Section 4

Design Guide Plates and Data Sheets: **Patient Care Areas**

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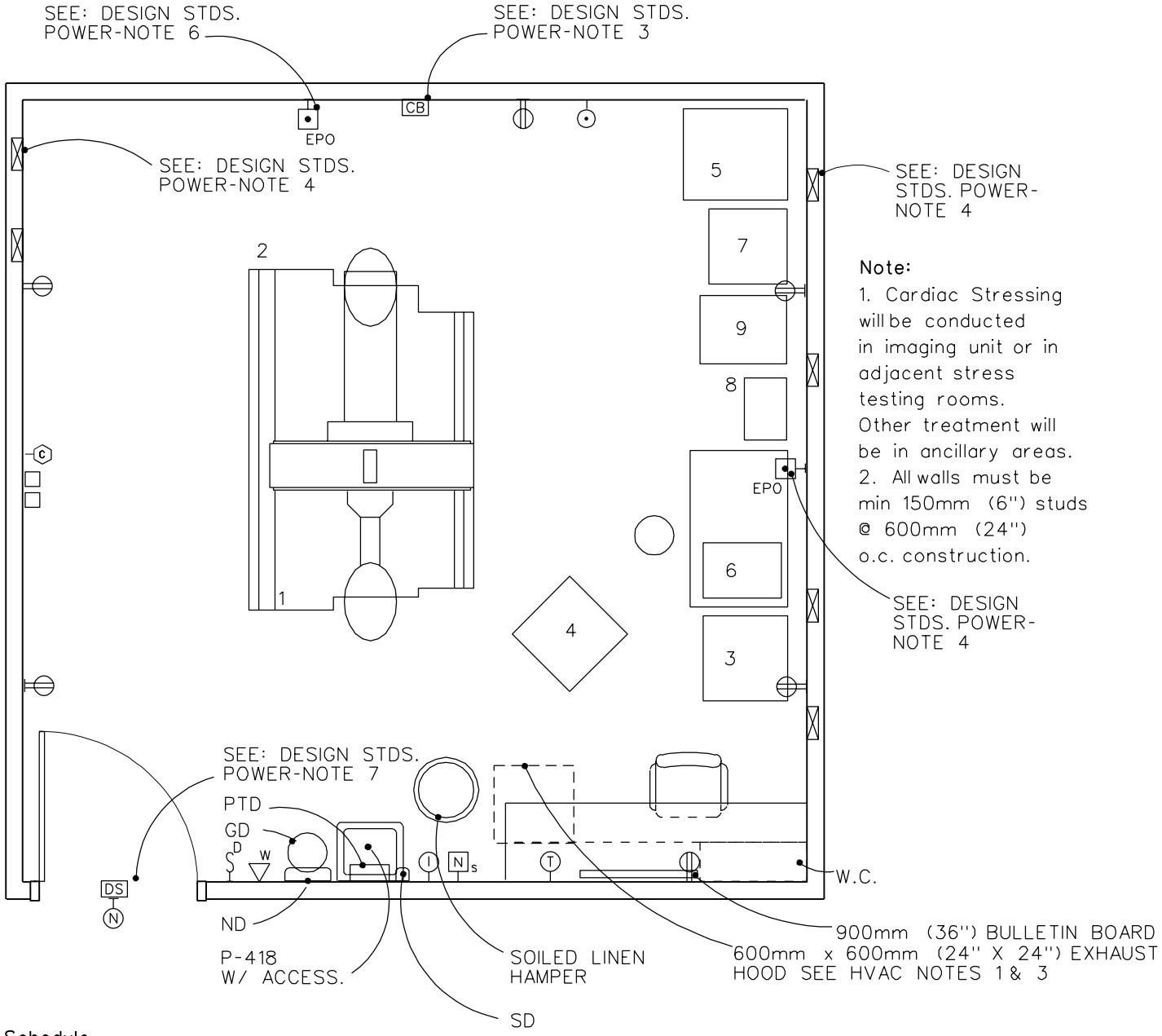
Imaging Unit - Dual Head Camera
Equipment & Utility Plan

FINAL DRAFT 9-6-95
Revised 9/96



Note:
1. Cardiac Stressing will be conducted in imaging unit or in adjacent stress testing rooms. Other treatment will be in ancillary areas.
2. All walls must be min 150mm (6") studs @ 600mm (24") o.c. construction.

