8320		1	VV	Table, treatment, hi-lo, electrical, 120 volt, 30" x 78" x 32" (750 mm x 1950 mm x 800 mm)
		1	VV	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
M7401		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F3010 or F3025		1	VV	Bulletin board, 60" x 36" (1520 mm x 900 mm)
X3930		1	VV	Illuminator, x-ray film, 120 volt, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M4200		1	VV	Ophthalmoscope, wall hung
M4200		1	VV	Otoscope, wall hung
M4100		1	VV	Sphygmomanometer, wall hung
A5145		2	VV	Hook, coat, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5180		AR	VV	Curtain, cubicle
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
M1801		1	VV	PC, computer system
F0205		1	VV	Chair, rotary, with arms
F0210		1	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
M3070		1	VV	Hamper, soiled linen
F0205		AR	VV	Automated storage/dispensing unit (cell), approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)

Ambulatory Care: ETM Vital Sign Station (EXRG4)

Floor Plan



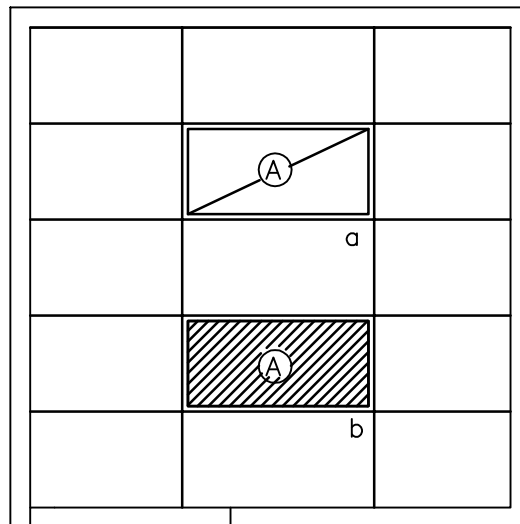
100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: ETM Vital Sign Station (EXRG4)  
Reflected Ceiling Plan



100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: ETM Vital Sign Station (EXRG4)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) Switching per station</li> <li>2) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic louvers, w/ F32T8 lamps 3500° K, CRI=70 (minimum).</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6 (Supply)
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Year around conditions.</li> </ol>

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



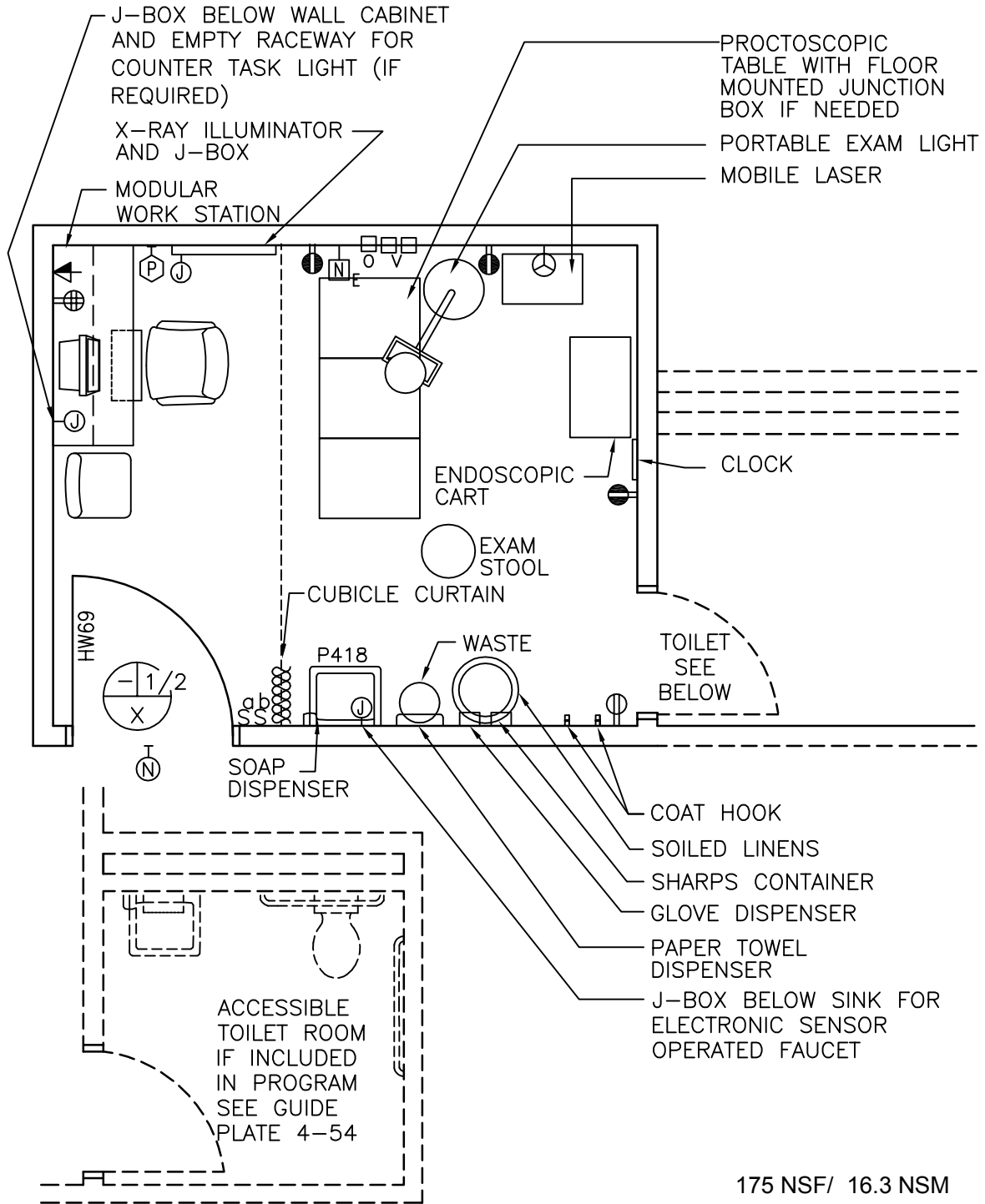
Ambulatory Care: ETM Vital Sign Station (EXRG4)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F0210		2	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M1801		1	VV	CRT, computer system, with keyboard pullout
M4100		1	VV	Sphygmomanometer, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
M4030		1	VV	Stand on scale
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted



Ambulatory Care: GI Screening Proctoscopy/ Sigmoidoscopy Room ( TRPE1)  
 Floor Plan

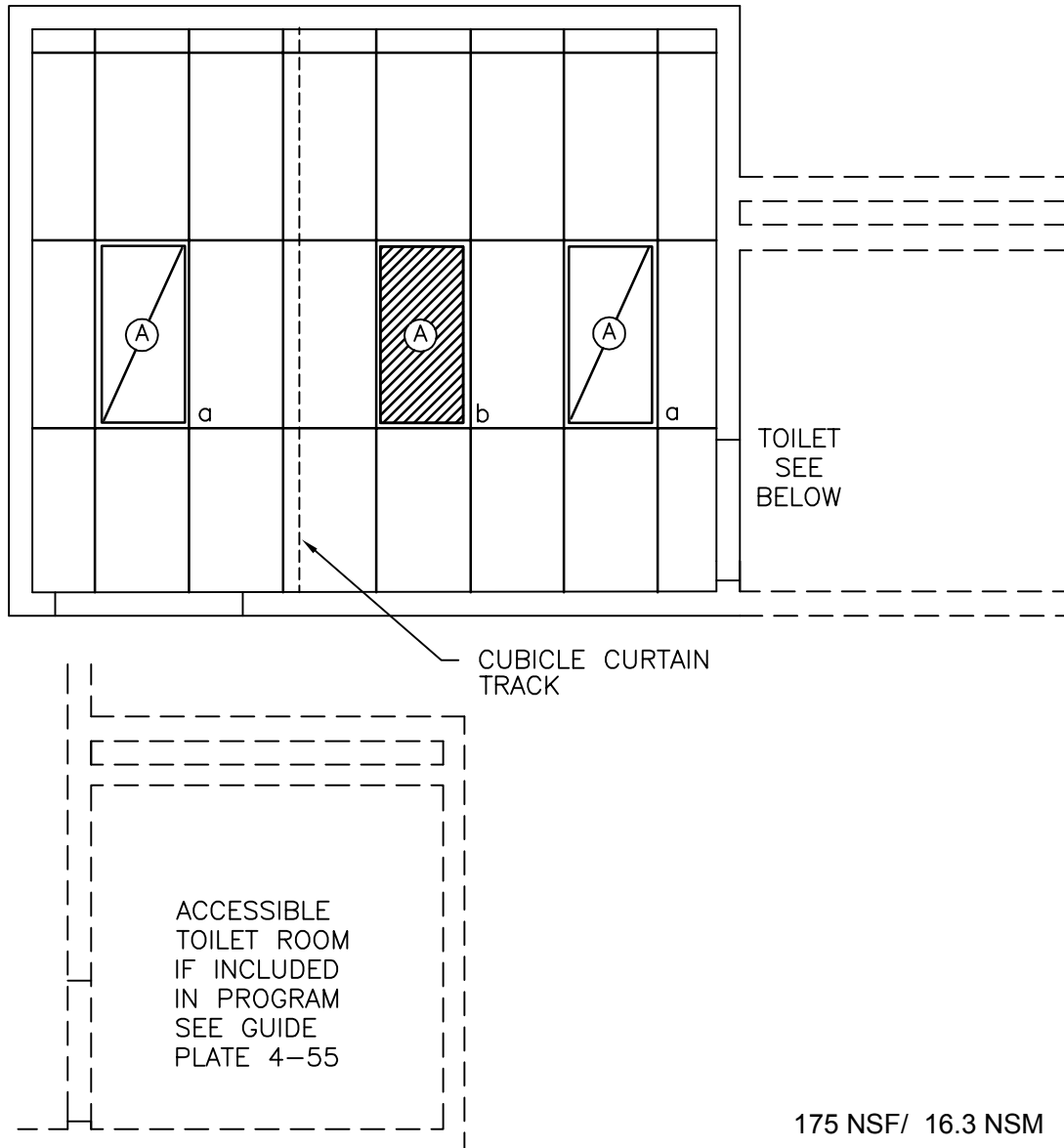


175 NSF/ 16.3 NSM



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Ambulatory Care: GI Screening Proctoscopy/ Sigmoidoscopy Room ( TRPE1)  
Reflected Ceiling Plan



SCALE  $\frac{1}{4}$ " = 1'-0"



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Ambulatory Care: GI Screening Proctoscopy/Sigmoidoscopy Room(TRPE1)

Design Standards

**ARCHITECTURAL**

Ceiling: AT(SP); AT Toilet Room  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: GWB-SC  
 Wainscot: CT 48" (1200 mm) in Toilet Room  
 Base: RSF 6" (150 mm) Integral base  
 Floor Finish: RSF; CT in Toilet Room  
 Slab Depression: --  
 Notes: --

**SPECIAL EQUIPMENT**

**LIGHTING**

General: --  
 Exam: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).  
 2) The foot-candle level is average maintained.  
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.  
 5) Fluorescent nurse call light.

**POWER**

General: As Shown  
 Emergency: As Shown  
 Notes: 1) Special receptacle for laser equipment. (Coordinate with supplier.)  
 2) Items on emergency power include selected receptacles, x-ray illumination, laser, general lighting.  
 3) Coordinate location and height of work station receptacles with modular furniture.  
 4) Exam table may be wall outlet connected.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: Yes  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: Yes  
 VTEL: --  
 VA Satellite TV: --  
 Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 8 – Room  
 10 - Toilet  
 100% Exhaust: Yes  
 100% Outside Air: Only if the AHU is 100% OA  
 Room Air Balance: Negative (-)  
 Dedicated Exhaust System: No  
 Occupancy: 4  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Year around conditions.

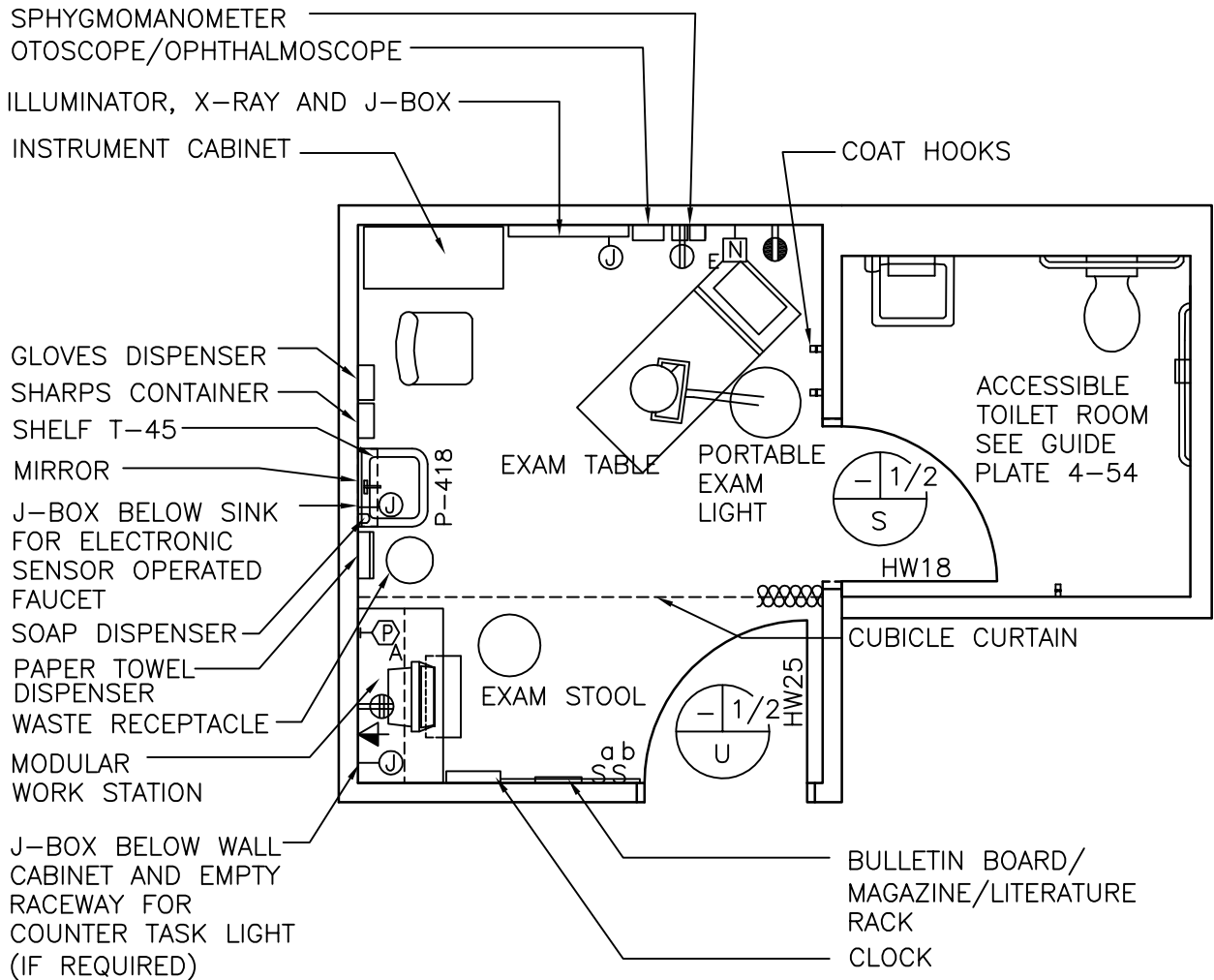
**PLUMBING AND MEDICAL GASES**

Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: --  
 Medical Vacuum: Yes  
 Oxygen: Yes  
 Notes: 1) Chilled water may be required for laser equipment. (Coordinate with equipment supplier.)

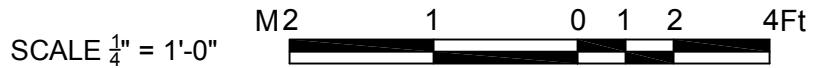
Ambulatory Care: GI Screening Proctoscopy/Sigmoidoscopy Room(TRPE1)  
 Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M8605		AR	VV	Cart, endoscopic
F0205		1	VV	Chair, rotary, with arms
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
A5180		1	VV	Curtain, cubicle
M1801		1	VV	Desktop PC with keyboard
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M3185		1	VV	Electro-cauterizing unit, mobile, approx. 21" W x 24" D (525 mm W x 600 mm D)
M3070		1	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
A5154		AR	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M8525		1	VV	Laser, CO2, mobile
M7401		AR	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F0340		1	VV	Stool, examining, adjustable
M9065		1	VV	Table, proctoscopic, adjustable, hydraulically operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted

Ambulatory Care: GYN Exam Room (EXRG8)  
 Floor Plan

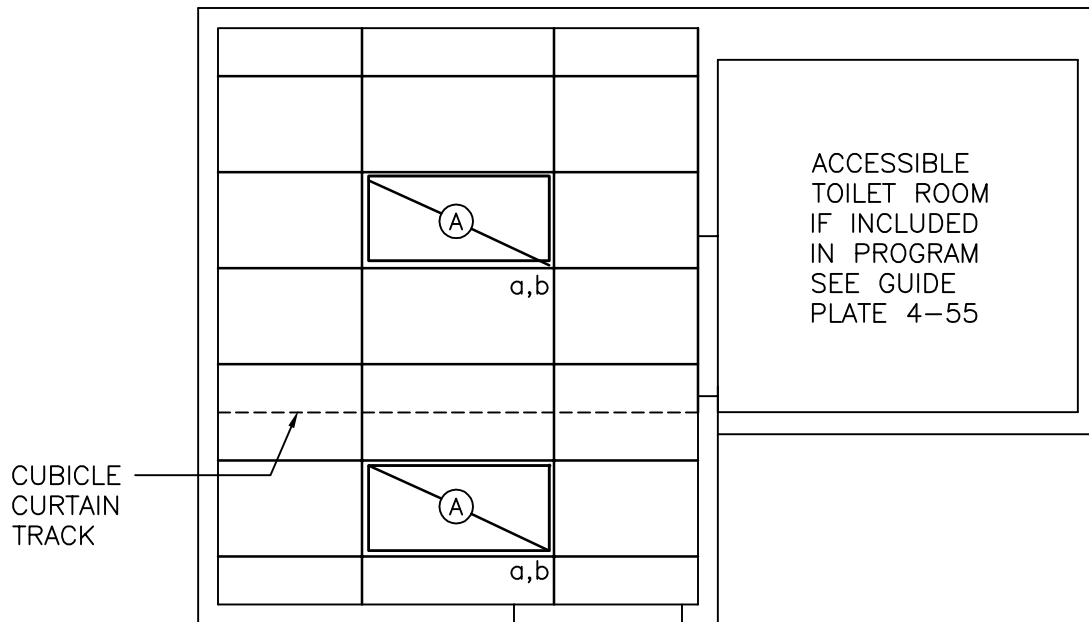


120 NSF/ 11.2 NSM  
 Plus toilet at 55 NSF



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Ambulatory Care: GYN Exam Room (EXRG8)  
Reflected Ceiling Plan



120 NSF/ 11.2 NSM  
Plus toilet at 55 NSF

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: GYN Exam Room (EXRG8)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB Lay-in Panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	48" (1200 mm); CT in Toilet Room
Base:	RB
	CT in Toilet Room
Floor Finish:	VCT
	CT in Toilet Room
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens. Lamps shall be F32WT8 with 3500°K and 70 minimum CRI.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
	5) Fluorescent nurse call light.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	1) Junction box x-ray illuminator. Connect per equipment manufacturer.
	2) Recessed floor mounted junction box for exam and treatment table. Connection to equipment per manufacturer. Provide dedicated circuit. Verify wattage, voltage, and phase.
	3) Portable exam light.
	4) Coordinate location and height of work station receptacles with modular furniture.
	5) Exam table may be wall outlet connected.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6 Examination Room
	10 Toilet Exhaust
100% Exhaust:	Yes (Toilet Only)
100% Outside Air:	No
Room Air Balance:	Neutral (0) – Examination Room
	Negative (-) Toilet Room
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



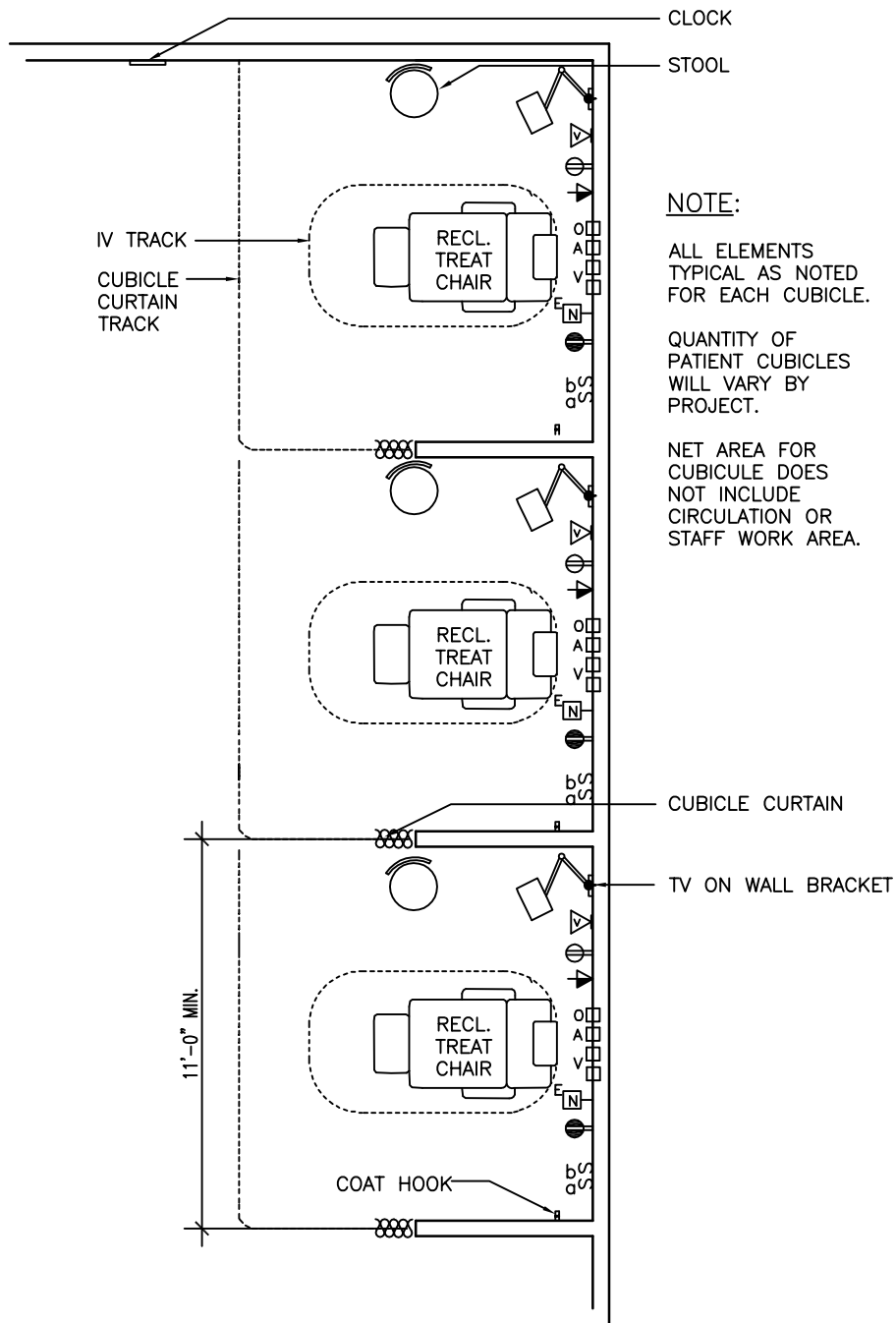
Ambulatory Care: GYN Exam Room (EXRG8)

Equipment List

FIXED EQUIPMENT AND UTILITIES				
JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)

FURNISHINGS AND MOVABLE EQUIPMENT				
JSN	SYMBOL	QTY	AI	DESCRIPTION
X3930		AR	CC	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H) (PG-18-1, MCS 26 51 00)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	Desktop PC with keyboard
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M7401		1	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M4200		1	VV	Otoscope/ophthalmoscope, wall hung
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
F3010 or F3025		1	VV	Bulletin board 30" x 42" (750 mm x 1050 mm)
A5145		2	VV	Hook, coat, wall mounted
F2300		1	VV	Magazine/literature rack, wall mounted
M4100		1	VV	Sphygmomanometer, wall hung
F0340		1	VV	Stool, examining, adjustable
M9066		1	VV	Table, examining and treatment, motorized
A5180		AR	VV	Curtain, cubicle
A5106		1	VV	Sharps container
A5106		1	VV	Glove dispenser

Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1)  
 Floor Plan



3 Stations: 330 NSF/ 30.7 NSM

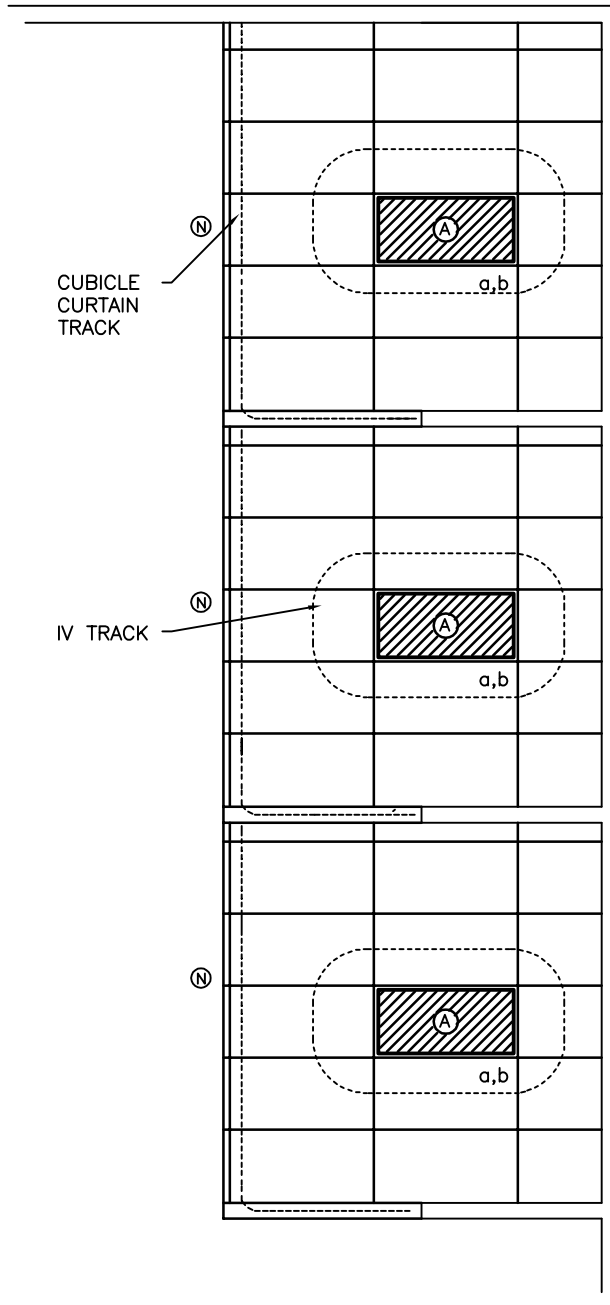
Max 8 stations: 830 NSF

SCALE  $\frac{3}{16}" = 1'-0"$



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.

Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1)  
Reflected Ceiling Plan



3 Stations: 330 NSF/ 30.7 NSM  
Max 8 stations: 830 NSF

SCALE  $\frac{3}{16}'' = 1'-0''$



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.

Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	RSF
Floor Finish:	RSF
Slab Depression:	--
Sound Protection:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens and F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) Patient task lighting.</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>6) Fluorescent nurse call light.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	Yes
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	10 - CV
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	8
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

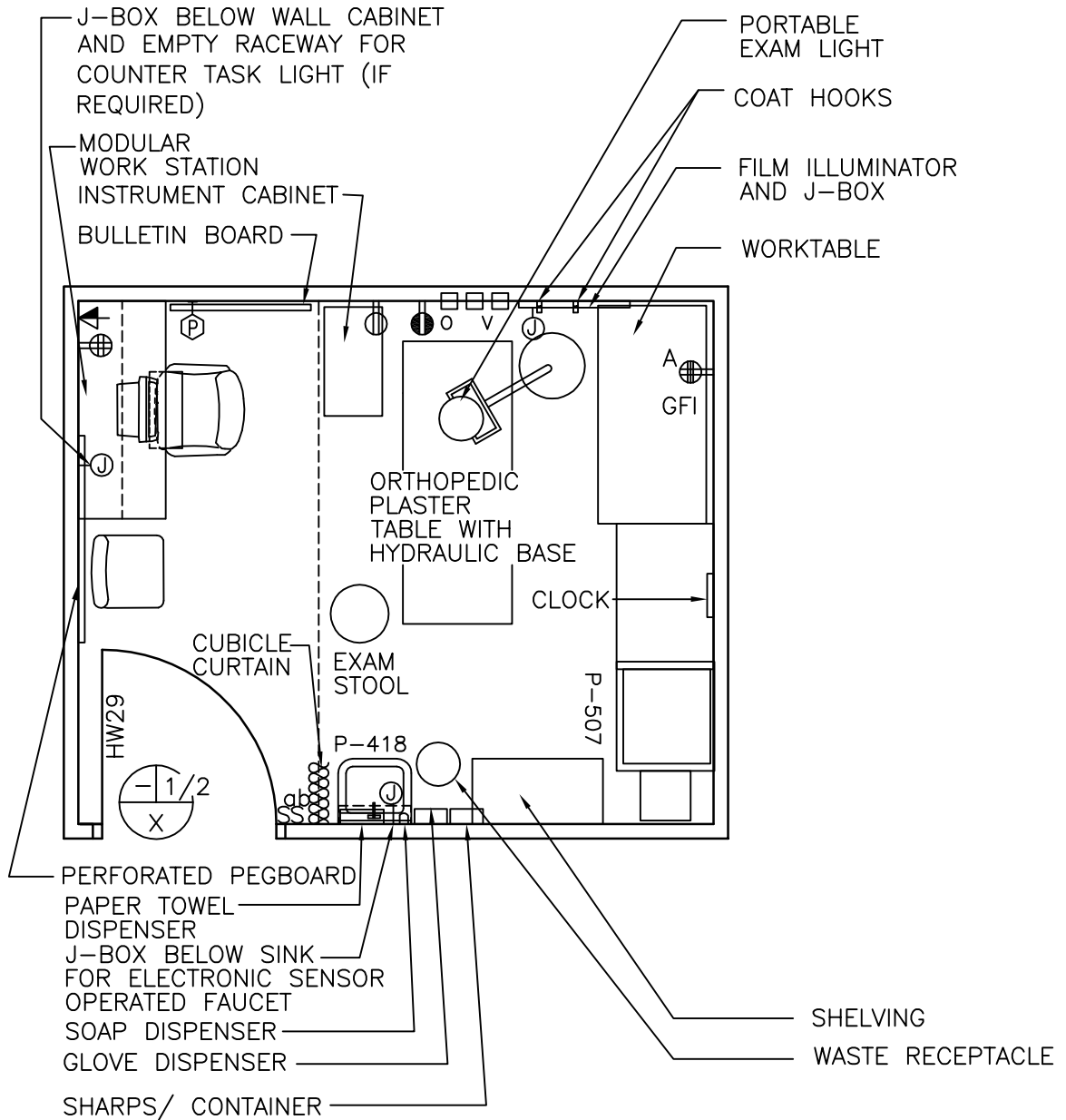
Ambulatory Care: Oncology Chemotherapy Treatment Room (OPTC1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A5210 & A5220		AR	CC	Bracket, wall mounted, television receiver (PG-18-1, MCS 27 41 31)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1165		AR	CC	Track, intravenous, ceiling mounted, continuous loop track and vertical adjustment (one for each reclining chair or stretcher) (PG-18-1, MCS 10 21 23)
		AR	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Outlet, video (PG-18-1, MCS 27 41 31)
F0265		AR	VV	Chair, reclining, upholstered, 36" x 38" x 72" (900 mm x 950 mm x 1800 mm) (extended)
F3200		1	VV	Clock, atomic, battery operated
A5145		AR	VV	Hook, coat, wall mounted
M4655		AR	VV	Stretcher, treatment
M0505		AR	VV	Television, color, wall mounted
A5180		AR	VV	Curtain, cubicle
F0340		AR	VV	Stool, adjustable height, with back

Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)

Floor Plan



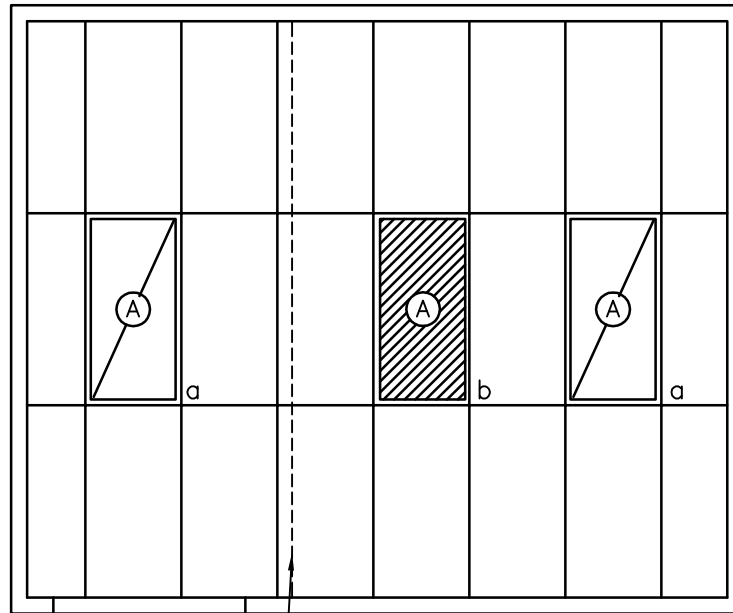
175 NSF/ 16.3 NSM

SCALE 1/4" = 1'-0"



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.

Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)  
Reflected Ceiling Plan



CUBICLE  
CURTAIN  
TRACK

175 NSF/ 16.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P/PL-P
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Base
Floor Finish:	RSF
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Exam:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> <li>2) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Designer shall address special exhaust requirements for equipment within Cast Room.</li> <li>2) Year around conditions.</li> </ol>

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

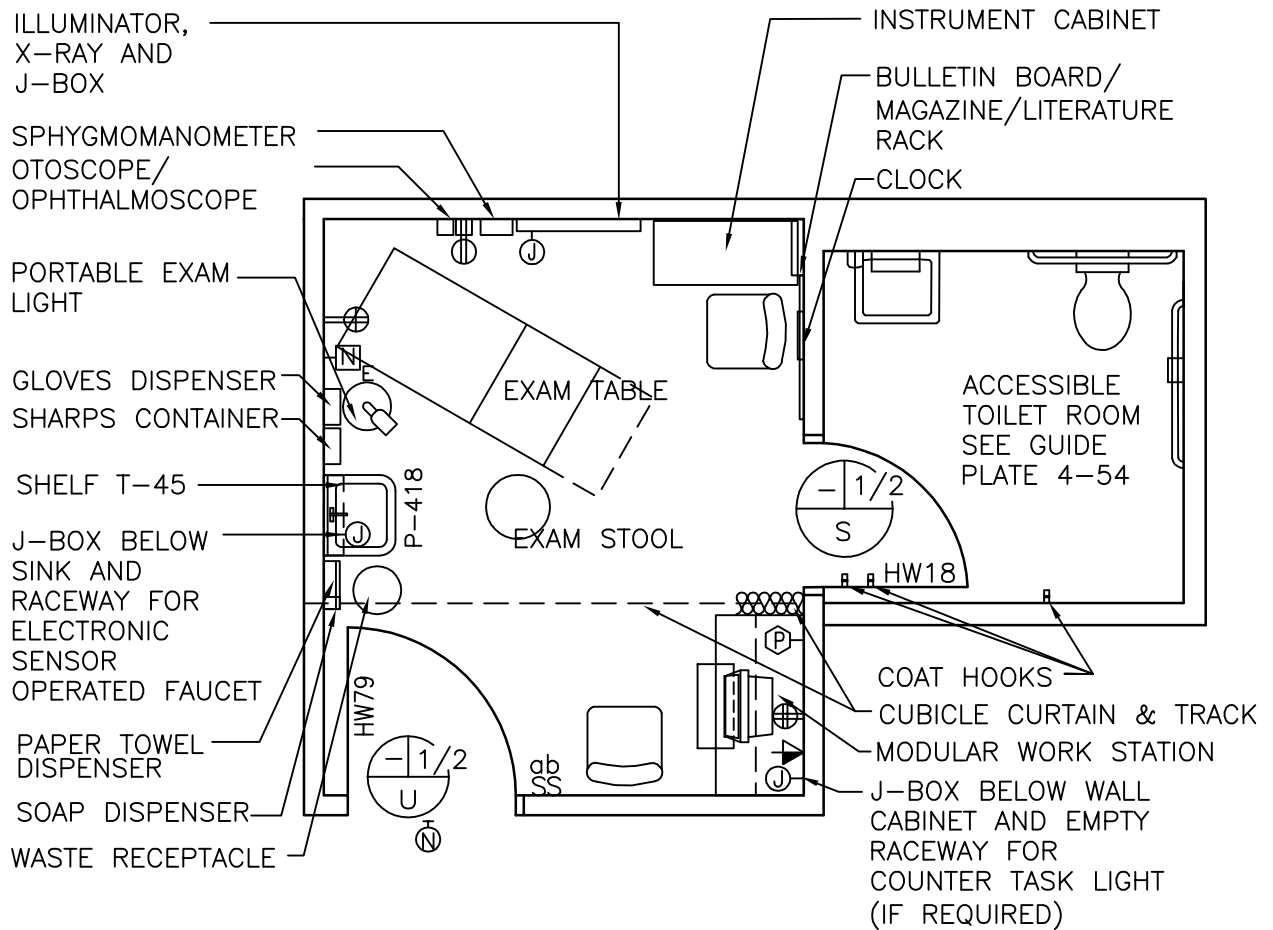


Ambulatory Care: Orthopedic Clinic Cast Room (OPCR1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
C0052		1	CC	Pegboard, perforated, heavy duty, with hangers, 48" x 96" (1200 mm x 2400 mm) (PG-18-1, MCS 06 20 00)
CS150	P-507	1	CC	Sink, single compartment, CRS drain board without corrugations (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling mounted (PG-18-1, MCS 10 21 23)
		AR	CC	Outlet, oxygen (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, medical vacuum (PG-18-1, MCS 22 62 00)
		AR	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26) for computer equipment
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
F3010 or F3025		1	VV	Bulletin board, 48" W x 36" H (1200 mm W x 900 mm H)
M3085		1	VV	Cabinet, instrument and dressing, 30" W x 16" D x 60" H (750 mm W x 400 mm D x 1520 mm H)
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		2	VV	Hook, coat, wall mounted
X3930		AR	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7420		AR	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M1801		1	VV	PC, computer system, with keyboard
M2055		AR	VV	Shelving, floor standing, steel, 4 or 5 adjustable shelves, 36" W x 18" D x 84" H (900 mm W x 450 mm D x 2100 mm H)
F0340		1	VV	Stool, examining, adjustable
M9075		1	VV	Table, orthopedic, portable plaster table, hydraulic base
K1910		1	VV	Table, work, corrosion resisting steel top, metal frame, 1 drawer and 1 shelf, 60" W x 30" D x 34" H (1520 mm W x 750 mm D x 850 mm H)
A5106		AR	VV	Sharps container, wall mounted
A5106		AR	VV	Glove dispenser, wall mounted
A5180		AR	VV	Curtain, cubicle
E0210		AR	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		1	VV	Chair, rotary, with arms
F0210		1	VV	Chair, straight, without arms

Ambulatory Care: UC Infectious Isolation Room (BRIT1)  
 Floor Plan

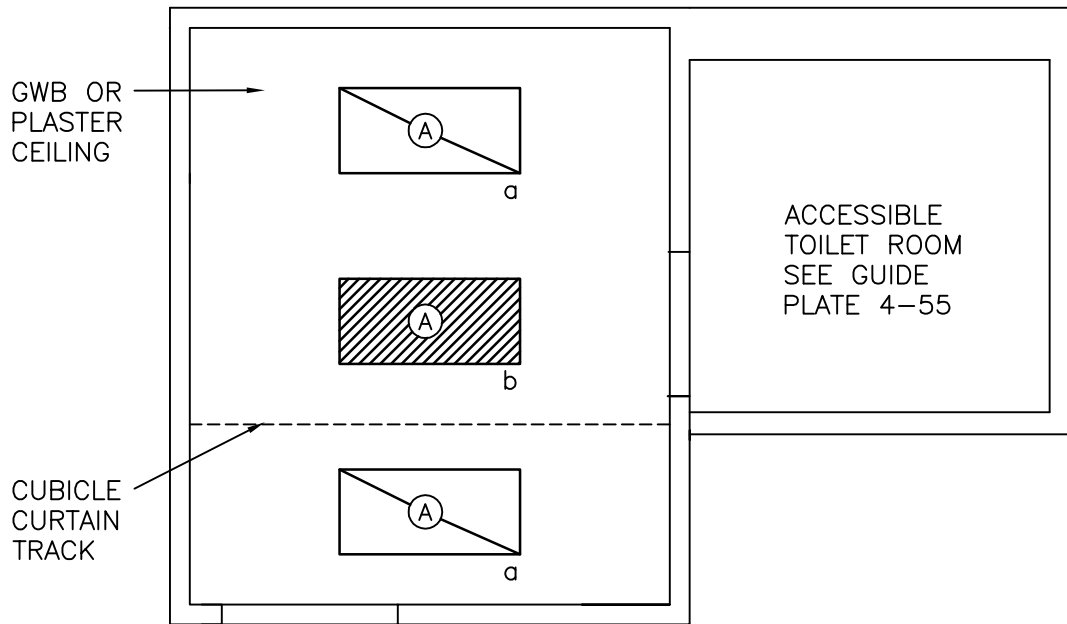


120 NSF/ 11.2 NSM



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Ambulatory Care: UC Infectious Isolation Room (BRIT1)  
 Reflected Ceiling Plan



120 NSF/ 11.2 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

Ambulatory Care: UC Infectious Isolation Room (BRIT1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB-P/PL-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens.</li> <li>2) Lamps shall have a color temperature of 3500°K and color rendering index (CRI) not less than 70.</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>6) Fluorescent nurse call light.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Junction box x-ray illuminator. Connect per equipment manufacturer.</li> <li>2) Coordinate location and height of work station receptacles with modular furniture.</li> <li>3) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING (ISOLATION ROOM)**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	Yes
	See HVAC Design Manual for the details for Special Exhaust System
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

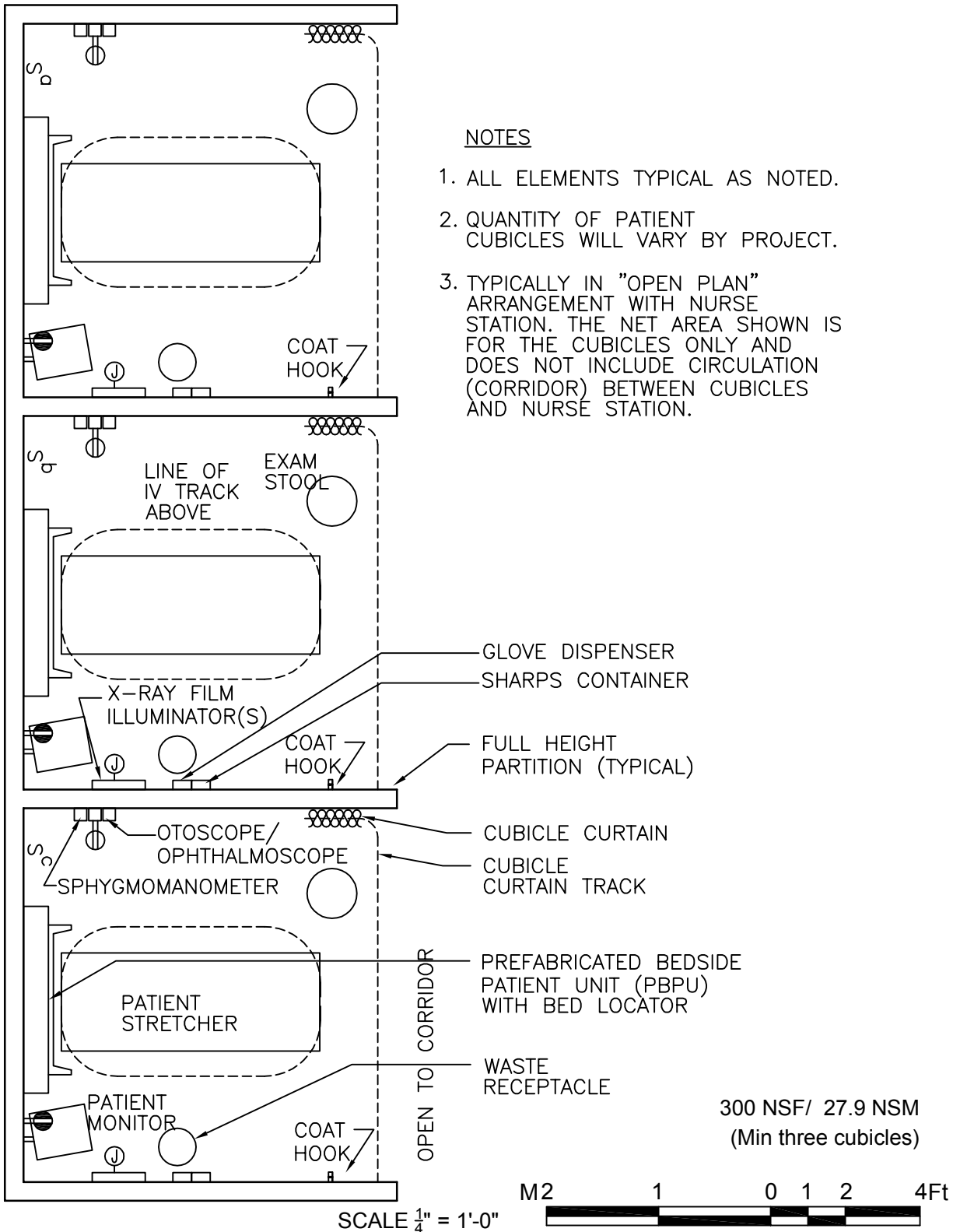
Ambulatory Care: UC Infectious Isolation Room (BRIT1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" x 5" (300 mm x 125 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, Code 1 (blue), emergency station, with corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
F0210		2	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		1	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted

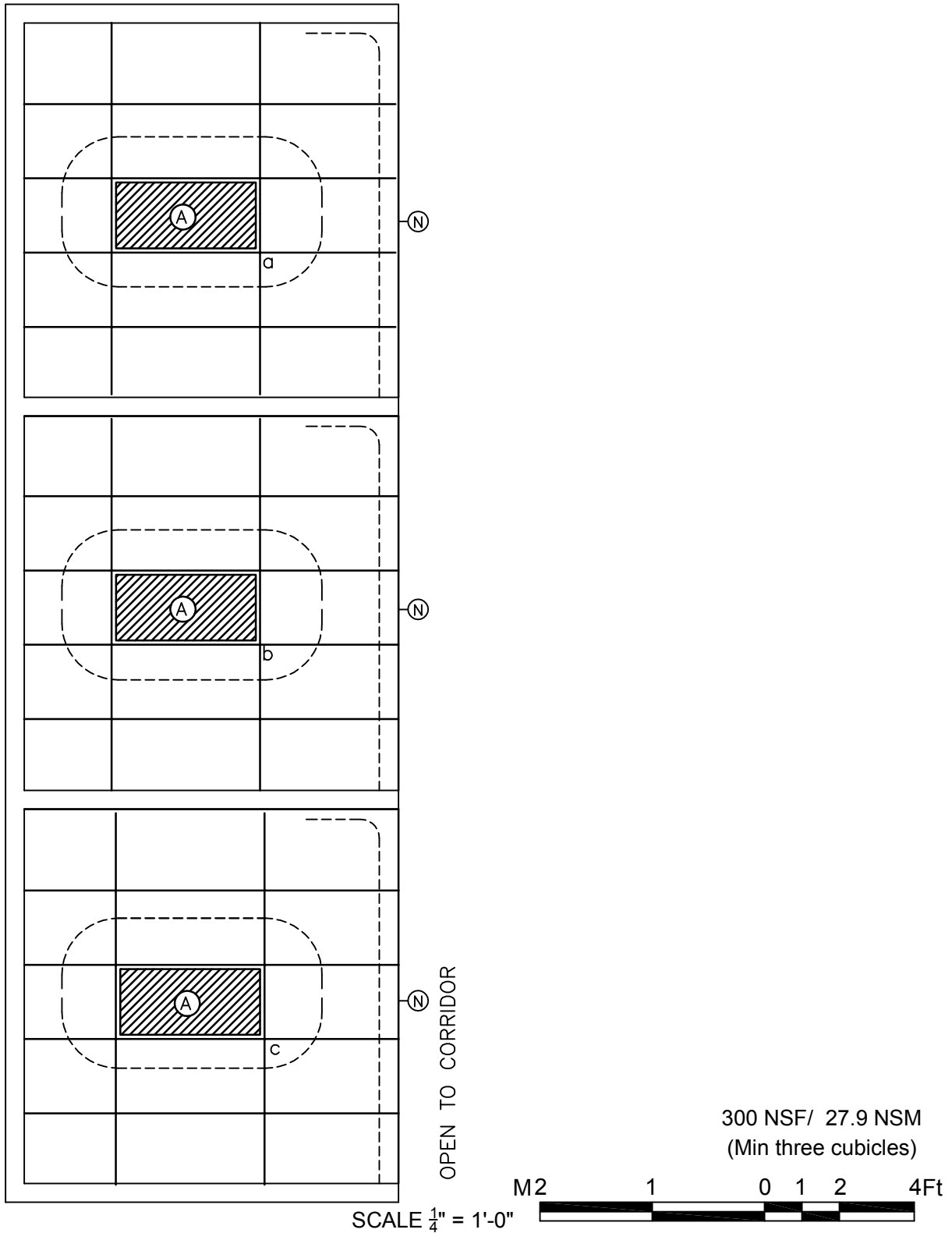
Ambulatory Care: UC Monitored Beds (BRUN1)

Floor Plan



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.

Ambulatory Care: UC Monitored Beds (BRUN1)  
 Reflected Ceiling Plan



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.

Ambulatory Care: UC Monitored Beds (BRUN1)

Design Standards

**ARCHITECTURAL**

Ceiling: AT (SP)  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: PL-SC/GWB-SC  
 Wainscot: --  
 Base: RSF 6" (150 mm) Integral Cove  
 Floor Finish: RSF  
 Slab Depression: --  
 Notes: 1). Entrance doors to observation and treatment area should be double doors with remote push-plate door operator.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=80 (minimum).  
 2) The foot-candle level is average maintained.  
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.  
 5) Fluorescent nurse call dome light with 13W lamp.

**POWER**

General: As Shown  
 Emergency: As Shown  
 Notes: 1) Selected receptacles, PBPU's, x-ray illuminator shall be on emergency power.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: --  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: Yes  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 75°F +/- (24°C)  
 Dry-Bulb Temperature  
 30 Percent to  
 50 Percent  
 Relative Humidity  
 Minimum Air Changes per Hour: 6  
 100% Exhaust: No  
 100% Outside Air: No  
 Room Air Balance: Neutral (0)  
 Dedicated Exhaust System: No  
 Occupancy: 2 per Patient Bed  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: Yes  
 Medical Vacuum: Yes  
 Oxygen: Yes  
 Notes: --

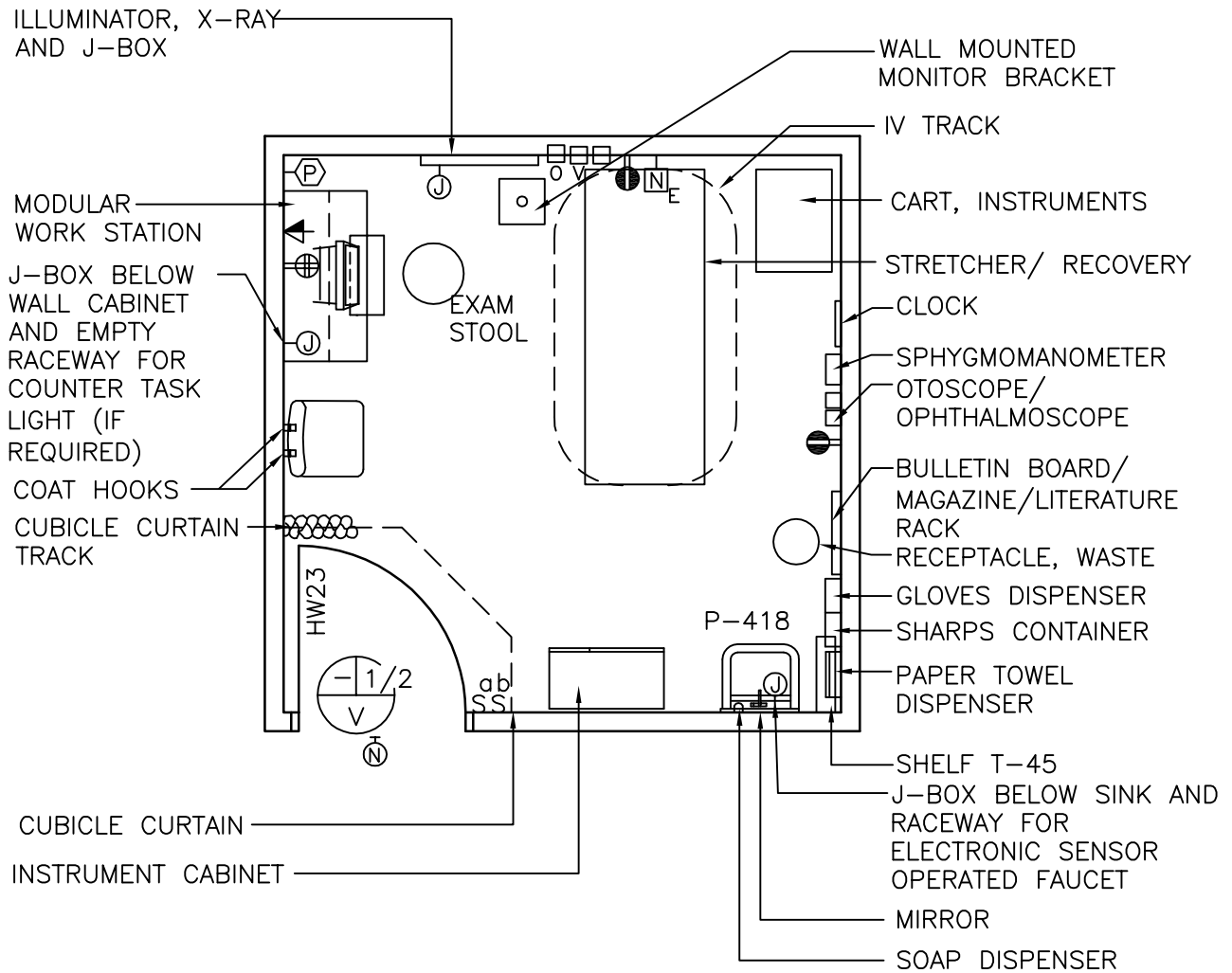


Ambulatory Care: UC Monitored Beds (BRUN1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		AR	CC	Bracket, monitor, wall mounted (PG-18-1, MCS 27 41 31)
A1165		AR	CC	Track, IV, ceiling mounted, continuous loop with IV tree (PG-18-1, MCS 10 21 23)
		AR	CC	Prefabricated Bedside Patient Unit; Type A1 (PG-18-1, MCS 10 25 13) (1) Receptacle, electrical, for reading-exam light, location optional (1) Bracket, for stem base reading-exam light (1) Bumper, wraparound, protruding (1) Light, reading-exam, stem base (1) Nurse call, Code 1 (blue) connector for hand held nurse call unit (1) Outlet, medical air (1) Outlet, oxygen (1) Outlet, medical vacuum (1) Telephone
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
M7845		AR	VV	Monitor, physiological, ECG, HRT, BP, OX
F2017		AR	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter
A4655		AR	VV	Stretcher, recovery
A5106		AR	VV	Sharps container, wall mounted
A5106		AR	VV	Glove dispenser, wall mounted
A5145		AR	VV	Hook, coat, wall mounted
X3930		AR	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		AR	VV	Light, examining, portable, 120 volts, 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M4200		AR	VV	Ophthalmoscope, wall hung
M4200		AR	VV	Otoscope, wall hung
M4100		AR	VV	Sphygmomanometer, wall hung
F0340		AR	VV	Stool, examining, adjustable
A5180		AR	VV	Curtain, cubicle

Ambulatory Care: UC Observation and Treatment Room (OOHR1)  
 Floor Plan



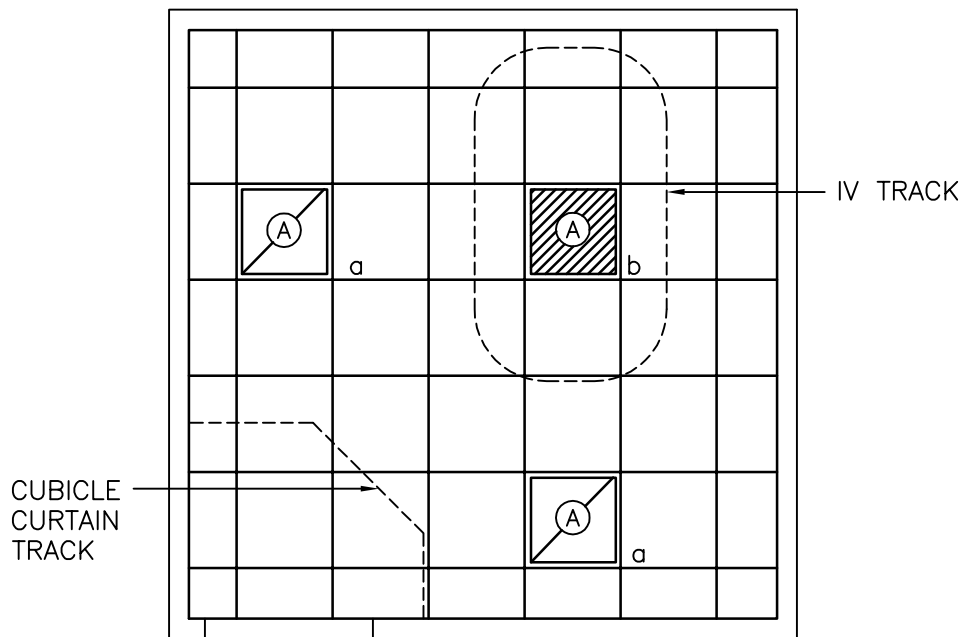
150 NSF/ 13.9 NSM

SCALE 1/4" = 1'-0"

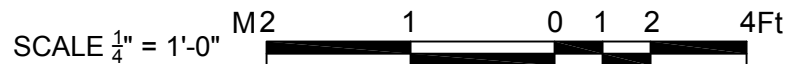


NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements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

Ambulatory Care: UC Observation and Treatment Room (OOHR1)  
Reflected Ceiling Plan



150 NSF/ 13.9 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.

Ambulatory Care: UC Observation and Treatment Room (OOHR1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	PL-SC/GWB-SC
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Cove
Floor Finish:	RSF
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fluorescent nurse call light with 13 W lamp.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> <li>2) Exam table may be wall outlet connected.</li> <li>3) Emergency power for physiological monitor.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2 per Patient Bed
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

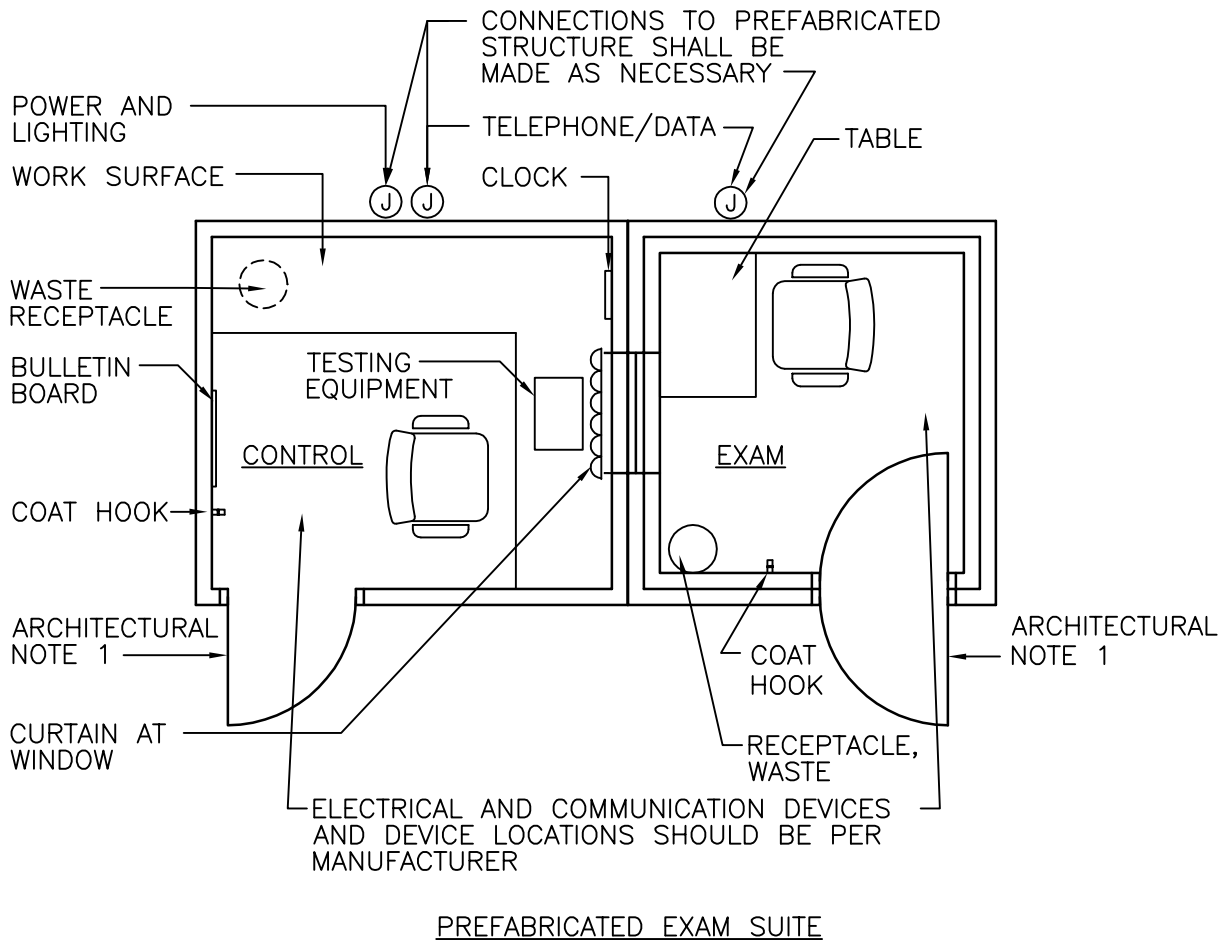
Ambulatory Care: UC Observation and Treatment Room (OOHR1)

Equipment List

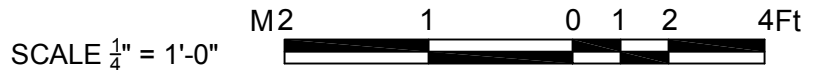
JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A1066		1	CC	Mirror, 16" W x 20" H (400 mm W x 500 mm H), with integral shelf, over lavatory (PG-18-1, MCS 10 28 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Bracket, monitor, wall mounted
A1165		AR	CC	Track, IV, ceiling mounted, continuous loop with IV tree (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5180		AR	CC	Curtain, cubicle
		1	CC	Nurse call, Code 1 (blue), emergency station, with corridor signal light (PG-18-1, MCS 27 52 23)
E0210		AR	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M7845		1	VV	Monitor, physiological, ECG, HRT, BP, OX
F2017		1	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter
M4655		1	VV	Stretcher, recovery
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M8830		1	VV	Cart, mobile, instrument, 36" x 20" (900 mm x 500 mm)
F0210		AR	VV	Chair, straight, without arms
		2	VV	Hook, coat, wall mounted
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
M4200		1	VV	Otoscope, wall hung
		1	VV	Stool, examining, adjustable

Audiology: Booth Audiometric Exam (PEHS1)

Floor Plan

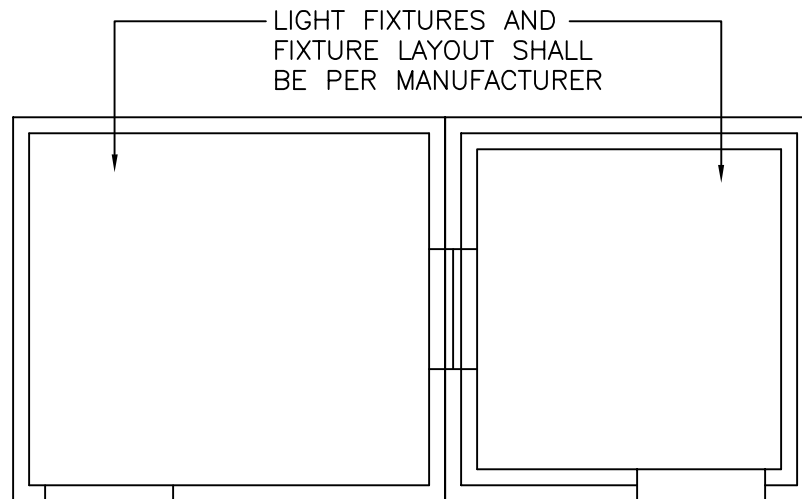


130 NSF/ 12.1 NSM  
(Included booth walls)



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.

Audiology: Booth Audiometric Exam (PEHS1)  
Reflected Ceiling Plan



130 NSF/ 12.1 NSM  
(Included booth walls)

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

**Audiology: Booth Audiometric Exam (PEHS1)**

**Design Standards**

**ARCHITECTURAL**

Ceiling: Finishes shall be as per manufacturer’s standard model as selected.

Slab Depression: Approximately 4” (100 mm) coordinate with manufacturer.

Notes: 1) 3’-0” (900 mm) wide door. Doors and hardware furnished with prefabricated audio booth.  
 2) Perimeter GWB partition full height. Acoustic blanket over ceiling.  
 3) For Audio Suite details see VA Bulletin #1E11-87.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: As Required

Special: --

Notes: 1) Lighting to be as per manufacturer’s standards.

**POWER**

General: As Shown

Emergency: As Shown

Notes: --

**COMMUNICATION/SPECIAL SYSTEMS**

Data: --

Telephone: --

Intercom: --

Nurse Call: --

Public Address: --

Radio/Entertainment: --

MATV: --

CCTV: --

MID: --

Security/Duress: --

VTEL: --

VA Satellite TV: --

Notes: --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity

Minimum Air Changes per Hour: 6

100% Exhaust: No

100% Outside Air: No

Room Air Balance: Neutral (0)

Dedicated Exhaust System: No

Occupancy: 3

AC Load-(Equipment): As Required

AC Load-(Light): As Required

Notes: 1) Coordinate HVAC connections with the pre-fabricated acoustic booth for the exam room. Verify if the booth is equipped with any packaged HVAC system.  
 2) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water: --

Hot Water: --

Laboratory Air: --

Laboratory Vacuum: --

Sanitary Drain: --

Reagent Grade Water: --

Medical Air: --

Medical Vacuum: --

Oxygen: --

Notes: --



Audiology: Booth Audiometric Exam (PEHS1)

Equipment List

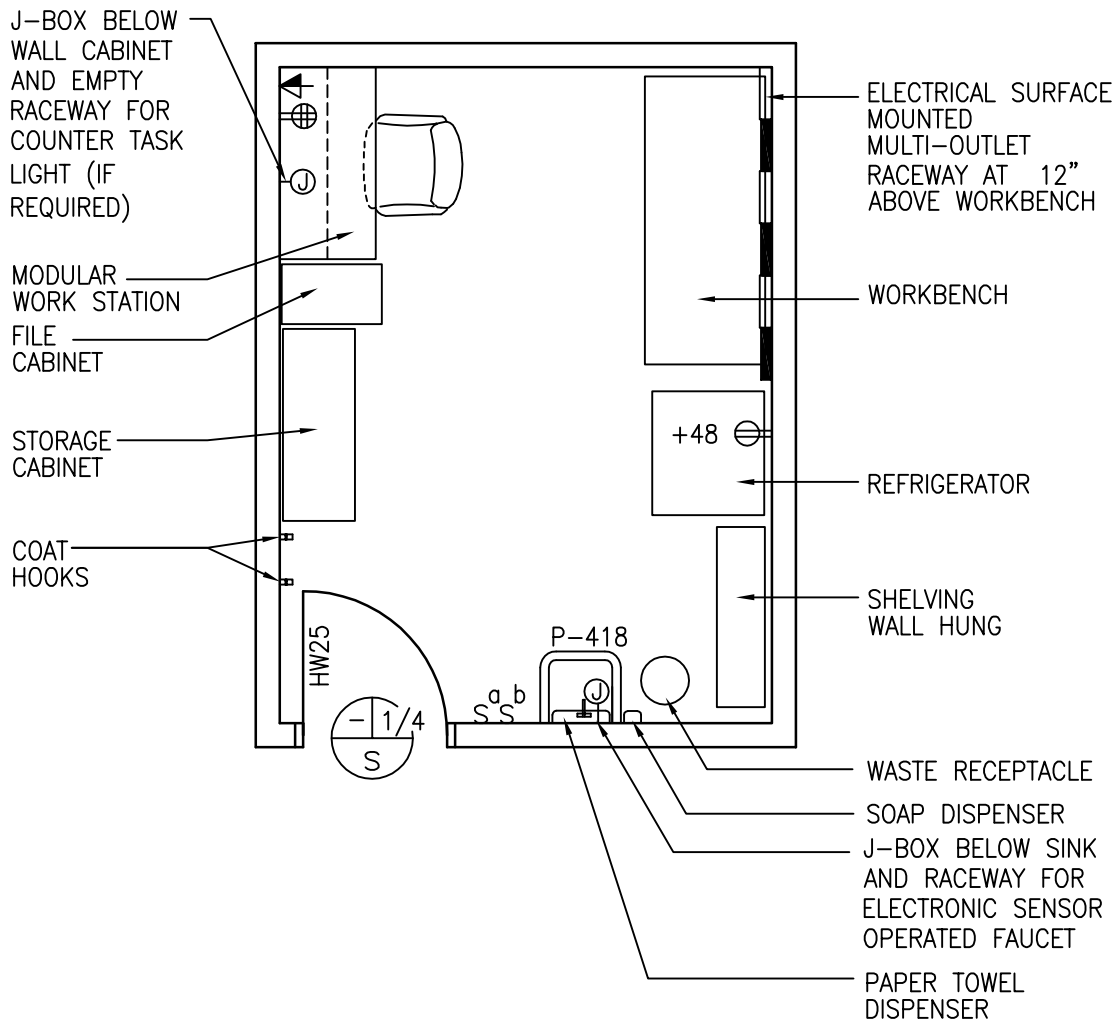
FIXED EQUIPMENT AND UTILITIES				
JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	VV	Prefabricated audiometric booth in accordance with individual project requirements. Size as required.
				Note: Coordinate electrical, telephone/data supplies and connections with equipment vendor.

CONTROL ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
E0042		AR	VV	Modular work surface, 30" D x 30" H (750 mm D x 750 mm H)
F0280		AR	VV	Chair, rotary, with arms, approx. 30" W x 30" D (750 mm W x 750 mm D)
F2017		1	VV	Receptacle, waste, step on type, approx. 18" x 18" (450 mm x 450 mm)
A5185 & A6305		1	VV	A6305 curtain and A5185 rod, wall mounted over window
A5145		1	VV	Hook, coat, wall mounted
F3010 or F3025		1	VV	Bulletin board Note: F3010 is 48" x 48" (1200 mm x 1200 mm), F3025 is Wood Frame.
		1	VV	Testing equipment

EXAMINATION ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
F0860		1	VV	Table, single drawer, 24" W x 36" L (600 mm W x 900 mm L)
F2000		1	VV	Receptacle, waste, step on type approx. 18" x 18" (450 mm x 450 mm)
F0260		AR	VV	Chair, high back, straight, with arms
A5145		1	VV	Hook, coat, wall mounted

Audiology: Instrument Calibration & Storage Room (SRCH1)

Floor Plan

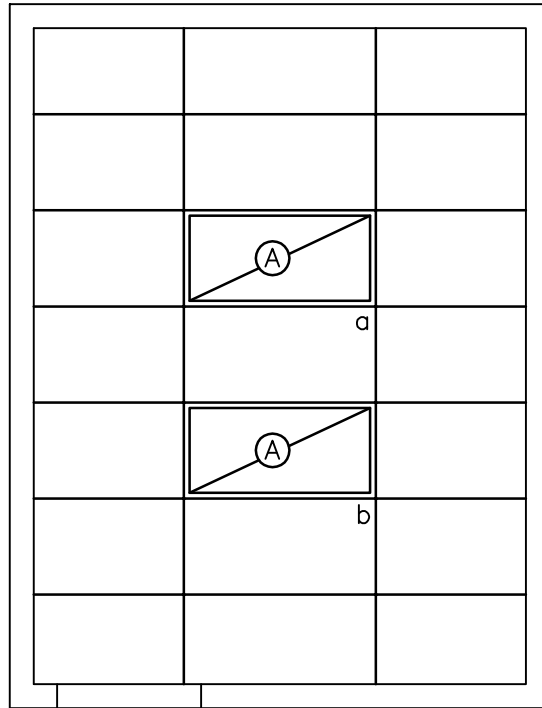


140 NSF/ 13.0 NSM



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Audiology: Instrument Calibration & Storage Room (SRCH1)  
Reflected Ceiling Plan



140 NSF/ 13.0 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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**Audiology: Instrument Calibration & Storage Room (SRCH1)**

**Design Standards**

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Audiology: Instrument Calibration & Storage Room (SRCH1)

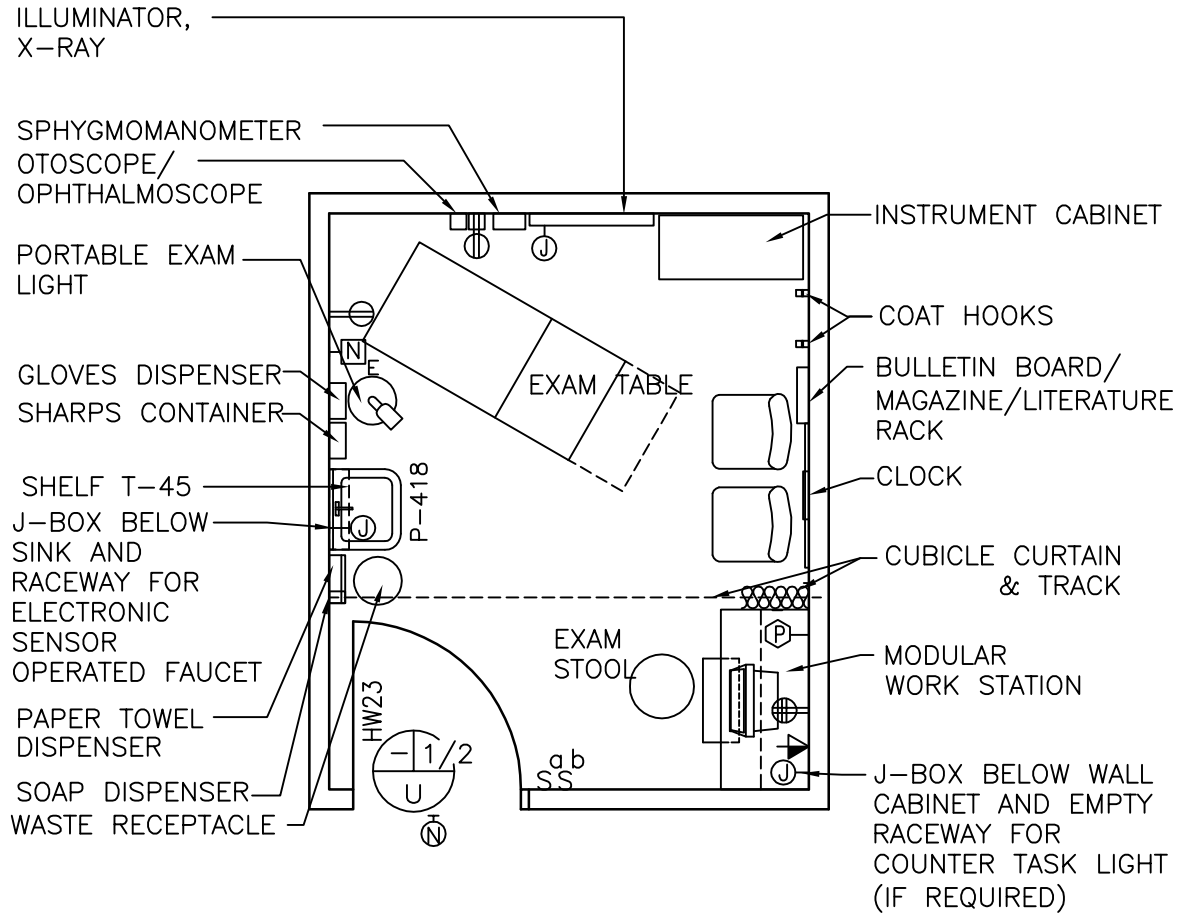
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
		AR	CC	Shelving, wall hung, standard and bracket type, 4 adjustable shelves, 12" D x length as required 45" (300 mm D x length as required 1125 mm) AFF (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical strip molding on 18" (450 mm) centers 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, quadruple, 120 volt (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
E210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		AR	VV	Chair, rotary, with arms
F0465		1	VV	Cabinet, storage, metal, 2 doors with lock, 48" W x 18" D x 78" H (1200 mm W x 450 mm D x 1950 mm H)
F0405		1	VV	Cabinet, filing (letter size), 5 drawer, 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)
A5145		2	VV	Hook, coat, wall mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
E0703		1	VV	Workbench, vinyl top with storage underneath
R7250		1	VV	Refrigerator, 120V
F2017		1	VV	Receptacle, waste, step on type, approx. 18" x 18" (450 mm x 450 mm)



Audiology: Office / Therapy Room (EXOS1)

Floor Plan



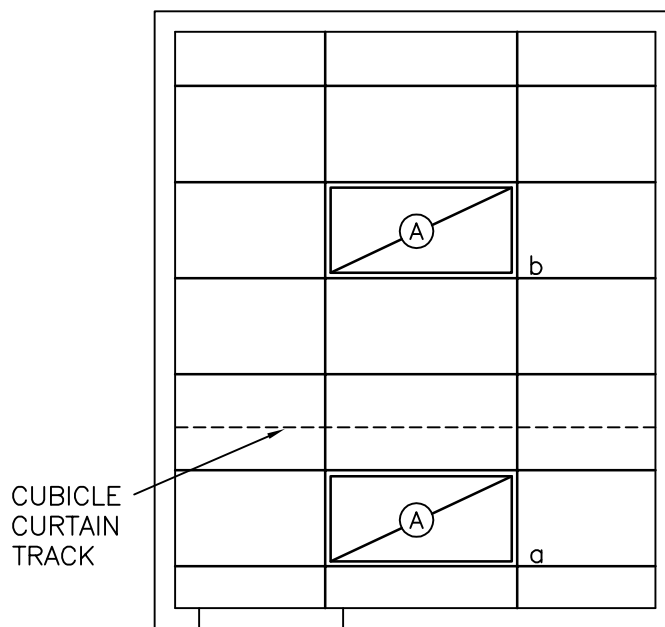
120 NSF/ 11.2 NSM

SCALE 1/4" = 1'-0"



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Audiology: Office / Therapy Room (EXOS1)  
Reflected Ceiling Plan



120 NSF/ 12.1 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

Audiology: Office / Therapy Room (EXOS1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens w/ F32T8 lamps 3500°K, CRI=75 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fluorescent nurse call light with 13 W lamp.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> <li>2) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

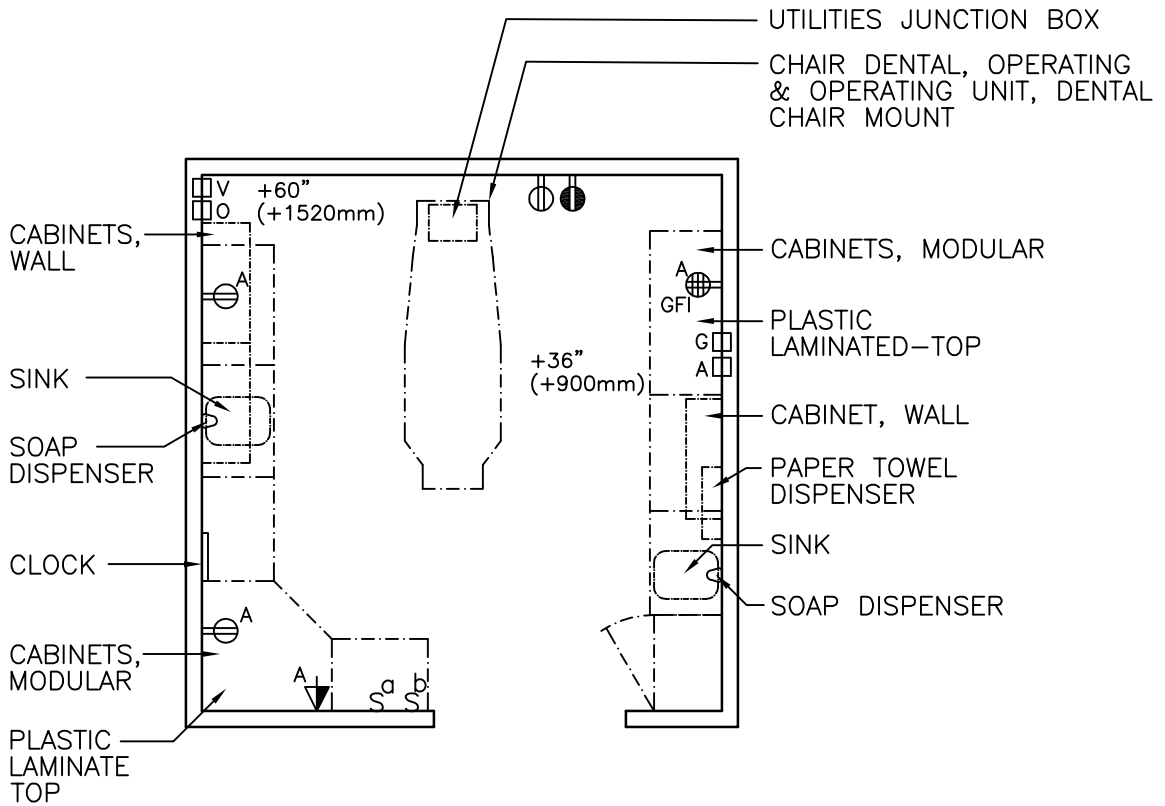


Audiology: Office / Therapy Room (EXOS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5160	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5180		AR	CC	Curtain, cubicle
F3010 or F3025		1	CC	Bulletin board, 48" x 36" (1200 mm x 900 mm)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips
A5145		2	VV	Hook, coat, wall mounted
M1801		1	VV	Desktop PC with keyboard
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
F0340		1	VV	Stool, examining, adjustable
M4200		1	VV	Ophthalmoscope, wall hung
M4299		1	VV	Otoscope, wall hung
M4100		1	VV	Sphygmomanometer, wall hung
X3930		AR	VV	Illuminator, x-ray film, 120 volt, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
M7401		AR	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
F0210		2	VV	Chair, straight, without arms
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Glove dispenser
A5106		1	VV	Sharps container, wall mounted

Dental: General Treatment Operator (DNTG1)  
 Floor Plan



120 NSF/ 11.2 NSM (Shown above)

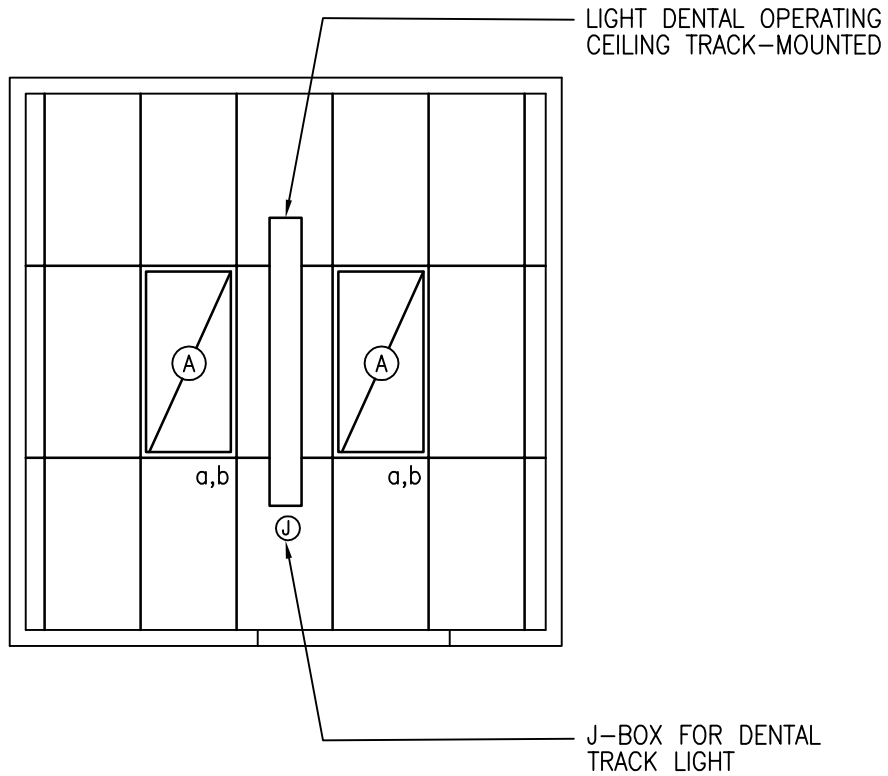
Combined Dental Hygiene Operator (DNTG1) 150 NSF / 13.9 NSM

SCALE 1/4" = 1'-0"



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.

# Dental: General Treatment Operatory (DNTG1) Reflected Ceiling Plan



120 NSF/11.2 NSM (Shown above)  
Combined Dental Hygiene Operatory (DNTG1) 150NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Dental: General Treatment Operatory (DNTG1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

Dental Utility Junction Box

**LIGHTING**

General:	--
Special:	Ceiling Track Light
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps 5000°K, CRI=85 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Fixture description for alternate 150 NSF room is the same as described in Note 1 above. Orient two fixtures for 150 NSF room in the same manner as shown for the 120 NSF room. Increase fixture wattage for 150 NSF room by approximately 27% over wattage for 120 NSF room.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Special:	--
Note:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	<ol style="list-style-type: none"> <li>1) High volume oral evacuation dental air.</li> <li>2) Dental Compressed Air</li> <li>3) Natural Gas</li> </ol>

Dental: General Treatment Operatory (DNTG1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
D7090		AR	CC	Utility outlets for chair mounted dental operating unit: water; waste; compressed air; high volume remote oral evacuation system and 120 volt, electrical; according to junction box template (piping for HVE according to specs) (PG-18-1, MCS 22 61 13.74, 22 62 19.74, 26 27 26; PG-18-10, Plumbing Design Manual)
		1	CC	Standard, mountings for ceiling track lights with separate electric junction box above ceiling track, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
A5075		2	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
		1	CC	Outlet, oxygen, wall mounted, left wall, 60" (1520 mm) above finished floor and 18" (450 mm) back from foot wall (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted, left wall, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 62 00)
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, right angle needle valve, natural gas, on right wall 36" (900 mm) above finished floor and 90" (2250 mm) from head wall (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, right angle needle valve, dental compressed air, on right wall, 36" (900 mm) above finished floor and 86" (2150 mm) from head wall (PG-18-1, MCS 22 61 13.74)
A1010		AR	CC	Outlet, telephone/data, provides intercom between suite rooms, wall mounted (PG-18-1, MCS 27 15 00)
		AR	VC	Utilities junction box template (according to dental operating unit manufacturer's design)
D6050		1	VC	Light, dental operating, ceiling track mounted (track to be mounted mid-way between right and left walls with headend of track separated, 96" (2400 mm) from foot wall)
D8250		1	VV	Operating unit, dental, chair mounted
		1	VV	Utilities junction box floor surface mounted (mid-line located 84" (2100 mm) to left of right wall and 12" (300 mm) back from foot wall) (see general notes)
D3320		1	VV	Chair, dental, operating, motor driven
D9960		AR	VV	Cabinet, wall, plastic laminate, sliding laminate doors for eye level storage (according to VHA design layout)
		AR	VV	Cabinets, modular with storage spaces, drawers, extended tops and sink with both foot and wrist blade controls (according to VHA design layout)

**Dental: General Treatment Operatory (DNTG1) – Cont'd**

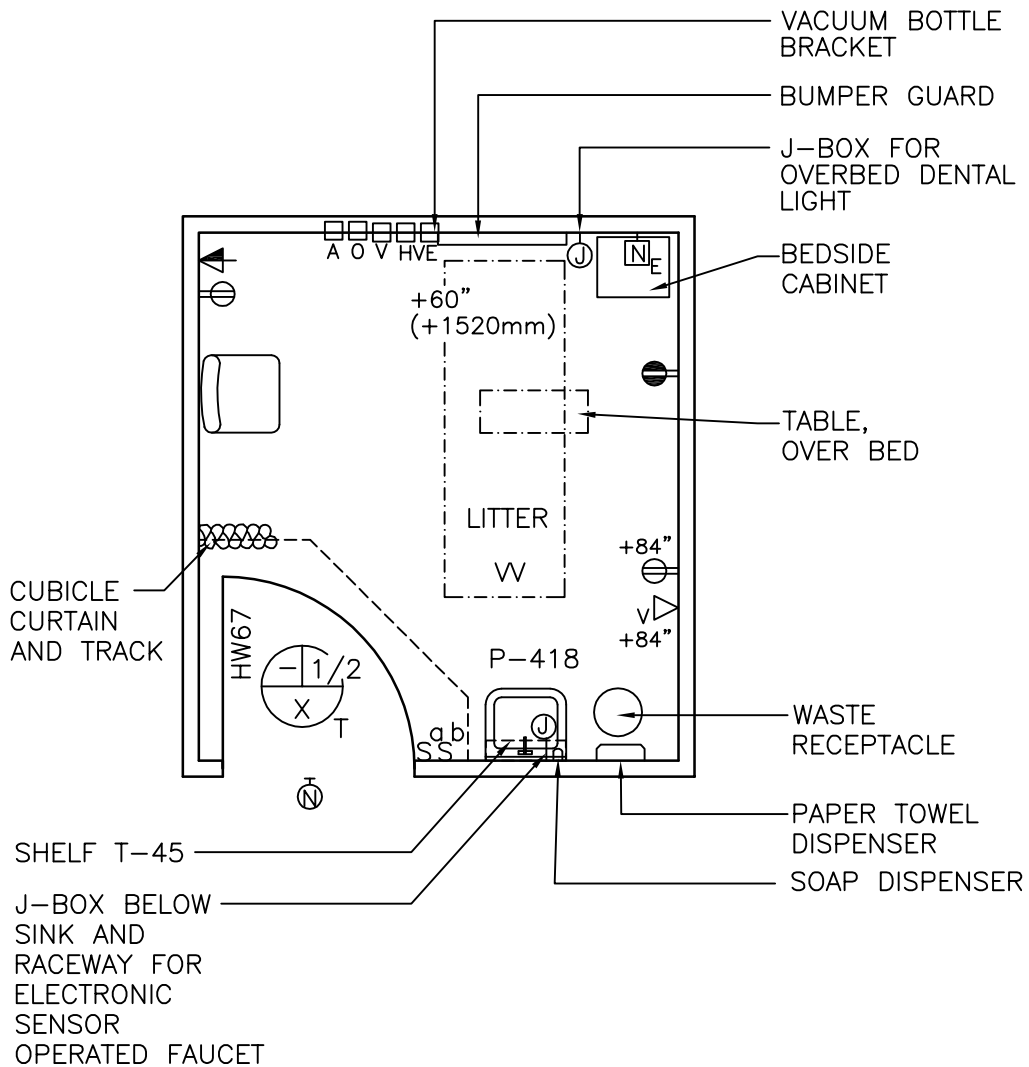
**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
D9941		AR	VV	Counter, plastic laminate, preformed with molded, 4" (100 mm) splash back and water fall front, over cabinets (see general notes)
A5080		1	VV	Dispenser, paper towel, surface mounted
M0755		1	VV	Flow meter, oxygen outlet, left wall, 60" (1520 mm) above finished floor and 18" (450 mm) back from foot wall
		1	VV	Collecting bottle and controls for vacuum outlet
F3200		1	VV	Clock, atomic, battery operated
				The following items are for optional selection by VHA when room is to be used for endodontics:
X6600		AR	VV	X-ray unit, Dental, 50-100 KVP, 120 volt (ceiling mounted)
		AR	VV	Mounting for ceiling mounted x-ray unit (according to x-ray manufacturer's installation specifications)
		1	VV	Shield, mobile, leaded, protective, for x-ray operator

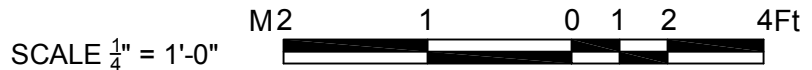


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Dental: Oral Surgery Recovery Room (DNTR1)  
 Floor Plan



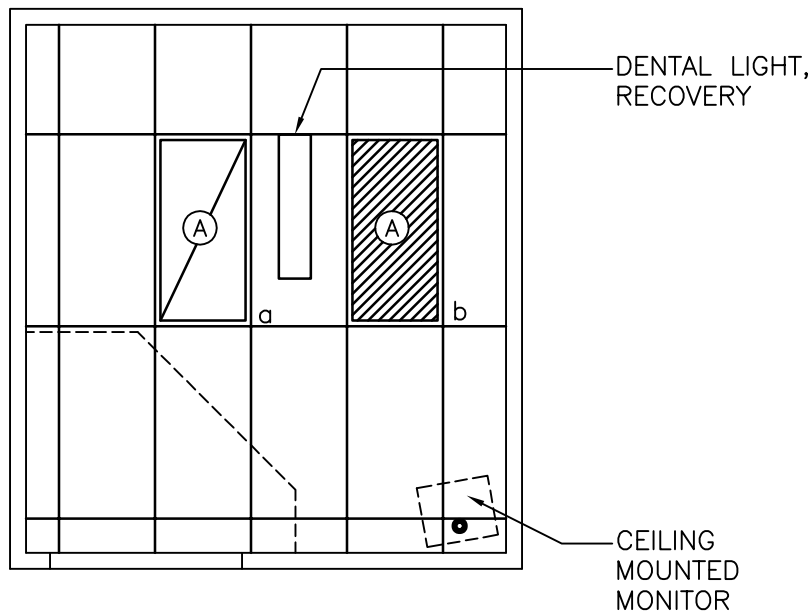
110 NSF/ 10.2 NSM



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.