Schedule

1	GANTRY TABLE ASSEMBLY
2	FLOOR TRACKS
3	COLLIMATOR STORER/SERVER
4	ACQUISITION TERMINAL
5	ACQUISITION PROCESSOR
6	OPERATOR'S CONSOLE
7	IMAGE PROCESSOR
8	MULTIFORMATTER
9	RECONSTRUCTION ACCELERATOR

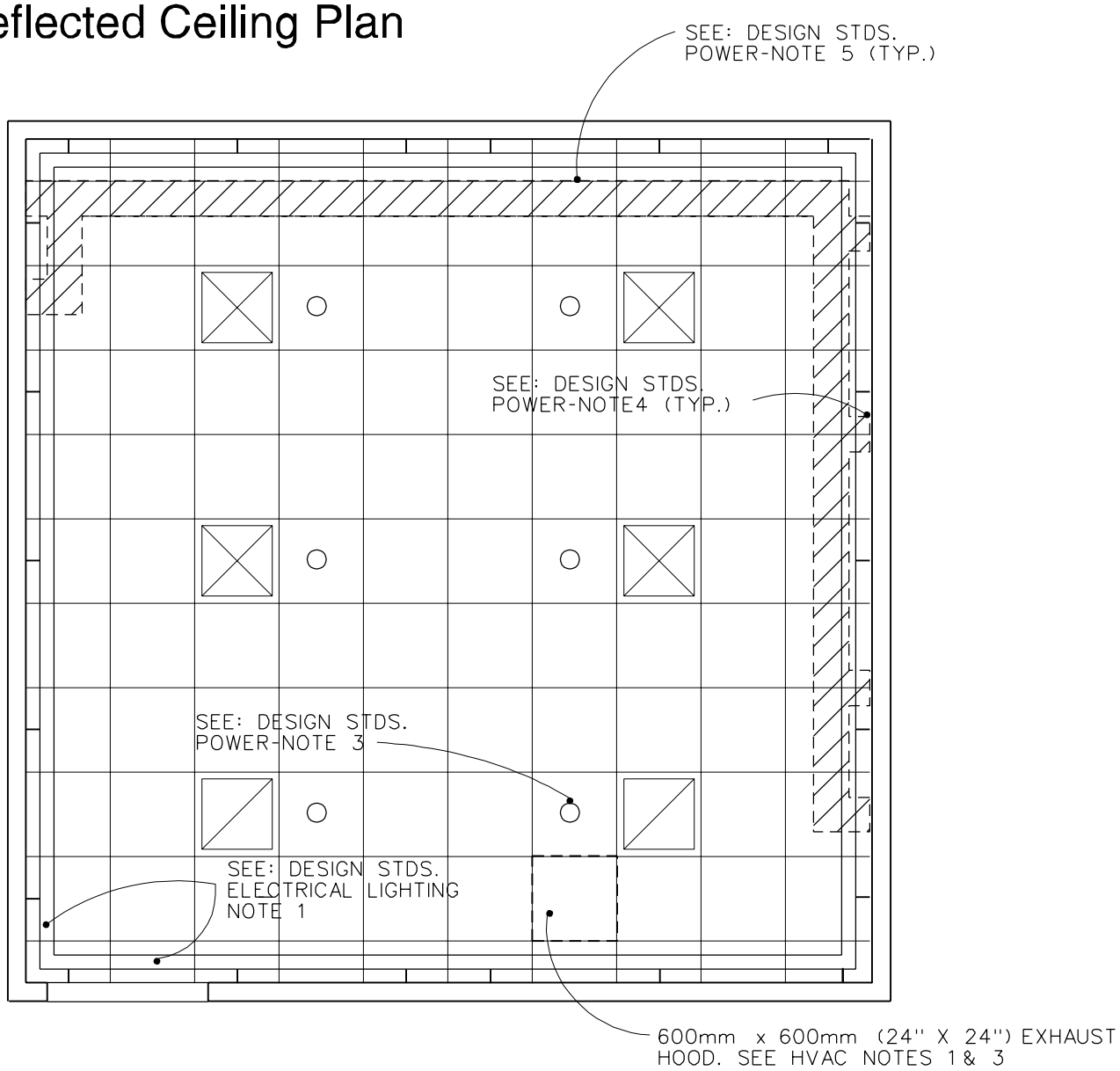
Note:
Perimeter walls may require shielding. A registered Health Physicist should check adjacency uses and determine shielding requirements.