Dental: Oral Surgery Recovery Room (DNTR1)  
Reflected Ceiling Plan



110 NSF/ 10.2 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Dental: Oral Surgery Recovery Room (DNTR1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P/GWB-W on gypsum wallboard
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

Ceiling Mounted Monitor

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 5000°K, CRI=85 (minimum). Lamps shall be deluxe color improved type.</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	8
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

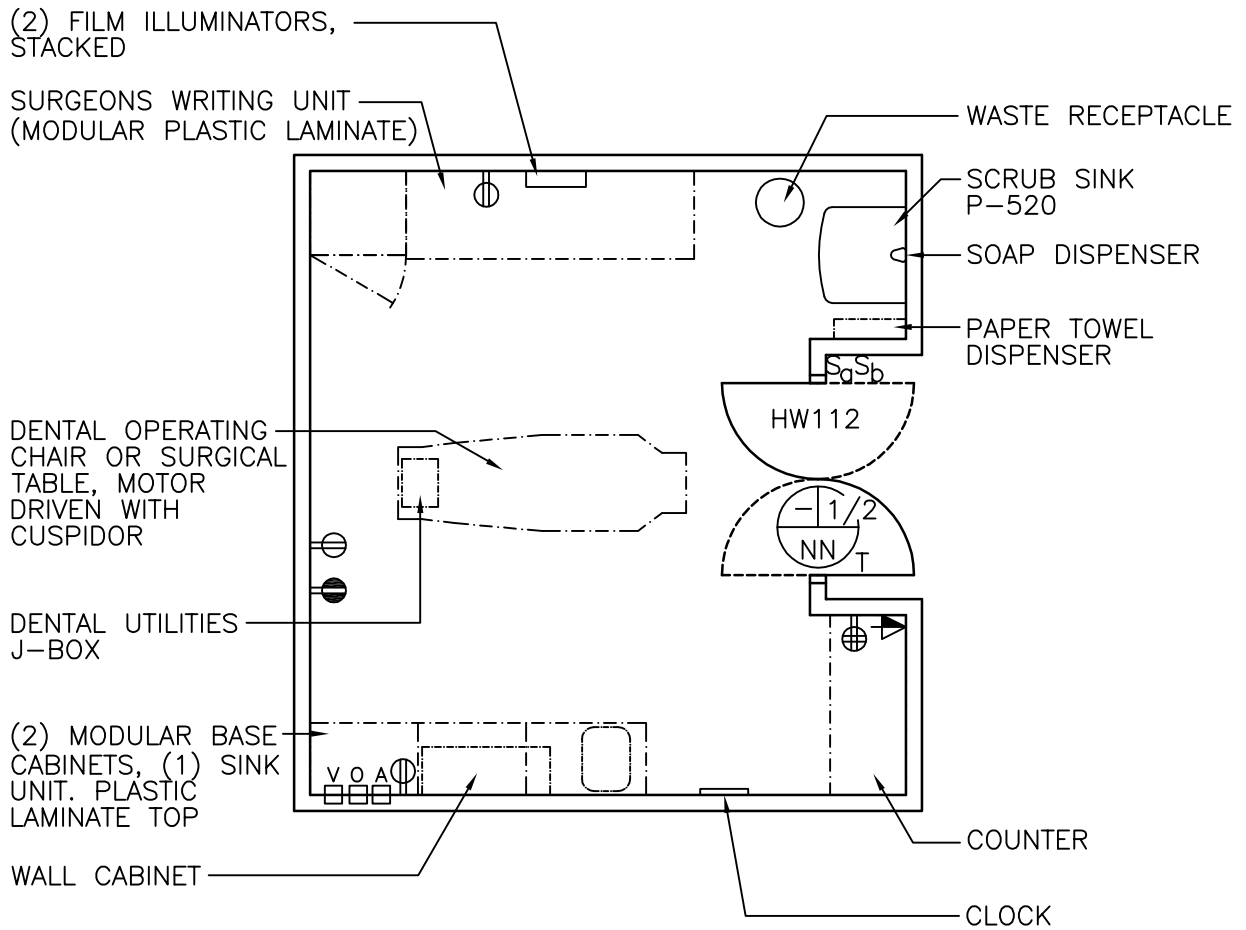
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

Dental: Oral Surgery Recovery Room (DNTR1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Outlet, oxygen, wall mounted, 60" (1520 mm) above finished floor in mid-line of short wall farthest from door (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 62 00)
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, oxygen, wall mounted, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 63 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, wall, high volume remote oral evacuation system, 60" (1520 mm) above finished floor and adjacent to vacuum outlet (PG-18-1, MCS 22 62 19.74)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5165	T-45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
A6010		1	CC	Bumper guard, 2" D (50 mm D) deep, wall mounted off the floor behind head of bed (avoid return air grill) (PG-18-1, MCS 10 26 00)
		1	CC	Receptacle, electrical, ceiling mounted, 120 volt, for ceiling mounted monitor (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1 MCS 26 27 26)
		1	CC	Nurse, call station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
M7435		1	CC	Overbed, fully enclosed patient room light. Unit is designed to be wired directly to j-box in wall.
A1010		AR	CC	Outlet, telephone/data, provides intercom between suite rooms, wall mounted (PG-18-1, MCS 27 15 00)
M0750 & M0755		1	VV	Flow meter, oxygen outlet
F2017		1	VV	Receptacle, waste, approx. 12" (300 mm) diameter
		1	VV	Collecting bottle and controls for vacuum outlet
M4665		AR	VV	Hydraulic, adjustable height, mobile, combination surgical table-recovery type litter with removable side rails (litter width)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5180		AR	VV	Curtain, cubicle
F0210		AR	VV	Chair, straight, without arms
F0400		1	VV	Cabinet, bed side
M7845		1	VV	Monitor, ceiling mounted
M7040		1	VV	Table over bed, adjustable height, 33" W x 14" D (825 mm W x 350 mm D) on casters

Dental: Oral Surgery Room (DNTS1)  
 Floor Plan



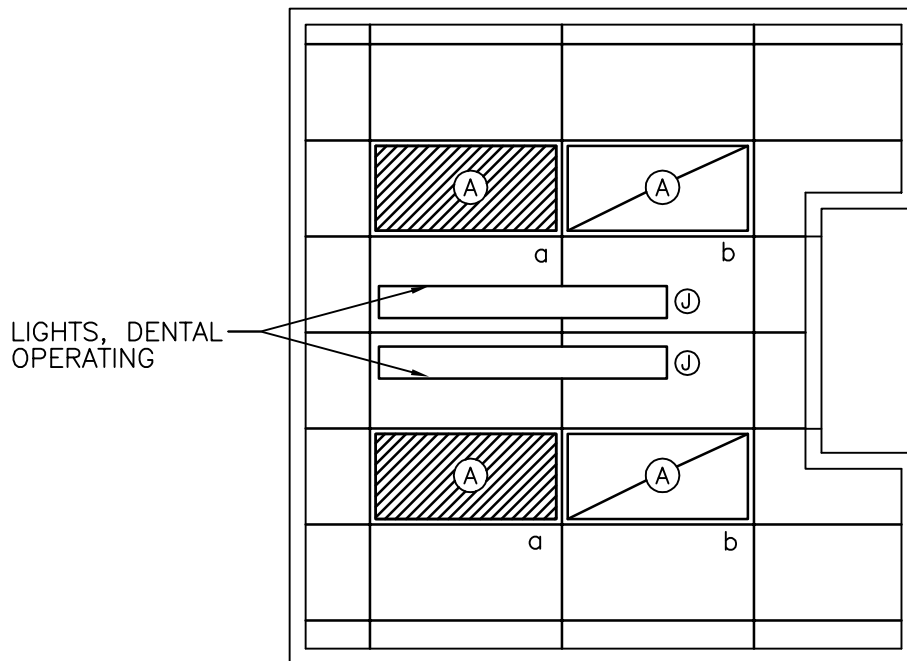
150 NSF/ 13.9 NSM

SCALE 1/4" = 1'-0"



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.

Dental: Oral Surgery Room (DNTS1)  
Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Dental: Oral Surgery Room (DNST51)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	--
Wainscot:	--
Base:	WSF, 6" integral cove
Floor Finish:	SV
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	Dental Utility Junction Box
Notes:	1) Coordinate location and size of junction box with dental operating chair.

**LIGHTING**

General:	--
Special:	Two (2) ceiling mounted Dental operating lights.
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic, prismatic lens, w/ F32T8 lamps, 5000°K (minimum), CRI=85 (minimum). 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	8
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	1) High volume oral evacuation, dental air.

Dental: Oral Surgery Room (DNST1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Note: Install double doors, 24" (600 mm) wide each, self closing, double acting, plastic laminate surface with restricted eye level glass panels, 16" x 16" (400 mm x 400 mm), 90 degree hold open capability in either direction (substitute steel doors)
P6980	P-520	1	CC	Sink, surgeons, scrub-up, sensor control (PG-18-1, MCS 22 40 00)
		AR	CC	Dispenser, soap, with foot control, wall mounted over sink (PG-18-1, MCS 10 28 00)
		2	CC	Standard, mounting for ceiling track lights with separate electric junction box above ceiling track, 120 volt (PG-18-1, MCS 26 27 26)
X3930		2	CC	Illuminator, film x-ray, recessed, 120 volt, 14" x 17" (350 mm x 425 mm) (PG-18-1, MCS 26 51 00)
				Note: Provide 2 x-ray film illuminators installed one above the other in right wall, standing height and seated height over 32" (800 mm) height desk unit, center approx. 80" (2000 mm) from head wall.
		1	CC	Outlet, oxygen, wall mounted, left wall, 60" (1520 mm) above finished floor and 13" (325 mm) from foot wall (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted, left wall, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 22 62 00)
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, wall, dental compressed air, left wall, 60" (1520 mm) above finished floor and adjacent to oxygen outlet (PG-18-1, MCS 13 17 23)
		1	CC	Utility outlets for oral surgery chair; water; waste; compressed air; high volume remote oral evacuation system and 120 volt, electrical; according to junction box template (PG-18-1, MCS 22 61 13.74, 22 62 19.74, 26 27 26; PG-18-10, Plumbing Design Manual)
A1010		AR	CC	Outlet, telephone/data, provides intercom between dental suite rooms, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
D6050		2	VC	Lights, dental operating, single ceiling track mounted (to be installed parallel to each other and separated, 12" to 18" (300 mm to 450 mm) apart on both sides of mid-line of room and with headend of tracks, 96" (2400 mm) back from foot wall)
		1	VC	Utilities junction box template (according to dental operating unit manufacturer's design)
E0210		AR	VV	Cabinets, modular with storage spaces, drawers, extended tops and sink with both foot and wrist blade controls

**Dental: Oral Surgery Room (DNST1) – Cont'd**

**Equipment List**

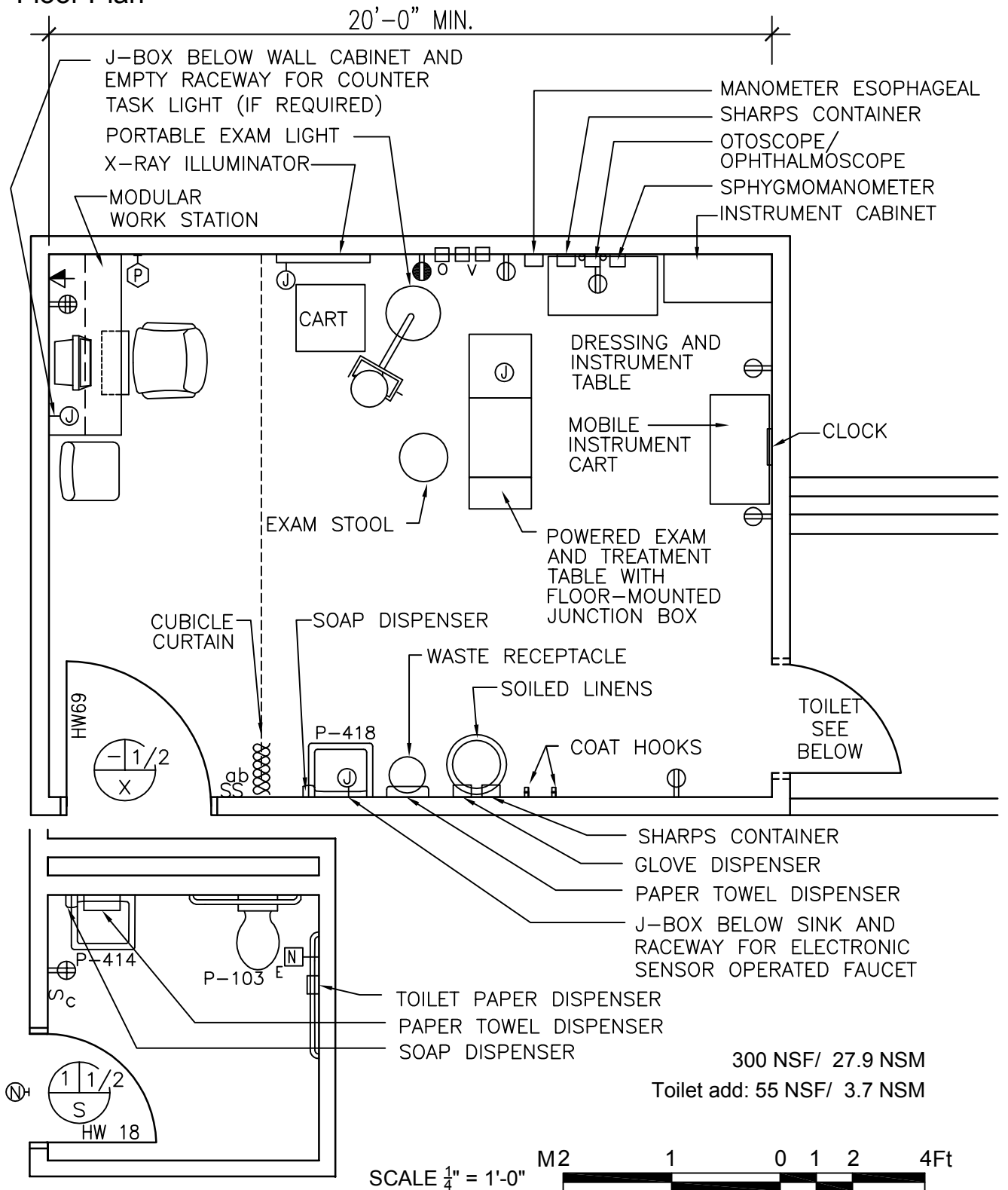
<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
CT030		AR	VV	Counter, plastic laminate, preformed with molded, 4" (100 mm) splash back and water fall front, over cabinets
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type approx. 12" (300 mm) diameter
M0750 or M0755		1	VV	Flow meter, oxygen
		1	VV	Collecting bottle and controls for vacuum outlet
		1	VV	Utilities junction box, floor surface mounted (mid-line located, 96" (2400 mm) to left of right wall and 12" (300 mm) back from foot wall) (see Note in Special Equipment Designs Standards section)
D3320		1	VV	Chair, dental, operating or surgical chair-table, motor driven
F3200		1	VV	Clock, atomic, battery operated



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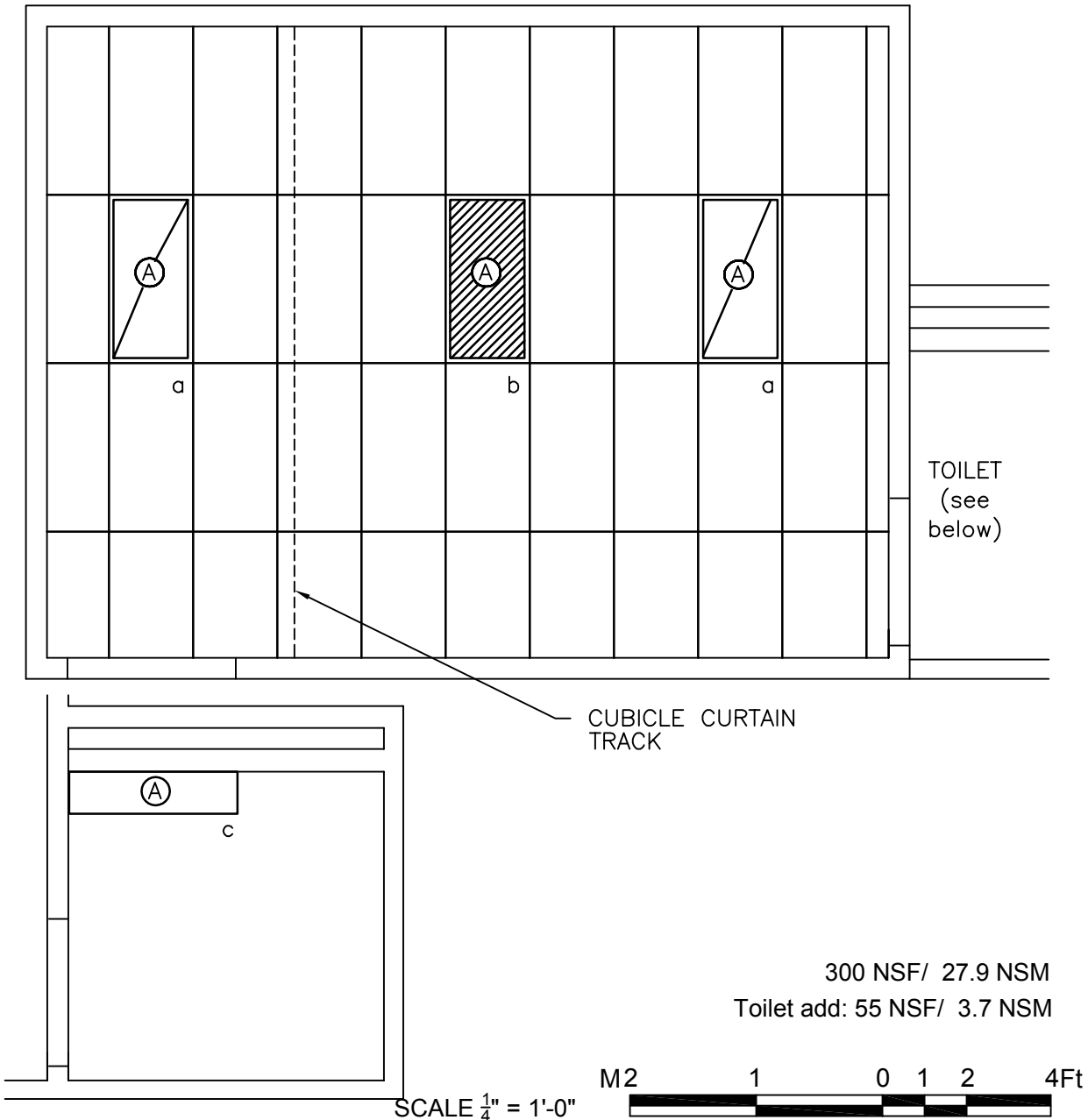
Endoscopy: EGD Procedure Room (TREE1)

Floor Plan



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.

Endoscopy: EGD Procedure Room (TREE1)  
 Reflected Ceiling Plan



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Endoscopy: EGD Procedure Room (TREE1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	CT 48" (1200 mm) in Toilet Room
Base:	RSF 6" (150 mm) integral cove CT in Toilet Room
Floor Finish:	RSF CT in Toilet Room
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Medic cart; x-ray illuminator, exam and treatment table shall be on emergency power.</li> <li>2) Provide dedicated receptacle circuit for exam table.</li> <li>3) Coordinate location and height of work station receptacles with modular furniture.</li> <li>4) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	8
100% Exhaust:	Yes, from Procedure Room and Toilet
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

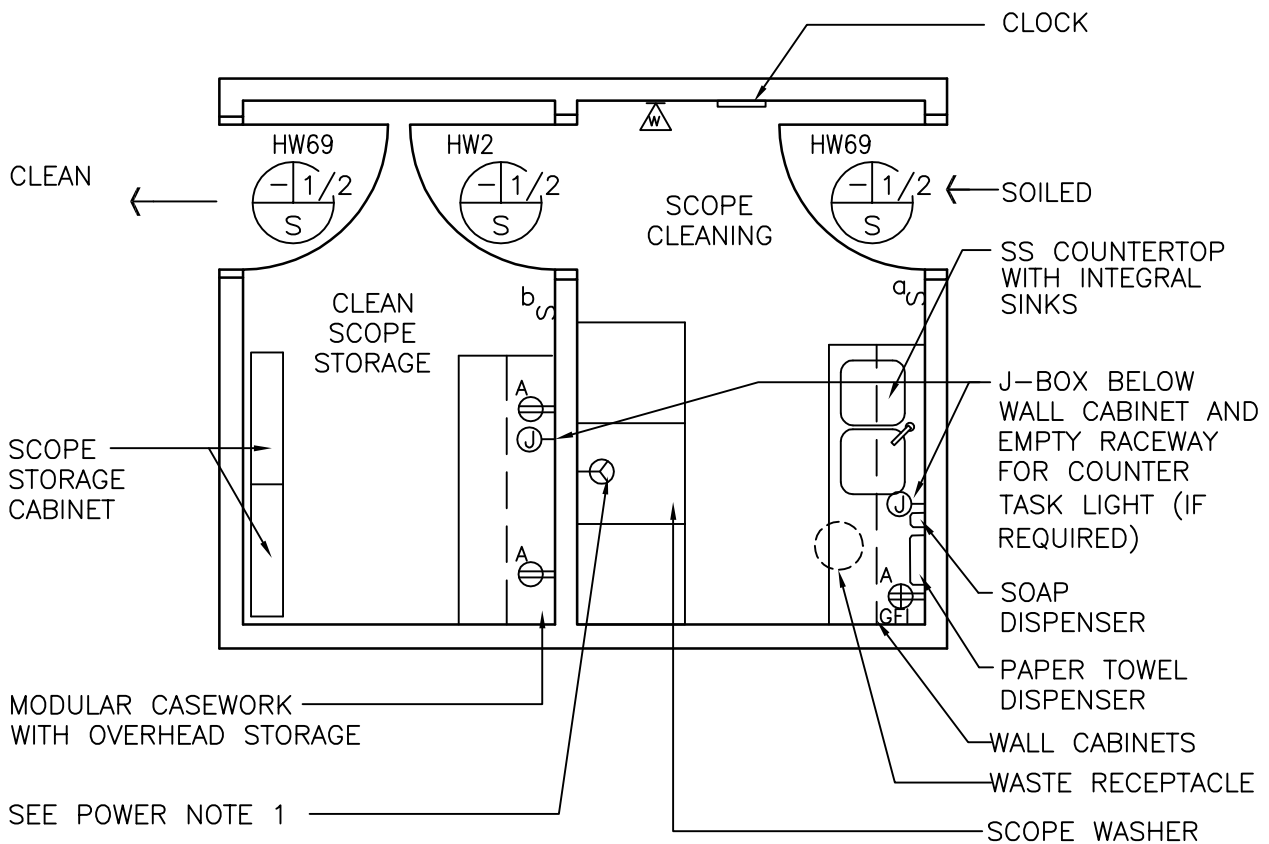
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

Endoscopy: EGD Procedure Room (TREE1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1; MCS 26 27 26)
		1	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1; MCS 26 27 26)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical vacuum, wall mounted (PG-18-1, MCS 22 62 00)
P9150	P-103	1	CC	Water closet, wall hung (PG-18-1, MCS 22 40 00)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A5200		1	CC	Dispenser, toilet tissue, double roll (PG-18-1, MCS 10 28 00)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
E0957		1	VV	Cart, medication, with IV pole
M8830		AR	VV	Cart, mobile, instrument, 36" x 20" (900 mm x 500 mm)
F0205		1	VV	Chair, rotary, with arms
F0210		AR	VV	Chair, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system, with keyboard
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		2	VV	Dispenser, paper towel, surface mounted
A5075		2	VV	Dispenser, soap, liquid, wall mounted
M3070		AR	VV	Hamper, soiled linen, with hinged self closing top 20" (500 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volts, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
M7401		AR	VV	Light, examining, portable, 120 volts, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
		1	VV	Manometer, esophageal, with recorder
M4200		1	VV	Ophthalmoscope, wall hung
M4200		1	VV	Otoscope, wall hung
F2017		1	VV	Receptacle, waste, step-on type, approx. 12" (300 mm) diameter
M4100		1	VV	Sphygmomanometer, wall hung
F0340		1	VV	Stool, examining, adjustable
M8820		1	VV	Table, instrument, dressing, corrosion resisting steel, 20" W x 36" L x 35" H (500 mm W x 900 mm L x 875 mm H)
M9066		1	VV	Table, examining and treatment, motorized
A5106		1	VV	Sharps container
A5106		1	VV	Glove dispenser
A5180		1	VV	Curtain, cubicle

Endoscopy: Scope Cleaning/ Clean Storage (USCL2)  
 Floor Plan



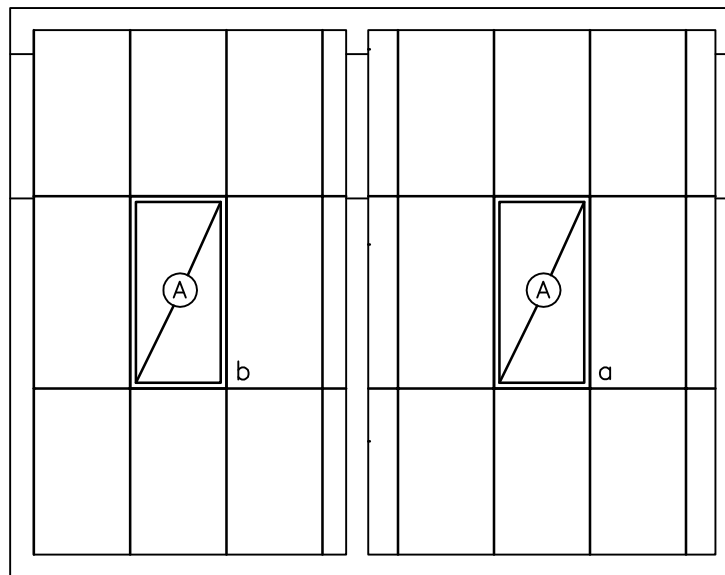
150 NSF/ 14 NSM



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Endoscopy: Scope Cleaning/ Clean Storage (USCL2)

Reflected Ceiling Plan



150 NSF/ 14 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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Endoscopy: Scope Cleaning/Clean Storage (USCL2)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB (SC)
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Cove
Floor Finish:	RSF
Slab Depression:	--
Sound Protection:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture with acrylic prismatic lens w/ T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Special wiring device for scope washer. Coordinate with manufacturer.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6 (Each Space)
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-) Scope Cleaning Positive (+) Clean Storage
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



Endoscopy: Scope Cleaning/Clean Storage (USCL2)

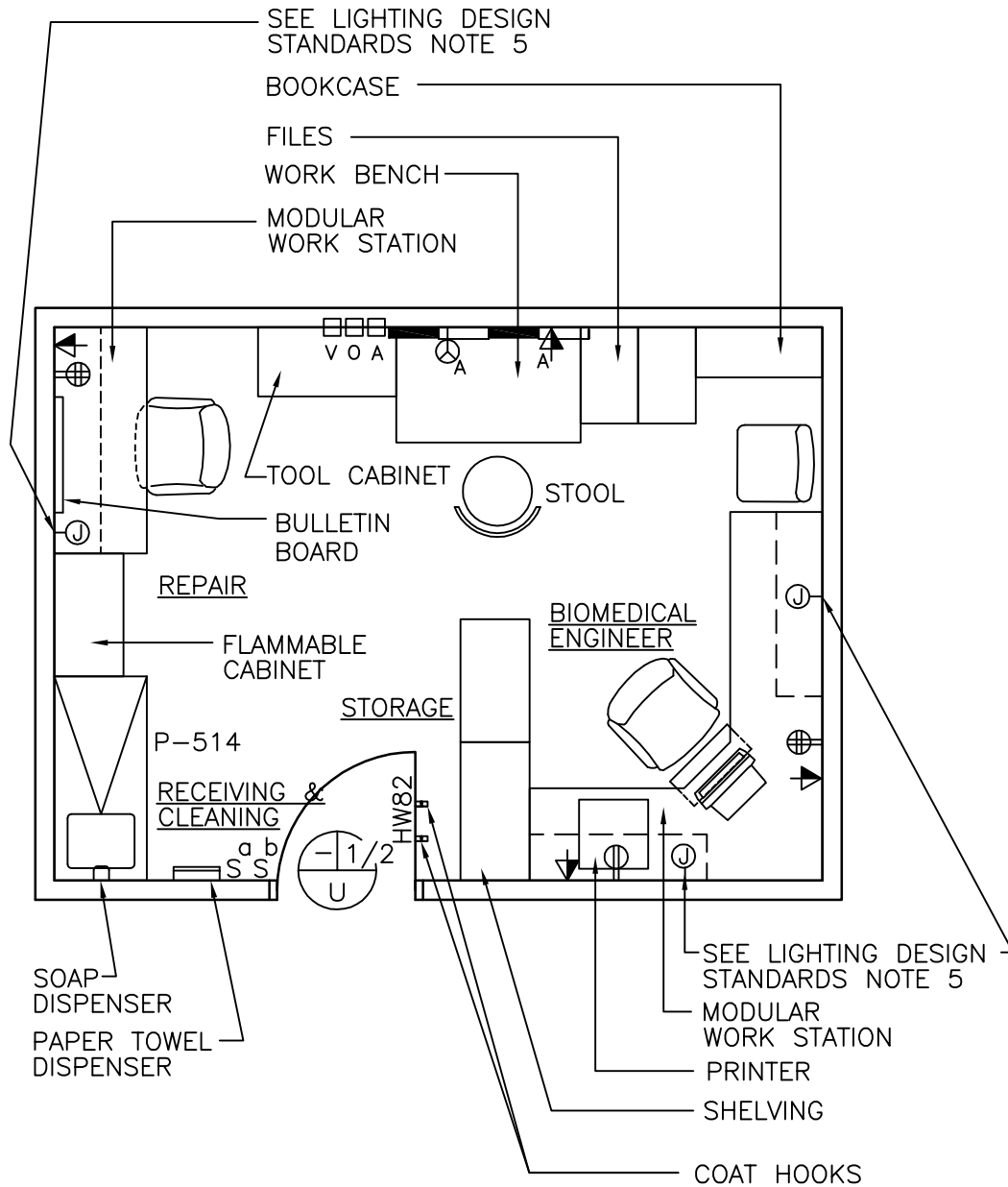
Equipment List

SCOPE CLEANING				
JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 and 12 36 00)
CS230		1	CC	Sink, double bowl, self rimming, CRS (PG-18-1, MCS 12 36 00)
		1	CC	Power supply receptacle, scope washer (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle waste, step on type, approx. 12" (300 mm) diameter
S2627		AR	VV	Washer, scope

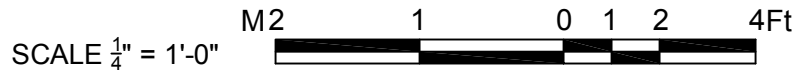
CLEAN STORAGE				
JSN	SYMBOL	QTY	AI	DESCRIPTION
CT030		AR	CC	Modular casework with overhead storage and wall hanger strips (PG-18-1, MCS 12 34 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
E0918		AR	VV	Cabinet, scope storage



Engineering: Biomedical Engineering Repair Shop (BMER1)  
 Floor Plan

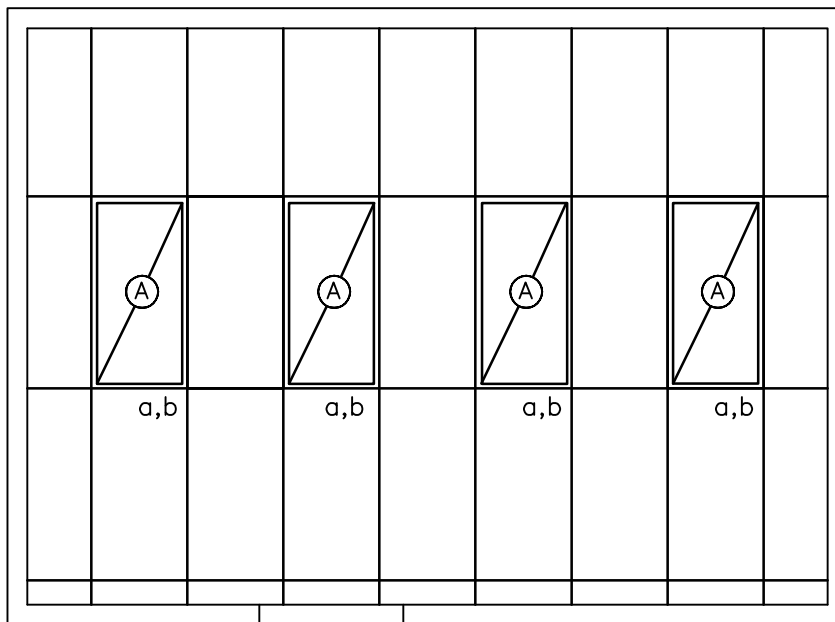


200 NSF/ 18.6 NSM



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Engineering: Biomedical Engineering Repair Shop (BMER1)  
Reflected Ceiling Plan



200 NSF/ 18.6 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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Engineering: Biomedical Engineering Repair Shop (BMER1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB lay-in ceiling panels in grid
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Bench:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) J-box below wall cabinet and empty raceway for counter task light (if required).</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Provide hood with exhaust where repair work involves use of Mercury, Xylene and other toxic chemicals.</li> <li>2) Provide flammable cabinet exhaust system where required under OSHA Standards.</li> </ol>

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air (Oil free utility air):	Yes
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	<ol style="list-style-type: none"> <li>1) Provide all gases that are in the facility</li> </ol>

Engineering: Biomedical Engineering Repair Shop (BMER1)

Equipment List

<b>BIOMEDICAL ENGINEER</b>				
<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
F0210		1	VV	Chair, straight, without arms
F0205		1	VV	Chair, rotary, with arms
F0405		AR	VV	Cabinet, filing, 5 drawer, approx. 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5145		2	VV	Hook, coat
M1801 & M1825		1	VV	Computer and printer

<b>RECEIVING &amp; CLEANING</b>				
<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
	P-514	1	CC	Sink, corrosion resisting steel, single compartment with drainboard, wall hung, elbow controls (PG-18-1, MCS 22 40 00)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted

<b>REPAIR</b>				
<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, 208 volt, 1 phase (PG-18-1, MCS 26 27 26)
		AR	CC	Electrical, surface mounted, multi-outlet, raceway assembly, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		AR	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0205		1	VV	Chair, rotary with arms
F3010 or F3025		1	VV	Bulletin board, approx. 36" x 36" (900 mm x 900 mm)
		1	VV	Workbench, wood top, 48" (1200 mm) x length as required x 30" (750 mm)
		1	VV	Stool with back adjustable height, without arms

## Engineering: Biomedical Engineering Repair Shop (BMER1) – Cont'd

### Equipment List

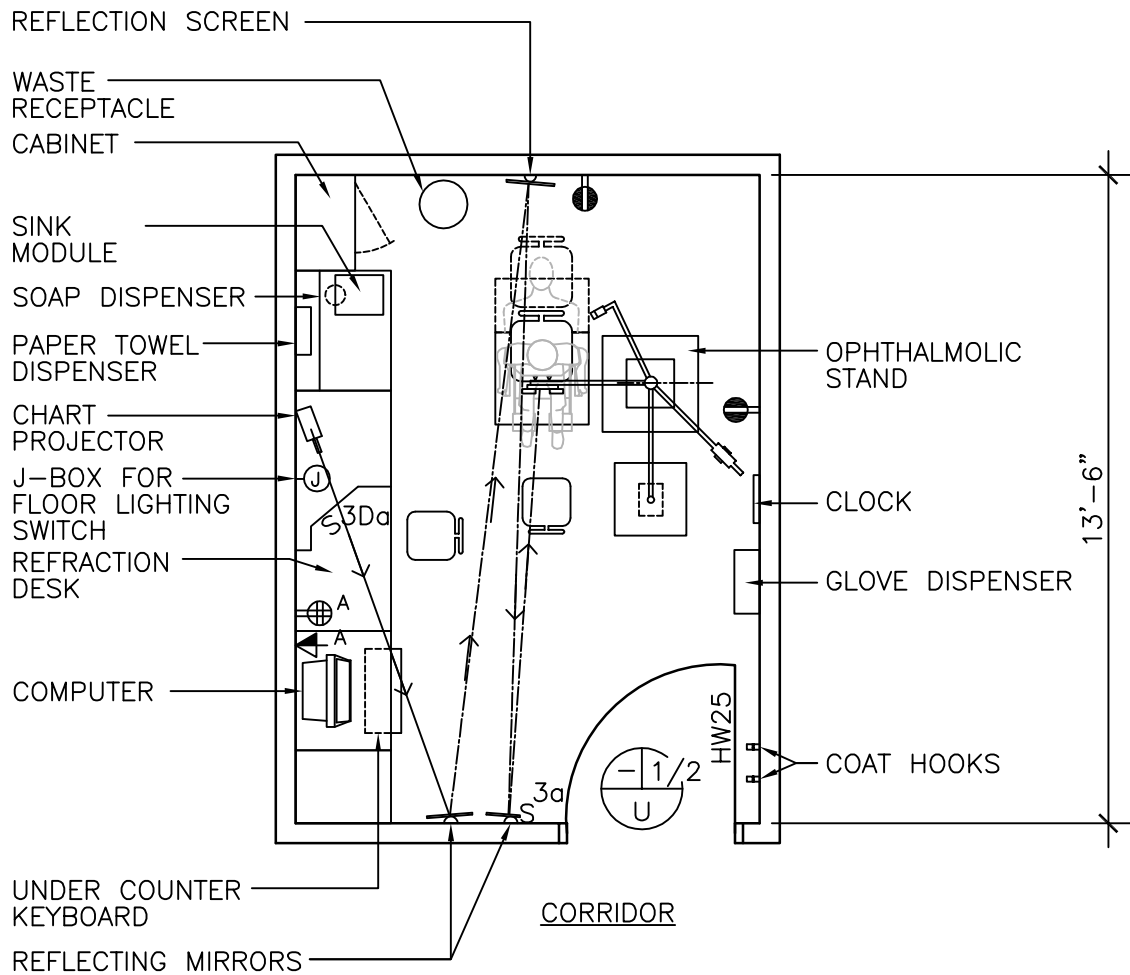
<b>STORAGE</b>				
<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
M2055		AR	CC	Shelving, floor standing, steel, with adjustable shelves, 36" W x 18" D x 84" H (900 mm W x 450 mm D x 2100 mm H) (PG-18-1, MCS 12 31 00)
		AR	VV	Cabinet, safety storage, flammable liquids, approx. 32" x 32" (800 mm x 800 mm)
		AR	VV	Cabinet, tool storage, heavy duty, 4 shelves, 2 doors with lock, 36" x 18" x 84" (900 mm x 450 mm x 2100 mm)
F0120		AR	VV	Bookshelving, storage
F0405		AR	VV	Cabinet, filing, 5 drawer, approx. 15" W x 25" D x 60" H (380 mm W x 635 mm D x 1520 mm H)



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Eye Clinic: Eye Examination/Treatment Room (TREY1)

Floor Plan



130 NSF/ 12 NSM

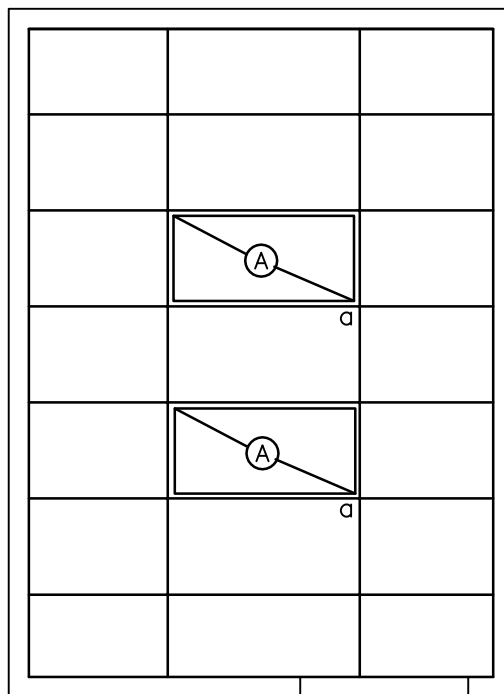
SCALE  $\frac{1}{4}'' = 1'-0''$



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Eye Clinic: Eye Examination/Treatment Room (TREY1)  
Reflected Ceiling Plan



130 NSF/ 12 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Eye Clinic: Eye Examination/Treatment Room (TREY1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB lay-in ceiling panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--

- Notes:
- 1) General illumination dimmer controls include 3-way dimmer switch in refraction desk and 4-way dimmer foot switch on cord.
  - 2) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
  - 3) The foot-candle level is average maintained.
  - 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
  - 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes	1) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

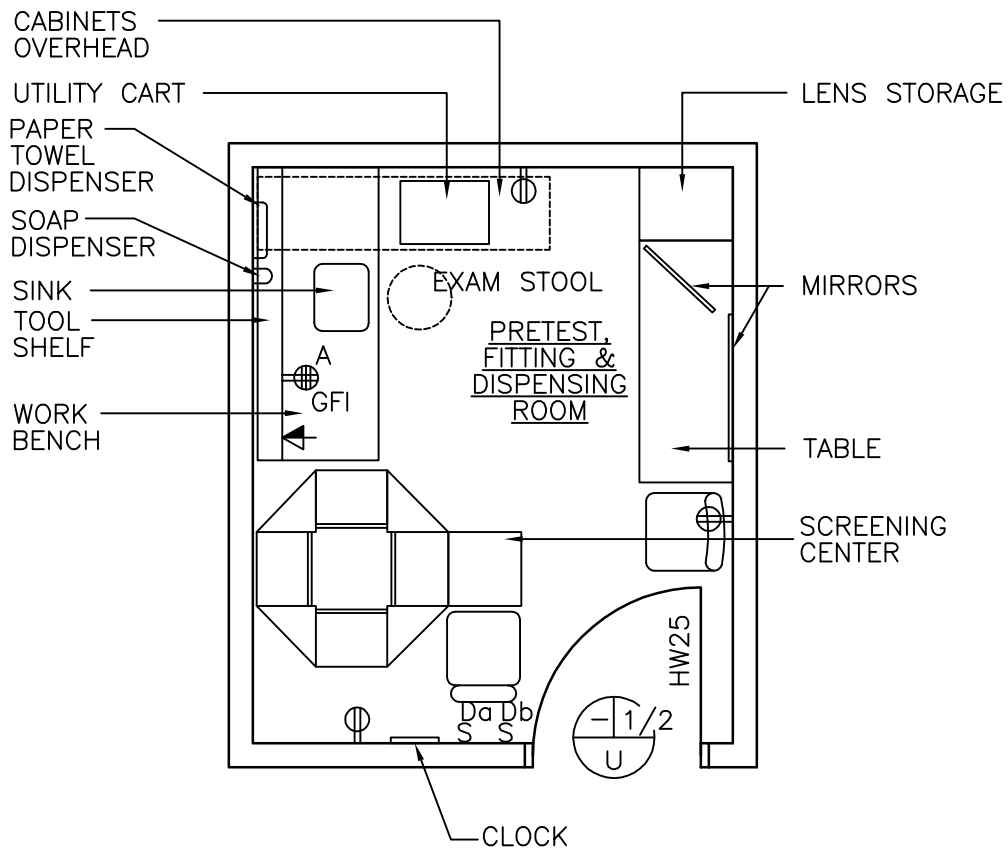
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Eye Clinic: Eye Examination/Treatment Room (TREY1)

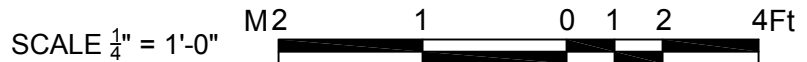
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Switch, dimmer control (Electrical and Telecommunication's Design Manual) Note: Provide dual point control for lights with dimmer switch on refraction desk and portable floor dimmer switch.
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
M5600		1	VV	Chair/table, patient, exam, fully powered, height adjusted with phorofter stand
M5730, M5600, M5530, M5545, M5520, M5535		1	VV	Stand, ophthalmic instrument stand with swinging and pivoting arms continuing: * Phorofter * Slit lamp * Keratometer * Lamp-top of ophthalmic column
M5016		1	VV	Desk, refraction, with retractable lens drawer and controls and dimmer controls, power wells contains ophthalmoscope, retinoscope and transilluminator. Desk is pre-manufactured.
M5560		1	VV	Chart, projector - top of the desk
		1	VV	Sink, module Note: May be included in M5016.
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
A5106		1	VV	Glove dispenser, wall mounted
CE040		1	VV	Cabinet, sloping top, glazed doors, 18" x 15" x 82" (450 mm x 380 mm x 1800 mm)
A5145		AR	VV	Hook, coat, wall mounted
M5710		AR	VV	Mirror, set - 2, reflecting, adjustable (special optometrist)
M5720		AR	VV	Screen, reflecting, adjustable (special optometrist)
M1802		1	VV	Table, computer equipment, 24" x 48" (600 mm x 1200 mm)
M1801		1	VV	PC, computer system, with keyboard
F0340		AR	VV	Chair, operator's without arms, swivel and adjustable heights
F3200		1	VV	Clock, atomic, battery operated
F2017		1	VV	Receptacle, waste, 12" (300 mm) diameter

Eye Clinic: Fitting & Dispensing Room (EYFD1)  
 Floor Plan

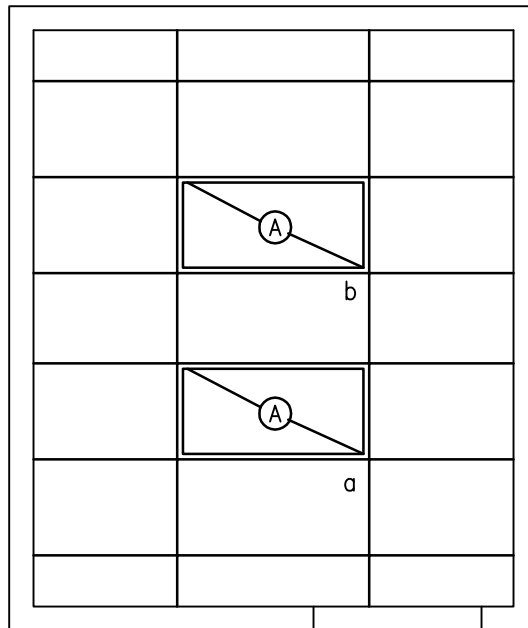


120 NSF/ 11.2 NSM



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Eye Clinic: Fitting & Dispensing Room (EYFD1)  
Reflected Ceiling Plan



120 NSF/ 11.2 NSM



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Eye Clinic: Fitting & Dispensing Room (EYFD1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB lay-in ceiling panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens on top and bottom, w/ F32T8 lamps, 3500° K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

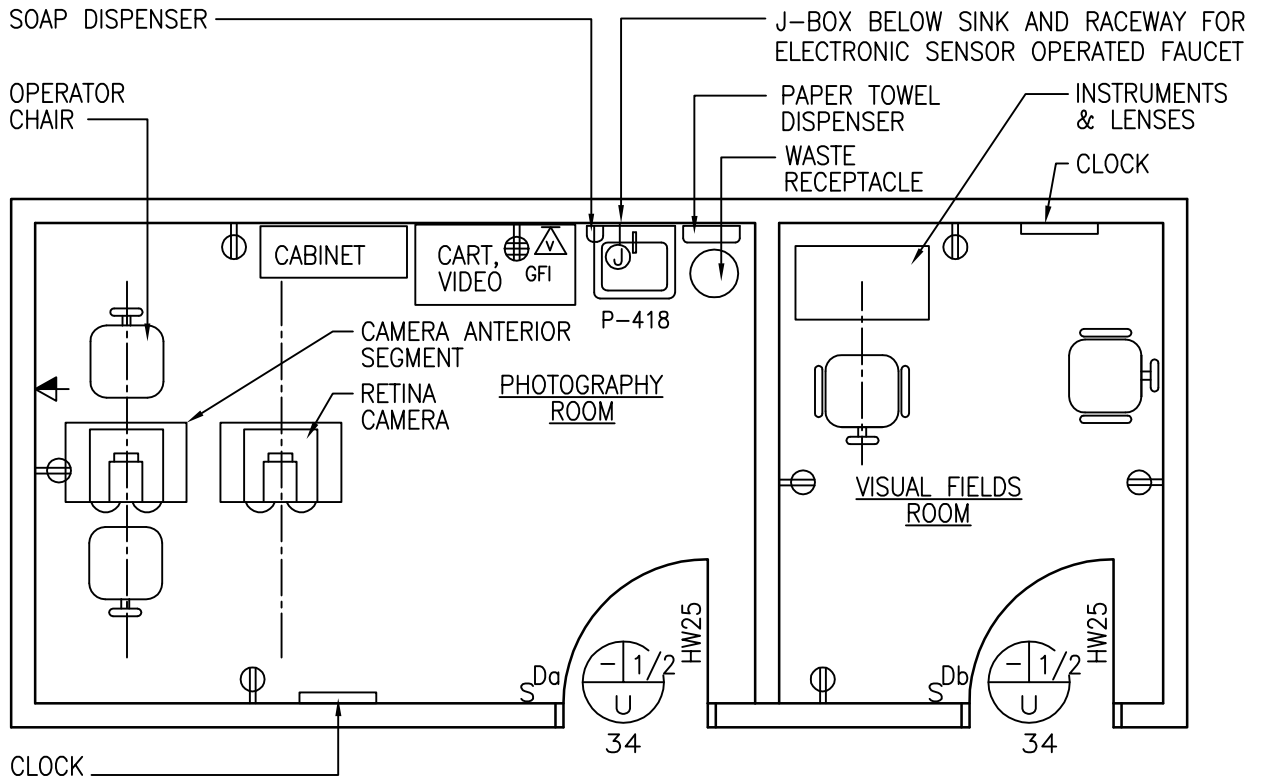
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Eye Clinic: Fitting & Dispensing Room (EYFD1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
A5025		1	CC	Bench, repair, 30" W x 96" L with 6" W (750 mm W x 2400 mm L with 150 mm W) tool shelf above, 6" (150 mm) deep drawers under and knee space (PG-18-1, MCS 12 31 00)
CS090		1	CC	Sink, stainless steel, built into counter, 18" x 14" x 8" (450 mm x 350 mm x 200 mm) (PG-18-1, MCS 12 36 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
M5016		1	VV	Screening center with table incorporating following instruments: <ul style="list-style-type: none"> <li>• Auto refractor</li> <li>• Auto lensometer</li> <li>• Auto tonometer</li> <li>• Auto biometry and keratometer</li> </ul> Note: This item may include an optional equipment stand/pole with one to three arms and the ability to accept a phoropter arm.
F0210		1	VV	Chair, patient, without arms
		1	VV	Display, glasses-frame, approx. 48" (1200 mm) long
M5010		1	VV	Table, knee space under, 60" x 24" (1520 mm x 600 mm)
A1066		AR	VV	Mirror
		1	VV	Cabinet, storage for contact lenses, 18" x 24" x 72" (450 mm x 600 mm x 1800 mm)
F0340		1	VV	Stool, operator's, swivel and adjustable heights
		2	VV	Cabinet, wall mounted, 30" (750 mm) wide
F0535		1	VV	Cart, utility, corrosion resisting steel, 36" x 18" x 30" (900 mm x 450 mm x 750 mm)
F3200		1	VV	Clock, atomic, battery operated
A5075		1	VV	Dispenser, soap, wall mounted
A5080		1	VV	Dispenser, paper towel, wall mounted

Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1)  
 Floor Plan



Photography Room 150 NSF/ 14 NSM

Visual Fields Room 80 NSF/ 7.4 NSM

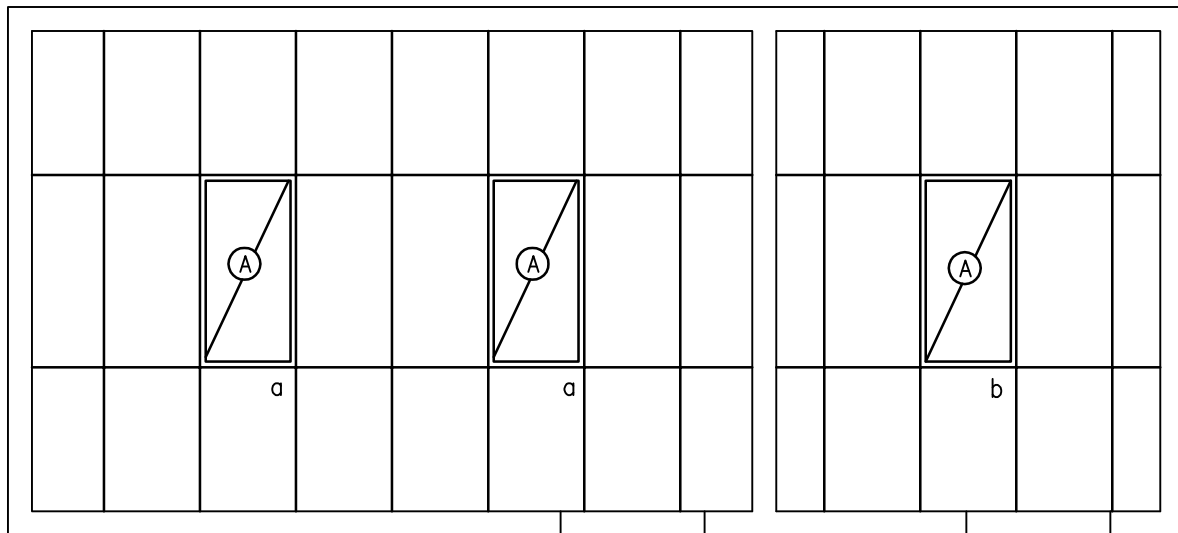
SCALE  $\frac{1}{4}'' = 1'-0''$



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Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1)  
 Reflected Ceiling Plan



Photography Room 150 NSF/ 14 NSM  
 Visual Fields Room 80 NSF/ 7.4 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB lay-in ceiling panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' X 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens on top and bottom, w/ F32T8 lamps, 3500° K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2 (Each)
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

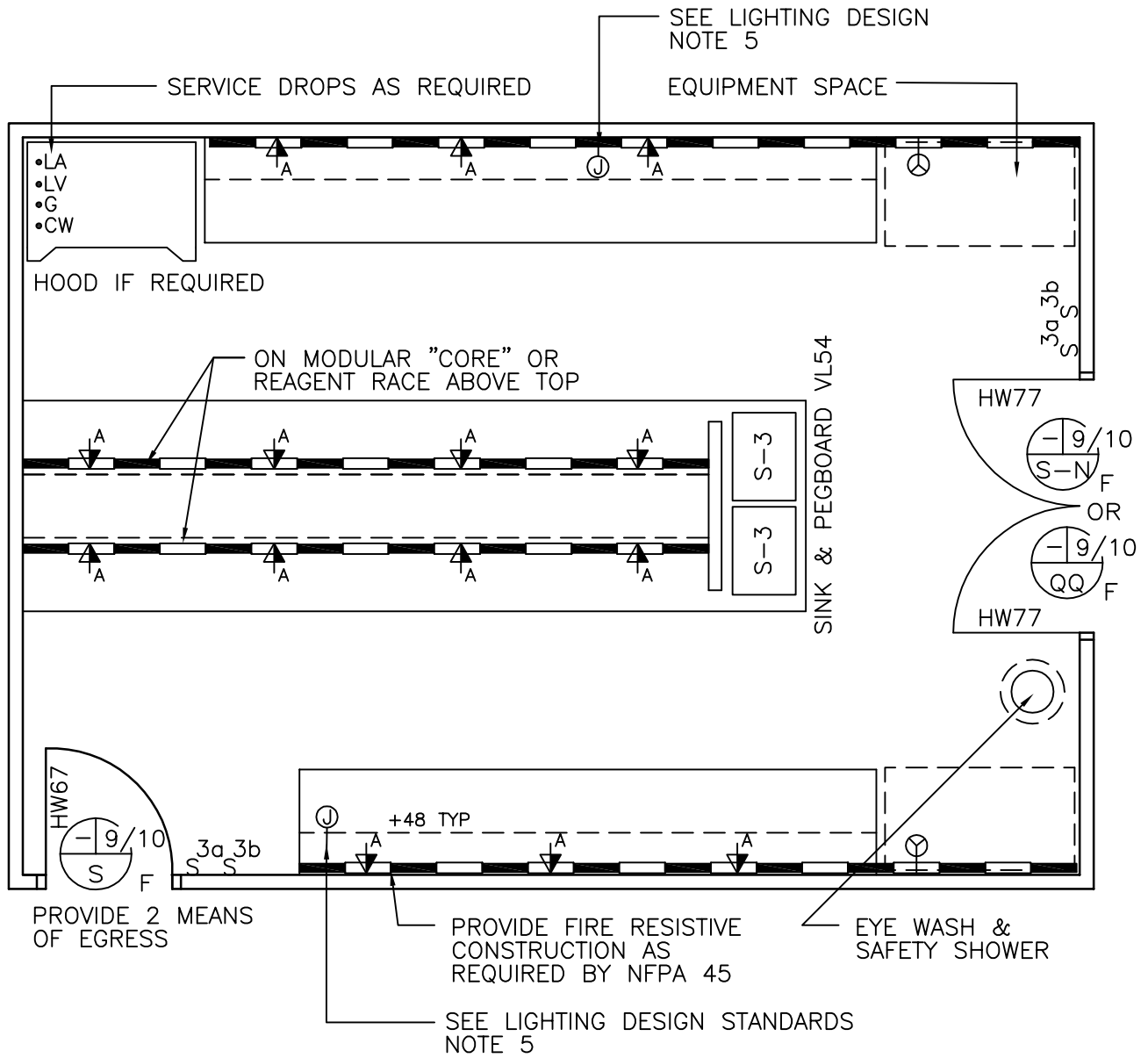
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Eye Clinic: Visual Fields Room (EYVF1) and Photography Room (EYFC1)  
 Equipment List

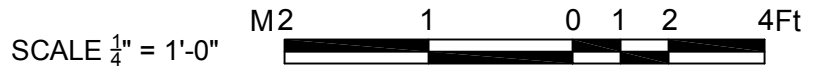
VISUAL FIELDS ROOM(S)				
JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		1	VV	Visual fields instrument(s)
M5700		1	VV	Lens set, trial, ophthalmic
		2	VV	Chair, with back support, adjustable heights, swivel and wheel brakes
F3200		1	VV	Clock, atomic, battery operated

PHOTOGRAPHY ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1; MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
M6050		1	VV	Camera retinal
		1	VV	Camera, anterior segment
		1	VV	Camera, hand held for external photos
M5030		2	VV	Chair, without arms, swivel and adjustable heights
CE040		1	VV	Cabinet, sloping top and glazed doors, 36" x 15" x 72" (900 mm x 380 mm x 1800 mm)
U1066		1	VV	Cart, video, 40" x 20" (1000 mm x 500 mm)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2000		1	VV	Receptacle, waste, 13" (325 mm) diameter
F3200		1	VV	Clock, atomic, battery operated

Laboratory: Clinical Chemistry (LMCH3)  
 Floor Plan

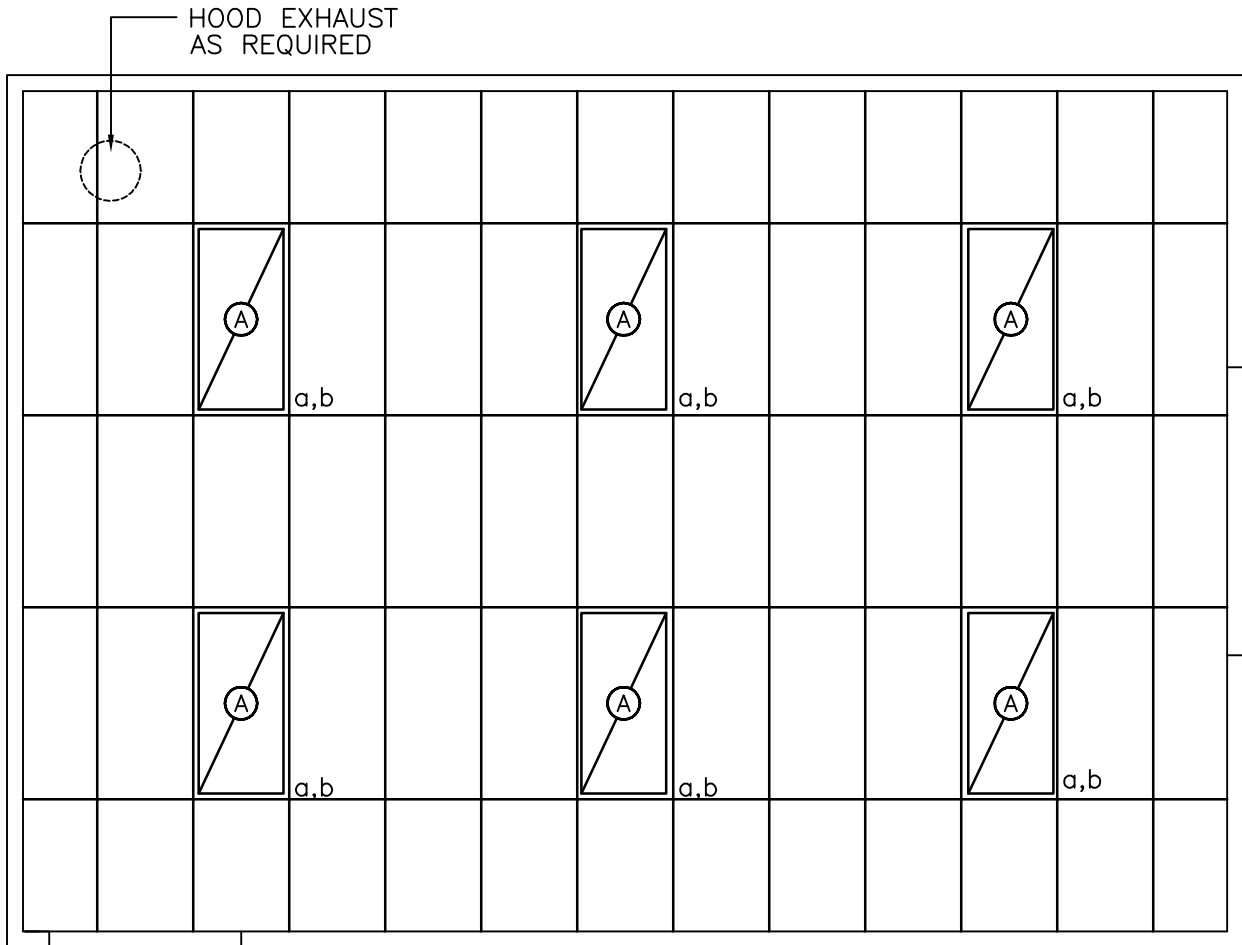


400 NSF/ 37.2 NSM

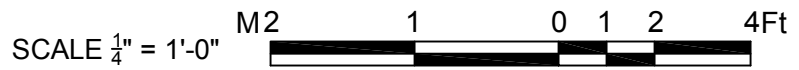


NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements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

Laboratory: Clinical Chemistry (LMCH3)  
Reflected Ceiling Plan



400 NSF/ 37.2 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.

Laboratory: Clinical Chemistry (LMCH3)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Task:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>5) Task lighting under wall cabinets (if required).</li> </ol>

**POWER**

General:	As Shown
Special:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Install surface metal raceway 12" above laboratory benches. Provide receptacles every 24" and provide alternate circuiting.</li> <li>2) Verify special receptacle requirements with equipment manufacturer.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	Yes
100% Outside Air:	Only if the AHU is 100% OA
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	For Hoods, if included in the program
Occupancy:	5
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	Yes
Laboratory Vacuum:	Yes
Sanitary Drain:	Yes
Reagent Grade Water:	Yes
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	1) Chemical Resistant Drain, Fuel Gas

Laboratory: Clinical Chemistry (LMCH3)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
				Note: VL (fixed) casework is shown, however, modular casework may also be selected.
				Note: Lab equipment to be determined by the clinical lab service of the referral-medical center for each project.
		AR	CC	Connections, mechanical, electrical and plumbing as required
CT060	13B	AR	CC	Counter top, epoxy resin, w/drip groove 1" (25 mm) thick, 30" (750 mm) deep along wall (5' @ islands (1520 mm W)) (PG-18-1, PG-18-6, MCS 12 36 00)
CS270	S-3	AR	CC	Sink, molded, resin with end or corner drain, 25" L x 18" W x 16" D (635 mm L x 450 mm W x 400 mm D) (PG-18-1, PG-18-6, MCS 12 36 00)
	VL1	AR	CC	Cabinet, under counter, with dust seal drawers, 30" W (750 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
	VL3	AR	CC	Cabinet, under counter, with dust seal drawers, 24" W (600 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
	VL4	AR	CC	Cabinet, under counter, with 2 dust seal drawers, 2 doors and 1 adjustable shelf, 48" W (1200 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
C02C0	VL8	AR	CC	Cabinet, under counter, with 1 drawer and 1 adjustable shelf, 24" W (600 mm W), 22" D (550 mm D), 31" H (775 mm H); add 5" (125 mm) base (PG-18-1, PG-18-6, MCS 12 31 00)
E0721	VL14	AR	CC	Table frame with drawers, knee space unit, widths are, 30" D (750 mm D), 25" H (635 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
C04P0	VL-20	AR	CC	Cabinet, under counter, sink unit, 2 hinged panel door 36" W (900 mm W), 22" D (550 mm D), 25" H (625 mm H); add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
CA020	VL-24	AR	CC	Cabinet, wall, 2 adjustable shelves, sloping top, 24" W x 12" D x 30" H (600 mm W x 300 mm D x 750 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
CE040	VL-25	AR	CC	Cabinet, wall, 2 adjacent shelves, sloping top, 2 glazed sliding doors, 36" W x 12" D x 30" H (900 mm W x 300 mm D x 750 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
P5210		1	CC	Eye wash and safety shower
C0052	VL-54	AR	CC	Pegboard, epoxy, 53 pegs, 32" W x 30" H (800 mm W x 750 mm H) (PG-18-1, PG-18-6, MCS 12 36 00)
		AR	CC	Outlets, lab air, fuel gas and lab vacuum grouped over counter (PG-18-1, PG-18-6, MCS 12 36 00)
		AR	CC	Faucet, reagent grade or mineral free water (PG-18-1, MCS 12 36 00)

**Laboratory: Clinical Chemistry (LMCH3) – Cont'd**

**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Special receptacle, electrical, on wall, coordinate voltage with equipment manufacturer (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex, 120 volt, strip mold with outlets 24" (600 mm) o.c., 9" (225 mm) above counter (PG-18-1, MCS 26 27 26)

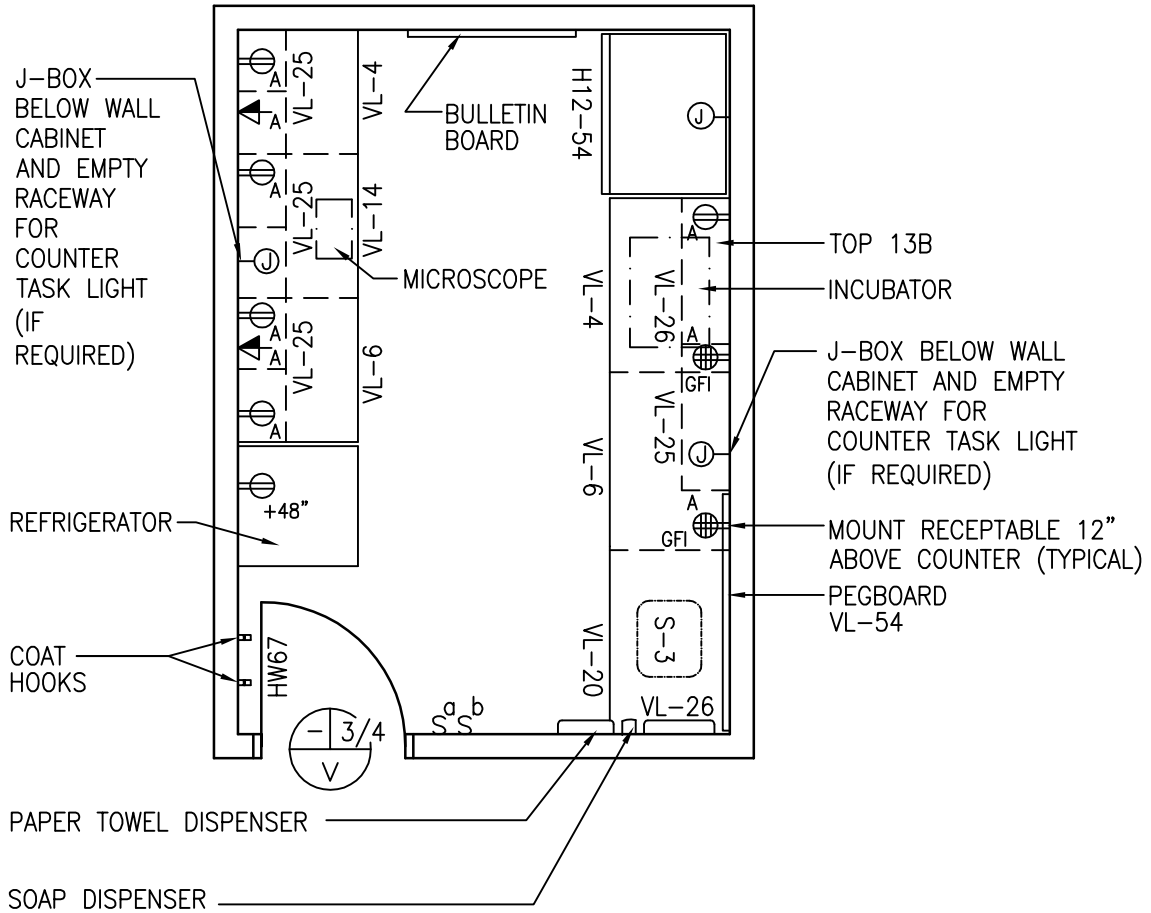


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Laboratory: Microbiology (LMM03)

Floor Plan



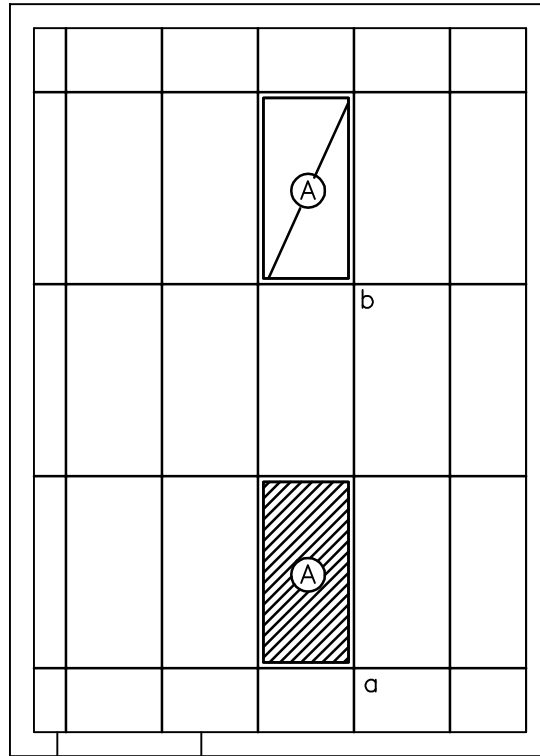
150 NSF/ 13.9 NSM

SCALE 1/4" = 1'-0"



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.

Laboratory: Microbiology (LMM03)  
Reflected Ceiling Plan



150 NSF/ 13.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Laboratory: Microbiology (LMM03)

Design Standards

**ARCHITECTURAL**

Ceiling:                   GWB, lay-in panels in grid  
 Ceiling Height:           9'-0" (2700 mm)  
 Wall Finish:               GWB-P  
 Wainscot:                 --  
 Base:                      RB  
 Floor Finish:              VCT  
 Slab Depression:         --  
 Notes:                     --

**SPECIAL EQUIPMENT**

**LIGHTING**

General:                    --  
 Special:                    --  
 Notes:    1)   2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ three F32T8 lamps, 3500°K, CRI=70.  
               2)   The foot-candle level is average maintained.  
               3)   Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
               4)   Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:                    As Shown  
 Emergency:                As Shown  
 Notes:                     --

**COMMUNICATION/SPECIAL SYSTEMS**

Data:                        Yes  
 Telephone:                 Yes  
 Intercom:                  --  
 Nurse Call:                --  
 Public Address:            --  
 Radio/Entertainment:     --  
 MATV:                      --  
 CCTV:                    --  
 MID:                        --  
 Security/Duress:          --  
 VTEL:                       --  
 VA Satellite TV:            --  
 Notes:                     --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:   70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour:   6  
 100% Exhaust:                        Yes  
 100% Outside Air:                    No  
 Room Air Balance:                    Negative (-)  
 Dedicated Exhaust System:         No  
 Occupancy:                            3  
 AC Load-(Equipment):               As Required  
 AC Load-(Light):                      As Required  
 Notes:                                 --

**PLUMBING AND MEDICAL GASES**

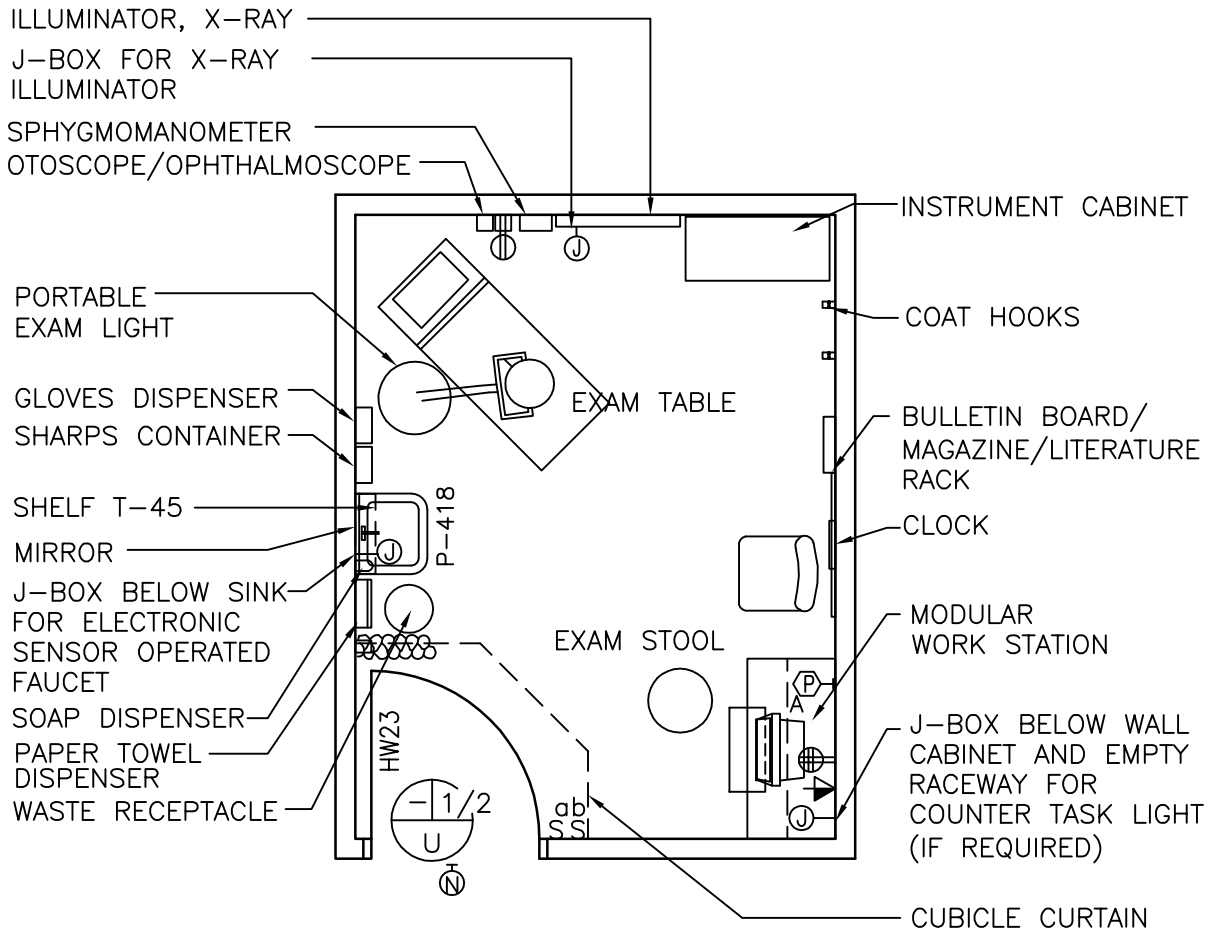
Cold Water:                            Yes  
 Hot Water:                            Yes  
 Laboratory Air:                        Yes  
 Laboratory Vacuum:                  Yes  
 Sanitary Drain:                       Yes  
 Reagent Grade Water:                Yes  
 Medical Air:                            --  
 Medical Vacuum:                      --  
 Oxygen:                                --  
 Notes:    1)   Chemical Resistant Drain, Fuel Gas, Biological cabinet

Laboratory: Microbiology (LMM03)

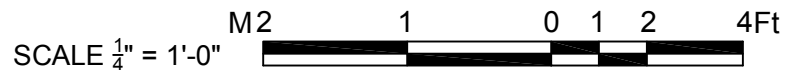
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
				Note: VL (fixed) casework is shown; however, modular casework may also be selected (PG-18-1, MCS 12 32 00, 12 34 00).
E0574	VL4	AR	CC	Cabinet, under counter, with 2 dust seal drawers, 2 hinged doors and 1 adjustable shelf, 36" W (900 mm W), 224" D (5600 mm D), 31" H (775 mm H), add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL6	AR	CC	Cabinet, under counter, with 1 drawer, 1 door and 1 adjacent shelf 36" (900 mm); 30" D (750 mm D), 25" H (635 mm H) add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL14	AR	CC	Table frame with drawers, knee space unit, width are, 30" D (750 mm D), 25" H (635 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL20	AR	CC	Cabinet, under counter, sink unit, 2 hinged panel doors 36" W (900 mm W); 30" D (750 mm D); 25" H (635 mm H), add 5" (125 mm) for base (PG-18-1, PG-18-6, MCS 12 31 00)
E0574	VL25	AR	CC	Cabinet, wall, with sloping top, 2 glazed sliding doors and 2 adjustable shelves, 36" W (900 mm W), 13" D (325 mm D), 30" H (750 mm H) (PG-18-1, PG-18-6, MCS 12 31 00)
C0051	VL54	1	CC	Pegboard, epoxy, 53 pegs, 32" x 30" (800 mm x 750 mm) (PG-18-1, PG-18-6, MCS 12 36 00)
A5165	VL26	1	CC	Shelf, corrosion resistant metal, 12" W x 6" D (300 mm W x 150 mm D), wall hung (PG-18-1, PG-18-6, MCS 12 36 00)
CT060	13B	AR	CC	Counter top, epoxy resin, with drip groove, 1" (25 mm) THICK x 30" (750 mm) deep along both walls (PG-18-1, PG-18-6, MCS 12 36 00)
L2336	H12-54	1	CC	Cabinet, air flow, biological, with lab air, fuel gas and lab vacuum outlets, 120 volt, receptacle (PG-18-1, PG-18-6, MCS 11 53 53)
CS270	S-3	1	CC	Sink, molded resin with end or corner drain, 18" W x 14" L x 16" D (450 mm W x 350 mm L x 400 mm D) (PG-18-1, PG-18-6, MCS 12 36 00)
		AR	CC	Receptacle, electrical, duplex, 120 volt (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
R7250		1	VV	Refrigerator/freezer, 120 volt, domestic, approx. 31" W x 28" D 66" H (775 mm W x 700 mm D x 1650 mm H)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		2	VV	Hook, coat, wall mounted
L0100		1	VV	Microscope
L4215		1	VV	Incubator, bench top

Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)  
 Floor Plan

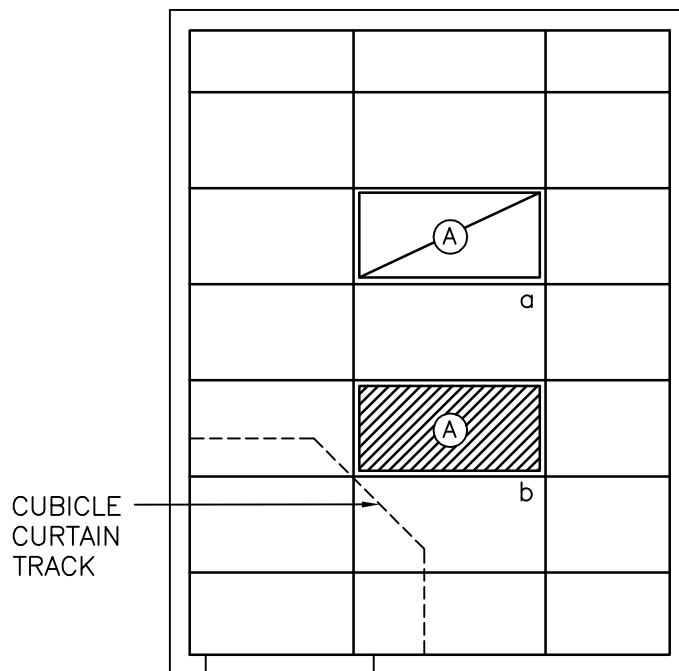


130 NSF/ 11.2 NSM



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Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)  
Reflected Ceiling Plan



130 NSF/ 11.2 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB Lay-in Panels
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	STC 40
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) Portable Examining Light.</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> <li>6) Fluorescent nurse call light.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> <li>2) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	Yes
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	Yes
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



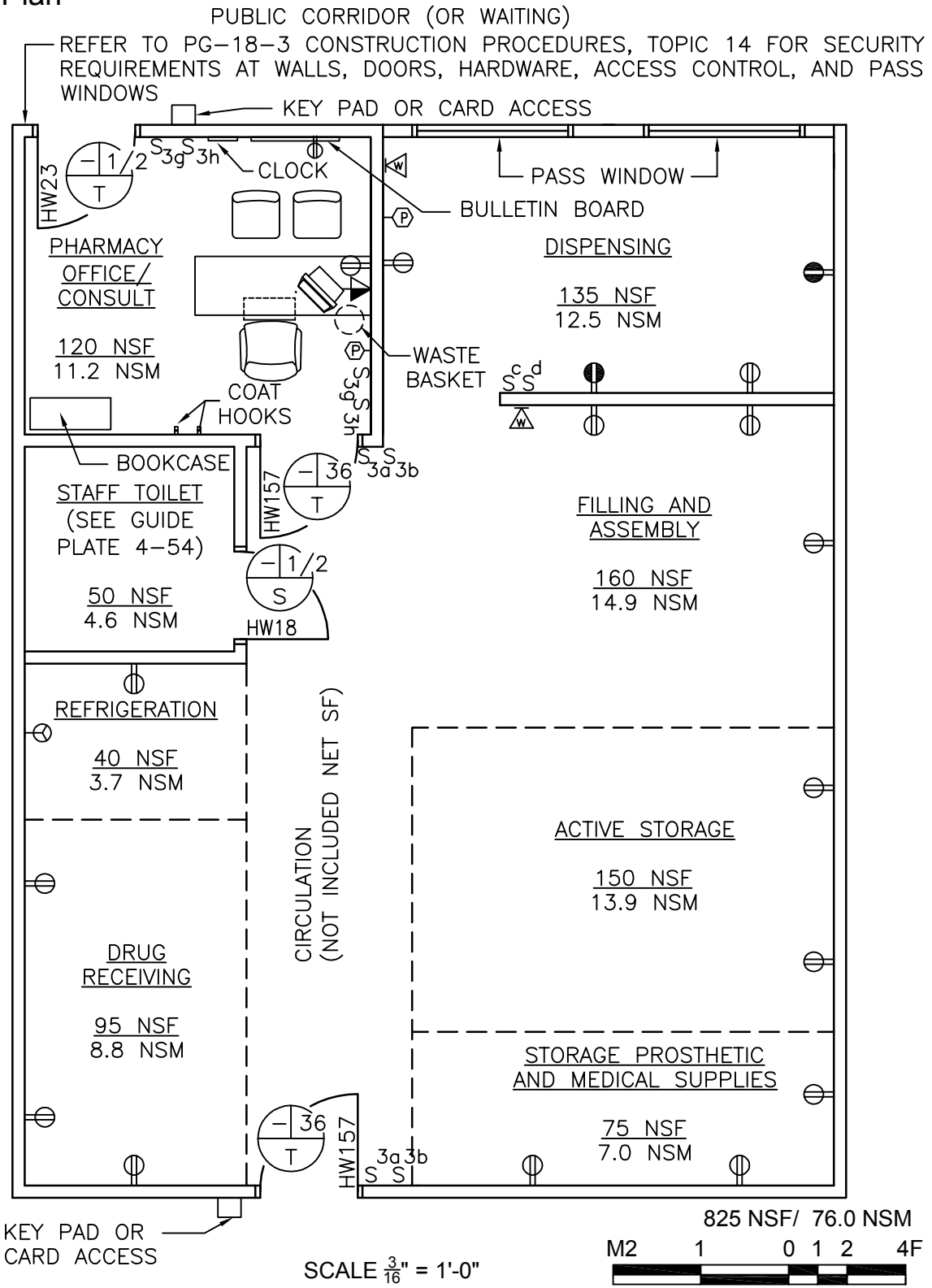
Mental Health: Office/ Examination Room (Nurse Practitioner) (OFDC1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00; PG-18-4, NCS SD 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" x 5" (300 mm x 125 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Nurse call, emergency station, with pull cord and corridor signal light (PG-18-1, MCS 27 52 23)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-3)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5145		2	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
M9050		1	VV	Table, examining, padded, adjustable top, approx. 74" x 21" x 30" (1850 mm x 525 mm x 750 mm)
X3930		AR	VV	Illuminator, x-ray film 120 volts, wall mounted individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" W x 20" H (775 mm W x 500 mm H)
F0205		1	VV	Chair, straight, without arms
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F0340		1	VV	Stool, examining
M3085		1	VV	Cabinet, instrument and treatment, 36" W x 16" D x 78" H (900 mm W x 400 mm D x 1950 mm H)
M7401		1	VV	Light, examining, portable, 120 volt, approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M1801		1	VV	CRT, computer system, with keyboard
M4100		1	VV	Sphygmomanometer, wall hung
M4200		1	VV	Otoscope, wall hung
M4200		1	VV	Ophthalmoscope, wall hung
F3010 or F3025		1	VV	Bulletin board, 48" x 36" (1200 mm x 900 mm)
F2300		1	VV	Magazine/literature rack, wall mounted
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted

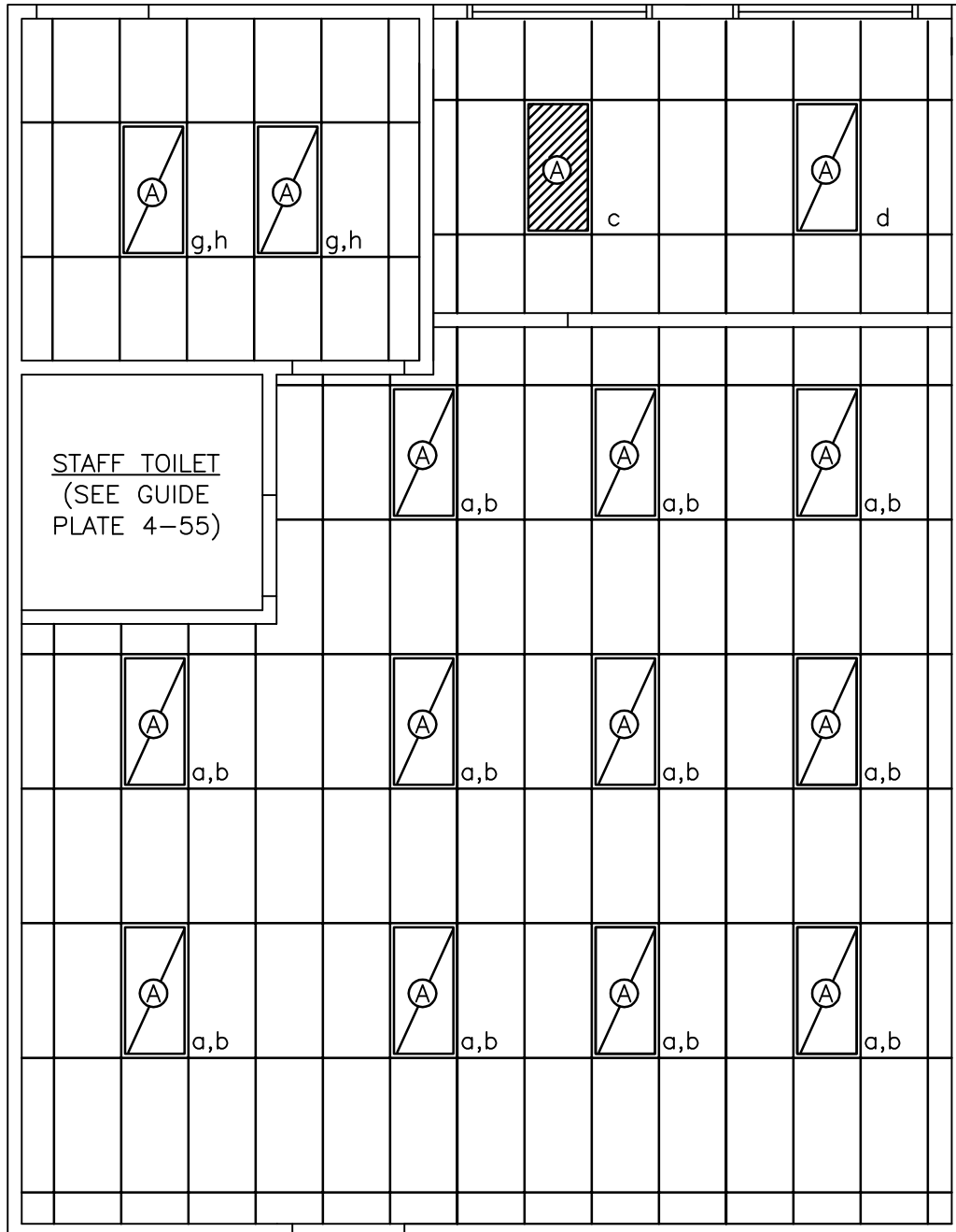
Pharmacy - Basic Service

Floor Plan



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.

Pharmacy - Basic Service  
 Reflected Ceiling Plan



825 NSF/ 76.0 NSM

SCALE  $\frac{3}{16}'' = 1'-0''$



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Pharmacy – Basic Service (Office, Pharmacist/Consultation Room)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Ht:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	CPT
Slab Depression:	--
Notes:	1) Provide physical security features in accordance with PG-18-3, Construction Procedures, Topic 14

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	1) Fluorescent fixtures 2' x 4' (600 mm x 1200 mm) shall be recessed with acrylic lens, w/ F32T8, color temperature of 3500°K and CRI not less than 70.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	1) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	Yes
CCTV:	Yes
MID:	Yes
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

Pharmacy – Basic Service (Storage & Packs)

Design Standards

**ARCHITECTURAL**

Ceiling: AT  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: GWB-P/PL-P over CMU  
 Wainscot: --  
 Base: RB  
 Floor Finish: VCT  
 Slab Depression: --  
 Notes: 1) 3'-4" (1000 mm) doors

**SPECIAL EQUIPMENT**

**LIGHTING**

**STORAGE**

General: --  
 Special: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic reflector, w/ F32T8 lamps, 3500° K (minimum), CRI=70 (minimum).  
 2) The foot-candle level is average maintained.  
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown  
 Emergency: --  
 Notes: --

**COMMUNICATION/SPECIAL SYSTEMS**

Data: --  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: Yes  
 CCTV: --  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 4  
 100% Exhaust: No  
 100% Outside Air: No  
 Room Air Balance: Negative (-)  
 Dedicated Exhaust System: No  
 Occupancy: 4  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: --

**PLUMBING AND MEDICAL GASES**

Cold Water: --  
 Hot Water: --  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: --  
 Reagent Grade Water: --  
 Medical Air: --  
 Medical Vacuum: --  
 Oxygen: --  
 Notes: --

Pharmacy – Basic Service (Dispensing)

Design Standards

**ARCHITECTURAL**

Ceiling: AT  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: GWB-P/PL-P over CMU  
 Wainscot: --  
 Base: RB  
 Floor Finish: VCT  
 Slab Depression: --  
 Notes: 1) 3'-4" (1000 mm) doors

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, parabolic reflector, w/ F32T8 lamps, 3500° K (minimum), CRI=70 (minimum).  
 2) The foot-candle level is average maintained.  
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown  
 Emergency: --  
 Notes: --

**COMMUNICATION/SPECIAL SYSTEMS**

Data: --  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: Yes  
 CCTV: --  
 MID: Yes  
 Security/Duress: Yes  
 VTEL: --  
 VA Satellite TV: --  
 Notes: --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 4  
 100% Exhaust: No  
 100% Outside Air: No  
 Room Air Balance: Negative (-)  
 Dedicated Exhaust System: No  
 Occupancy: 4  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: --

**PLUMBING AND MEDICAL GASES**

Cold Water: --  
 Hot Water: --  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: --  
 Reagent Grade Water: --  
 Medical Air: --  
 Medical Vacuum: --  
 Oxygen: --  
 Notes: --

**Pharmacy – Basic Service**

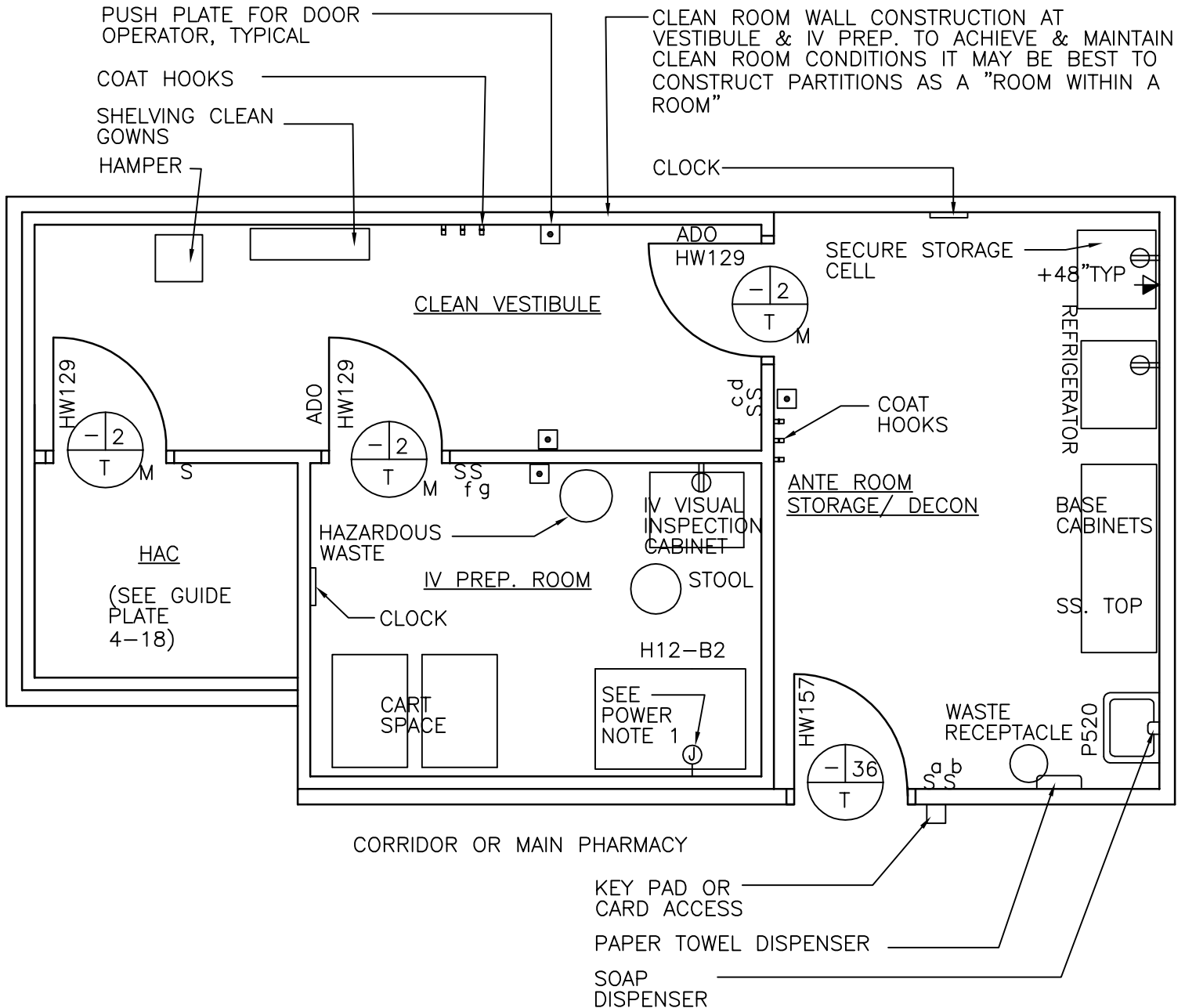
**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
				Note: Equipment to be determined by pharmacy service, VACO for each project.



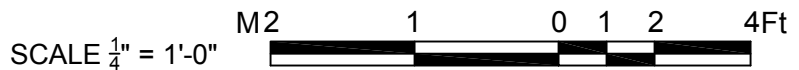
Pharmacy: Oncology Drugs Preparation Area (PHIV3)

Floor Plan



IV Prep. Room (Hazardous Clean Room)	100 NSF / 9.3 NSM (PHIV3)
Ante Room & Storage/ DECON	95 NSF/ 8.8 NSM ( XXYZ+ PHBS2)
HAC	40 NSF/ 3.7 NSM (HAC)

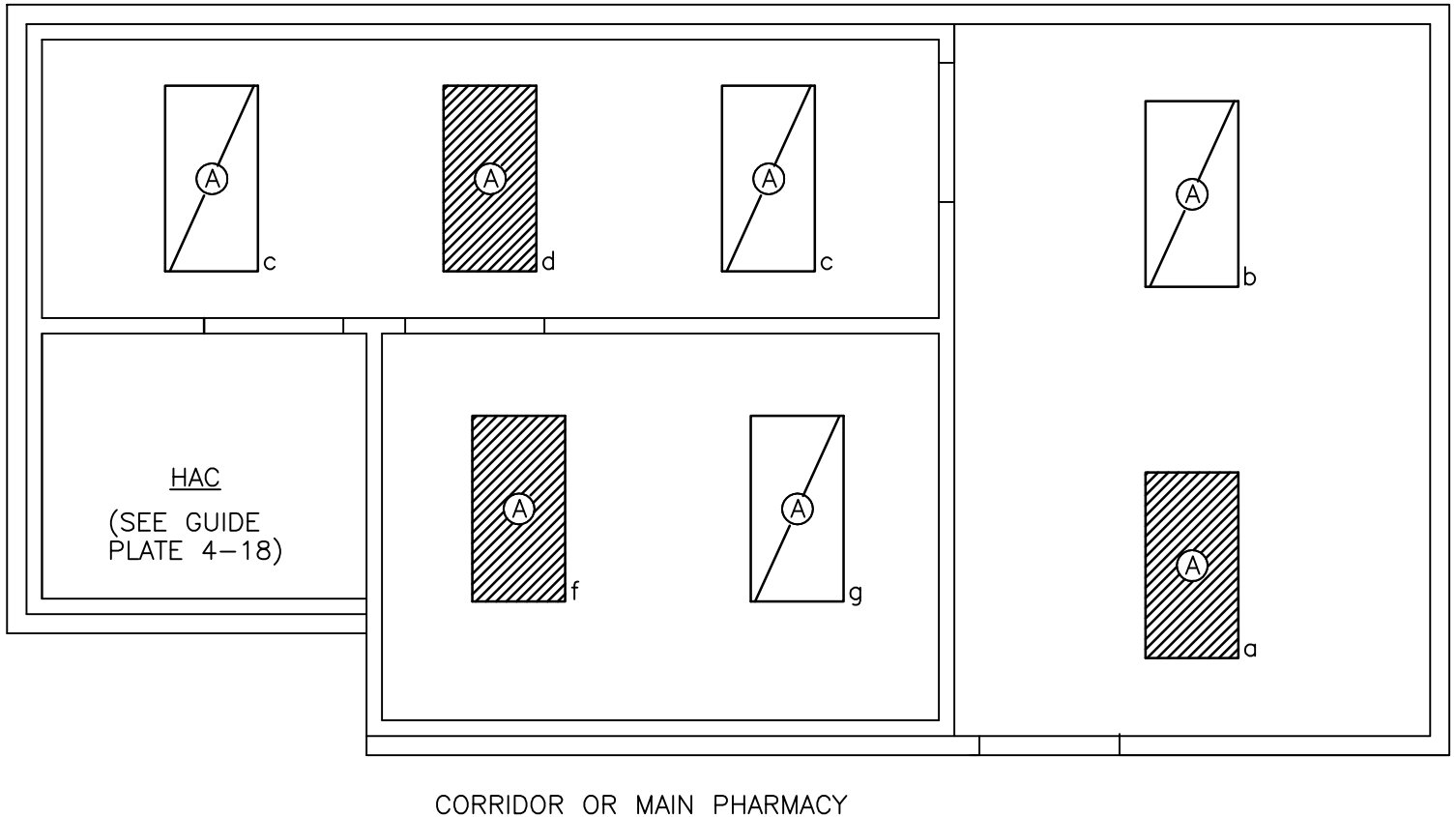
DOES NOT INCLUDE CIRCULATION TO ACCESS CLEAN VESTIBULE



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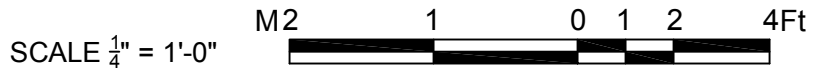


Pharmacy: Oncology Drugs Preparation Area (PHIV3)  
 Reflected Ceiling Plan



IV Prep. Room (Hazardous Clean Room)	100 NSF / 9.3 NSM (PHIV3)
Ante Room & Storage/ DECON	95 NSF/ 8.8 NSM ( XXYZ+ PHBS2)
HAC	40 NSF/ 3.7 NSM (HAC)

DOES NOT INCLUDE CIRCULATION TO ACCESS CLEAN VESTIBULE



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**Pharmacy: Oncology Drugs Preparation Area (PHIV3)**

**Design Standards**

NOTE: Prep Room must meet USP 797 standards for use as a “hazardous clean room.” Separate Ante Room and Vestibule are required to meet criteria for air balance (pressurization) and storage of hazardous drugs.