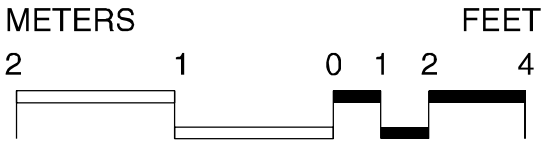
37.2 NSM
400 NSF

METERS 2 1 0 1 2 FEET 4

Imaging Unit - Dual Head Camera
Reflected Ceiling Plan

FINAL DRAFT 9-6-95
Revised 9/96





Design Standards
Imaging Unit- Dual Head Camera

ARCHITECTURAL

Ceiling:	Acoustical ceiling tile
Ceiling Ht:	2900 mm (9'-6")
Wall Finish:	Paint
Wainscot:	---
Base:	Integral weld seam sheet flooring base
Floor Finish:	Welded seam sheet flooring
Slab Depr.:	---
Notes:	1200 mm (4'-0") wide door

SPECIAL EQUIPMENT

In-wall permanent lead shielding is not generally required, but a registered health physicist should be consulted to determine shielding requirements.

ELECTRICAL LIGHTING

General: 30FC

Notes:

1. Continuous fluorescent direct/indirect wall mounted fixture, acrylic prismatic lens on top and bottom, W/2-F32T8 lamps, 4100 degree K, CRI=85 (min.).
2. Illumination level controlled dimmer.
3. Incandescent lights on dimmer.

POWER

General: 1000W (receptacles)

Emergency:

Notes:

1. The electrical plan as shown shall be used as a guide only. Equipment locations, dimensions and wiring requirements shall be per the system suppliers equipment 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 equipment to related accessories.
3. 480V., 3P., 150A, adjustable trip flush mounted circuit breaker with shunt trip. Run empty 50 mm (2") conduit from circuit breaker to duct above finished ceiling.
4. 250 mm x 140 mm (10" x 5-1/2") deep flush vertical wall duct with 300 mm (12") wide screw-on cover. Connect to duct above finished ceiling. Terminate at floor.
5. 250 mm x 90 mm (10" x 3-1/2") deep duct above finished ceiling with 10" wide screw-on cover. Connect to vertical wall duct.
6. Emergency power off (EPO) push button station. Connect to shunt trip circuit breakers.
7. Run 65mm (2-1/2") conduit from door switch to junction box at controller. Connect door switch so that if door is opened the x-ray system will be shut off.