**ARCHITECTURAL**

ANTE ROOM

Ceiling: GWB-SC  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: GWB-SC  
 Wainscot: --  
 Base: WSF, 6" (150 mm) Integral Cove  
 Floor Finish: WSF

VESTIBULE & PREP ROOM

Ceiling: GWB-SC  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: Note 1  
 Wainscot: --  
 Base: WSF, 6" (150 mm) Integral Cove  
 Floor Finish: WSF

- Notes: 1) Provide Clean Room (ISO 7) wall construction: non-dusting (no GWB or cement backer board), smooth and cleanable, resistant to isopropyl alcohol and disinfectants; and impact resistant. Acceptable materials include: glass fiber reinforced panels (FRP), epoxy coated aluminum wall panels, laminate faced panels, and solid surface (acrylic) panels.
- 2) Use epoxy coatings (SC) on metal doors and frames to resist cleaning agents. Provide automatic door operators on Vestibule and Prep Room doors.
- 3) Comply with PG 18-3, Design and Construction Procedures, Topic 14 Security for Pharmacy storage/manufacturing areas.

**LIGHTING**

- General: --
- Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture with acrylic prismatic lens. F32T8 lamps, 3500°K, CRI=70 (minimum).
- 2) Fixtures shall be suitable for use in contamination-controlled ISO 7 environment.
- 3) The foot-candle level is average maintained.
- 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

- General: --
- Emergency: As Shown
- Notes: 1) Junction box/wiring device for biological safety cabinet. Connection and mounting height requirements per manufacturer.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: Yes  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --

Pharmacy: Oncology Drugs Preparation Area (PHIV3) – Cont'd

Design Standards

**HEATING, VENTILATING AND AIR CONDITIONING**

See HVAC Design Manual for additional requirements.

ANTE ROOM

Inside Design Conditions: Cooling: 68°F (20°C)  
 Dry-Bulb Temperature (maximum)  
 55 Percent Relative Humidity  
 Heating: 68°F (20°C)  
 Dry-Bulb Temperature (minimum)  
 40 Percent Relative Humidity  
 Minimum Air Changes per Hour: 30  
 100% Exhaust: Yes  
 100% Outside Air: Yes  
 Room Air Balance: Positive (+)  
 Dedicated Exhaust System: Yes  
 Occupancy: 2  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required

VESTIBULE & PREP ROOM

Inside Design Conditions: Cooling: 68°F (20°C)  
 Dry-Bulb Temperature (maximum)  
 55 Percent Relative Humidity  
 Heating: 68°F (20°C)  
 Dry-Bulb Temperature (minimum)  
 40 Percent Relative Humidity  
 Minimum Air Changes per Hour: 30  
 100% Exhaust: Yes  
 100% Outside Air: Yes  
 Room Air Balance: Vestibule: Positive (+)  
 Prep Room: Negative (-)  
 Dedicated Exhaust System: Yes  
 Occupancy: 2  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required

**PLUMBING AND MEDICAL GASES**

Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: --  
 Medical Vacuum: --  
 Oxygen: --

Pharmacy: Oncology Drugs Preparation Area (PHIV3)

Equipment List

IV PREP ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
L2336	H12-B2	1	CC	Biological safety cabinet H12B2-48 (laminar flow), Class II; Type B-2, 100% direct exhausted air through the work-space. 48" W x 38" D x 72" H (1200 mm W x 950 mm D x 1800 mm H) (PG-18-1, PG-18-6; MCS 11 53 53)
		AR	CC	Junction box, wall, 120V power for equipment (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	VV	Cabinet, intravenous (IV), visual clarity inspection, 30" W x 24" D (750 mm W x 600 mm D), 120 volts
M2055		AR	VV	Cart, exchange, CRS wire
F0340		AR	VV	Stool, rotary
F3200		1	VV	Clock, atomic, battery operated
M3072		AR	VV	Receptacle, hazardous waste, approx. 12" (300 mm) diameter

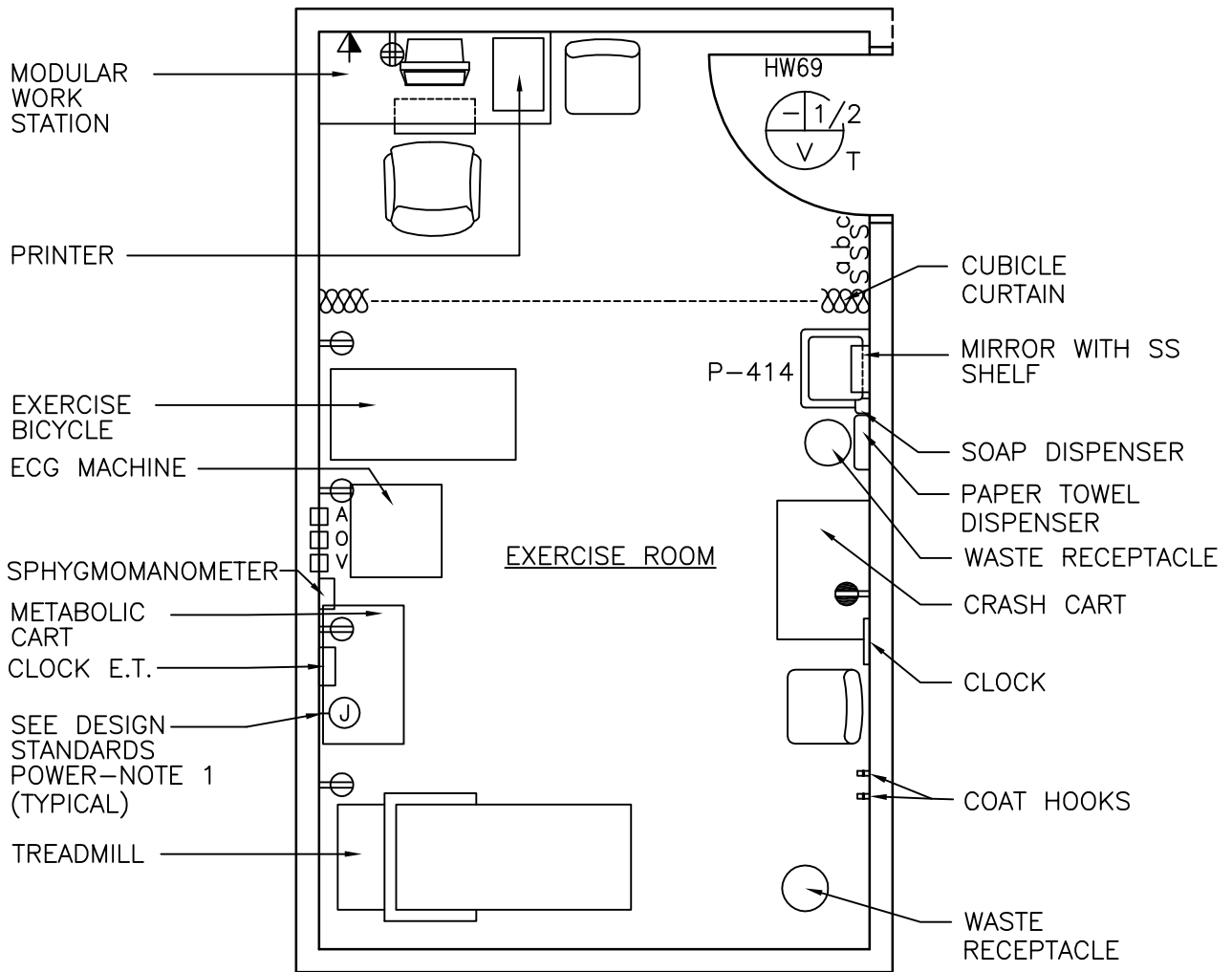
VESTIBULE				
JSN	SYMBOL	QTY	AI	DESCRIPTION
A5145		AR	VV	Hook, coat, wall mounted
M2055		AR	VV	Shelving, open for clean gowns and supplies
M3070		1	VV	Hamper, soiled linen, approx. 20" (500 mm)

ANTE ROOM				
JSN	SYMBOL	QTY	AI	DESCRIPTION
C03G0 & CT050		AR	CC	Base cabinets, stainless steel (PG-18-1, MCS 12 31 00); with stainless steel top and backsplash (PG-18-1, MCS 12 36 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
P6980	P-520	1	CC	Sink, surgeon's scrub-up, sensor control, approx. 28" x 22" (700 mm x 550 mm), 12" (300 mm) deep (PG-18-1, MCS 22 40 00)
		AR	CC	Card key access (PG-18-1, MCS 28 13 16)
R6060		1	VV	Refrigerator, biological, reach-in, with hinged glass doors, 30" W x 33" D x 81" H (750 mm W x 825 mm D x 2025 mm H)
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		AR	VV	Receptacle, waste, step-on type, approx. 15" (380 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
M3150		AR	VV	Automated medication storage/dispensing unit (cell), secure, approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)

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Pulmonary: Exercise Room (OPPF5)  
 Floor Plan

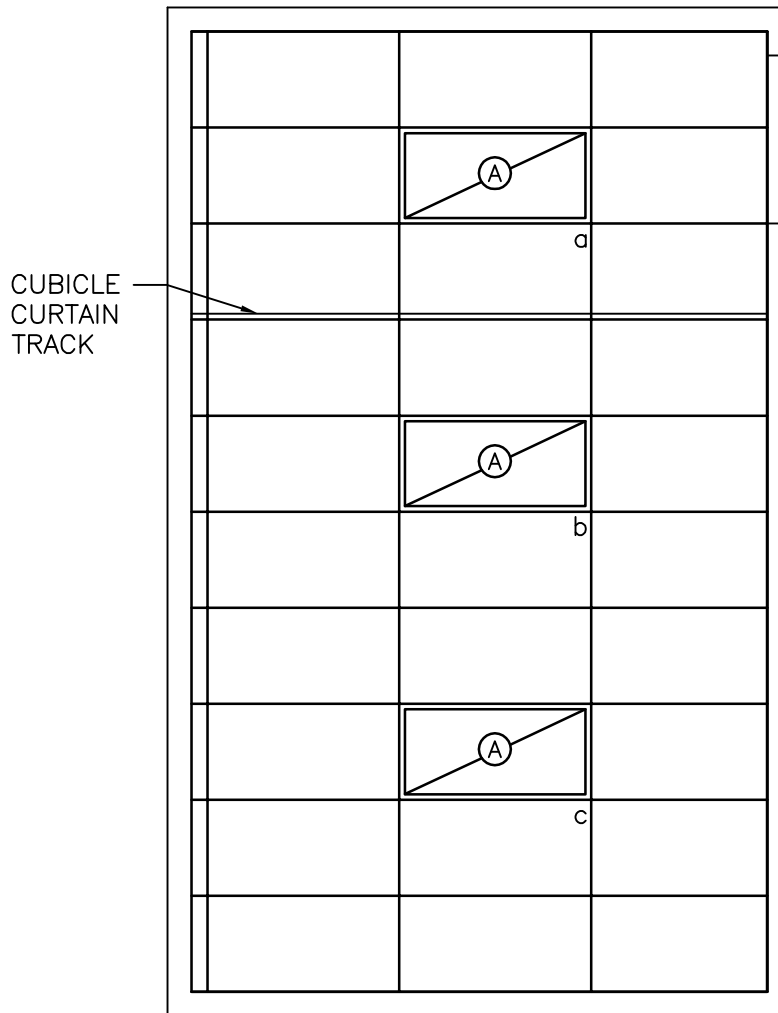


240 NSF/ 22.3 NSM



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Pulmonary: Exercise Room (OPPF5)  
Reflected Ceiling Plan



240 NSF/ 22.3 NSM



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Pulmonary: Exercise Room (OPPF5)

Design Standards

**ARCHITECTURAL (EXERCISE ROOM)**

Ceiling: AT  
 Ceiling Height: 9'-6" (2900 mm); where possible  
 Wall Finish: GWB-P  
 Wainscot: --  
 Base: RB  
 Floor Finish: VCT  
 Notes: --

**ARCHITECTURAL (TOILET/SHOWER)**

Ceiling: PCP-P at Shower;  
 GWB-P/PL-P at Toilet  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: CT  
 Wainscot: --  
 Base: CT  
 Floor Finish: CT (Slip Resistant)  
 Slab Depression: 3" (75 mm)  
 Notes: 1) Extend shower pan waterproofing through drying area and provide floor drain.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).  
 2) The foot-candle level is average maintained.  
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown  
 Emergency: As Shown  
 Notes: 1) Junction boxes for elapsed time clock and controls as required.  
 2) 220 VAC usually required for treadmills.  
 3) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: For Exercise Room Only  
 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 10 – Exercise Room  
 10 – Toilet & Shower (or 75 CFM/Fixture)  
 100% Exhaust: No  
 100% Outside Air: No  
 Room Air Balance: Exercise Room – Neutral (0)  
 Toilet/Shower – Double Negative (--)  
 Dedicated Exhaust System: No  
 Occupancy: 6 (Exercise Room)  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: Yes  
 Medical Vacuum: Yes  
 Oxygen: Yes  
 Toilet and Shower: --  
 Notes: --

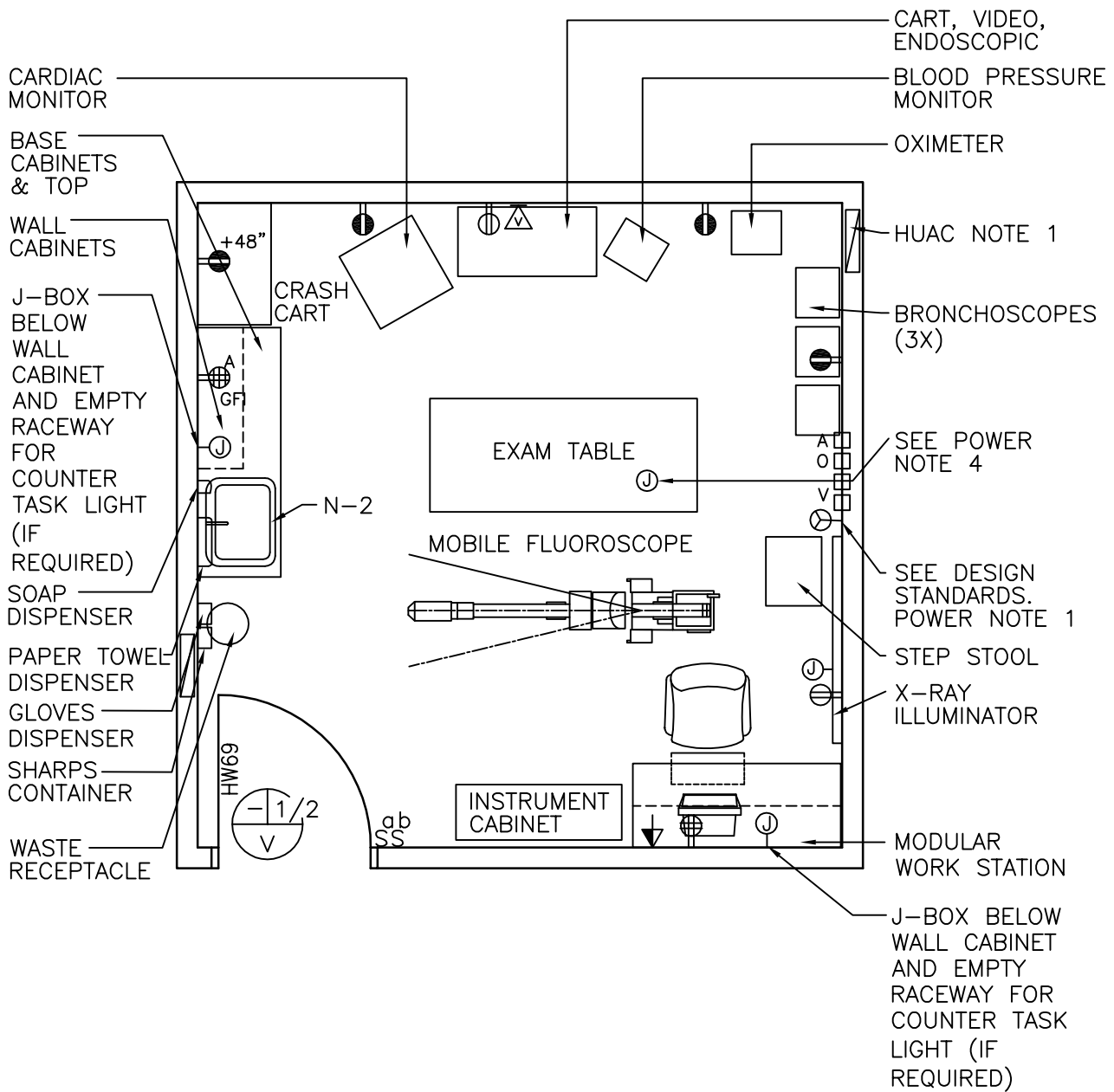


Pulmonary: Exercise Room (OPPF5)

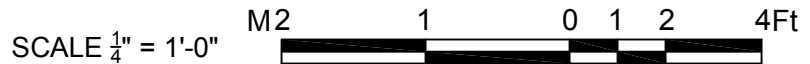
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
				Note: Electrical receptacle for crash cart to be on emergency power.
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
A4015		1	CC	Clock, electric time elapsed, recessed (PG-18-1, MCS 27 52 41)
P3100	P-414	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle, ceiling type, surface mounted (PG-18-1, MCS 10 21 23)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, 10 28 00-4)
A1010		1	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
F0205		AR	VV	Chair, rotary, with arms
F0205		AR	VV	Chair, straight, without arms
M1801 & M1825		1	VV	Desk top PC, CRT, and printer
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
M8125		1	VV	Computer assisted recumbent bicycle aerobic trainer
M8185		1	VV	Machine, treadmill, with controls, 120 volt, approx. 72" x 30" (1800 mm x 750 mm)
M7710		1	VV	Machine, twelve (12) leads "ECG"
M0730		1	VV	Metabolic cart
F3200		1	VV	Clock, atomic, battery operated
A5145		AR	VV	Hook, coat, wall mounted
F2017		1	VV	Receptacle, waste, 13" (325 mm) diameter
A5180		AR	VV	Curtain, cubicle
M4116		1	VV	Electronic sphygmomanometer (portable)

Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2)  
 Floor Plan

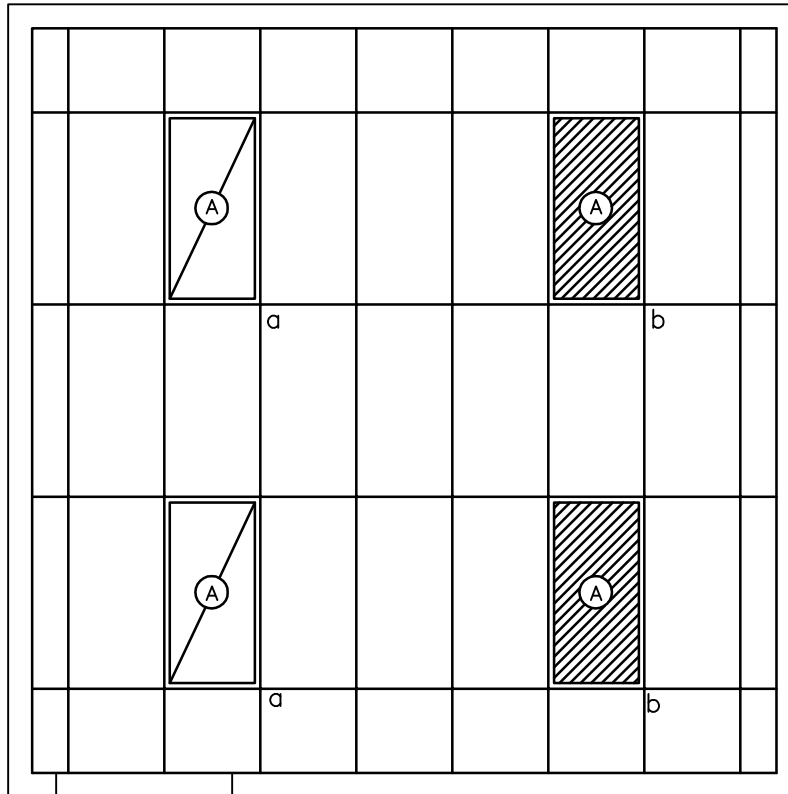


240 NSF/ 22.3 NSM



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Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2)  
Reflected Ceiling Plan



240 NSF/ 22.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2)

Design Standards

**ARCHITECTURAL**

Ceiling: AT(SP)  
 Ceiling Height: 9'-6" (2900 mm)  
 Wall Finish: GWB-W  
 Wainscot: --  
 Base: RB  
 Floor Finish: VCT  
 Slab Depression: --  
 Notes: 1) 3'-8" (1100 mm) wide entry door with 8" x 10" (200 mm x 250 mm) tempered glass view window.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixtures, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).  
 2) Provide emergency power for x-ray illuminator.  
 3) The foot-candle level is average maintained.  
 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown  
 Emergency: As Shown  
 Notes: 1) Special emergency power receptacle for mobile fluoroscopy unit. (Coordinate with system supplier.)  
 2) Receptacle for crash cart to be on emergency power.  
 3) Coordinate location and height of work station receptacles with modular furniture.  
 4) Verify exam table power requirements with manufacturer.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --

**COMMUNICATION/SPECIAL SYSTEMS (Cont'd)**

Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: 1) Junction box for CCTV camera with conduit to adjacent diagnostic room.  
 2) Junction box for poly somnograph cabling with conduit diagnostic room.  
 3) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 30 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 12  
 100% Exhaust: Yes  
 100% Outside Air: Only if AHU is 100% OA  
 Room Air Balance: Negative (-)  
 Dedicated Exhaust System: Yes  
 Occupancy: 3  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Provide exhaust air inlets at the floor level.  
 2) Provide a hood and exhaust for instrument cleaning if taking place in this room.  
 3) Year around conditions.

**PLUMBING AND MEDICAL GASES**

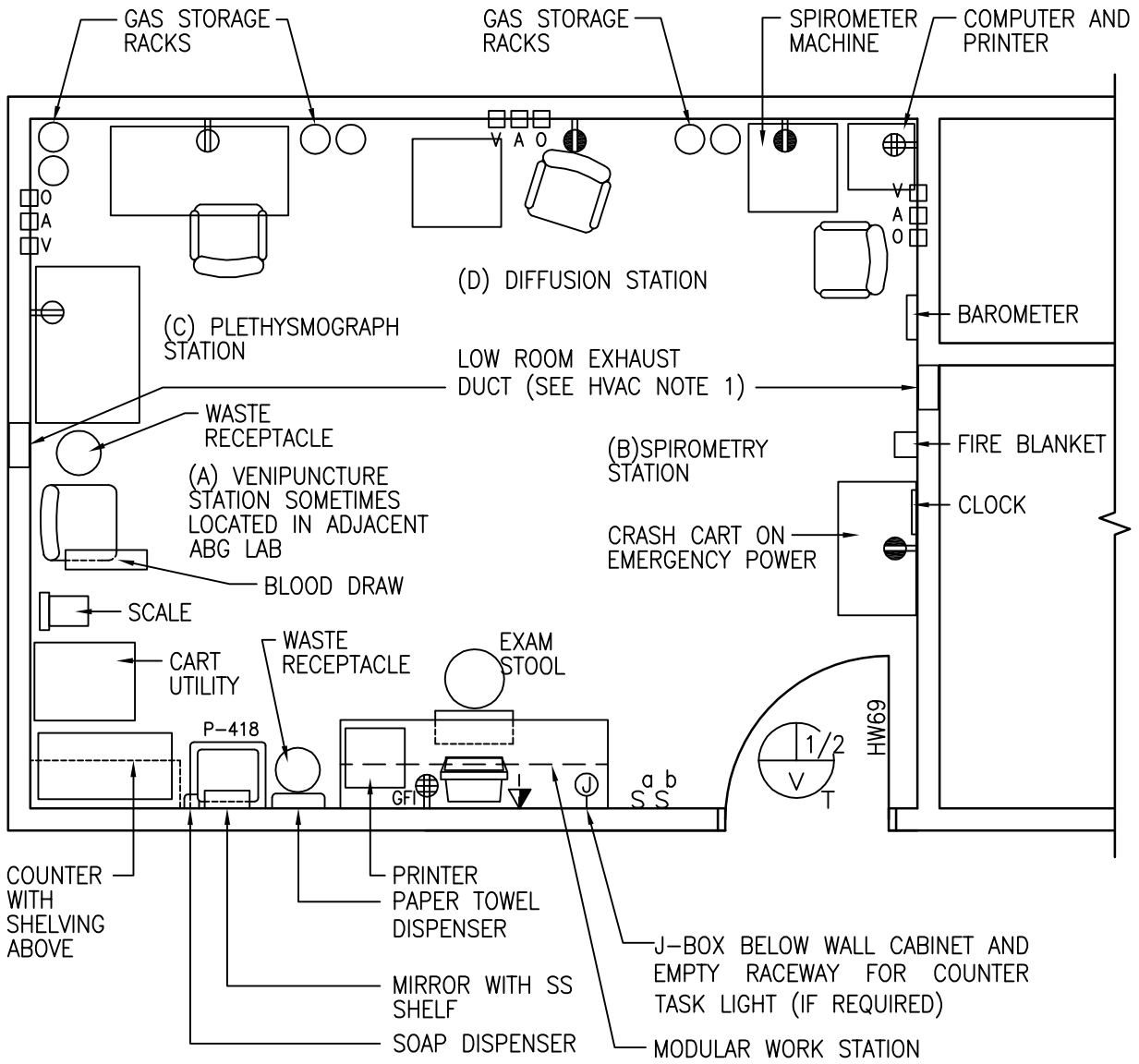
Cold Water: Yes  
 Hot Water: Yes  
 Laboratory Air: --  
 Laboratory Vacuum: --  
 Sanitary Drain: Yes  
 Reagent Grade Water: --  
 Medical Air: Yes  
 Medical Vacuum: Yes  
 Oxygen: Yes  
 Notes: --

Pulmonary: Special Procedures/ Bronchoscopy Room (TRPE2)

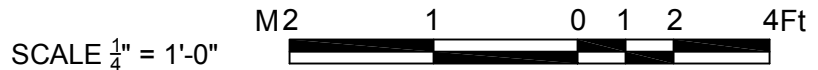
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Outlet, medical air, ceiling (PG-18-1, MCS 22 63 00 )
		1	CC	Outlet, oxygen, ceiling (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, ceiling (PG-18-1, MCS 22 62 00)
E0210		AR	CC	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
CS105	N-2	1	CC	Sink, corrosion resisting steel, with end or corner drain outlet, 22" x 16" x 11" (550 mm x 400 mm x 275 mm) (PG-18-1 & PG-18-6, MCS 12 36 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
C03P0		AR	CC	Base cabinets, plastic laminate (PG-18-1, MCS 12 32 00) with plastic laminate top and splash (PG-18-1, MCS 12 36 00)
CE030		AR	CC	Wall cabinets, plastic laminate, with hinged glass doors (PG-18-1, MCS 12 32 00)
M4116		1	VV	Blood pressure monitor
M8508 M8506 M8505 M8502 M8507 M8503 M8504		3	VV	Bronchoscopes
M3085		1	VV	Cabinet, instruments, 48" x 16" x 72" (1200 mm x 400 mm x 1800 mm), with glazed doors, sloping top
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
M8605		1	VV	Cart, video, endoscopic
M1801		1	VV	PC, computer system, with keyboard
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
X3930		AR	VV	Illuminators, film, x-ray, 120 volt, wall mounted (1 bank of 4)
M7860		1	VV	Monitor, cardiac - on cart (floor unit)
M7905		1	VV	Monitor, ear oximeter
F2017		1	VV	Receptacle, waste, 13" (325 mm)
F0355		1	VV	Stool, step, approx. 20" x 16" (500 mm x 400 mm)
M4665		1	VV	Table, examination-patient, x-ray, translucent top
X4890		1	VV	X-ray/fluoroscope (mobile unit and monitor)
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
F0205		1	VV	Chair, rotary, with arms

Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)  
 Floor Plan

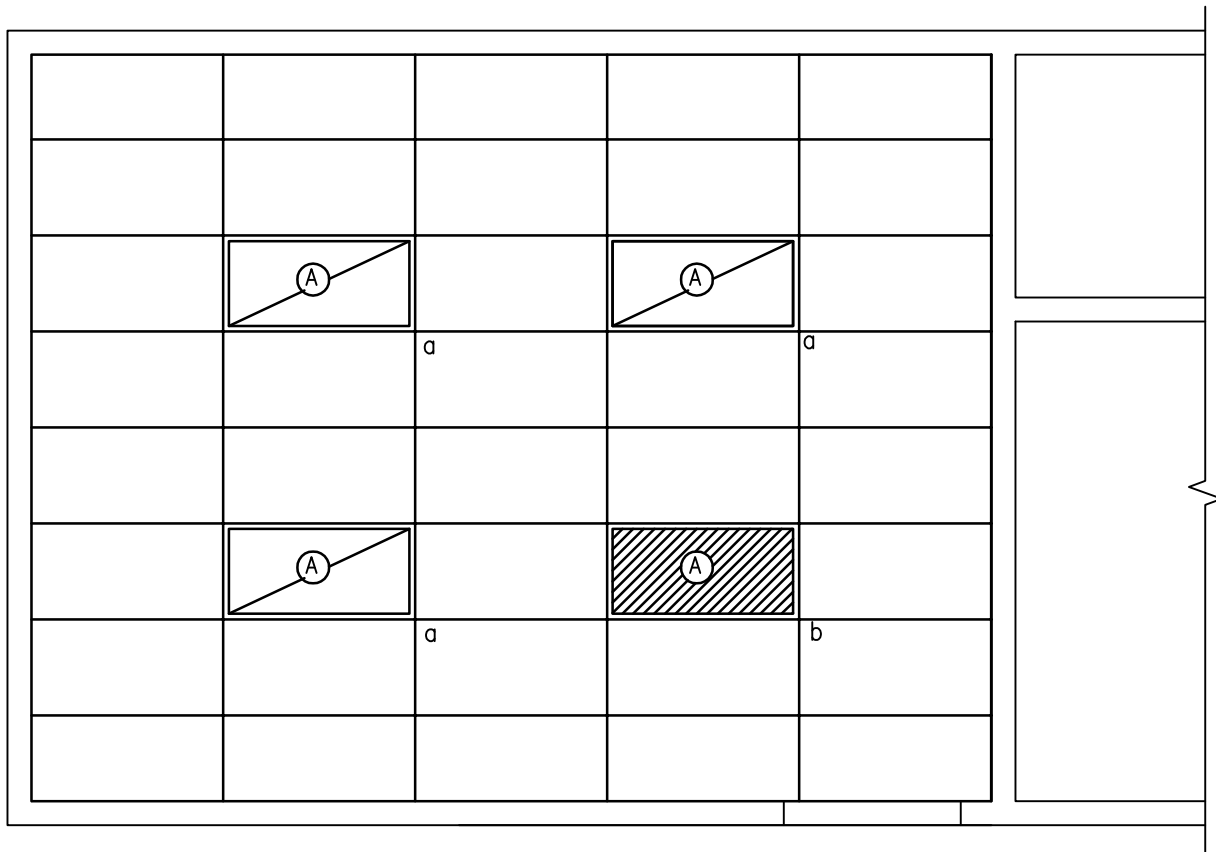


312 NSF/ 29.0 NSM



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.

Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)  
 Reflected Ceiling Plan



312 NSF/ 29.0 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-W
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
----------	----

- Notes: 1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixtures, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
- 2) The foot-candle level is average maintained.
- 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown

- Notes: 1) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.	

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	12-CV Required
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	8
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes: 1) Year around conditions.	

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	Yes
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Counter, with knee space and shelving above
P3100	P-418	1	CC	Lavatory, straight back (PG-18-1, MCS 22 40 00)
M2025		AR	CC	Rack, gas cylinder storage (PG-18-1, PG-18-6, MCS 05 50 00)
A1066		1	CC	Mirror, 24" x 36" (600 mm x 900 mm) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	VV	Barometer, wall, 48" (1200 mm) high
A5230		1	VV	Fire blanket cabinet
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
A0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
		1	VV	Stool, examining, adjustable
M1801		AR	VV	PC, computer system, with keyboard
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, 13" (325 mm) diameter
				<b>(A)Venipuncture Station</b>
F0535		AR	VV	Cart, utility, corrosion resisting steel, 36" x 18" x 30" (900 mm x 450 mm x 750 mm)
M1410		1	VV	Chair, blood-draw
F2017		1	VV	Receptacle, waste, 13" (325 mm) diameter
M4030		1	VV	Scale, patient
				<b>(B)Spirometry Station</b>
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
F0205		1	VV	Chair, straight, with arms
M1801 & M1825		1	VV	Computer and printer
M0700 M0705 or M0710		1	VV	Machine, spirometry with recorder and medical gas cylinders
F3200		1	VV	Clock, atomic, battery operated

Pulmonary: Ventilatory Test Room/ Spirometry (OPPF1) – Cont'd

Equipment List

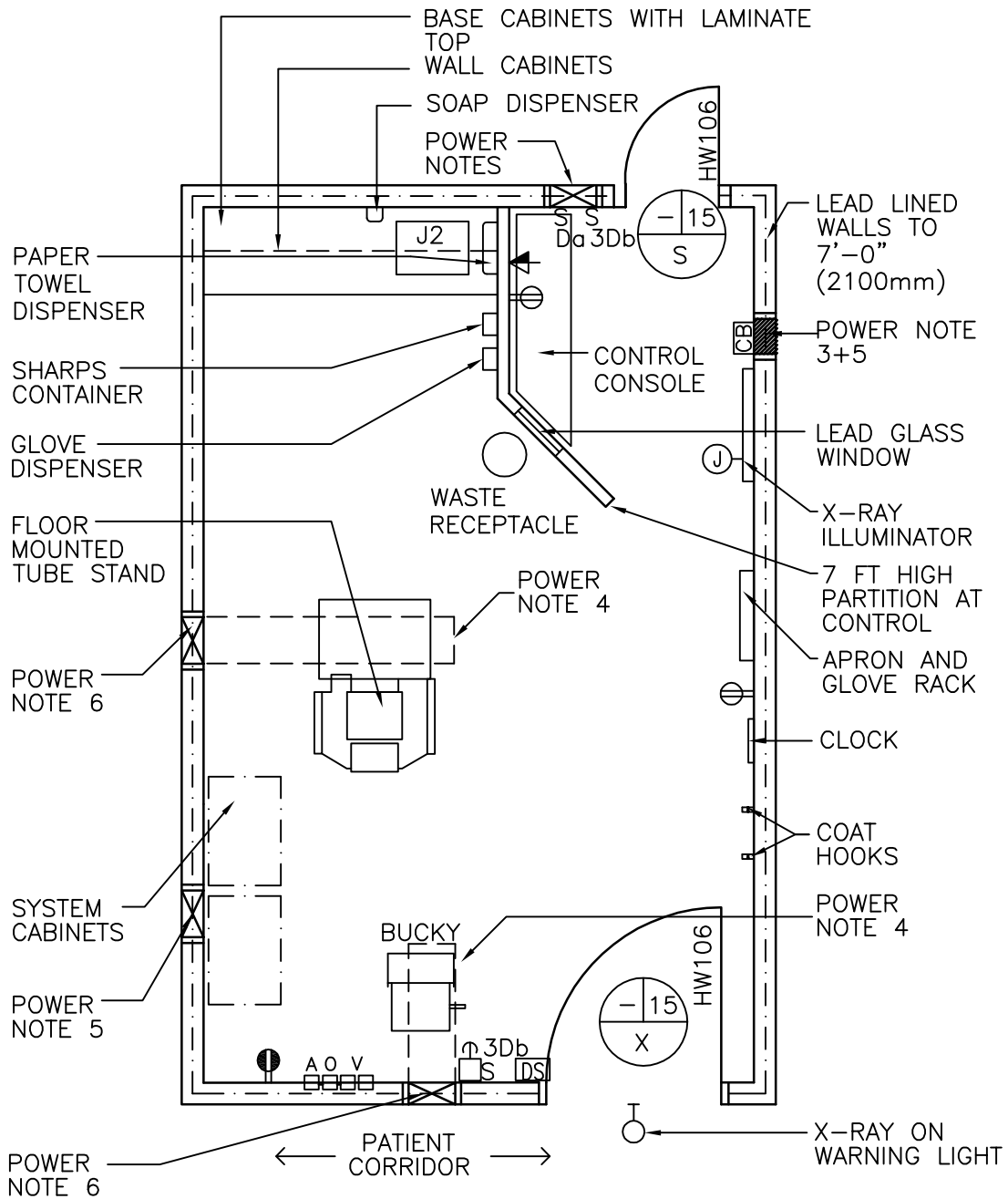
JSN	SYMBOL	QTY	AI	DESCRIPTION
				<b>(C)Plethysmography Station</b>
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
F0205		1	VV	Chair, straight, with arms
M0520		1	VV	Plethysmograph with separate medical gas cylinders
				<b>(D)Diffusion Station</b>
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
F0205		1	VV	Chair, straight, with arms
		AR	VV	Unit, diffusion



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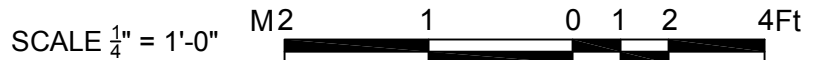


Radiology: Chest Room, Dedicated (XDCS1)  
 Floor Plan



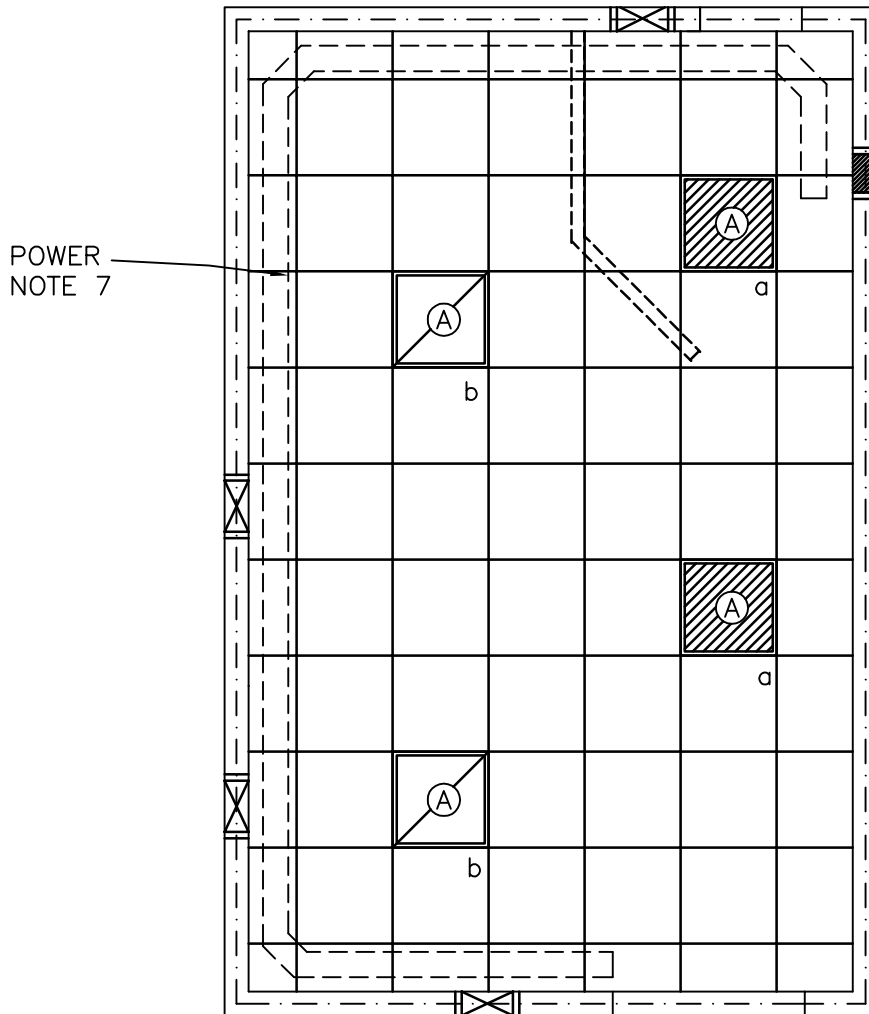
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

250 NSF/ 23.2 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.

Radiology: Chest Room, Dedicated (XDCS1)  
Reflected Ceiling Plan



250 NSF/ 23.2 NSM

SCALE 1/4" = 1'-0"



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.

Radiology: Chest Room, Dedicated (XDCS1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) See PG-18-10 Design Manual for X-Ray Radiation Shielding and Special Control.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General:	--
Special:	--
Notes:	1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum). Non-emergency fixtures have dimming switch for central lamp.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
	5) X-ray on warning light with fluorescent lamp.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	1) The electrical plan is a planning guide only. Final installation shall be coordinated with vendor's installation drawings.

**POWER (cont'd)**

- 2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.
- 3) 480V, 3P, adjustable trip flush mounted circuit breaker with shunt trip. Run empty 2" (600 mm) conduit. from circuit breaker to x-ray duct above finished ceiling.
- 4) Flush floor duct with screw-on cover. Connect to x-ray duct above finished ceiling and terminate at finished floor.
- 5) Flush vertical wall duct with screw-on cover. Connect to floor duct and to x-ray duct above finished ceiling.
- 6) Flush vertical wall duct with screw-on cover. Connect to x-ray duct above finished ceiling and terminate at finished floor.
- 7) X-ray duct above finished ceiling with screw-on cover. Connect to vertical wall ducts.
- 8) Duct sizes shall meet manufacturer requirements.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

Radiology: Chest Room, Dedicated (XDCS1) – Cont'd

Design Standards

**HEATING, VENTILATING AND AIR  
CONDITIONING**

Inside Design Conditions: 70°F (21°C) to  
75°F (24°C) Dry-Bulb  
Temperature  
30 Percent to  
50 Percent  
Relative Humidity  
Minimum Air Changes per Hour: 6  
100% Exhaust: No  
100% Outside Air: No  
Room Air Balance: Positive (+)  
Dedicated Exhaust System: No  
Occupancy: 2  
AC Load-(Equipment): As Required  
AC Load-(Light): As Required  
Notes: 1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

Cold Water: Yes  
Hot Water: Yes  
Laboratory Air: --  
Laboratory Vacuum: --  
Sanitary Drain: Yes  
Reagent Grade Water: --  
Medical Air: Yes  
Medical Vacuum: Yes  
Oxygen: Yes  
Notes: --



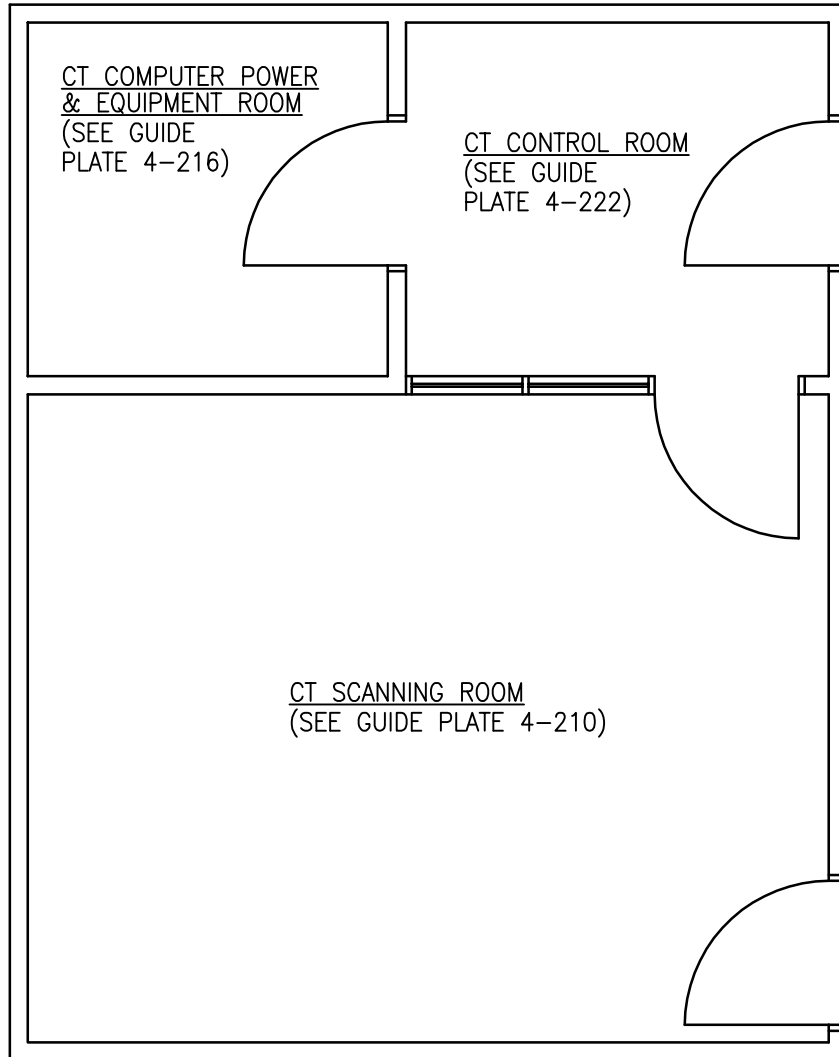
Radiology: Chest Room, Dedicated (XDCS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
				Note: Provide only when approved for a specific project (oxygen, air, vacuum outlet and bracket).
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Connections, plumbing, electrical or mechanical as required
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 49)
		AR	CC	Low level dimmed fluorescent lighting system in addition to general fluorescent illumination system (PG-18-1, MCS 26 51 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
A6105		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 or 12 36 00)
	J-2	1	CC	Sink, corrosion resisting steel, center outlet, 18" x 15" x 8" (450 mm x 380 mm x 200 mm) (PG-18-1, MCS 12 36 00)
		1	CC	Window, lead glass, minimum 18" x 24" (450 mm x 600 mm) (PG-18-1, MCS 13 49 00)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		1	CC	X-ray warning light
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
X5100		1	VC or CF	Automated CR chest unit - consists of the following components as required: Bucky, tilt, wall mounted Cabinet, rack Calculator, heat anode Console, control Module, power Rails, tube, ceiling mounted Stand, tube, ceiling mounted Starter, tube, high speed Transformer, high tension, x-ray Unit, chest, less tube stand Unit, forced extinction Unit, CR plate rotator Automated CR reader
F3200		1	VV	Clock, atomic, battery operated
A5085		1	VV	Dispenser, paper towel, surface mounted
A5145		1	VV	Hook, coat, wall mounted
X3150		1	VV	Rack, glove/apron, wall mounted
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser
X3930		1	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 31" (500 mm x 775 mm), 2 in 1



Radiology: CT Scanning Suite  
KeyPlan



654 NSF/ 60.8 NSM

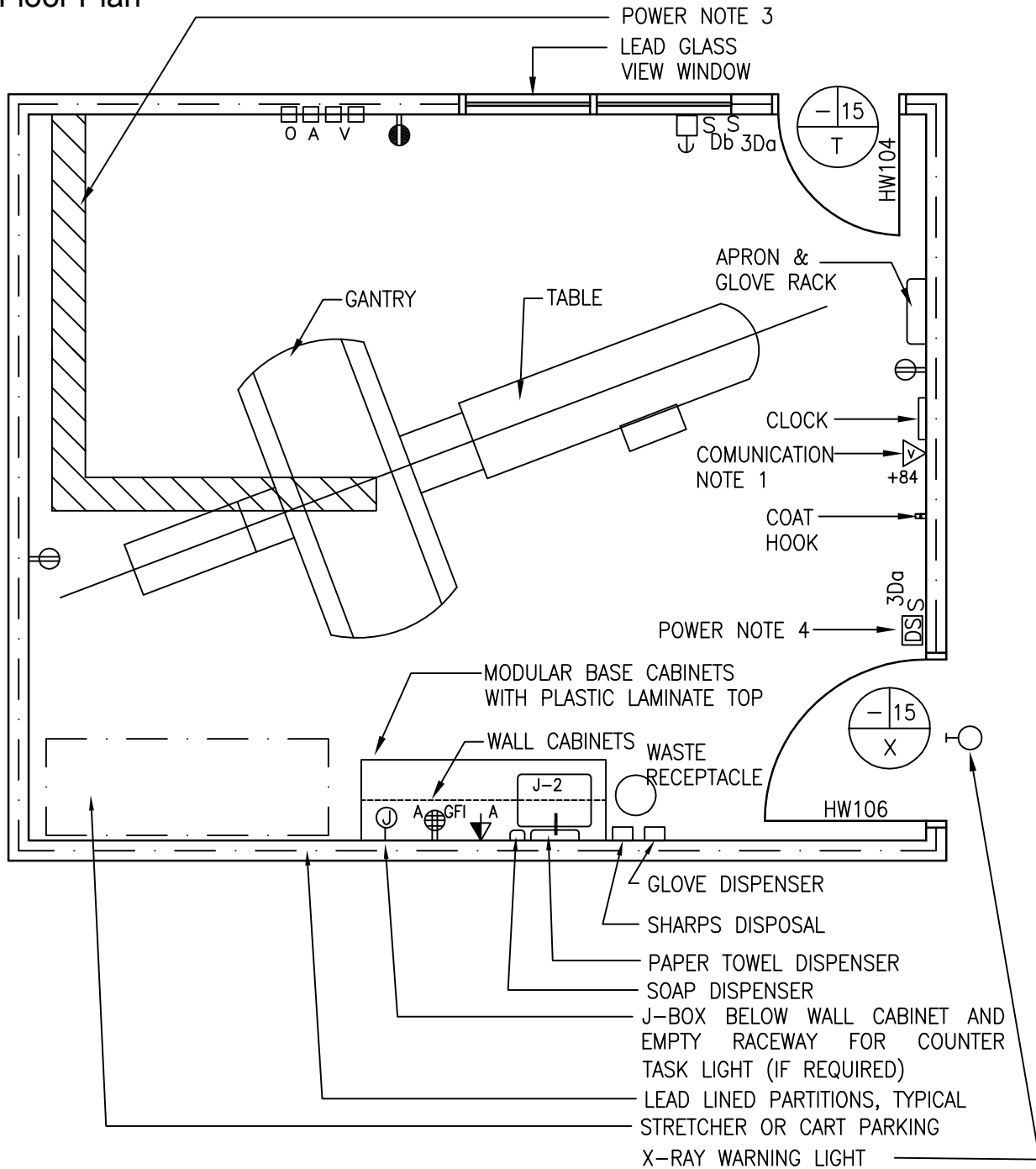
SCALE 3/16" = 1'-0"



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.