COMMUNICATIONS

ADP:	---
Radio:	---
Telephone:	Yes
Intercom:	Yes
Public Addr:	---
Notes:	---

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling :	25 °C(78 °F)
Dry Bulb Temp Heating :	22 °C (72 °F)
Minimum % Outside Air:	---
100% Exhaust Air:	Yes
Noise Criteria:	NC 40
Steam:	---
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	Negative
AC Load-Equipment:	6100 w (20,800 Btu/hr)
AC Load-Lighting	33 w/m^2 (3w/sf)
Number of People:	6
Special Exhaust:	-

Design Standards
Imaging Unit- Dual Head Camera

HEATING, VENTILATING AND AIR CONDITIONING (cont'd)

Notes:

1. Hood is not required if Xenon Gas is not prepared in the room. If hood is provided, furnish emergency power and lighting.
2. Provide a minimum of two floor level exhausts located 175 mm (7"- 0') AFF.
3. One imaging room must be a separate entity for the utilization of inhalant gas Xenon. This room will require dedicated exhaust and non/recirculating air.
4. Verify equipment AC load as per actual equipment used.

PLUMBING AND MEDICAL GAS

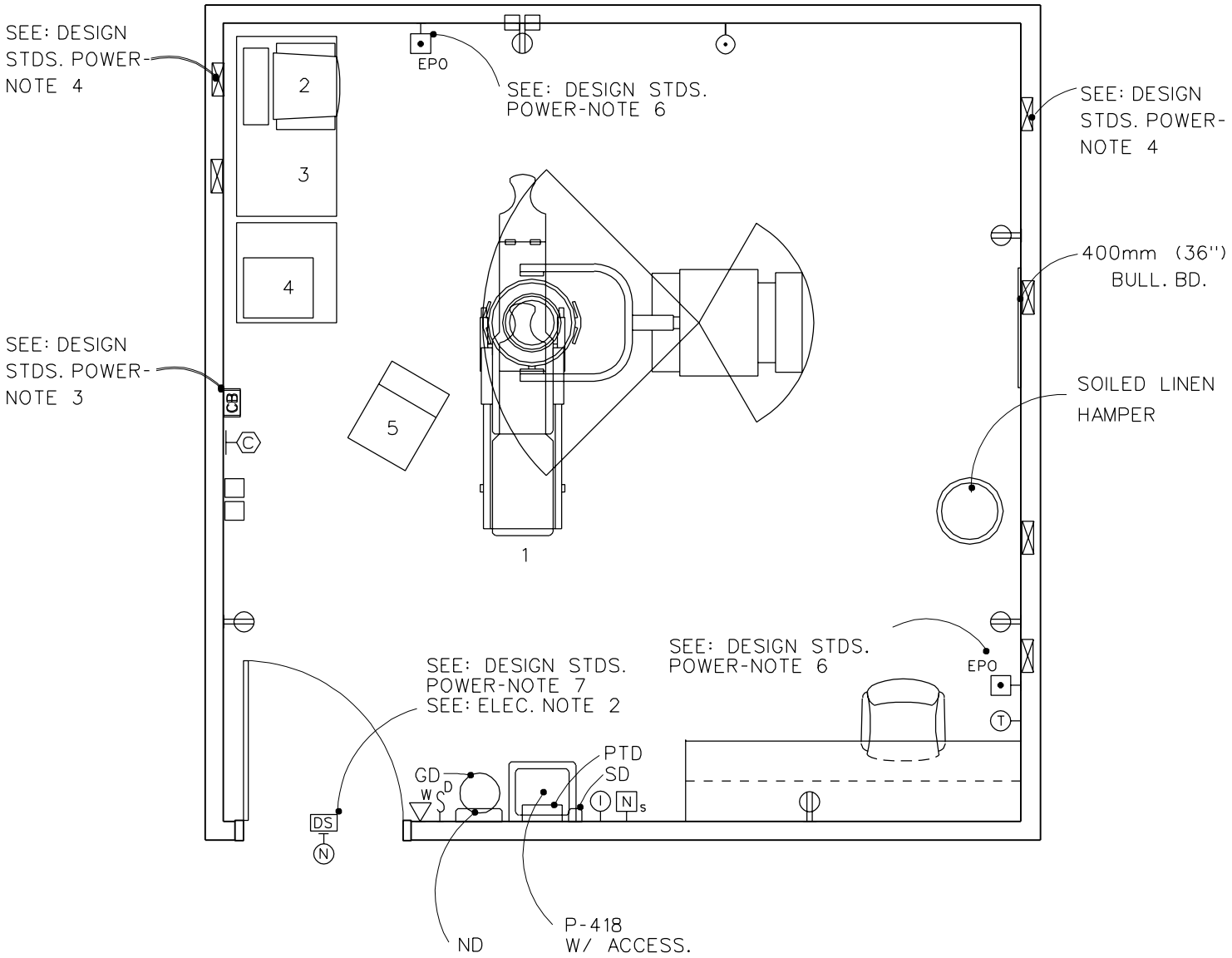
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	---
Laboratory Vacuum:	---
Sanitary Drain:	Yes
Reagent Grade Water:	---
Medical Air:	---
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	---