Radiology: CT Scanning Room (XCTS1)

Floor Plan



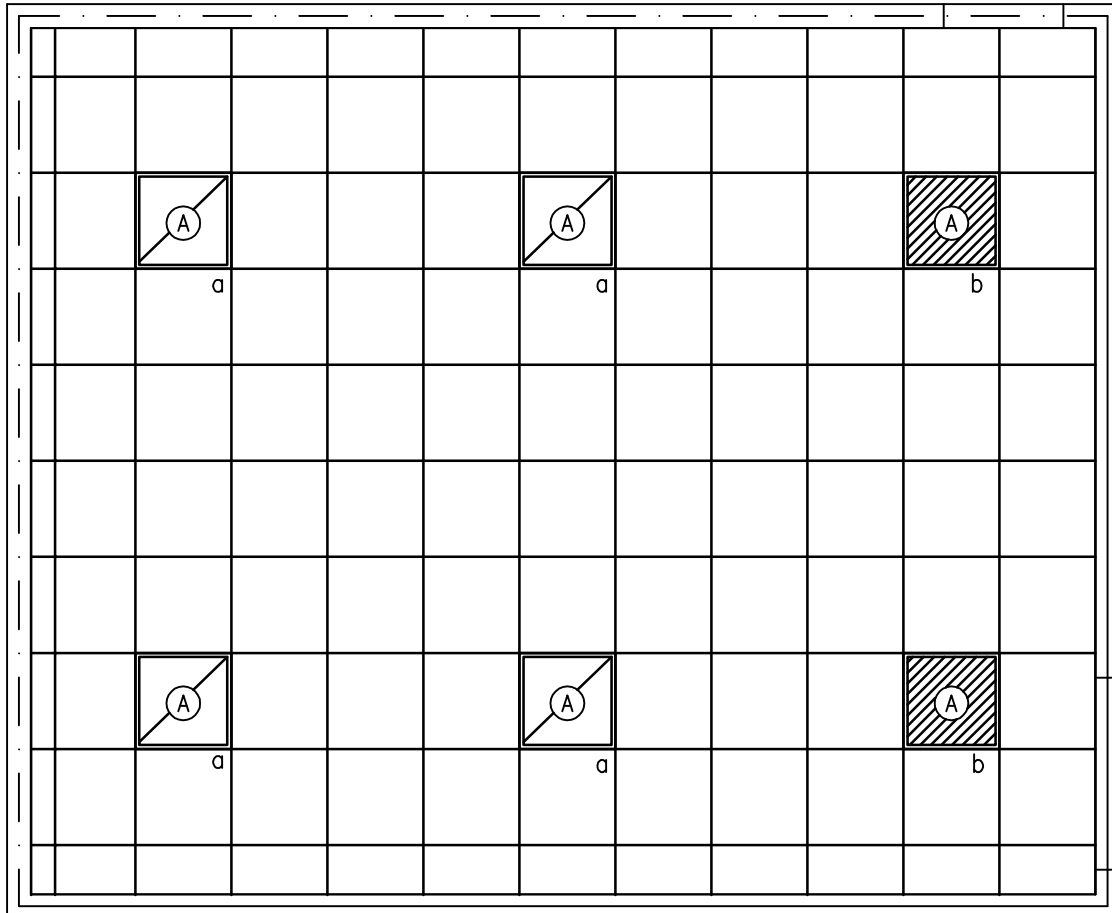
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/PROVIDER.

400 NSF/ 37.2 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.

Radiology: CT Scanning Room (XCTS1)  
Reflected Ceiling Plan



400 NSF/ 37.2 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.

## Radiology: CT Scanning Room (XCTS1)

### Design Standards

#### ARCHITECTURAL

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--

Notes: 1) See PG-18-10, Design Manual for X-ray Radiation Shielding and Special Control.

#### SPECIAL EQUIPMENT

--

#### LIGHTING

General:	--
Special:	--

- Notes: 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum). Down light illumination level for center lamp of non-emergency fixtures controlled by dimmer.
- 2) The foot-candle level is average maintained.
  - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
  - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.
  - 5) X-ray on warning light with fluorescent lamp.

#### POWER

General:	As Shown
Emergency:	As Shown

- Notes: 1) The electrical plan is a planning guide only. Final installation shall be coordinated with vendor's installation drawings.
- 2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

#### POWER (Cont'd)

- 3) Flush floor duct with screw-on cover. Connect to x-ray wall duct. Duct sizes shall meet manufacturer requirements.
- 4) Run 1/2" (25 mm) C. from door switch to junction box at x-ray controller. Connect door switch so that if door is opened the x-ray system will be shut off.

#### COMMUNICATION/SPECIAL SYSTEMS

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	Yes
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--

Notes: 1) Junction box for CCTV camera with conduit to adjacent control room.

#### HEATING, VENTILATING AND AIR CONDITIONING

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
	For Gantry, Provide 45 Percent Relative Humidity in Winter
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required

Notes: 1) Verify cooling loads and other specific requirements with the equipment manufacturer.

- 2) Provide domestic cold water backup to gantry chiller when required.
- 3) Year around conditions.



Radiology: CT Scanning Room (XCTS1) – Cont'd

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Design Standards

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



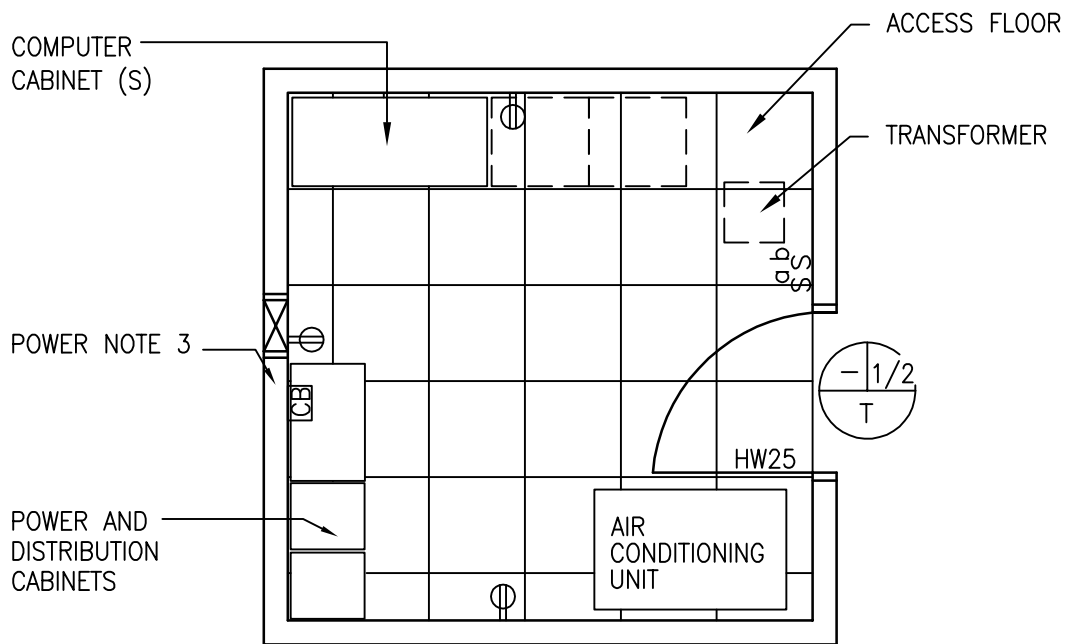
Radiology: CT Scanning Room (XCTS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Low level dimmed fluorescent lighting system in addition to general fluorescent illumination system (PG-18-1, MCS 26 51 00)
				Note: Gas outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 49)
E0210		AR	CC	Modular casework base and wall cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 or 12 36 00)
	J-2	1	CC	Sink, corrosion resisting steel, with center drain outlet, 18" x 15" x 8" (450 mm x 380 mm x 200 mm) (PG-18-1 & PG-18-6, MCS 12 36 00)
		1	CC	Window, lead glass (PG-18-1, MCS 13 49 00)
		1	CC	Outlet, CCTV, with conduit to control room (PG-18-1, MCS 27 05 33)
		1	CC	X-ray warning light
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, with ground fault interrupter (PG-18-1, MCS 26 27 26)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
X6240		1	VC	Radiographic unit, computerized tomography (CT) including gantry and mounting frame; table, patient and mounting frame
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		1	VV	Hook, coat, wall mounted
X3150		1	VV	Rack, glove/apron, wall mounted
F2017		1	VV	Receptacle, waste, step-on type approx. 12" (300 mm) diameter
A5106		1	VV	Glove dispenser, wall mounted
A5106		1	VV	Sharps container, wall mounted

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Radiology: CT Computer Power and Equipment Room (XCTC1)  
 Floor Plan



120 NSF/ 11.2 NSM

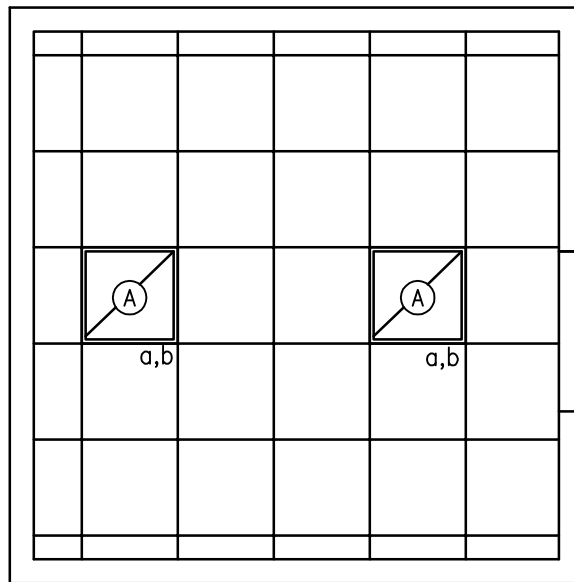
SCALE  $\frac{1}{4}'' = 1'-0''$



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.



radiology: CT Computer Power and Equipment Room (XCTC1)  
Reflected Ceiling Plan



120 NSF/ 11.2 NSM

SCALE  $\frac{1}{4}$ " = 1'-0"



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.

Radiology: CT Computer Power and Equipment Room (XCTC1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	AF
Slab Depression:	4" (100 mm)
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--

- Notes:
- 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).
  - 2) The foot-candle level is average maintained.
  - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
  - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown

- Notes:
- 1) The electrical plan is a planning guide only. Final design and installation shall be coordinated with vendor's installation drawings.
  - 2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.
  - 3) 480V, 3P, adjustable trip flush mounted circuit breaker with shunt trip. Run empty 2' (600 mm) C. from circuit breaker to x-ray duct above finished ceiling.

**POWER (Cont'd)**

- 4) Flush floor duct with screw-on cover. Connect to x-ray wall duct. Duct size shall comply with manufacturer requirements.
- 5) Provide separate power feeds to air conditioning unit, power distribution and conditioning cabinets, and computer cabinet. Coordinate power and design requirements with equipment manufacturer.
- 6) Each clinic shall determine, based on their operational needs, which radiology service equipment is on emergency power.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Verify cooling loads and other specific requirements with the equipment manufacturer.</li> <li>2) Provide split system computer room unit sized in consultation with computer equipment manufacturer.</li> </ol>

Radiology: CT Computer Power and Equipment Room (XCTC1)

---

Design Standards

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



**Radiology: CT Computer Power and Equipment Room (XCTC1)**

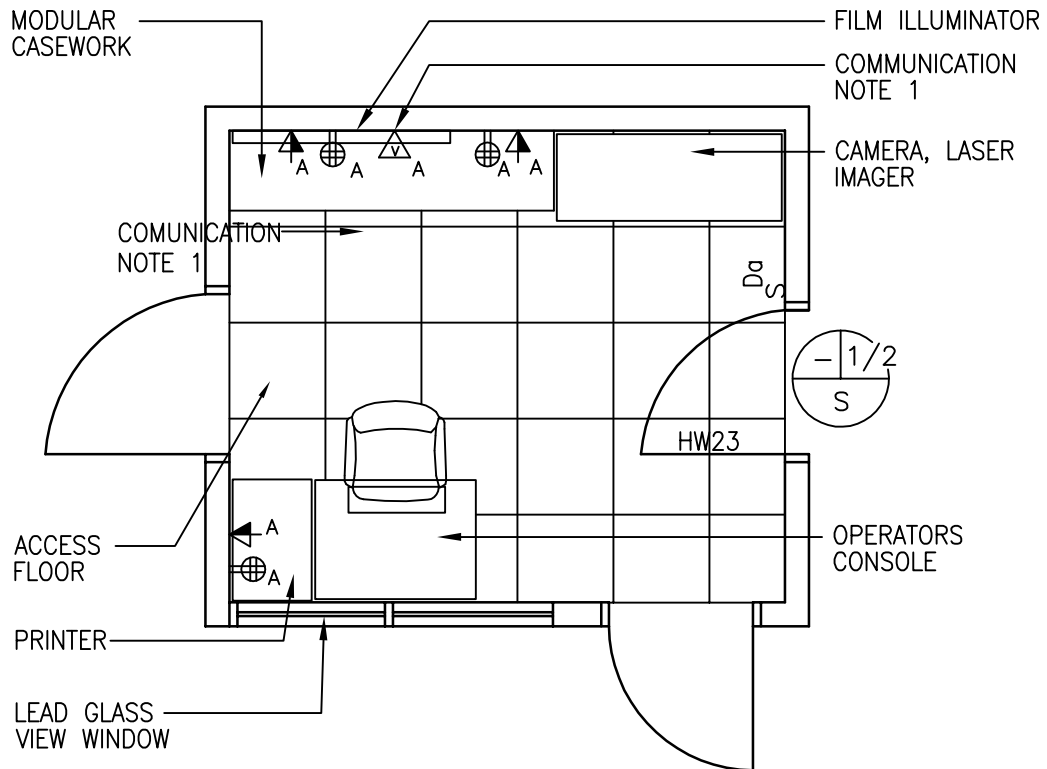
**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		AR	VC	Air conditioning unit
		AR	VC	Computer cabinet, auxiliary
		AR	VC	Computer cabinet, main
		1	VC	Power cabinet
		1	VC	Power line protector
		1	VC	Transformer, high voltage
		1	VC	Unit, power distribution

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Radiology: CT Control Room (XCTC1)  
 Floor Plan



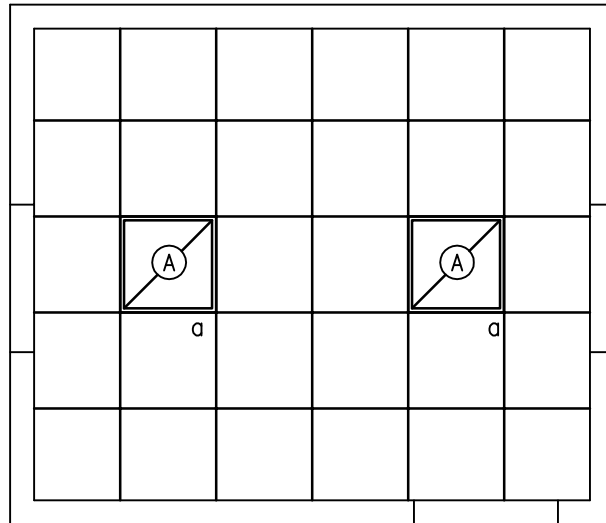
120 NSF/ 11.2 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Radiology: CT Control Room (XCTC1)  
Reflected Ceiling Plan



120 NSF/ 11.2 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Radiology: CT Control Room (XCTC1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	AF
Slab Depression:	4" (100 mm)
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70 (minimum).</li> <li>2) Center lamps are controlled by dimmer.</li> <li>3) The foot-candle level is average maintained.</li> <li>4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) The electrical plan is a planning guide only. Final installation shall be coordinated with vendor's installation drawings.</li> <li>2) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	Yes
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Junction box for CCTV monitor.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--



## Radiology: CT Control Room (XCTC1)

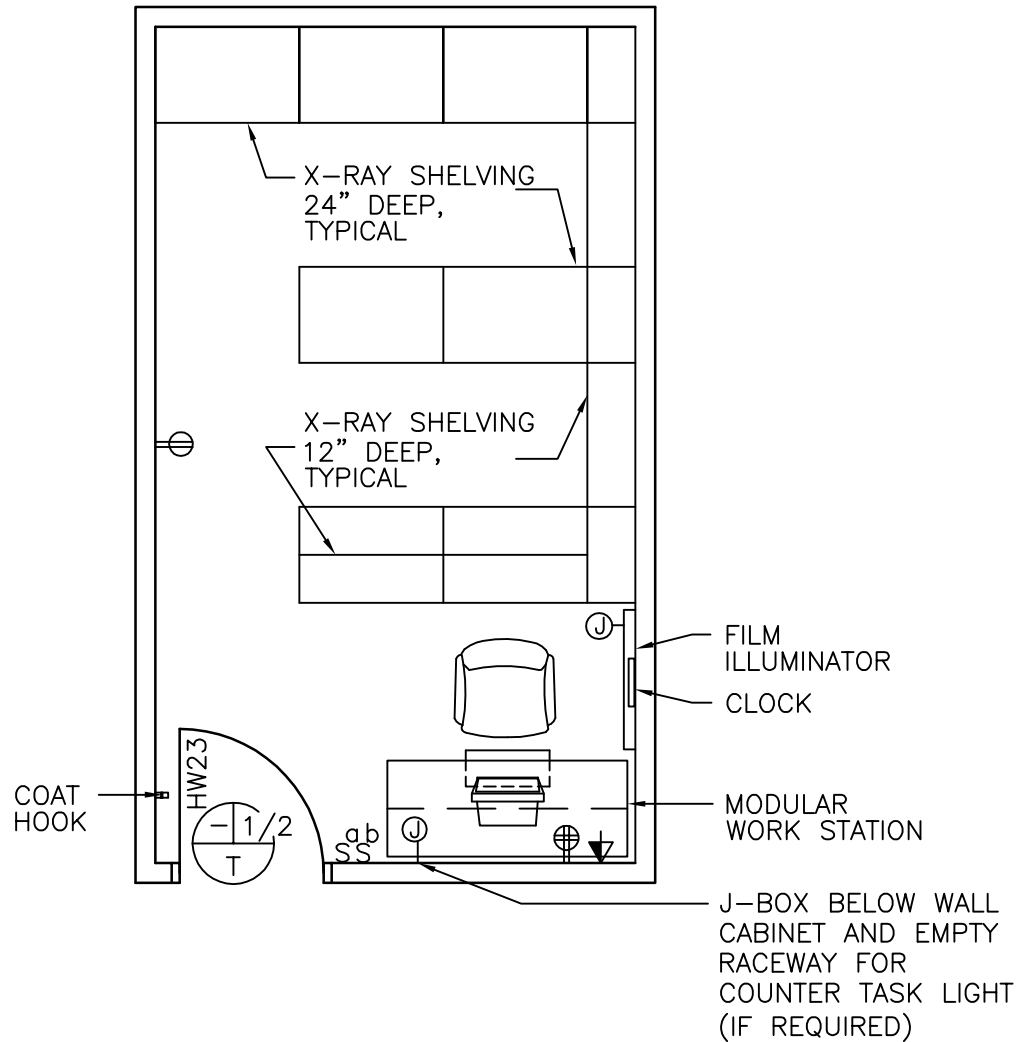
## Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Fluorescent, dimming system (PG-18-1, MCS 26 51 00)
		1	CC	Outlet, monitor, closed circuit television (empty conduit system) (PG-18-1, MCS 27 05 33)
		1	CC	Window, lead glass, 55" x 48" (1375 mm x 1200 mm) (PG-18-1, MCS 13 49 00)
A6105		AR	CC	Modular casework base cabinets with plastic laminate top (PG-18-1, MCS 12 32 00 and 12 36 00)
A1010		AR	CC	Outlet, telephone/data (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical quadruplex (PG-18-1, MCS 26 27 26)
		1	VC	Console, operators, for scanner table and gantry (capacity of generator to be determined on project basis)
M1825		AR	VC	Printer, line
X1425		1	VV	Camera, laser, imager, approx. 51" x 26" x 47" (1275 mm x 650 mm x 1175 mm)
F0275		1	VV	Chair, operator's
X3930		1	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 30" (500 mm x 750 mm), 2 in 1



Radiology: Film Library (XFFA1)

Floor Plan



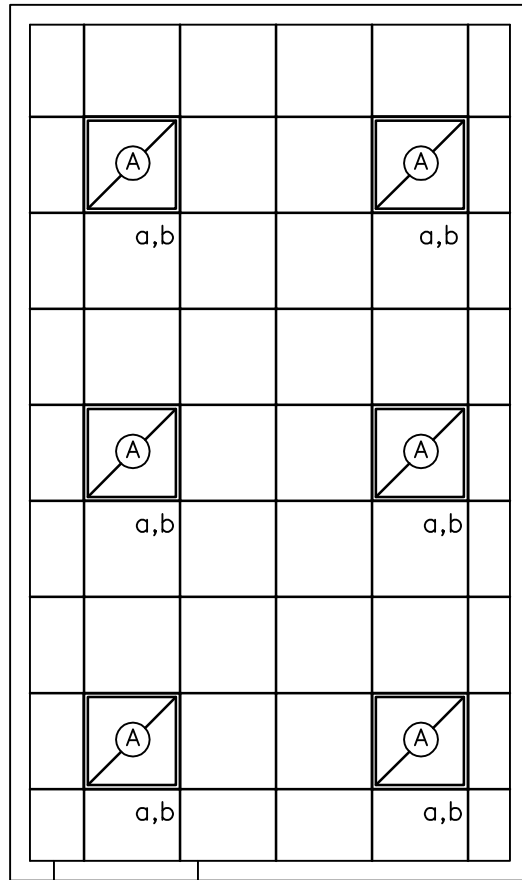
175 NSF/ 16.3 NSM

SCALE 1/4" = 1'-0"



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Radiology: Film Library (XFFA1)  
Reflected Ceiling Plan



175 NSF/ 16.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Radiology: Film Library (XFFA1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Sound Protection:	--
Notes:	1) Full height partitions around perimeter.

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture with 3500°K lamps and color rendering index not less than 70.
	2) The foot-candle level is average maintained.
	3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
	4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	1) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	40 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	4
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Neutral (0)
Dedicated Exhaust System:	No
Occupancy:	2
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

## Radiology: Film Library (XFFA1)

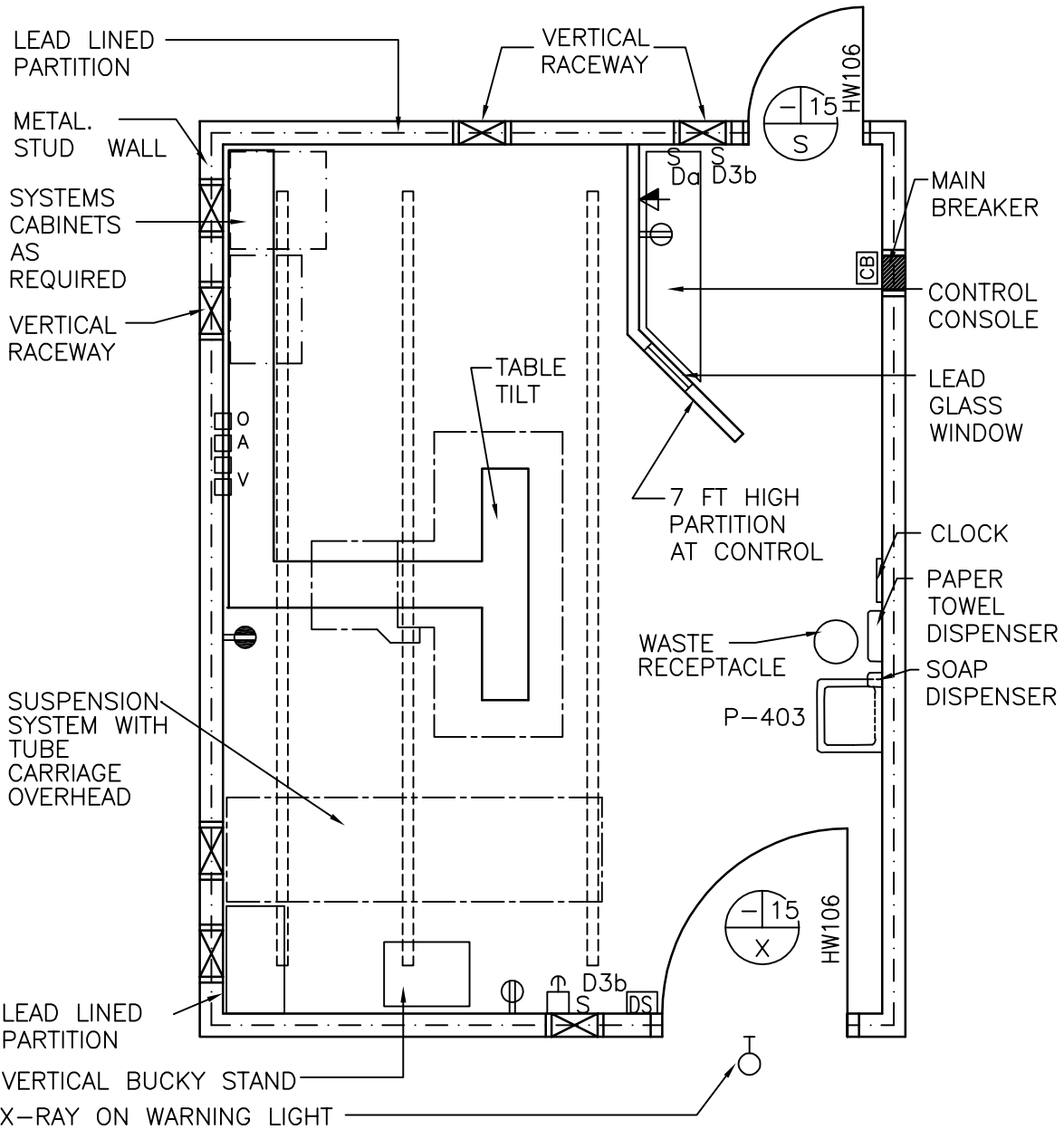
## Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
X1170		AR	CC	Shelving, floor standing, steel, x-ray film filing 36" W x 24" D x 90" H (900 mm W x 600 mm D x 2250 mm H) with movable dividers (PG-18-1, MCS 12 31 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
M1801		1	CC	PC, computer system, with keyboard
X1170		AR	CC	Shelving, floor standing, steel, 36" W x 12-1/2" D x 87" H (900 mm W x 325 mm D x 2175 mm H), with movable dividers 11-1/2" x 7-1/4" (300 mm x 175 mm) (PG-18-1, MCS 12 31 00)
F3200		1	VV	Clock, atomic, battery operated
F0205		AR	VV	Chair, rotary, with arms
A5145		1	VV	Hook, coat, wall mounted
X3930		1	VV	Illuminator, x-ray film, 120 volt, wall mounted, individual switch for two, 14" x 17" (350 mm x 425 mm) radiographs, 31" x 20" (775 mm x 500 mm)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.



Radiology: General Purpose Room (XDRO1)

Floor Plan



SEE ALSO PG-18-4, SD 13 49 00-3 LAYOUT AND NCS SD 13 49 00-4 FOR RACEWAY LAYOUT FOR DOD/VA UNIVERSAL X-RAY ROOM

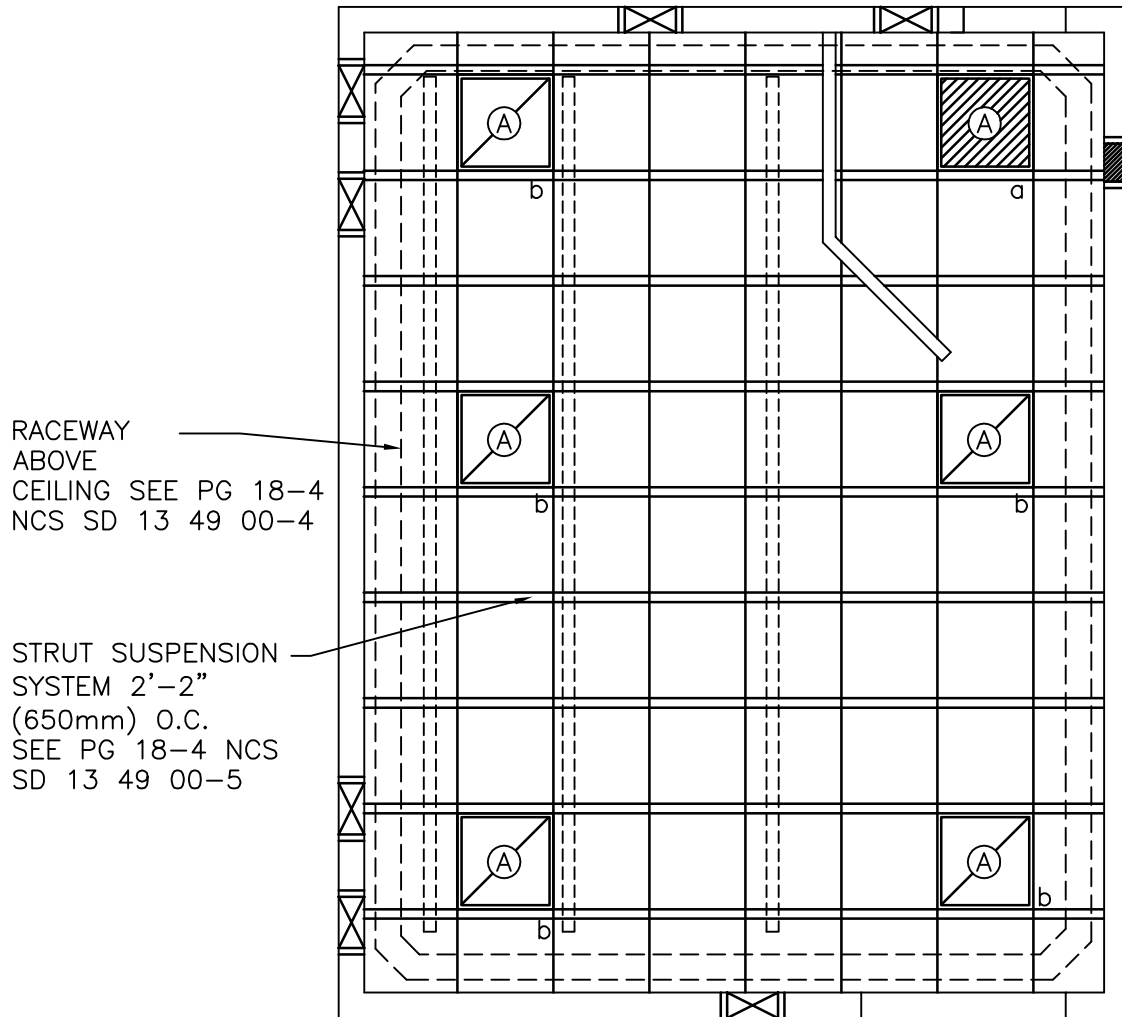
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

300 NSF/ 27.9 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.

Radiology: General Purpose Room (XDRO1)  
 Reflected Ceiling Plan



300 NSF/ 27.9 NSM

SCALE 1/4" = 1'-0"



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Radiology: General Purpose Room (XDRO1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--

Notes: 1) 4'-0" (1200 mm) lead lined entry door. See PG-18-10 Design Manual for Radiation shielding and special control room requirements.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General:	--
Special:	Dimming

- Notes: 1) 2' x 2' (600 mm x 600 mm) fluorescent fixture, acrylic prismatic lens top and bottom w/ T8 lamps, 3500°K (minimum), CRI=70 (minimum). The center lamp of non-emergency fixtures is controlled by dimmer switch.
- 2) Fluorescent x-ray on warning light fixture.
- 3) The foot-candle level is average maintained.
- 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
- 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown

- Notes: 1) The electric plan is a planning guide only. Refer to VA/DOD universal room layout (PG-18-4, NCS SD 13 49 00). Final installation shall be coordinated with vendor's installation drawings.
- 2) Refer to PG-18-4, NCS SD 13 49 00-4 for typical above ceiling raceway system.

**POWER (Cont'd)**

- 3) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	40 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes: 1) Verify cooling loads and other specific requirements with the equipment.	
2) Year around conditions.	

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

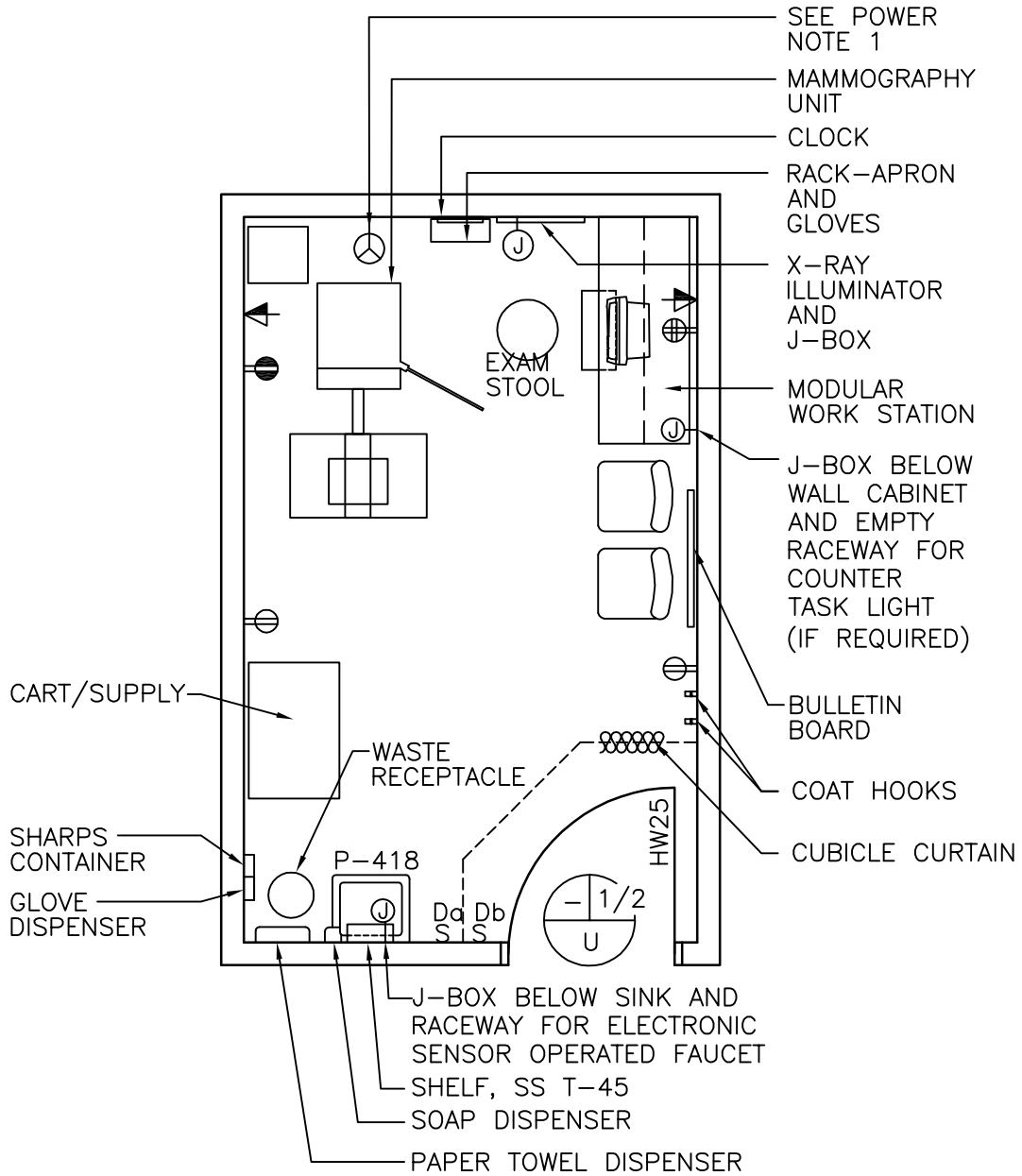


Radiology: General Purpose Room (XDRO1)

Equipment List

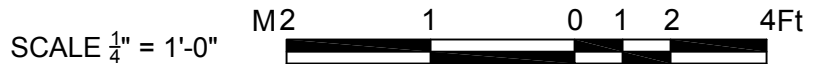
JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 36)
P3100	P-403	1	CC	Lavatory, straight back, foot pedal control (PG-18-1, MCS 22 40 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		1	CC	Window, viewing lead glass, for patient observation (PG-18-1, MCS 13 49 00)
		1	CC	X-ray warning light
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00) Note: Outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
X5900		1	VC	Radiographic unit – including the following components as required: Starter, tube, high speed Module, power Transformer, high tension, x-ray Table, radiographic, flat bucky or Table, tilt, 90 degree vertical, 15 degree trendelenburg Table, flat, modified with tray for multi-cassettes for body sectional technique (provide only when approved for a specific project) Tube carriage, ceiling mounted Rails, ceiling for tube carriage, universal mount Attachment, body section (provide when approved for a specific project) Bucky, tilt, wall mounted Control, attachment, body section (provide only when approved for a specific project) Headstand, radiographic Changer, cassette Console, control, x-ray, for radiographic unit
				Note: Optional components to be determined by Veterans Health Administration.
F3200		1	VV	Clock, atomic, battery operated
A5080		1	VV	Dispenser, paper towel, surface mounted
F2017		1	VV	Receptacle, waste, step on type, approx., 12" (300 mm) diameter, provide only when approved for a specific project (oxygen, air, vacuum outlet and bracket)

Radiology: Mammography Room (XDM01)  
 Floor Plan



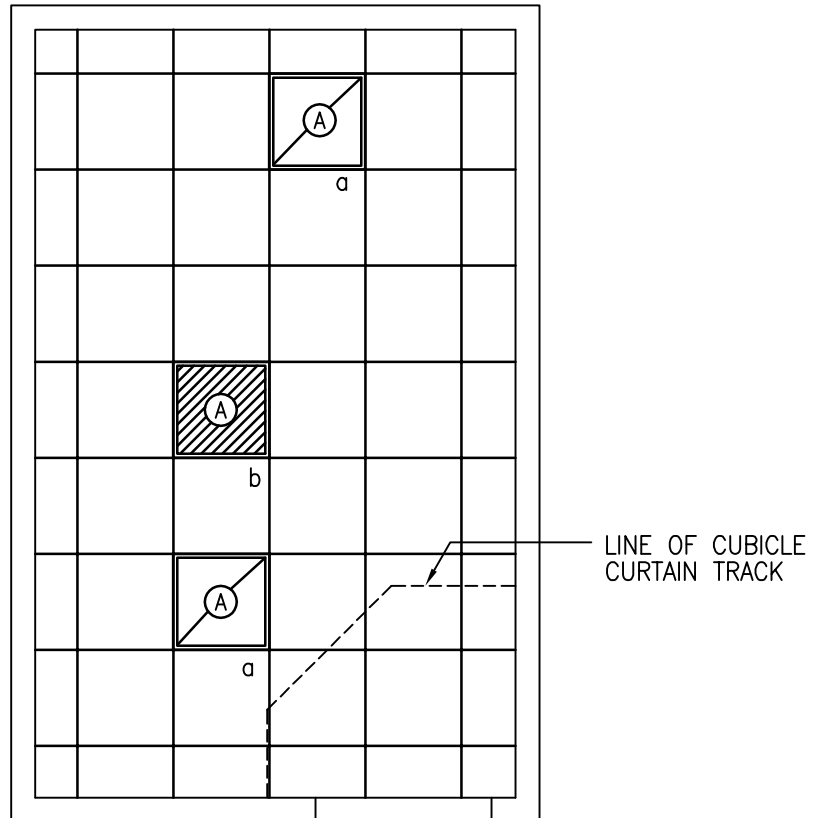
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

160 NSF/ 14.9 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.

Radiology: Mammography Room (XDM01)  
Reflected Ceiling Plan



160 NSF/ 14.9 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Radiology: Mammography Room (XDM01)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	3'-8" (1100 mm) wide door

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps, 3500°K, CRI=70. Center lamp of non-emergency fixture controlled by dimmer switch.</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	<ol style="list-style-type: none"> <li>1) Mammography unit receptacle light fixture above unit and x-ray illuminator shall be on emergency power.</li> <li>2) Coordinate location and height of work station receptacles with modular furniture.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) Verify cooling loads and other specific requirements with equipment manufacturer.</li> <li>2) Year around conditions.</li> </ol>

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Notes:	--

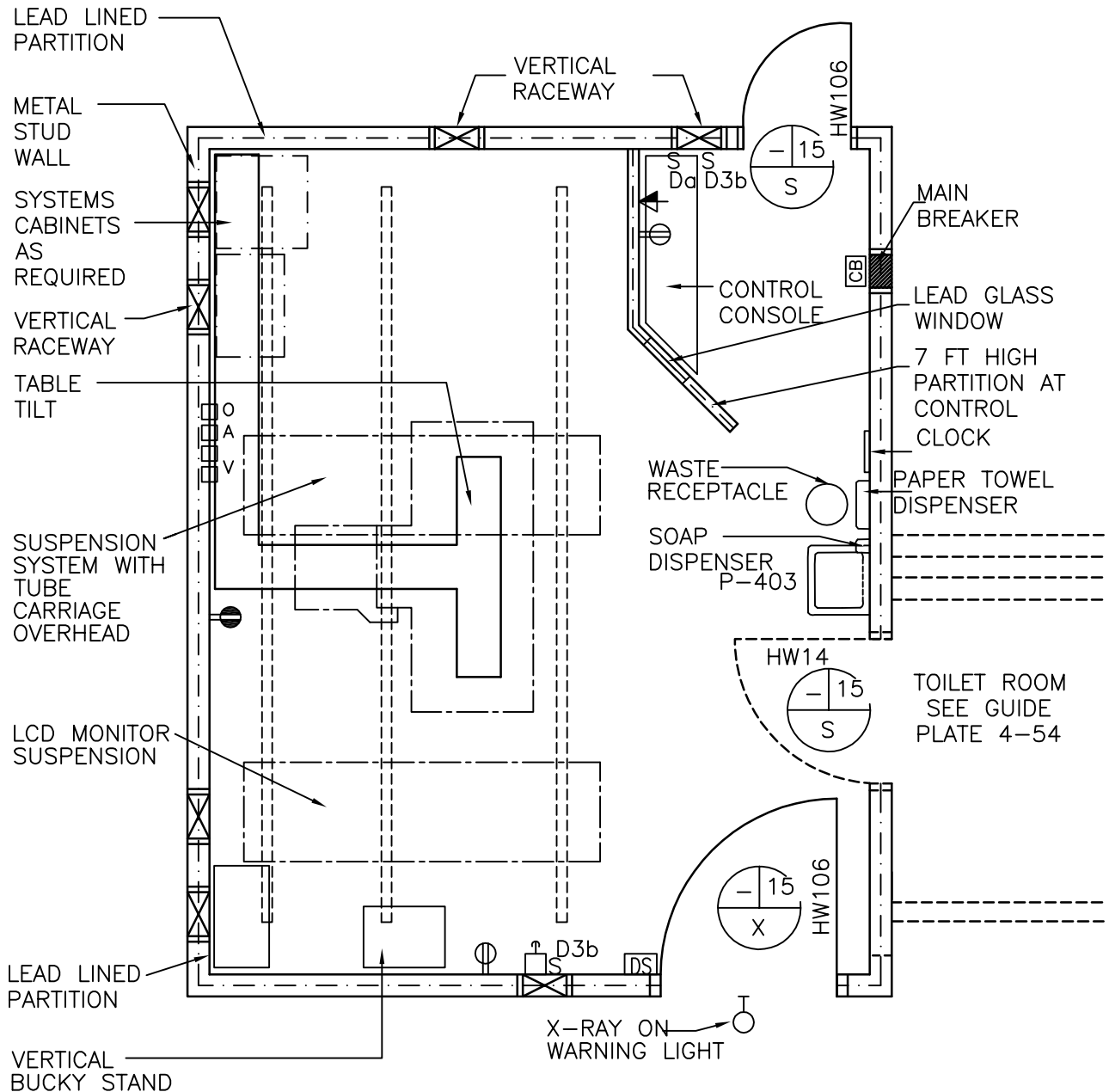
## Radiology: Mammography Room (XDM01)

## Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5165	T45	1	CC	Shelf, corrosion resisting steel, 12" W x 5" D (300 mm W x 125 mm D) (PG-18-1, MCS 10 28 00; PG-18-4, NCS SD 10 28 00-4)
A5180		1	CC	Track, curtain, cubicle, ceiling mounted (PG-18-1, MCS 10 21 23)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
X3150		1	CC	Rack, glove/apron, wall mounted
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
X5430		1	VC	Unit, mammography with chair
F3010 or F3025		1	VV	Bulletin board, 36" x 24" (900 mm x 600 mm)
F0205		2	VV	Chairs, straight, without arms
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system, with keyboard
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
A5145		2	VV	Hook, coat, wall mounted
A5180		1	VV	Curtain, cubicle
X3930		1	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 31" (500 mm x 775 mm), 2 in 1
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
		1	VV	Stool, examining, adjustable
F0525		1	VV	Cart, supply, mobile 29" W x 20" D (740 mm W x 500 mm D)

Radiology: Radiographic/ Fluoroscopic Room with Control (XDRF1)

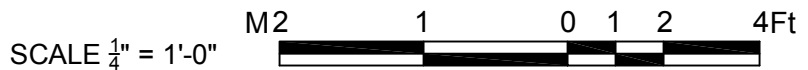
Floor Plan



SEE ALSO PG-18-4, SD 13 49 00-3 LAYOUT AND NCS SD 13 49 00-4 FOR RACEWAY LAYOUT FOR DOD/VA UNIVERSAL X-RAY ROOM

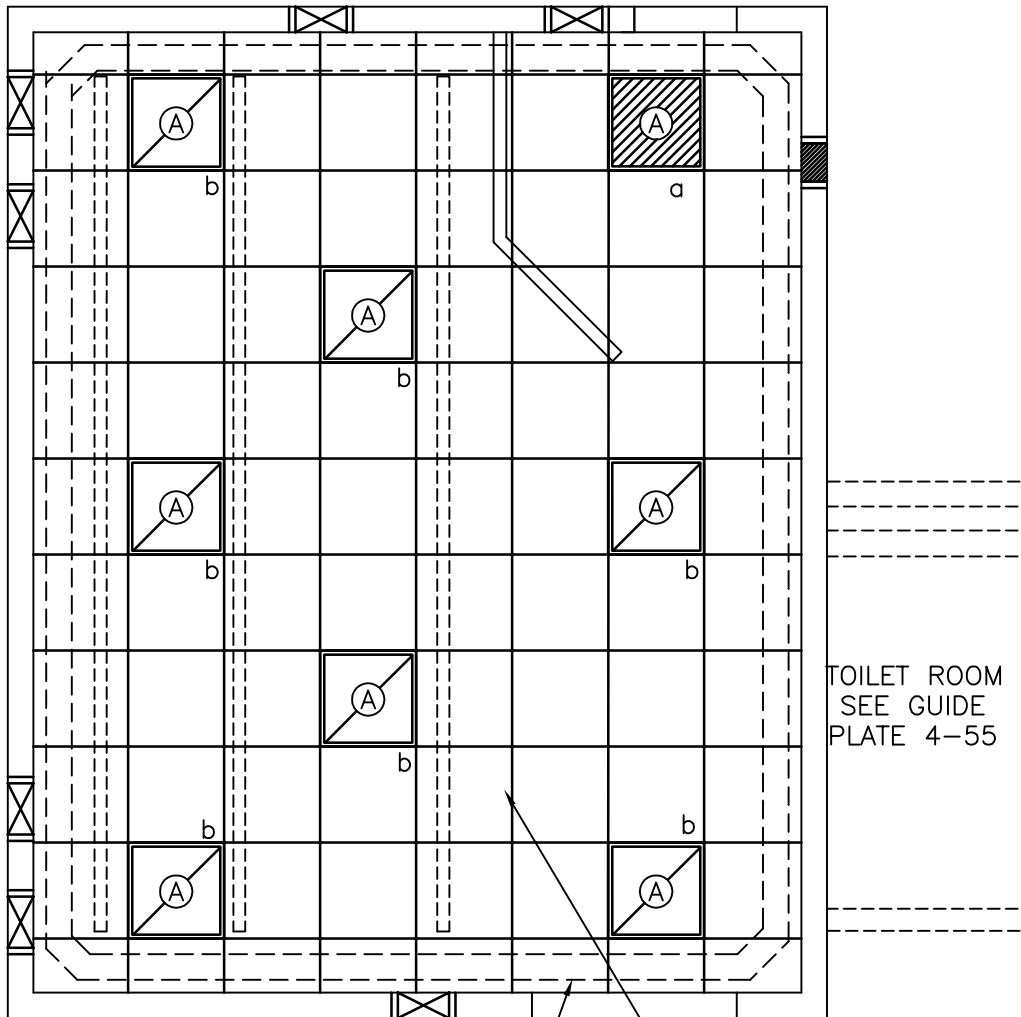
NOTE: RADIOLOGY EQUIPMENT LAYOUT SHOWN IS TYPICAL, EXACT EQUIPMENT LAYOUT SHALL BE COORDINATED WITH RADIOLOGY EQUIPMENT MANUFACTURER/ PROVIDER.