Equipment Guide List
Imaging Unit- Dual Head Camera

SYMBOL	QTY	AI	DESCRIPTION
			NOTE: *INTERCOM, STATION, HANDS FREE, WALL MOUNTED (PG-18-1, MCS 16760)*
			NOTE: *ILLUMINATION, GENERAL, WITH MULTI-LEVEL CONTROL (PG-18-1, MCS 16510)*
			NOTE: *OUTLET, EMERGENCY ALARM BUTTON (PG-18-1, MCS 16761)*
			NOTE: *OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)*
			NOTE: PROVIDE EXHAUST HOOD IN ROOM IF XENON IS USED.
			NOTE: *OUTLET, WALL, OXYGEN (PG-18-1, MCS 15491*
			NOTE: *OUTLET, WALL, VACUUM (PG-18-1, MCS 15491*
			NOTE: *RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, SEPARATE CIRCUIT WITH VOLTAGE STABILIZER REQUIRED FOR DETECTOR, OPERATOR'S CONSOLE AND ELECTRONICS CABINET (PG-18-1, MCS 16140; H-18-3, CS 801-3)*
			NOTE:*COUNTER TOPS OF MODULAR CASEWORK ARE TO BE IMPENETRABLE, SEAMLESS SURFACES WITH RIMS AND DRIP GROOVES AT EDGES. (PG-18-1, MCS 11620, PG-18-5)*
	1	VV	BULLETIN BOARD, APPROX., 910 mm X 910 mm (36" X 36")
	1	VV	CABINET, WALL MOUNTED, 760 mm (30") WIDE
	1	VV	CHAIR, ROTARY, WITH ARMS
	1	VV	CLOCK, BATTERY OPERATED
	1	VV	DISPENSER, BI-FOLD PAPER TOWEL, SURFACE MOUNTED
	1	VV	DISPENSER, GLOVES, WALL MOUNTED
	1	VV	DISPENSER, SOAP, LIQUID, WALL MOUNTED
	1	VV	DISPOSAL, NEEDLES, WALL MOUNTED
	1	VV	HAMPER, SOILED LINEN, WITH HINGED SELF CLOSING TOP, 510 mm (20") DIA.
	1	CC	HOOD, EXHAUST, 610 mm X 610 mm (24" X 24") FOR XENON GAS IF XENON GAS IS USED (PG-18-1, MCS 15822)
	1	VV	IMAGING DETECTOR DUAL HEAD
P-418	1	CC	LAVATORY, STRAIGHT BACK (PG-18-1, MCS 15450)
	AR	CF	MODULAR CASEWORK
	1	VV	RECEPTACLE, WASTE, STEP ON TYPE, APPROX., 310 mm (12”) DIA.

Imaging Unit - Single Head Camera
Equipment & Utility Plan

FINAL DRAFT 9-6-95
Revised 9/96



Schedule

1	GANTRY TABLE ASSEMBLY
2	MICRODELTA
3	COMPUTER WORKSTATION
4	MICRO DOT IMAGER
5	DOT

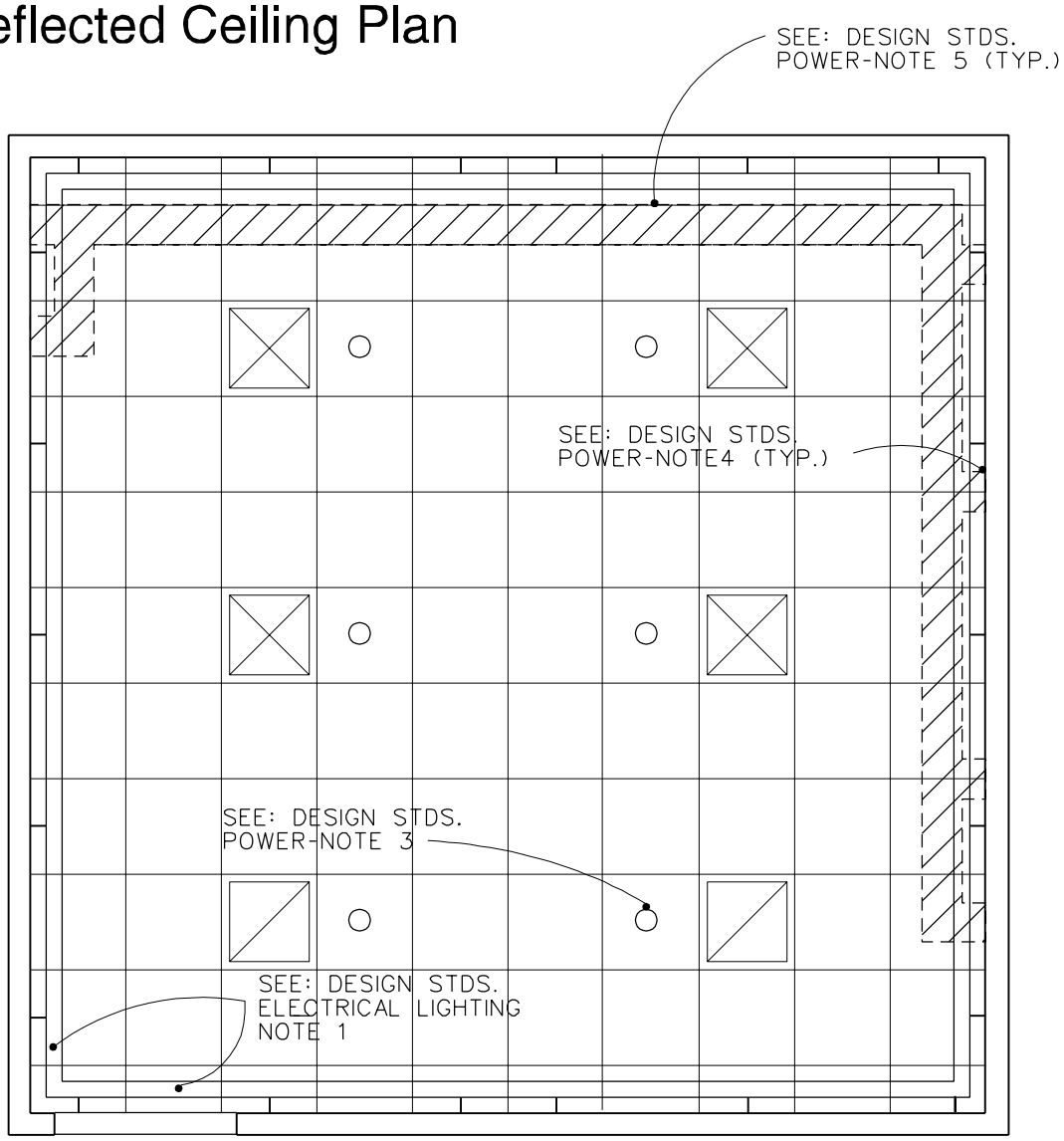
Note:
Perimeter walls may require shielding. A registered Health Physicist should check adjacency uses and determine shielding requirements.