320 NSF/ 29.8 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.

Radiology: Radiographic/ Fluoroscopic Room with Control (XDRF1)  
 Reflected Ceiling Plan



RACEWAY ABOVE CEILING SEE  
 PG 18-4 NCS SD 13 49 00-4

STRUT SUSPENSION SYSTEM 2'-2" (650mm)  
 O.C. SEE PG 18-4 NCS SD 13 49 00-5

TOILET ROOM  
 SEE GUIDE  
 PLATE 4-55

320 NSF/ 29.8 NSM

SCALE  $\frac{1}{4}" = 1'-0"$  M2 1 0 1 2 4Ft

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.

Radiology: Radiographic / Fluoroscopic Room with Control (XDRF1)

Design Standards

**ARCHITECTURAL**

Ceiling: AT  
 Ceiling Height: 9'-6" (2900 mm)  
 Toilet: 9'-0" (2700 mm)  
 Wall Finish: GWB-P  
 CT 48" (1200 mm) in Toilet  
 Wainscot: --  
 Base: RB  
 CT in Toilet  
 Floor Finish: VCT  
 CT in Toilet  
 Slab Depression: 4" (100 mm) in R/F room  
 Notes: 1) 4'-0" (1200 mm) wide door into R/F room. See PG-18-10 Design Manual for X-Ray Radiation Shielding and Special Control Room Requirements.

**SPECIAL EQUIPMENT**

**LIGHTING**

General: --  
 Special: --  
 Notes: 1) Fluorescent 2' x 2' (600 mm x 600 mm) fixture, acrylic prismatic lens w/ T8 lamps, 3500° K (minimum), CRI=70 (minimum). Center lamp of non-emergency fixtures is controlled by dimmer switch.  
 2) Fluorescent x-ray on fixture.  
 3) The foot-candle level is average maintained.  
 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown  
 Notes: 1) The electric plan is a planning guide only. Refer to VA/DOD universal room layout (PG-18-4, NCS, SD 13 49 00-3). Final installation shall be coordinated with vendor's installation drawings.

**POWER (Cont'd)**

2) Refer to PG-18-4 NCS SD 13 49 00-4 for typical above ceiling raceways.  
 3) Electrical trades shall provide necessary conduit, openings, bushings, nipples, flexible conduit etc., as required at the various junction boxes, duct and conduit terminations to allow proper connections of the x-ray equipment and related accessories.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: --  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: 1) Nurse call in toilet room to annunciate at reception desk.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature  
 40 Percent to 50 Percent Relative Humidity  
 Minimum Air Changes per Hour: 6 for R/F Room  
 10 for Toilet Exhaust  
 100% Exhaust: No  
 100% Outside Air: No  
 Room Air Balance: Negative (-)  
 Dedicated Exhaust System: No  
 Occupancy: 4  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Year around conditions.



**Radiology: Radiographic / Fluoroscopic Room with Control (XDRF1)- Cont'd**  
**Design Standards**

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--



Radiology: Radiographic Fluoroscopic Room With Control (XDRF1)

Equipment List

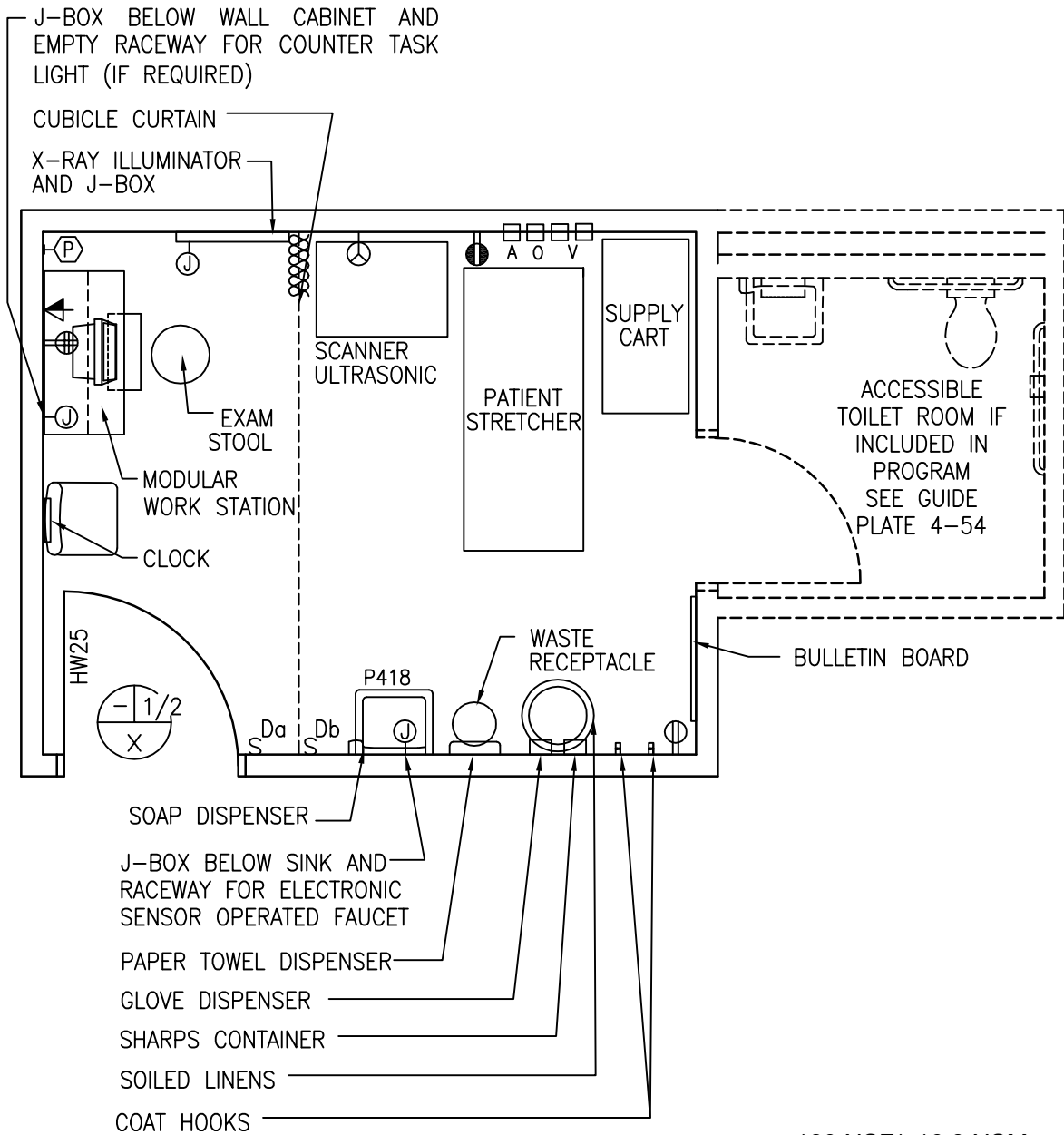
JSN	SYMBOL	QTY	AI	DESCRIPTION
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Shielding, radiation, for rooms with fixed x-ray equipment, in accordance with (PG-18-1, MCS 13 49 00; PG-18-4, SD 13 49 00-1 and NCRP Report No. 33, 35 and 36)
P3100	P-403	1	CC	Lavatory, straight back pedal control (PG-18-1, MCS 22 40 00)
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
		1	CC	Window, viewing lead glass, for patient observation (PG-18-1, MCS 13 49 00)
		1	CC	X-ray warning light
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00) Note: Outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Emergency power off (EPO), push button (PG-18-1, MCS 26 27 26)
X6185		1	VC	Radio/fluoro unit – including the following components as required: Bucky, tilt, wall mounted Console, control, x-ray, for radiographic unit Rails, ceiling for tube carriage, universal mount Recorder, TV tape Starter, tube, high speed Suspension system LCD monitor Table, 90 degree – 15 degree trendelenburg R&F, with spot film device (two-way or four-way table top and size of spot film device to be determined on project basis) Table, tilt, 90 degree – 900 degree R&F, with spot film device (two-way or four-way table top and size of spot film device to be determined on project basis) Transformer, high tension, x-ray Tube carriage, ceiling mounted
				Note: Optional components to be determined by Veterans Health Administration.
A5080		1	VV	Dispenser, paper towel, surface mounted
F3200		1	VV	Clock, atomic, battery operated
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter, provide only when approved for a specific project (oxygen, air, vacuum outlet and bracket)

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Radiology: Ultrasound Room (XDUS1)

Floor Plan



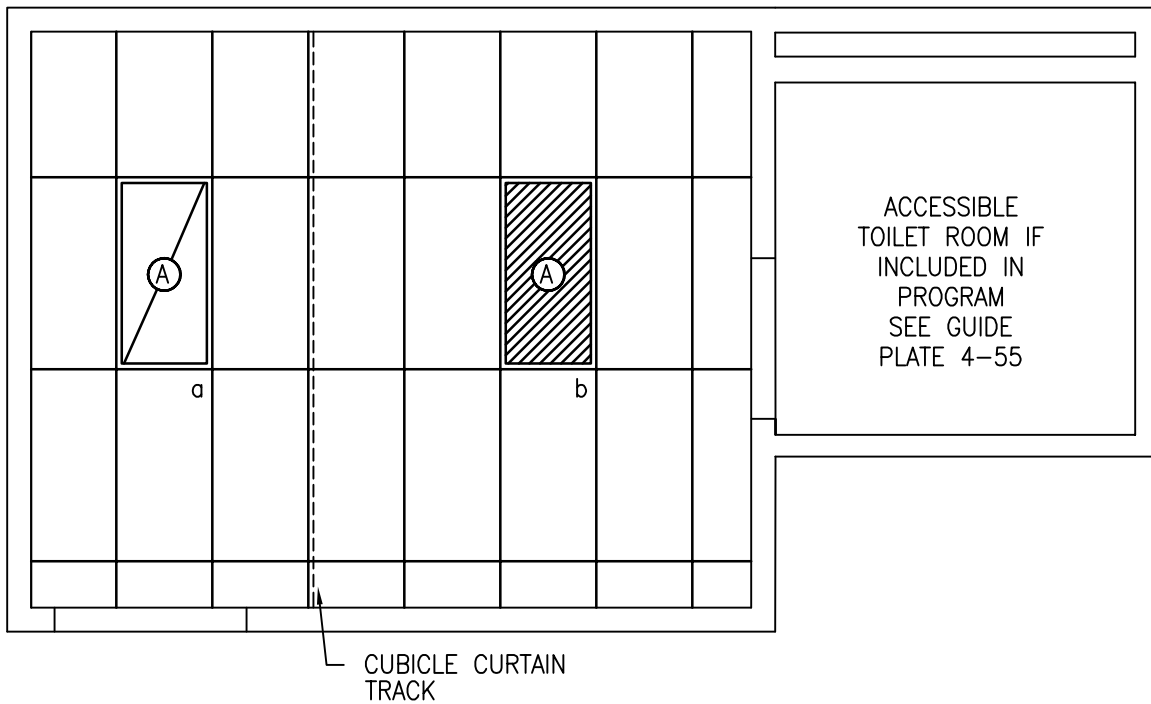
180 NSF/ 16.8 NSM

Toilet add: 55 NSF/ 4.6 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.

Radiology: Ultrasound Room (XDUS1)  
Reflected Ceiling Plan



180 NSF/ 16.8 NSM  
Toilet add: 55 NSF/ 4.6 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Radiology: Ultrasound Room (XDUS1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-P
Wainscot:	--
Base:	RB
Floor Finish:	VCT
Slab Depression:	--
Notes:	1) Patient toilet, see Guide Plate 4-250.

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Notes:	1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 3500°K, CRI=70. 2) The foot-candle level is average maintained. 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch. 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Notes:	1) Coordinate location and height of work station receptacles with modular furniture. 2) Exam table may be wall outlet connected.

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	6
100% Exhaust:	Toilet
100% Outside Air:	No
Room Air Balance:	Positive (+) Ultrasound Negative (-) Toilet
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	1) Year around conditions.

**PLUMBING AND MEDICAL GASES**

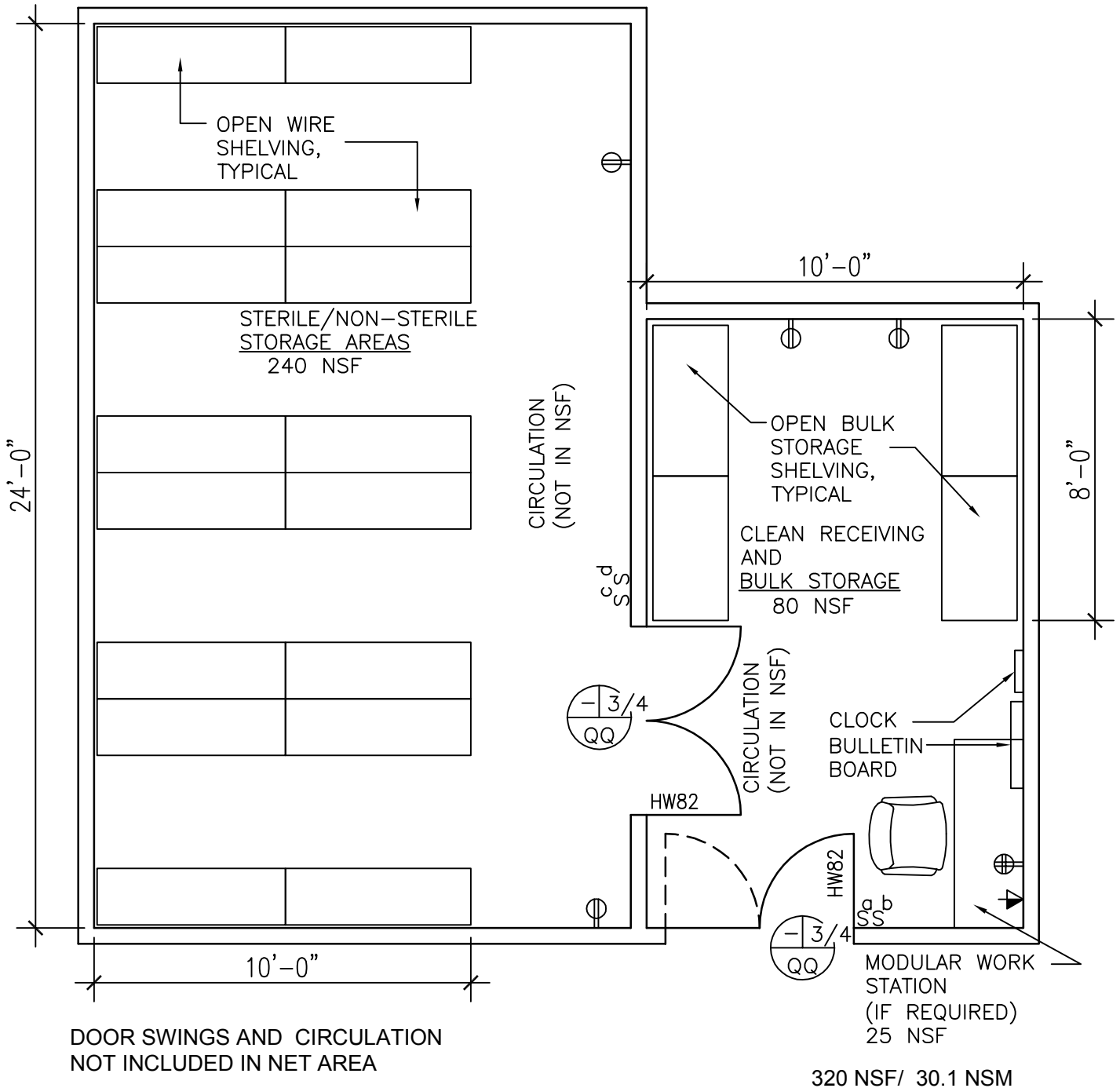
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

Radiology: Ultrasound Room (XDUS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Dispenser, soap, wall mounted with foot control (PG-18-1, MCS 10 28 00)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle (PG-18-1, MCS 10 21 23)
		AR	CC	Services, electrical, as required for equipment
		AR	CC	Low level fluorescent dimmed lighting system in addition to general fluorescent illumination system (PG-18-1, MCS 26 51 00)
				Note: Gas outlets to be on the wall, near headend of x-ray table, 60" (1520 mm) above the floor.
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
E0210		AR	CC	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-1-1, MCS 26 27 26)
		1	CC	Alarm button, security/duress (PG-18-1, MCS 27 52 31)
A4555		AR	VV	Stretcher, recovery approx. 30" x 80" (750 mm x 2000 mm)
F3010 or F3025		1	VV	Bulletin board, 36" x 24" (900 mm x 600 mm)
F0500		AR	VV	Cart, supplies, 24" x 48" (600 mm x 1200 mm)
F0210		AR	VV	Chair, rotary, without arms
F0340		1	VV	Stool, examining, adjustable
A5080		1	VV	Dispenser, paper towel, surface mounted
M1801		1	VV	PC, computer system, with keyboard
M3070		AR	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
A5145		AR	VV	Hook, coat, wall mounted
X3930		AR	VV	Illuminator, x-ray, 120 volt, wall mounted, approx. 20" x 59" (500 mm x 1475 mm), 4 in 1
F2017		1	VV	Receptacle, waste, step on type, approx. 12" (300 mm) diameter
X2100		AR	VV	Scanner, ultrasonic, mobile
A5180		AR	VV	Curtain, cubicle
F3200		1	VV	Clock, atomic, battery operated
A5106		1	VV	Glove dispenser, wall mounted
A5106		1	VV	Sharps container, wall mounted

SPD: Basic Service  
Floor Plan



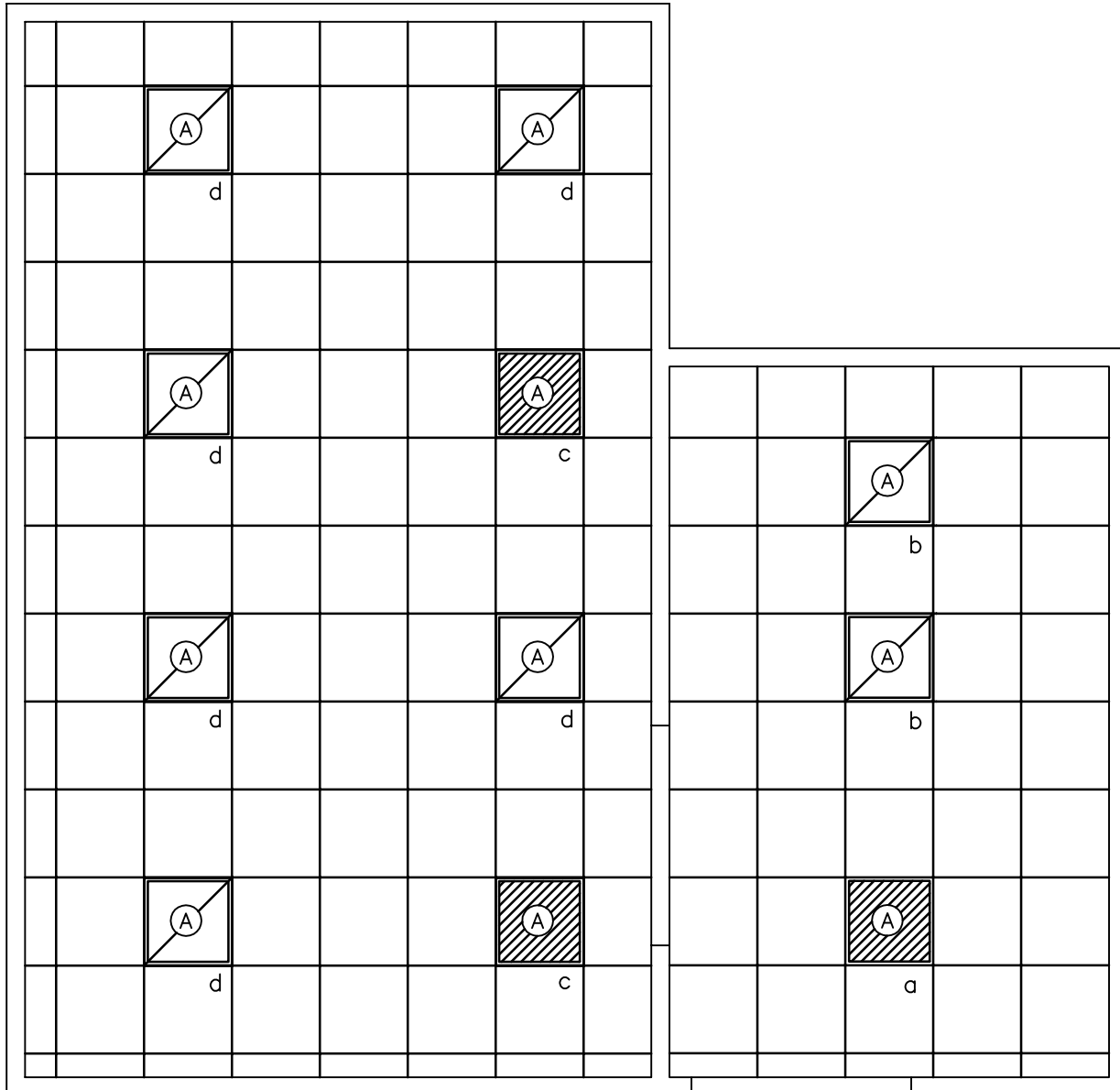
SCALE 1/4" = 1'-0"



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.



SPD: Basic Service  
 Reflected Ceiling Plan



320 NSF/ 30.1 NSM

SCALE 1/4" = 1'-0"



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SPD: Basic Service

Design Standards

**ARCHITECTURAL**

Ceiling: AT (SP)  
 Ceiling Height: 9'-0" (2700 mm)  
 Wall Finish: GWB-SC/PL-SC  
 Wainscot: --  
 Base: CT/QT  
 Floor Finish: CT/QT (Non-slip)  
 Slab Depression: QT 2" (50 mm) if without floor drain, PG-18-3, Topic 6

Notes: --

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --

Special: --

- Notes: 1) 2' x 2' (600 mm x 600 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ T8 lamps 3500°K, CRI=70 (minimum).  
 2) The foot-candle level is average maintained.  
 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown

Emergency: As Shown

- Notes: 1) Coordinate location and height of work station receptacles with modular furniture.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes

Telephone: Yes

Intercom: --

Nurse Call: --

Public Address: --

Radio/Entertainment: --

MATV: --

CCTV: --

MID: --

Security/Duress: --

VTEL: --

VA Satellite TV: --

- Notes: 1) Coordinate location and height of work station telephone/data outlets with modular furniture.

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 73°F (23°C) Cooling

68°F (20°C) Heating

Dry-Bulb Temperature

55 Percent Cooling

35 Percent Heating

Relative Humidity

Minimum Air Changes per Hour: 10

100% Exhaust: Yes

100% Outside Air: Yes

Room Air Balance: Positive (+)

Dedicated Exhaust System: Yes

Occupancy: 4

AC Load-(Equipment): As Required

AC Load-(Light): As Required

Notes: --

**PLUMBING AND MEDICAL GASES**

Cold Water: --

Hot Water: --

Laboratory Air: --

Laboratory Vacuum: --

Sanitary Drain: --

Reagent Grade Water: --

Medical Air: --

Medical Vacuum: --

Oxygen: --

Notes: --

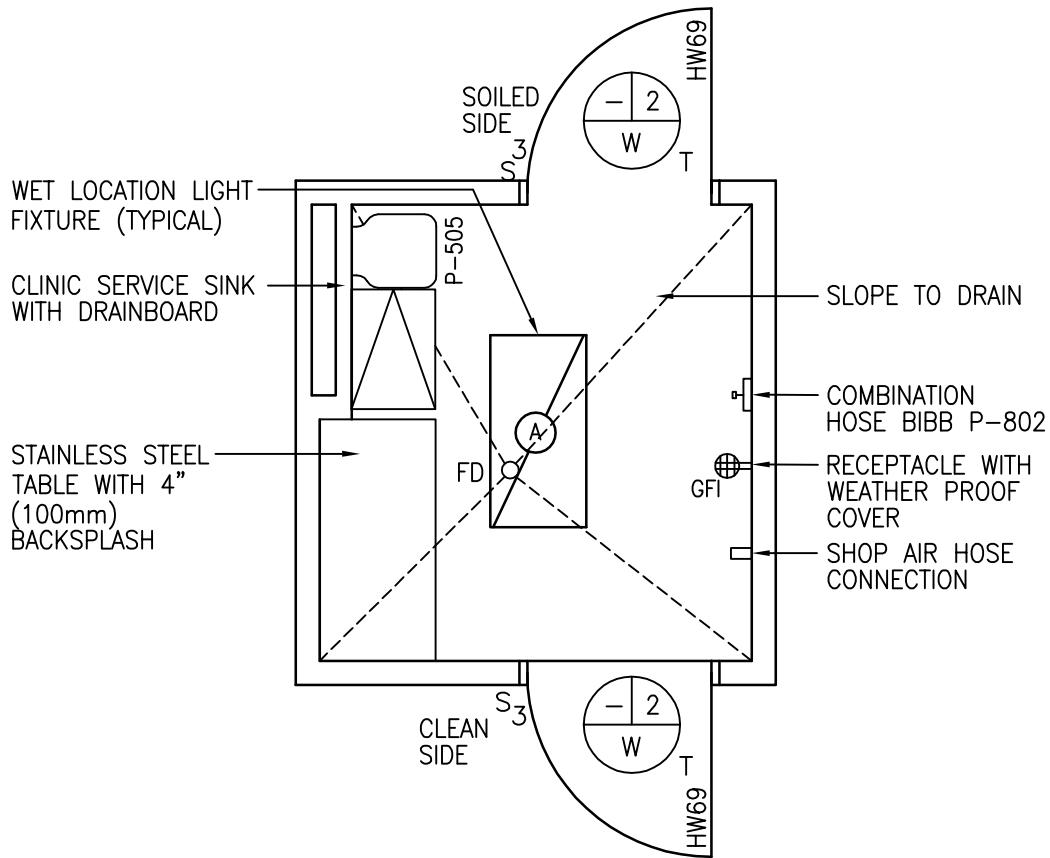
**SPD: Basic Service**

**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Receptacle, electrical duplex (PG-18-1, MCS 26 27 26)
		1	CC	Receptacle, electrical quadruplex (PG-18-1, MCS 26 27 26)
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
F3200		1	VV	Clock, atomic, battery operated
F0205		1	VV	Chair, rotary, with arms
M2050		AR	VV	Shelving, storage, mobile, steel rod shelf, open style with 5 adjustable shelves
F3010 or F3025		1	VV	Bulletin board, 40" x 30" (1000 mm x 750 mm)



SPD: Manual Equipment Wash Area (CWSH1)  
 Floor Plan & RCP



80 NSF/ 7.4 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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SPD: Manual Equipment Wash Area (CWSH1)

Design Standards

**ARCHITECTURAL**

Ceiling:	PCP-P
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	CT*
Wainscot:	--
Base:	CT/QT
Floor Finish:	CT/QT (Non-slip)
Slab Depression:	CT 3" (75 mm) / QT 4" (100 mm)

Notes: \* Mount CT on Concrete Backer Board

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--

- Notes:
- 1) Surface mounted wet listed 2' x 4' (600 mm x 1200 mm) fluorescent light fixture, acrylic lens w/ F32T8 lamps, 3500°K, CRI=70 (minimum).
  - 2) The foot-candle level is average maintained.
  - 3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.
  - 4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General:	As Shown
Emergency:	As Shown
Note:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature 30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	10
100% Exhaust:	Yes
100% Outside Air:	No
Room Air Balance:	Negative (-)
Dedicated Exhaust System:	No
Occupancy:	4
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Oxygen:	--
Other:	Shop Air
Notes:	--

**SPD: Manual Equipment Wash Area (CWSH1)**

**Equipment List**

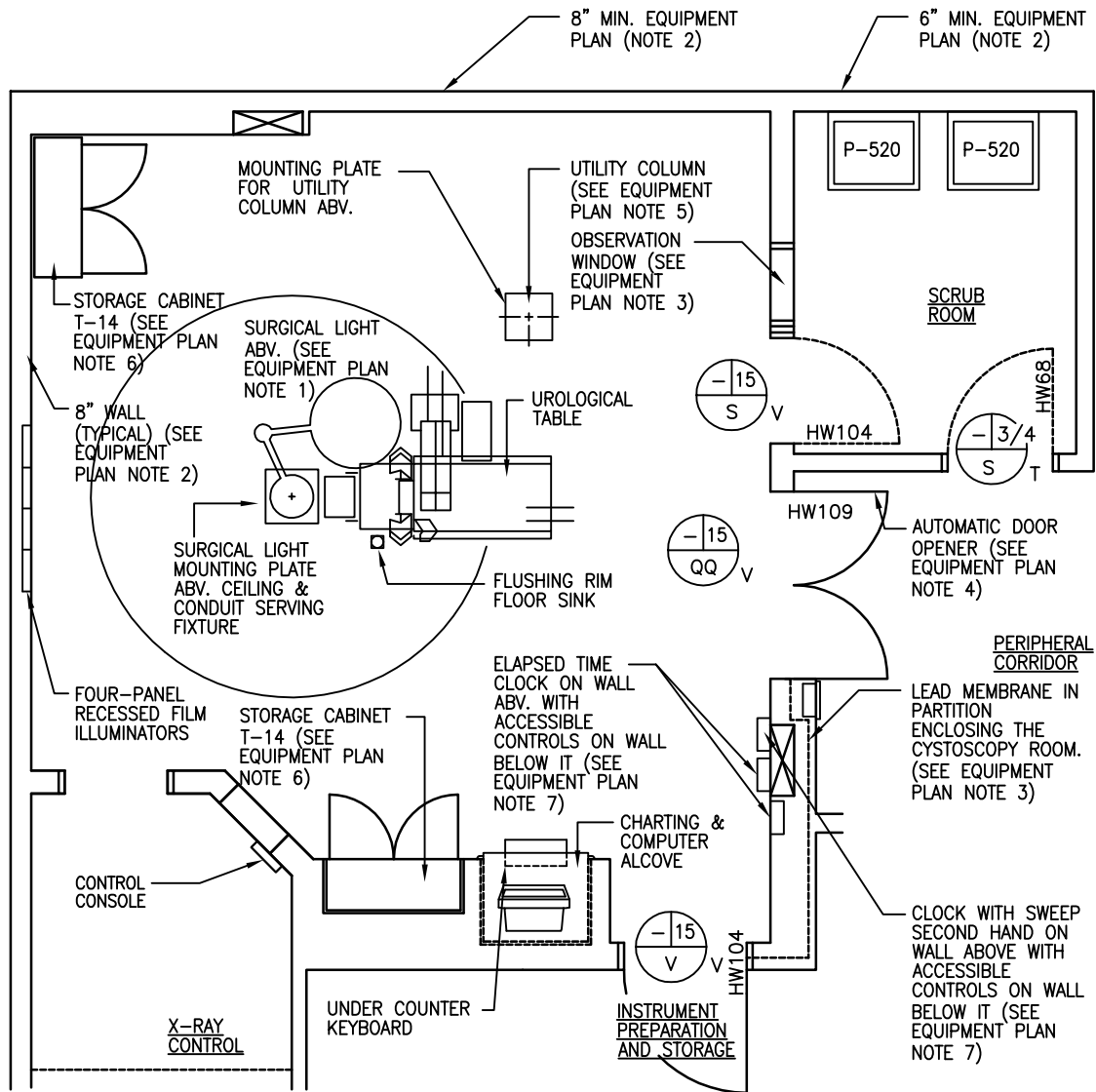
<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
	P-802	1	CC	Hose bibb, combination faucet, wall mounted, concealed supply pipes (PG-18-1, MCS 22 40 00)
		1	CC	Connection, hose, shop air (PG-18-10; Plumbing Design Criteria and Instructions)
		1	CC	Drain, floor (PG-18-1, MCS 22 40 00)
P6500	P-505	1	CC	Sink, service, clinic, flushing rim, wall hung (PG-18-1, MCS 22 40 00)
		AR	CC	Receptacle, electrical quadruplex, ground fault interrupter (PG-18-1, MCS 26 27 26)
S9610		1	VV	Table, stainless steel, 29" W x 60" L (740 mm x 1520 mm), with 4" (100 mm) high backsplash



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# Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1) Equipment Plan



450 NSF/ 41.8 NSM

SCALE  $\frac{3}{16}'' = 1'-0''$



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.

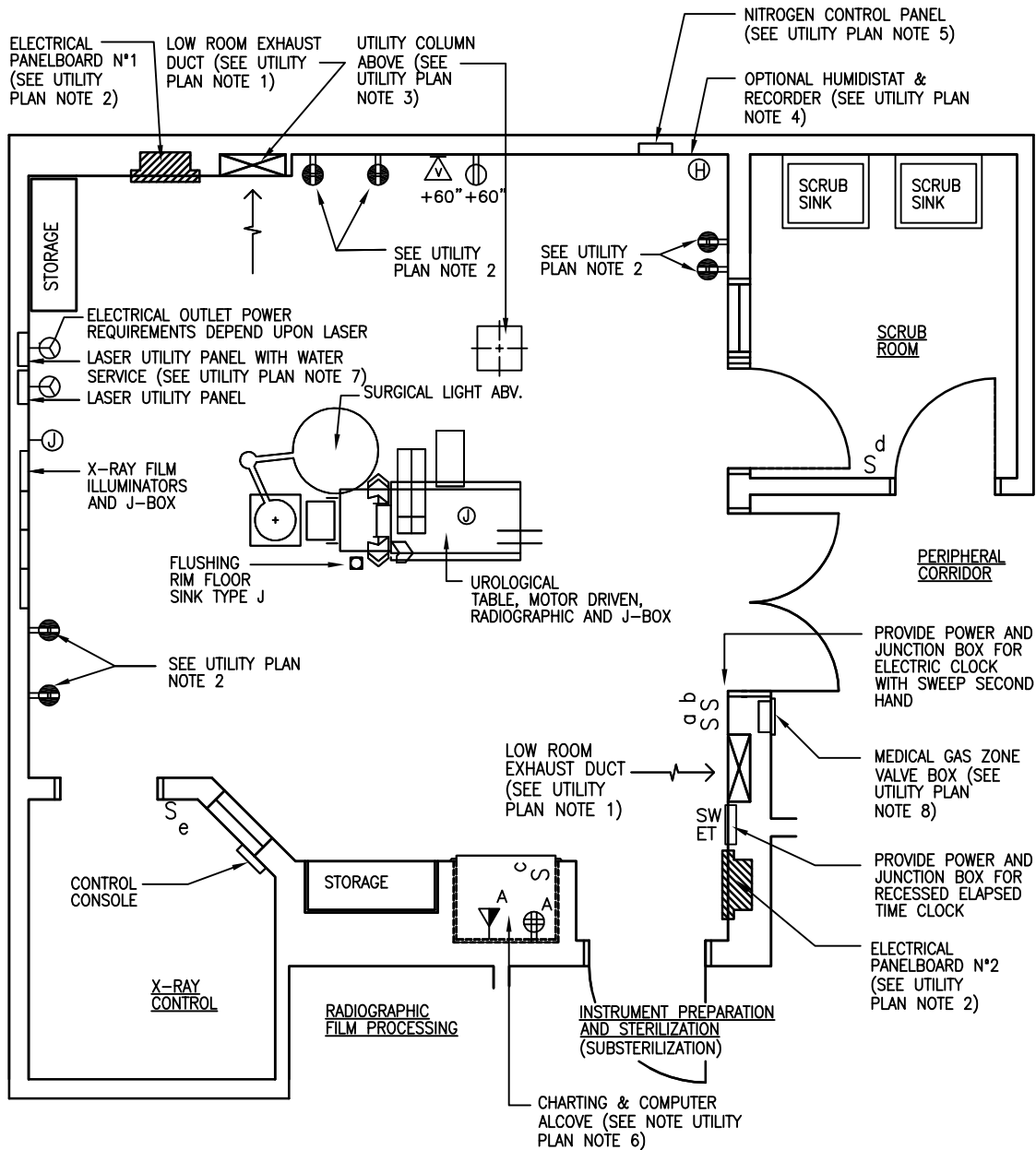


## Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

## Equipment Plan Notes

Note 1	The surgical light fixtures are to be (CC) unless the VAMC chooses to select a specific surgical light fixture during the development of construction documents. If the VAMC chooses the fixtures, they may be either (CC), (CF), or (VC). All coordination in involving structural support, utility connections, and other details regarding these lights are the responsibility of the A/E.
Note 2	Nominal thickness of walls during design development should be shown as 8 inches (200 mm) thick by the A/E. This requirement is based upon the need to accommodate a variety of panel boards, return air ducts, and miscellaneous elements of construction that require a thicker partition than in other areas of a hospital building. Partitions other than the cystoscopy room enclosure should be shown nominally as 6 inches (150 mm) during design development by the A/E unless some special requirement dictates otherwise.
Note 3	Provide x-ray shielding consisting of a lead membrane in the partitions; lead lined door; and leaded glass observation windows. The exact location of that membrane and details related to it are the A/E's responsibility.
Note 4	An automatic door opener is to be provided in the corridor at the doors between the cystoscopy room and the semi-restricted (peripheral) corridor. A tread type of opener is permitted; however, a wall-mounted type of automatic door opener with a push-plate is preferred.
Note 5	The ceiling mounted utility column may be one of two (2) types: Articulating or retractable (telescoping). The VAMC must decide which type of utility column to use during the design development phase of the project. If a choice is made at this point, the utility columns may be (VV), (CF) or (CC). If the VAMC declines to make a timely decision, then the utility columns will be (CC). Coordination involving structural support, utility connections, and other details is the responsibility of the A/E.
Note 6	Modular equipment – the VAMC has the option of choosing modular equipment in lieu of built-in casework. However, this decision must be made during the design development phase of the procurement. If wall-mounted modular casework is selected by the VAMC, the A/E must design the partitions to support the casework. It should be noted that the standard studs found in the master specifications are insufficient to carry this added weight; therefore, the equipment manufacturer's recommendations for supporting partitions should be followed where appropriate.
Note 7	Clocks – for more information regarding clocks in operating room, see MCS, Section 27 52 41.
Note 8	See Chapter 286 of the Equipment Guide List for additional equipment not shown.

# Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1) Utility Plan



450 NSF/ 41.8 NSM

SCALE  $\frac{3}{16}'' = 1'-0''$



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.

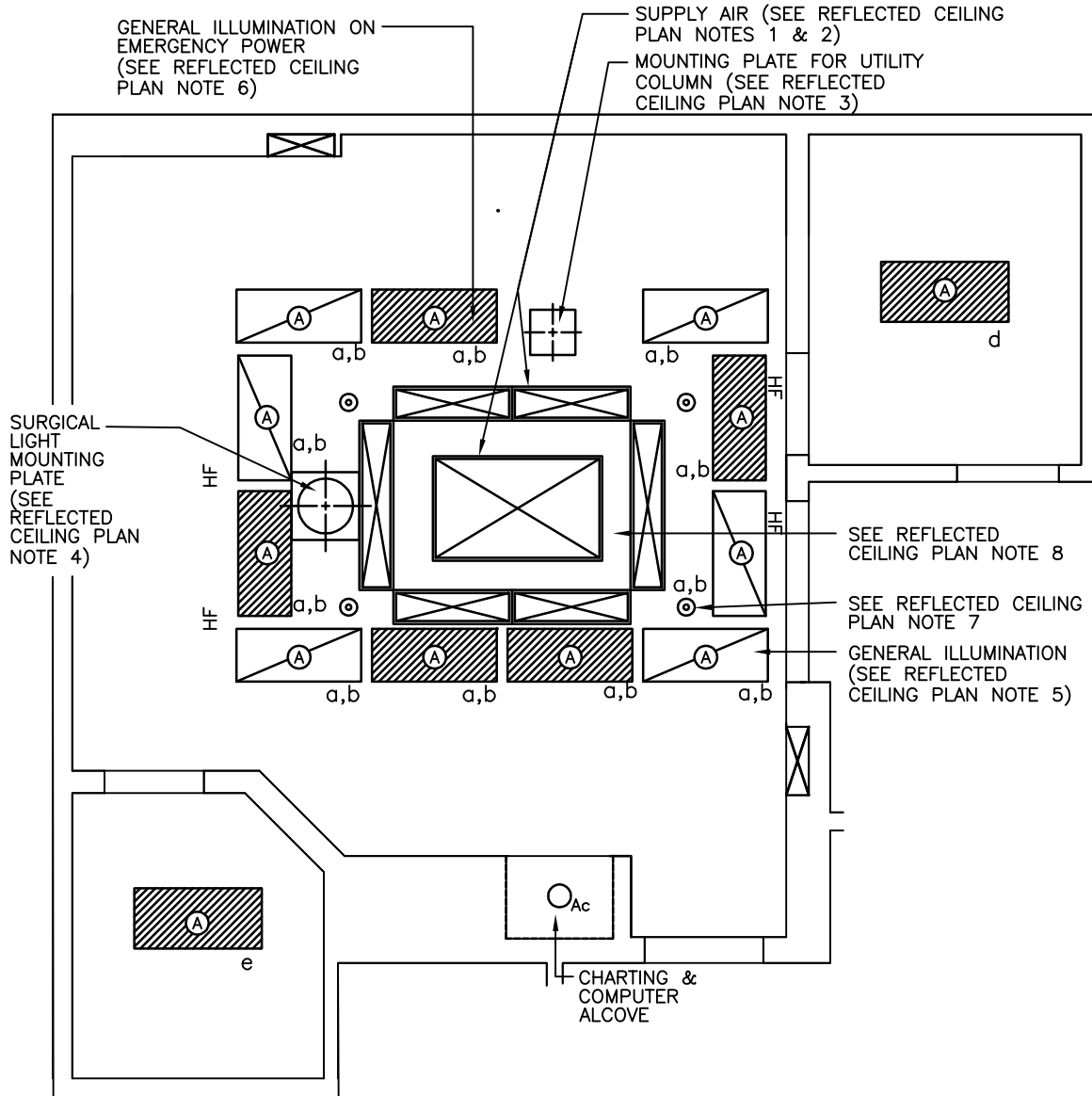
## Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

## Utility Plan Notes

Note 1	Exhaust air grilles – provide a minimum of two exhaust air grilles in this operating room. If only two (2) grilles are provided, locate them opposite each other. Where there are more than two (2) exhaust grilles, they are to be centered on each of the walls of the operating room. The bottom of each exhaust air grille is to be 7 inches (175 mm) above the finished floor. See the HVAC Design Manual for additional information.
Note 2	Two (2) critical power emergency panels fed from different distribution panels and transfer switches. Alternate receptacle circuiting between the two (2) panels.
Note 3	Retractable utility column provides connections on utility column as delineated in Chapter 286, Equipment Guide List.
Note 4	HVAC controllers – Track and record the space temperature and relative humidity by DDC Controls – on hourly basis by the DDC space temperature and relative humidity sensors, in an EXCEL type spread sheet. See the HVAC Design Manual for hospital projects and MCS, Division 25 for additional information.
Note 5	Nitrogen control panel – for information regarding this panel see NFPA 99, Chapter 4 and Master Specifications, Section 22 63 00.
Note 6	Computer terminal – utility requirements for the in-room computer terminal are to be determined by the VAMC based upon the computer system to be used. This information is to be given to the A/E for incorporation into the construction documents; the printer for the in-room computer terminal is to be located remotely.
Note 7	Laser panel – it is understood that air-cooled lasers are soon to replace water cooled lasers. For this reason, the future impact of air cooled lasers on the design of the HVAC system must be considered by the designer. In spite of this anticipated change, it is the policy of the VHA program official that water service is to be provided in any operating rooms where existing water cooled lasers are to be continued in use.
Note 8	Zone valve box – a separate zone valve box is to be provided for each operating room (anesthetizing location) in accordance with NAPA 99 – Chapter 4. This cabinet is to be located in the peripheral corridor near the door to the operating room it serves. See MCS Section 22 63 00.

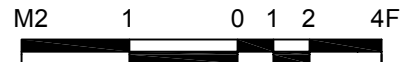


Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)  
 Reflected Ceiling Plan



450 NSF/ 41.8 NSM

SCALE  $\frac{3}{16}'' = 1'-0''$



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.

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Reflected Ceiling Plan Notes

Note 1	Supply air outlet – perforated panel centered over operating table with no obstructions. A/E is to design it (do not scale.) This outlet is to provide 30 percent of supply air for the operating room. Air distribution is to be in a downward vertical direction. See the HVAC Design Manual for Hospital Projects.
Note 2	Supply air outlets – stainless steel multiple slot panel diffusers to be located above the perimeter of the “clean air zone”. A/E is to design them. (Do not scale.) These outlets are to provide 70 percent of supply air for the operating room. This air is to be discharged in a vertical air stream inclined at an outward angle of 15 degrees from the center of the room. See the HVAC Design Manual.
Note 3	Mounting plate for utility column – (do not scale.) Size of mounting plate varies with manufacturer. Exact type, size type, and location are to be determined by the A/E in coordination with the VAMC and VHA program officials.
Note 4	Type A surgical light fixture with single point suspension and single light head unit mounted from pivotal arm system – note that the location of the mounting plate is not to be placed directly over the operating table. That zone must be kept unobstructed for the supply air outlet and the plenum serving it above the ceiling. Provide surgical light with variable intensity control. See the Electrical and Telecommunication's Design Manual and MCS 26 55 71.
Note 5	Fluorescent light fixtures – general illumination. Only 2' x 4' (600 mm x 1200 mm) recessed fixtures with six (6) lamps are to be used in the operating room. This size of fixture is required to deliver enough ambient illumination while also producing color corrected light in the operating room. For more information see Electrical and Telecommunication's Design Manual.
Note 6	General illumination on emergency power – 50 percent of the fluorescent light fixtures above the operating table are to be provided emergency power with battery backup. All lighting shall be switched. Fixtures shall have six (6) lamps. Provide unswitched emergency hot leg to emergency battery packs. The fluorescent fixtures above the head of the patient (where the nurse anesthetist administers anesthesia and monitors the patient's vital signs) are to be provided emergency power.
Note 7	Sprinkler system – coordinate the location of the sprinklers with other ceiling systems in accordance with MCS, Division 13 and Plumbing Design Manual.
Note 8	Provide no ceiling tracks for intravenous solutions in the design. This restriction is based upon concerns for asepsis in the operating room.

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Design Standards

**ARCHITECTURAL**

Ceiling: PL-SC/GWB-SC  
 Ceiling Height: 9'-6" (2900 mm) (see Note 1)  
 Wall Finish: PL-SC/GWB-SC  
 Wainscot: WP 48" (1200 mm)  
 Base: WSF 6" (150 mm) Integral Cove  
 Floor Finish: WSF  
 Slab Depression: --  
 Notes: 1) Refer to PG-18-3 Design and Construction Procedures.

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: Surgical Light (see Note 2)  
 Emergency: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) fluorescent fixture w/ six (6) T8 fluorescent lamps directly around perimeter of surgery table with correlated color temperature between 5000°K and 6000°K, CRI=85. Color improved lamps matching color temperature of surgical light.  
 2) (1) Type A surgical light. See reflected ceiling plan Note 4 for more information.  
 3) Recessed fluorescent fixture with dimming system.  
 4) The foot-candle level is average maintained.  
 5) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 6) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.

**POWER**

General: As Shown  
 Special: As Shown  
 Emergency: X-Ray unit  
 Notes: 1) A UPS may be supplied by and installed by VA. Verify raceway requirements with manufacturer.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: Empty Conduit  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 68°F – 73°F  
 (17°C to – 27°C)  
 Dry-Bulb Temperature  
 30 Percent to  
 60 Percent  
 Relative Humidity  
 Minimum Air Changes per Hour: 20 – Occupied  
 10 - Unoccupied  
 100% Exhaust: Yes  
 100% Outside Air: Yes  
 Room Air Balance: Positive (+)  
 Dedicated Exhaust System: Yes  
 Occupancy: 12  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) The operating staff shall select the set point for the space temperature within the limits of 62 F [16.7 C] and 80 F [26.7 C]. However, the corresponding relative humidity shall follow these guidelines:  
 (a) The space relative humidity shall not be allowed to drop below 30%.  
 (b) The space relative humidity shall not be allowed to rise above 60%.

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Design Standards

**HEATING, VENTILATING AND AIR CONDITIONING (Cont'd)**

- (c) In the cooling mode, higher space humidity (up to 60%) is attainable with the chilled water temperatures generally deliverable by the central chilled water temperatures. See Page 6-A101 for the suggested inside design conditions in cooling mode.
- (d) Unless directed otherwise by the medical center and surgery department, the cooling capacity shall be calculated to maintain 62 F [16.7 C] and 60% relative humidity. Heating capacity shall be calculated to maintain 80 F [26.7 C] and 30% relative humidity.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Nitrogen Oxide:	Yes
Nitrogen:	Yes
Anesthesia Evac:	Yes
Notes:	--

Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
	TYPE J	1	CC	Floor sink, automatic flushing type (PG-18-1, MCS 22 13 00)
		AR	CC	Services, electrical. Special as required for the above equipment
A1120		1	CC	Column, utility, ceiling mounted (PG-18-1, MCS 22 63 00) locate at head of table 48" x 72" (1200 mm to 1800 mm) from the centerline and 24' x 48' (7200 mm to 14,400 mm) to the left of the centerline of the table column contains the following: 2 Inlets, Medical Vacuum (PG-18-1, MCS 22 62 00) 1 Outlet, Nitrous Oxide (PG-18-1, MCS 22 63 00) 2 Outlets, Oxygen (PG 18-1, MCS 22 63 00) 1 Outlet, Medical Air (PG-18-1, MCS 22 63 00) 1 Outlet, Nitrogen (PG-18-1, MCS 22 63 00) 1 Inlet, Dedicated anesthesia gas evacuation (PG-18-1, MCS 22 62 00) 1 Inlet, Mass atomic spectrometer (blank outlet)
A4015		1	CC	Clock, electric time elapsed, recessed (PG-18-1, MCS 27 52 41)
F3200		1	CC	Clock, electric with sweep second hand, recessed (PG-18-1, MCS 27 52 41)
		AR	CC	Outlet, electrical, 120 volt, recessed for clock (PG-18-1, MCS 26 27 26)
F0465	T-14	AR	CC	Cabinet, storage, with sloping top, 2 hinged panel doors, lock and 5 adjustable shelves. 48" W x 22" D x 84" H (1200 mm W x 550 mm D x 2100 mm H) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, duplex and quadruplex (PG-18-1, MCS 26 27 26)
		1	CC	Window, viewing lead glass, for patient observation (PG-18-1, MCS 13 49 00)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
X3930		AR	CC	Illuminator, x-ray film, recessed (PG-18-1, MCS 26 51 00)
M7490		1	CF	Light, major, surgical with variable intensity control, single point suspension, ceiling mounted (location instructions available from electrical service) (PG-18-1. MCS 26 55 71)
		1	VC	Table, urological, radiographic. Motor driven, with x-ray tube support
		1	VC	Console, control
		1	VC	Radiographic tube and high voltage cables, 500 ma. Single phase
M1801		1	VV	PC, computer system, with keyboard
		AR	VV	Monitor, video
M5030		AR	VV	Stool, surgical
M8825		1	VV	Table, surgical instrument
E0942		AR	VV	Cart, case
M3185		1	VV	Unit, electrocautery
M4815		1	VV	Unit, hyperhypothermia



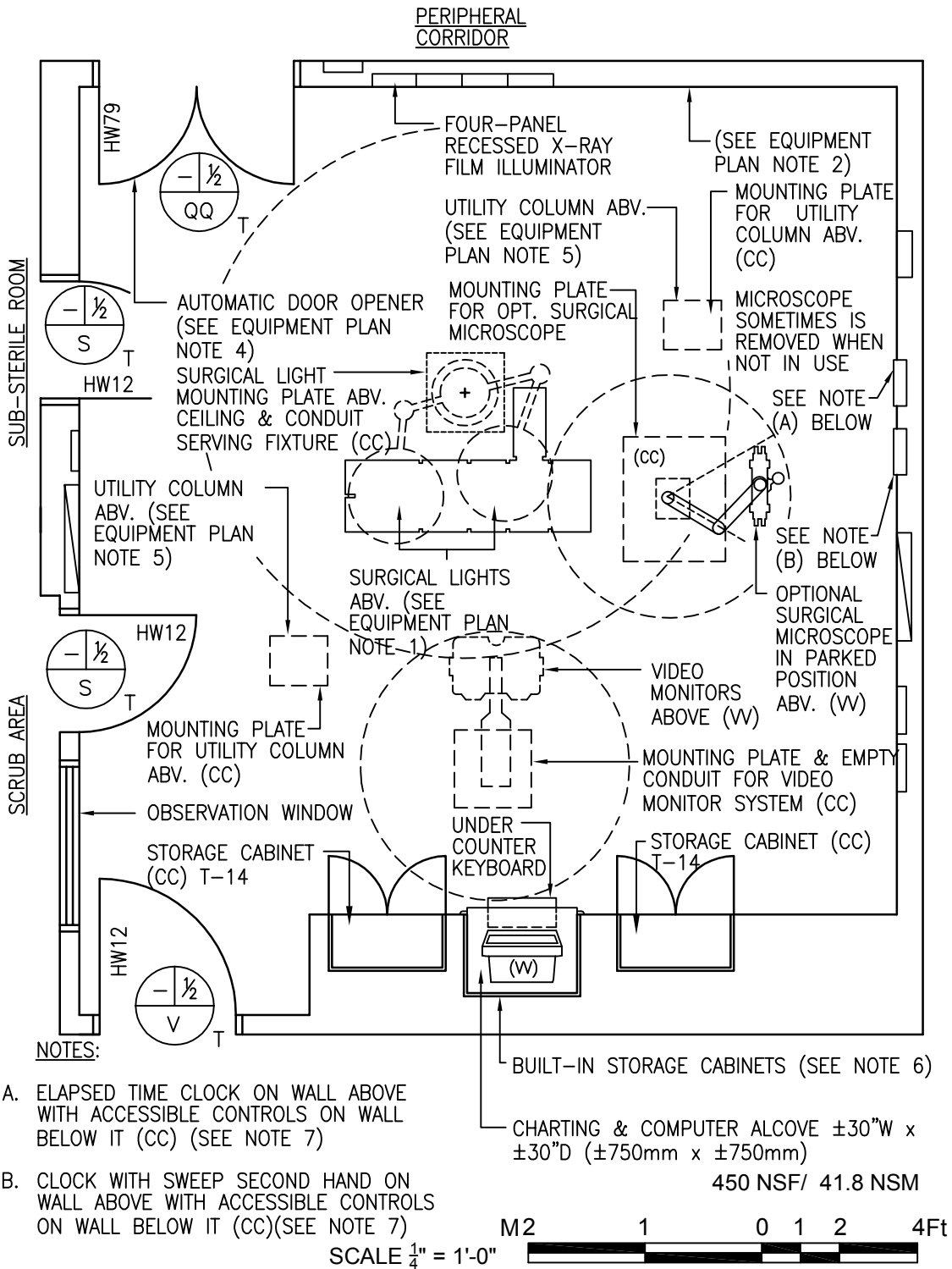
**Surgery: Ambulatory Surgery Cystoscopy Room (ORCS1) – Cont'd**

**Equipment List**

<b>JSN</b>	<b>SYMBOL</b>	<b>QTY</b>	<b>AI</b>	<b>DESCRIPTION</b>
M3070		1	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" W x 21" D (900 mm W x 525 mm D)
M0630		1	VV	Machine, anesthesia, portable
M8800		1	VV	Cart, anesthesia equipment
M4255		1	VV	Stand, IV, mobile
M8755		1	VV	Machine, suction
CE030		1	VV	Cabinet, wall mounted, with door and 2 shelves



Surgery: Ambulatory Surgery General Operating Room (ORGS1)  
Equipment Plan



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.

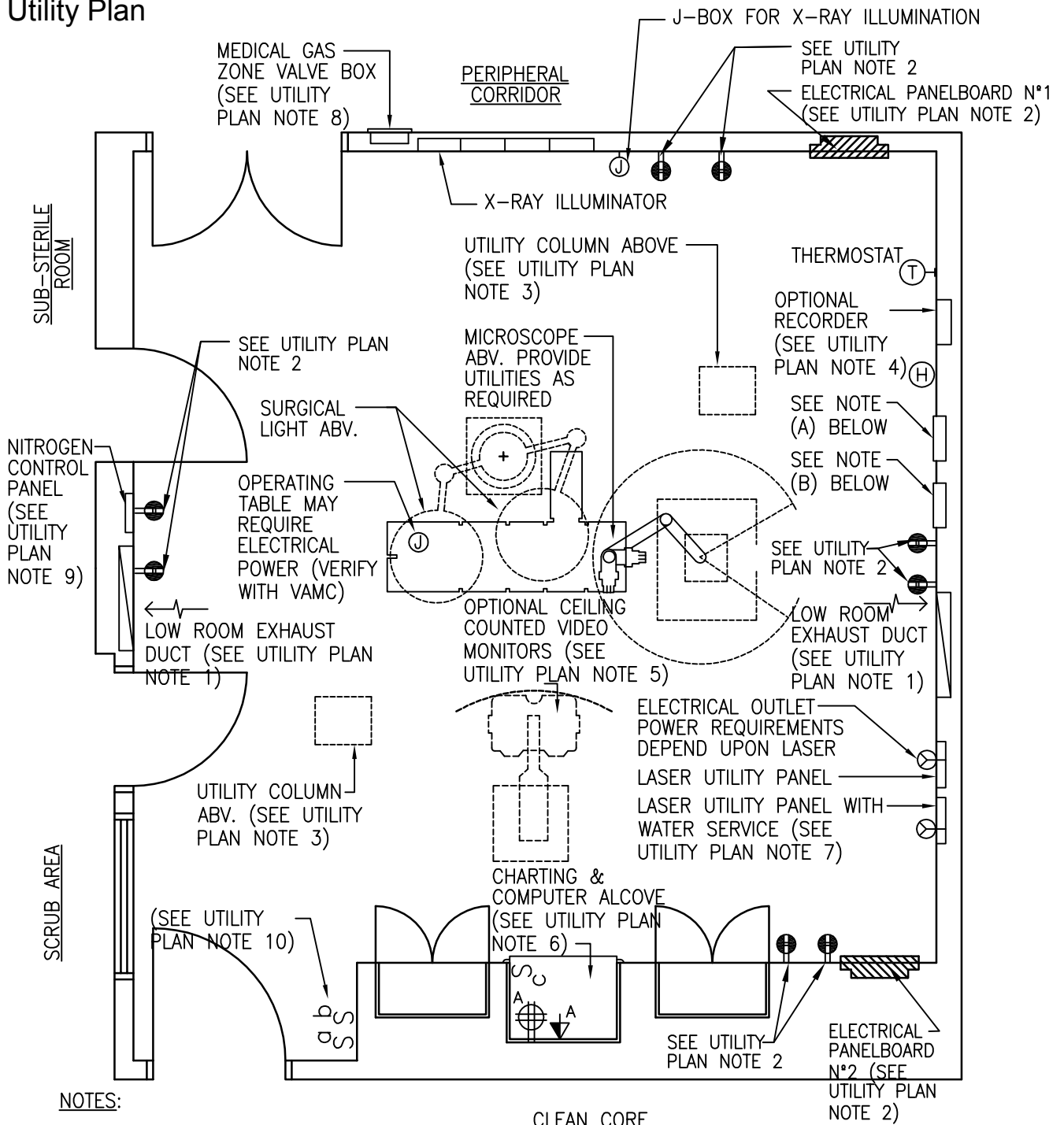
## Surgery: Ambulatory Surgery General Operating Room (ORGS1)

## Equipment Plan Notes

Note 1	The surgical light fixtures are (CC) unless the VAMC chooses to select a specific surgical light fixture during design development. If the VAMC chooses the fixtures, they should be either (VV) or (CF). Coordination involving structural support, utility connections, and other details are the responsibility of the designer.
Note 2	Nominal thickness of walls should be shown as 8 inches (200 mm) through design development. This is based upon the need to accommodate a variety of panel boards, exhaust air ducts, and miscellaneous elements of construction that require a thicker partition than in other areas of a clinic or hospital building. Partitions other than the operating room enclosure should be shown nominally as 6 inches (150 mm) through design development, unless a special requirement dictates otherwise.
Note 3	Inclusion of x-ray shielding, consisting of a lead membrane in the partition, lead lined doors, and leaded glass observation windows is determined on a project basis. The need for radiation protection is based upon the degree to which portable x-ray equipment is to be used in each of the operating rooms, and continuous occupancy of adjacent spaces. Once it is determined that a lead membrane is required, the exact location of that membrane and details related to it are the designer's responsibility.
Note 4	An automatic door opener is to be provided in the corridor at the doors between the operating room and the peripheral corridor. A tread type opener is permitted; however, a wall-mounted type of automatic door opener is preferred.
Note 5	The ceiling mounted utility columns may be one of two types: articulating (as indicated on this guide plate series) or retractable (telescoping). The VAMC must decide which type of utility column to use during the design development phase of the project. If a choice is made at this point, the utility columns may be (VV), (CF) or (CC). If the VAMC declines to make a timely decision, then the utility columns will be (CC). Coordination involving structural support, utility connections, and other details is the responsibility of the designer.
Note 6	Modular casework – The VAMC has the option of choosing modular casework in lieu of built-in casework. However, this decision must be made during the design development phase of the project. If modular casework that is wall mounted is selected by the VAMC, the partitions must be designed to support the casework. It should be noted that the standard studs found in the master specifications are insufficient to carry this added weight: therefore, the equipment manufacturer's recommendations for supporting partitions should be followed where appropriate.
Note 7	Clocks – for more information regarding clocks in the operating room, see MCS, Section 27 52 41.
Note 8	See VA Equipment Guide List 7610, Chapter 286 for additional equipment not shown.

Surgery: Ambulatory Surgery General Operating Room (ORGS1)

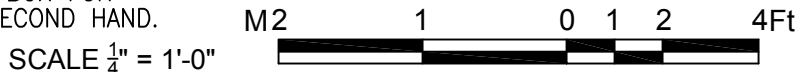
Utility Plan



NOTES:

- A. PROVIDE POWER AND JUNCTION BOX FOR RECESSED ELAPSED TIME CLOCK.
- B. PROVIDE POWER AND JUNCTION BOX FOR ELECTRIC CLOCK WITH SWEEP SECOND HAND.

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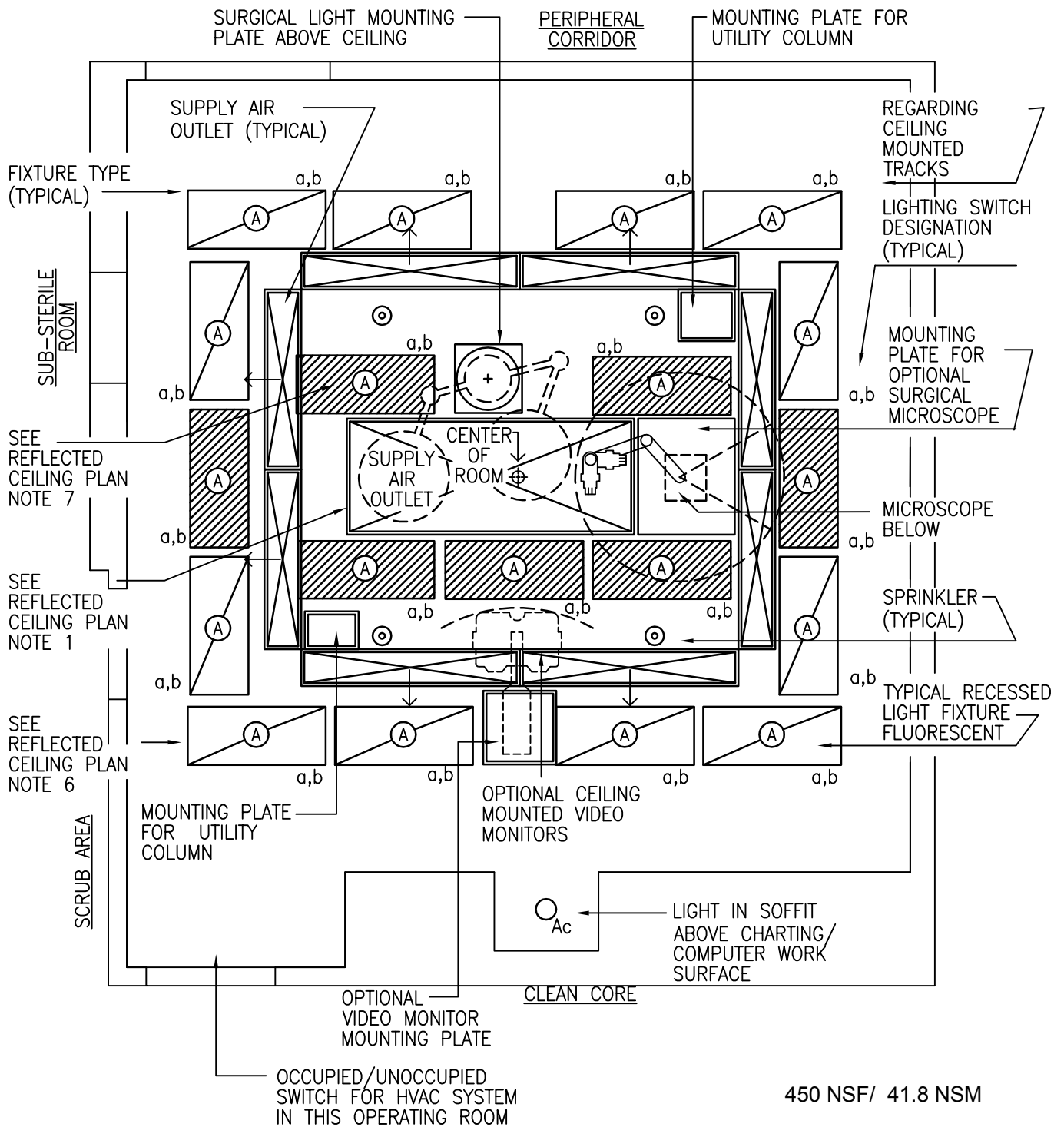
NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements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

## Surgery: Ambulatory Surgery General Operating Room (ORGS1)

## Utility Plan Notes

Note 1	Exhaust air grilles – provide a minimum of two (2) exhaust air grilles in this operating room. If only two (2) grilles are provided, locate them opposite from each other. Where there are more than two (2) exhaust grilles, center them on each of the walls of the operating room. The bottom of each exhaust air grille is to be 7 inches (175 mm) above finished floor. See the HVAC Design Manual for additional information.
Note 2	Two (2) critical power emergency panels fed from different distribution panels and transfer switches. Alternate receptacle circuiting between the two (2) panels.
Note 3	Utility column – provide connections on each utility column as delineated in Chapter 286, Equipment Guide List.
Note 4	HVAC controllers – Track and record the space temperature and relative humidity by DDC Controls – on hourly basis by the DDC space temperature and relative humidity sensors, in an EXCEL type spread sheet. See the HVAC Design Manual for hospital projects and MCS, Division 25 for additional information.
Note 5	Video monitors – the increasing use of fluoroscopy in surgical procedures has increased the need for video monitors located in the vicinity of the “sterile field”. With x-ray film soon to be replaced by digitized images displayed on a video screen, the use of these monitors in surgery will increase even further. This emerging technology is called “PACS” (picture archiving and communications system). The VAMC has a choice to make regarding these monitors. A set of video monitors can be mounted on a cart, or the set of video monitors can be mounted on an articulating arm that is suspended from the ceiling. The latter concept is shown on these guide plates. In either case, the A/E is to determine utility requirements for the video system selected by the VAMC and VHA program official. These requirements include: power supply; provisions for grounding of the monitors; communications linkage to other areas of the clinic.
Note 6	Computer terminal – requirements for the in-room computer terminal are to be determined by the VAMC. This information is to be given to the A/E for incorporation into the construction documents. The printer for the in-room computer terminals is to be located remotely.
Note 7	Laser panel – it is understood that air cooled lasers are soon to replace water cooled lasers. For this reason, the future impact of air cooled lasers on the design of the HVAC system must be considered by the designer. In spite of this anticipated change, water and drainage should be provided in operating rooms where water cooled lasers are to be continued in use.
Note 8	Zone valve box – provide a separate medical gas zone valve box for each operating room in accordance with NFPA 99, Chapter 4. Locate this cabinet in the peripheral corridor near the door to the operating rooms.
Note 9	Nitrogen control panel – see NFPA 99, Chapter 4 and MCS, Division 25 for information regarding this panel.
Note 10	Each lighting circuit in this room to be controlled by switches that provide different levels of illumination. Do Not use rheostats to control lighting levels.

# Surgery: Ambulatory Surgery General Operating Room (ORGS1) Reflected Ceiling Plan



SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Reflected Ceiling Plan Notes

Note 1	Supply air outlet – perforated panel centered over operating table with no obstructions. A/E is to design it (do not scale.) This outlet is to provide 30 percent of supply air for the operating room. Air distribution is to be in a downward vertical direction. See the HVAC Design Manual for hospital projects.
Note 2	Supply air outlets – stainless steel multiple slot panel diffusers to be located above the perimeter of the “clean air zone”. (See functional plan.) A/E is to design them. (Do not scale.) These outlets are to provide 70 percent of supply air for the operating room. This air is to be discharged in a vertical air stream inclined at an outward angle of fifteen degrees from the center of the room. See the HVAC Design Manual for hospital projects.
Note 3	Mounting plate for utility column – (do not scale.) Size of mounting plate varies with manufacturer. Exact size, type, and location are to be determined by the A/E in coordination with the VAMC and central office program officials.
Note 4	Surgical light fixture with two (2) identical light heads each mounted on an independent arm assembly – note that the location of the mounting plate is not to be placed directly over the operating table. That zone must be kept unobstructed for the supply air outlet and the plenum serving it above the ceiling. Provide surgical light with variable intensity control. See the Electrical and Telecommunication’s Design Manual.
Note 5	Surgical microscope – if VAMC chooses a ceiling-mounted microscope in lieu of a floor-mounted microscope, it must be supported by a fixed mounting plate. A ceiling track-mounted system is not to be used for the microscope due to concerns regarding asepsis. The exact size of the mounting plate depends upon the microscope selection. (Do not scale the guide plate.) Coordinate details and utilities requirements with VAMC.
Note 6	Fluorescent light fixtures – general illumination. Only 2’ x 4’ (600 mm x 1200 mm) recessed fixtures are to be used in the operating room to deliver enough ambient illumination while also producing color corrected light in the operating room. Each fixture shall have six (6) lamps.
Note 7	General illumination on emergency power – 50 percent of the fluorescent light fixtures above the operating table are to be provided emergency power with battery backup. Each fixture shall have six (6) lamps. All lighting shall be switched. Provide unswitched emergency hot leg to emergency battery packs. The fluorescent fixtures above the head of the patient (where the nurse anesthetist administers anesthesia and monitors the patient’s vital signs) are to be provided emergency power. Since the “head of the table” may be reserved on occasions when the ceiling-mounted microscope is in use, fluorescent fixtures above both ends of the table are to be put on emergency power.
Note 8	Mounting plate for video monitors – if the VAMC chooses a suspended video system instead of a cart-mounted system, the mounting plate must be integrated into the ceiling layout. The exact size and location of this plate must be determined. The mounting plate for the video monitors is not to be supported on tracks due to asepsis considerations.
Note 9	Video monitors – provide power and tele/data, OR CCTV, or fiber connections to support equipment and data systems as required for equipment selected by the VAMC.
Note 10	Sprinkler system – coordinate the location of the sprinklers with other ceiling systems in accordance with MCS, Division 13 and Plumbing Design Manual, medical centers.
Note 11	Provide no ceiling tracks for intravenous solutions in the design. This restriction is based upon concerns for asepsis in the operating room.

Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Design Standards

**ARCHITECTURAL**

Ceiling: PL-SC/GWB-SC  
 Ceiling Height: 9'-6" (2900 mm)  
 Wall Finish: PL-SC/GWB-SC  
 Wainscot: WP 48" (1200 mm)  
 Base: WSF 6" (150 mm) Integral Cove  
 Floor Finish: WSF  
 Slab Depression: --  
 Notes: 1) Additional 8" (200 mm) accessible space above ceiling for microscope or 10'-2" (3050 mm)

**SPECIAL EQUIPMENT**

--

**LIGHTING**

General: --  
 Special: Surgical Light (See Note 6)  
 Emergency: --  
 Notes: 1) 2' x 4' (600 mm x 1200 mm) fluorescent fixture w/ F32T8 lamps with correlated color temperature between 5000°K and 6000°K, CRI=85. Color improved lamps matching color temperature of surgical light.  
 2) Recessed fluorescent fixture with dimming system.  
 3) The foot-candle level is average maintained.  
 4) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.  
 5) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.  
 6) (1) Type B surgical light. See reflected ceiling plan notes for more information.

**POWER**

General: As Shown  
 Special: As Shown  
 Emergency: X-Ray unit  
 (1) X-Ray Film Illuminator  
 Note: 1) A UPS may be supplied by and installed by VA. Verify raceway requirements with manufacturer.

**COMMUNICATION/SPECIAL SYSTEMS**

Data: Yes  
 Telephone: Yes  
 Intercom: --  
 Nurse Call: --  
 Public Address: --  
 Radio/Entertainment: --  
 MATV: --  
 CCTV: Empty Conduit  
 MID: --  
 Security/Duress: --  
 VTEL: --  
 VA Satellite TV: --  
 Notes: --

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions: 62°F – 80°F  
 (17°C – 27°C)  
 Dry Bulb Temperature  
 30 Percent to  
 60 Percent  
 Relative Humidity  
 Minimum Air Changes per Hour: 20 – Occupied  
 10 - Unoccupied  
 100% Exhaust: Yes  
 100% Outside Air: Yes  
 Room Air Balance: Positive (+)  
 Dedicated Exhaust System: Yes  
 Occupancy: 12  
 AC Load-(Equipment): As Required  
 AC Load-(Light): As Required  
 Notes: 1) Provide a dedicated air-handling unit and chiller to serve the operating room and associated area.  
 2) The operating staff shall select the set point for the space temperature within the limits of 62 F [16.7 C] and 80 F [26.7 C]. However, the corresponding relative humidity shall follow these guidelines:  
 (a) The space relative humidity shall not be allowed to drop below 30%.  
 (b) The space relative humidity shall not be allowed to rise above 60%.



Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Design Standards

**HEATING, VENTILATING AND AIR  
CONDITIONING (Cont'd)**

- (c) In the cooling mode, higher space humidity (up to 60%) is attainable with the chilled water temperatures generally deliverable by the central chilled water temperatures. See Page 6-A101 for the suggested inside design conditions in cooling mode.
- (d) Unless directed otherwise by the medical center and surgery department, the cooling capacity shall be calculated to maintain 62 F [16.7 C] and 60% relative humidity. Heating capacity shall be calculated to maintain 80 F [26.7 C] and 30% relative humidity.

**PLUMBING AND MEDICAL GASES**

Cold Water:	--
Hot Water:	--
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	--
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Nitrogen Oxide:	Yes
Nitrogen:	Yes
Anesthesia Evac:	Yes
Notes:	--

Surgery: Ambulatory Surgery General Operating Room (ORGS1)

Equipment List

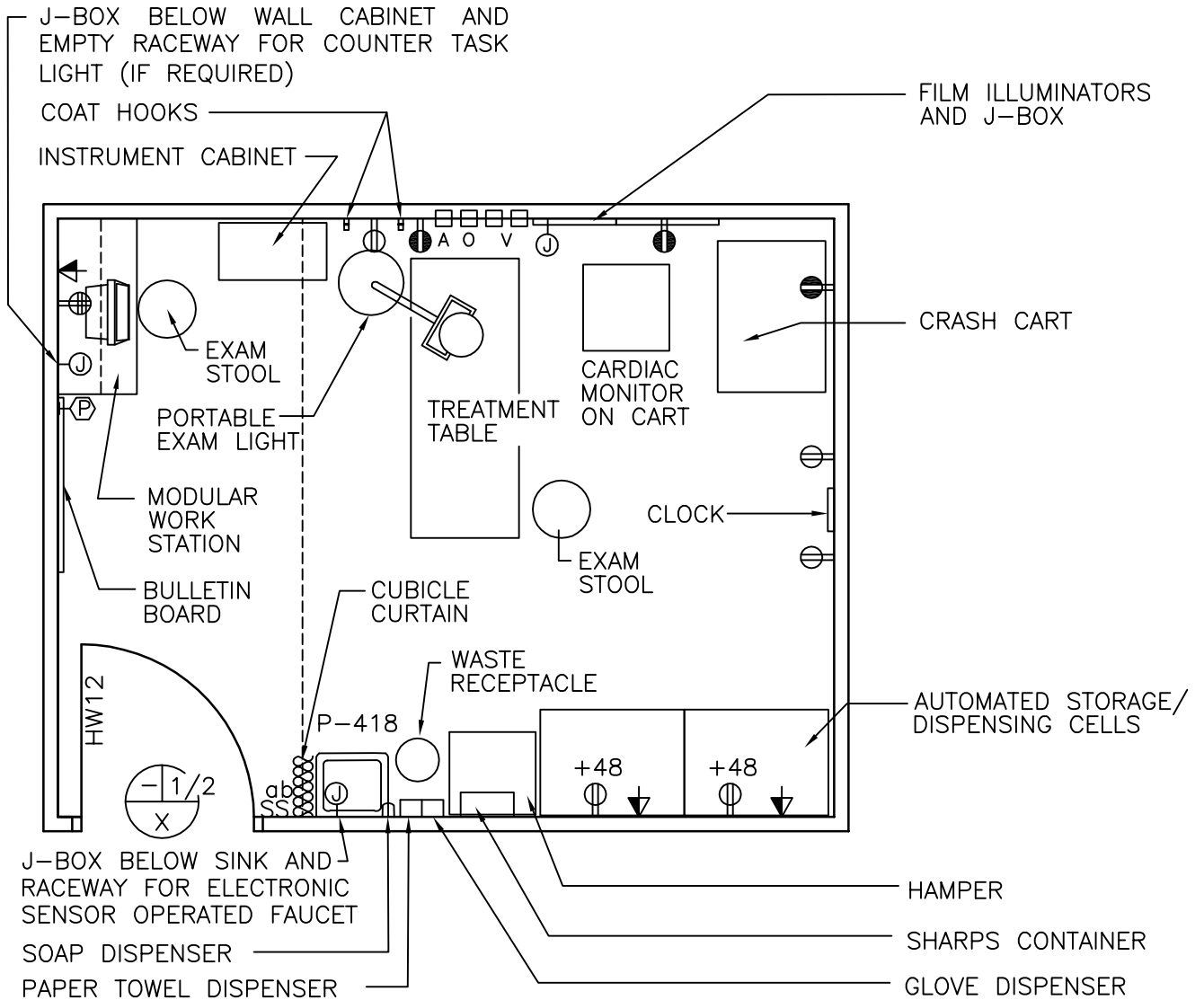
JSN	SYMBOL	QTY	AI	DESCRIPTION
CD040	T-14	AR	CC	Cabinet, storage, recessed, 2 hinged panel doors, lock and 5 adjustable shelves. 48" W x 22" D x 84" H (1200 mm W x 550 mm D x 2100 mm H) (PG-18-1, MCS 12 31 00)
		AR	CC	Receptacle, electrical, quadruplex (PG-18-1, MDC 26 27 26)
		1	CC	Receptacle, electrical, quadruplex, for computer equipment items (PG-18-1, MCS 26 27 26)
A1010		1	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		AR	CC	Support for optional video monitor (PG-18-1, MCS 27 41 31)
		AR	CC	Window, viewing lead glass (PG-18-1, MCS 13 49 00)
X3930		AR	CC	Illuminator, x-ray film, recessed (PG-18-1, MCS 26 51 00)
M1801		1	VV	CRT, computer system, with keyboard
		AR	VV	Monitor, video, optional system. See Utility Plan Note 5.
F0340		AR	VV	Stool, surgical
M8825		1	VV	Table, surgical instrument
E0942		AR	VV	Cart, case
M3185		1	VV	Unit, electrocautery
M4815		1	VV	Unit, hyperihypothermia
M3070		1	VV	Hamper, soiled linen, with hinged self closing top, 20" (500 mm) diameter
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" W x 21" D (900 mm W x 525 mm D)
M0630		1	VV	Machine, anesthesia, portable
M8800		1	VV	Cart, anesthesia equipment
M4255		1	VV	Stand, IV, mobile
M8755		1	VV	Machine, suction
CE050		1	VV	Cabinet, wall mounted, with door and 2 shelves



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Surgery: Minor Procedure Operating Room (TRGS1)

Floor Plan

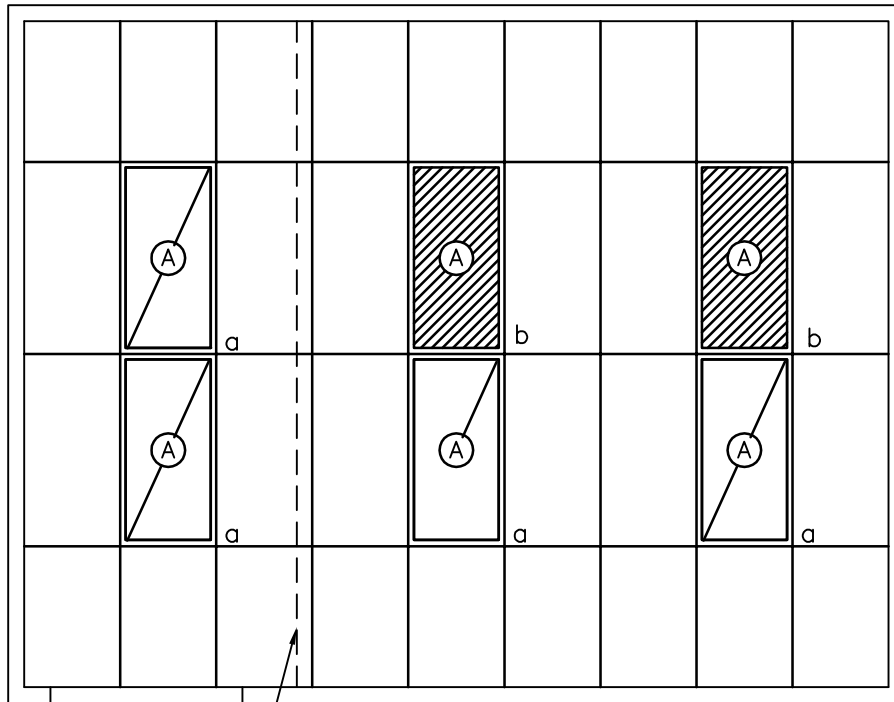


250 NSF/ 23.2 NSM



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.

Surgery: Minor Procedure Operating Room (TRGS1)  
 Reflected Ceiling Plan



CUBICLE  
 CURTAIN  
 TRACK

250 NSF/ 23.2 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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Surgery: Minor Procedure Operating Room (TRGS1)

Design Standards

**ARCHITECTURAL**

Ceiling:	AT (SP)
Ceiling Height:	9'-6" (2900 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	RSF 6" (150 mm) Integral Cove
Floor Finish:	RSF
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

	--
--	----

**LIGHTING**

General:	--
Special:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent light fixture, acrylic prismatic lens, w/ F32T8 lamps, 5000°K, CRI=85 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Special:	As Shown
Emergency:	Yes
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station receptacles with modular furniture.</li> <li>2) Exam table may be wall outlet connected.</li> </ol>

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	Yes
Telephone:	Yes
Intercom:	--
Nurse Call:	--
Public Address:	Empty Conduit
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
VTEL:	--
VA Satellite TV:	--
Notes:	<ol style="list-style-type: none"> <li>1) Coordinate location and height of work station telephone/data outlets with modular furniture.</li> </ol>

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	10
100% Exhaust:	No
100% Outside Air:	No
Room Air Balance:	Positive (+)
Dedicated Exhaust System:	No
Occupancy:	3
AC Load-(Equipment):	As Required
AC Load-(Light):	As Required
Notes:	<ol style="list-style-type: none"> <li>1) The operating staff shall select the set point for the space temperature within the limits of 62 F [16.7 C] and 80 F [26.7 C]. However, the corresponding relative humidity shall follow these guidelines:                     <ol style="list-style-type: none"> <li>(a) The space relative humidity shall not be allowed to drop below 30%.</li> <li>(b) The space relative humidity shall not be allowed to rise above 60%.</li> </ol> </li> </ol>

Surgery: Minor Procedure Operating Room (TRGS1)

Design Standards

**HEATING, VENTILATING AND AIR  
CONDITIONING (Cont'd)**

- (c) In the cooling mode, higher space humidity (up to 60%) is attainable with the chilled water temperatures generally deliverable by the central chilled water temperatures. See Page 6-A101 for the suggested inside design conditions in cooling mode.
- (d) Unless directed otherwise by the medical center and surgery department, the cooling capacity shall be calculated to maintain 62 F [16.7 C] and 60% relative humidity. Heating capacity shall be calculated to maintain 80 F [26.7 C] and 30% relative humidity.

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	Yes
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	--

Surgery: Minor Procedure Operating Room (TRGS1)

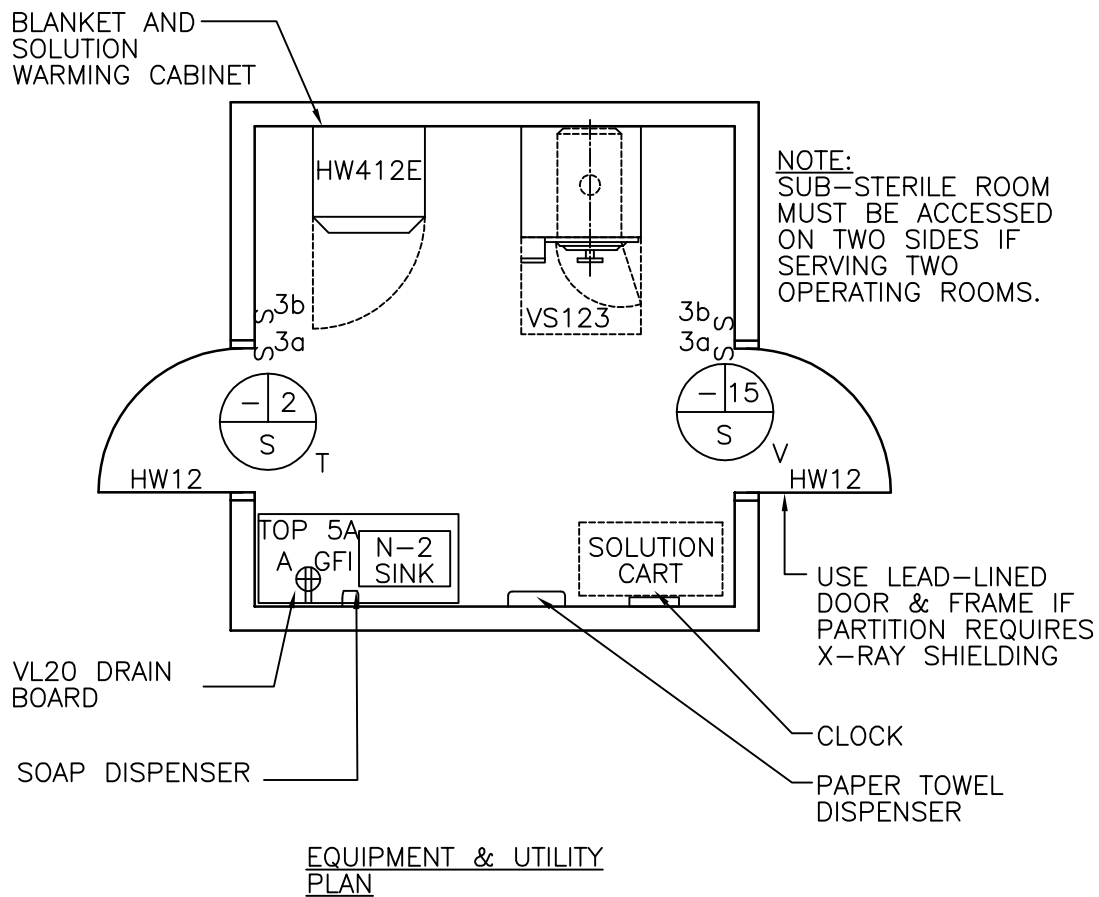
Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
		1	CC	Bracket, vacuum bottle, slide (PG-18-1, MCS 22 62 00)
		1	CC	Outlet, medical air, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, oxygen, wall mounted (PG-18-1, MCS 22 63 00)
		1	CC	Outlet, vacuum, wall mounted (PG-18-1, MCS 22 62 00)
P3100	P-418	1	CC	Lavatory, sensor control (PG-18-1, MCS 22 40 00)
A5180		AR	CC	Track, curtain, cubicle (PG-18-1, MCS 10 21 23)
A5180		AR	CC	Curtain, cubicle
A1010		AR	CC	Outlet, telephone/data, wall mounted (PG-18-1, MCS 27 15 00)
		1	CC	Receptacles, electrical, quadruplex for computer equipment items (PG-18-1, MCS 26 27 26)
		AR	CC	Receptacles, electrical, duplex (PG-18-1, MCS 26 27 26)
		1	CC	Button, alarm panic/duress (PG-18-1, MCS 27 52 31)
M3085		1	VV	Cabinet, instruments, 36" x 16" x 72" (900 mm x 400 mm x 1800 mm) with glazed doors, sloping top
E0954		1	VV	Cart, emergency, "crash cart" approx. 36" x 21" (900 mm x 525 mm)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F2017		1	VV	Receptacle, waste, approx. 12" (300 mm) diameter
X3930		AR	VV	Illuminators, film, x-ray, 120 volt, wall mounted (1 bank of 3)
M7401		1	VV	Portable exam light, 120 volts, w/ variable intensity controls approx. 18" diameter x 75" H (450 mm diameter x 1875 mm H)
M7860		1	VV	Monitor, cardiac - on cart (floor unit)
A5145		AR	VV	Hook, coat, wall mounted
M3070		1	VV	Hamper, soiled linen
F0355		2	VV	Stool, surgical
F3200		1	VV	Clock, atomic, battery operated
M1801		1	VV	PC, computer system, with keyboard
M9060		1	VV	Table, treatment
F3010 or F3025		1	VV	Bulletin board, 30" x 42" (750 mm x 1050 mm)
A5106		1	VV	Sharps container, wall mounted
A5106		1	VV	Glove dispenser, wall mounted
E0210		1	VV	Modular work station with under counter keyboard tray, overhead storage, and wall hanger strips.
M3150		AR	VV	Automated storage/dispersing unit (cell) secure, approx. 27" W x 25" D x 78" H (675 mm W x 635 mm D x 1950 mm H)

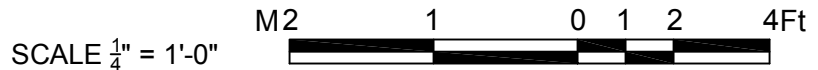


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Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1)  
 Floor Plan

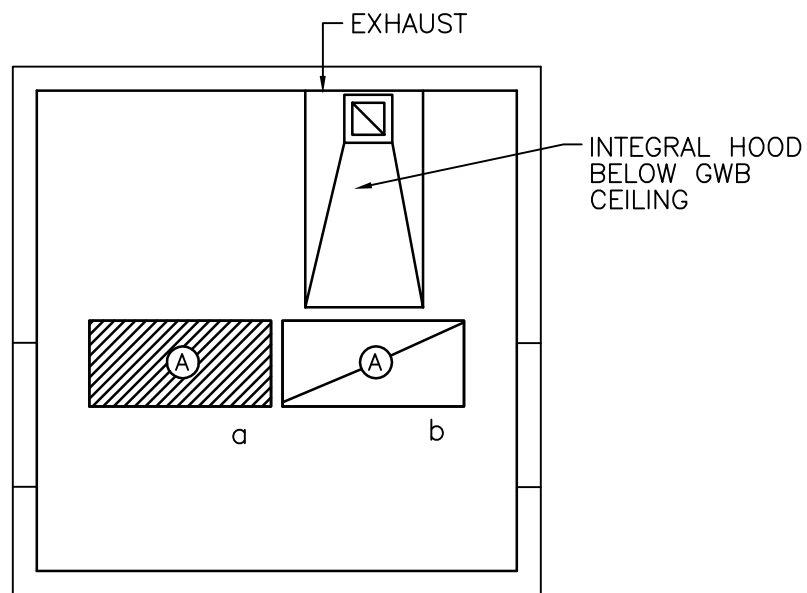


100 NSF/ 9.3 NSM



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Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1)  
Reflected Ceiling Plan



100 NSF/ 9.3 NSM

SCALE  $\frac{1}{4}'' = 1'-0''$



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.

Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1)

Design Standards

**ARCHITECTURAL**

Ceiling:	GWB-SC
Ceiling Height:	9'-0" (2700 mm)
Wall Finish:	GWB-SC
Wainscot:	--
Base:	WSF, 6" (150 mm)
	Integral Cove Base
Floor Finish:	WSF
Slab Depression:	--
Notes:	--

**SPECIAL EQUIPMENT**

**LIGHTING**

General:	--
Special:	--
Emergency:	--
Notes:	<ol style="list-style-type: none"> <li>1) 2' x 4' (600 mm x 1200 mm) recessed fluorescent fixture w/ acrylic prismatic lens, w/ F32T8 lamps, 4100°K, CRI=85 (minimum).</li> <li>2) The foot-candle level is average maintained.</li> <li>3) Provide ballasts per fixture for desired switching configuration. To provide a uniform lighting level, switch inner lamp(s) on first switch and outer lamps on second switch.</li> <li>4) Exact quantity, location, and lamping of light fixtures shall be chosen to meet the foot-candle requirement.</li> </ol>

**POWER**

General:	As Shown
Special:	As Shown
Emergency:	As Shown
Notes:	--

**COMMUNICATION/SPECIAL SYSTEMS**

Data:	--
Telephone:	--
Intercom:	--
Nurse Call:	--
Public Address:	--
Radio/Entertainment:	--
MATV:	--
CCTV:	--
MID:	--
Security/Duress:	--
VTEL:	--
VA Satellite TV:	--
Notes:	--

**HEATING, VENTILATING AND AIR CONDITIONING**

Inside Design Conditions:	70°F (21°C) to 75°F (24°C) Dry-Bulb Temperature
	30 Percent to 50 Percent Relative Humidity
Minimum Air Changes per Hour:	As required
100% Exhaust:	Yes
100% Outside Air:	All Make-Up Air from adjoining spaces
Room Air Balance:	Double Negative (--)
Dedicated Exhaust System:	No
Occupancy:	None
AC Load-(Equipment):	None
AC Load-(Light):	As Required
Notes:	--

**PLUMBING AND MEDICAL GASES**

Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	--
Laboratory Vacuum:	--
Sanitary Drain:	Yes
Reagent Grade Water:	--
Medical Air:	--
Medical Vacuum:	--
Compressed Air:	Yes
Oxygen:	--
Nitrogen Oxide:	--
Nitrogen:	--
Anesthesia Evac:	--
Acid Waste:	--
Silver Recovery:	--
Notes:	1) Pre-Filters on water feed to sterilizer needed.

Surgery: Sub-Sterile Room (Cabinet Enclosed Equipment) (ORSR1)

Equipment List

JSN	SYMBOL	QTY	AI	DESCRIPTION
S0137	VS-122	1	CC	Sterilizer, electric single door, recessed through one wall, chamber size: 16" x 16" x 26"/3.8 cu. ft. (400 mm x 400 mm x 650 mm/0.11m <sup>3</sup> ). Provide water, compressed air, drain, electric and exhaust as required (PG-18-1, MCS 11 71 00). -or-
A0125	VS-123	1	CC	Sterilizer, electric single door, cabinet enclosed, chamber size: 16" x 16" x 26"/3.8 cu. ft. (400 mm x 400 mm x 650 mm/0.11M <sup>3</sup> ). Provide water, compressed air, drain, electric and exhaust as required (PG-18-1, MCS 11 71 00).
M3110	HW-412E	1	CC	Cabinet, blanket and solution warming, two heated compartments, electrical (service as required), recessed, 30" x 27" x 76" (750 mm x 675 mm x 1900 mm) (PG-18-1, MCS 11 53 71)
		1	CC	Drain, floor
CT050	TOP 5A	1	CC	Counter top, corrosion resisting steel, 1-1/4" (25 mm) thick with integral sink and drain board (PG-18-1, MCS 12 36 00)
C03P0	VL20	1	CC	Cabinet, under counter, sink unit, 2 hinged panel doors, available widths 30" (750 mm), 36" (900 mm), 42" (1050 mm), 48" (1200 mm); depth 22" (550 mm); height 36" (900 mm) including 5" (125 mm) toe base (PG-18-1, MCS 12 32 00)
CS150	N-2	1	CC	Sink corrosion resisting steel, with end or corner drain outlet, 22" x 16" x 11" (550 mm x 400 mm x 275 mm) deep (PG-18-1, MCS 12 36 00)
		1	CC	Receptacle, electrical, duplex, 120 volt, with ground fault interrupter (PG-18-1, MCS 26 27 26)
A5080		1	VV	Dispenser, paper towel, surface mounted
A5075		1	VV	Dispenser, soap, liquid, wall mounted
F0535		1	VV	Cart, solution
F3200		1	VV	Clock, atomic, battery operated

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