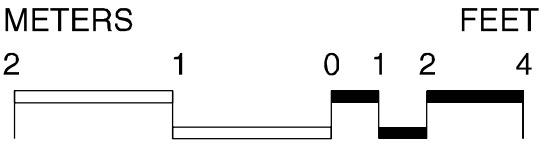
37.2 NSM
400 NSF

METERS 2 1 0 FEET 1 2 4

Imaging Unit - Single Head Camera
Reflected Ceiling Plan

FINAL DRAFT 9-6-95
Revised 9/96





Design Standards
Imaging Unit- Single Head Camera

ARCHITECTURAL

Ceiling:	Acoustical ceiling tile
Ceiling Ht:	2900 mm (9'- 6")
Wall Finish:	Paint
Wainscot:	---
Base:	Integral weld seam sheet flooring base
Floor Finish:	Welded seam sheet flooring
Slab Depr.:	---
Notes:	1200 mm (4'-0") wide door

SPECIAL EQUIPMENT

In-wall permanent lead shielding is not generally required, but a registered health physicist should be consulted to determine shielding requirements.

ELECTRICAL LIGHTING

General: 30FC

Notes:

1. Continuous fluorescent direct/indirect wall mounted fixture, acrylic prismatic lens on top and bottom, W/2-F32T8 lamps, 4100 degree K, CRI=85 (min).
2. Illumination level controlled dimmer on incandescent lights.

POWER

General: 1000W (receptacles)

Emergency:

Notes:

1. The electrical plan as shown shall be used a guide only. Equipment locations, dimensions and wiring requirements shall be per the system suppliers equipment 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 equipment to related accessories.
3. 480V., 3P., 150A, adjustable trip flush mounted circuit breaker with shunt trip. Run empty 50 mm (2") conduit from circuit breaker to duct above finished ceiling.
4. 250 mm x 140 mm (10" x 5-1/2") deep flush vertical wall duct with 300 mm (12") wide screw-on cover. Connect to duct above finished ceiling. Terminate at floor.
5. 250 mm x 90 mm (10" x 3-1/2") deep duct above finished ceiling with 250 mm (10") wide screw-on cover. Connect to vertical wall duct.
6. Emergency power off (EPO) push button station. Connect to shunt trip circuit breakers.
7. Run 13 mm (1/2") conduit from door switch to junction box at x-ray controller. Connect door switch so that if door is opened the system will be shut off.

COMMUNICATIONS

ADP:	Yes
Radio:	---
Telephone:	Yes
Intercom:	Yes
Public Addr:	---
Notes:	---

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling :	25 °C (78 deg F)
Dry Bulb Temp Heating :	22 ° C (72 deg F)
Minimum % Outside Air:	---
100% Exhaust Air:	yes
Noise Criteria:	NC 40
Steam:	---
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	4
Room Pressure:	Negative
AC Load-Equipment:	6100 w (20,800 Btu/hr)
AC Load-Lighting:	33 w/m ^{2}(3w/sf)
Number of People:	6
Special Exhaust:	---

Design Standards
Imaging Unit- Single Head Camera

HEATING, VENTILATING AND AIR CONDITIONING (cont'd)

Notes:

1. Hood is not required if Xenon Gas is not prepared in the room. If hood is provided, furnish emergency power and lighting.
2. Provide a minimum of two floor level exhaust outlets located 175 mm (7") AFF.
3. One imaging room must be a separate entity for the utilization of inhalant gas, Xenon. This room will require dedicated exhaust and non-recirculating air.
4. Verify equipment AC load as per actual equipment used.

PLUMBING AND MEDICAL GAS

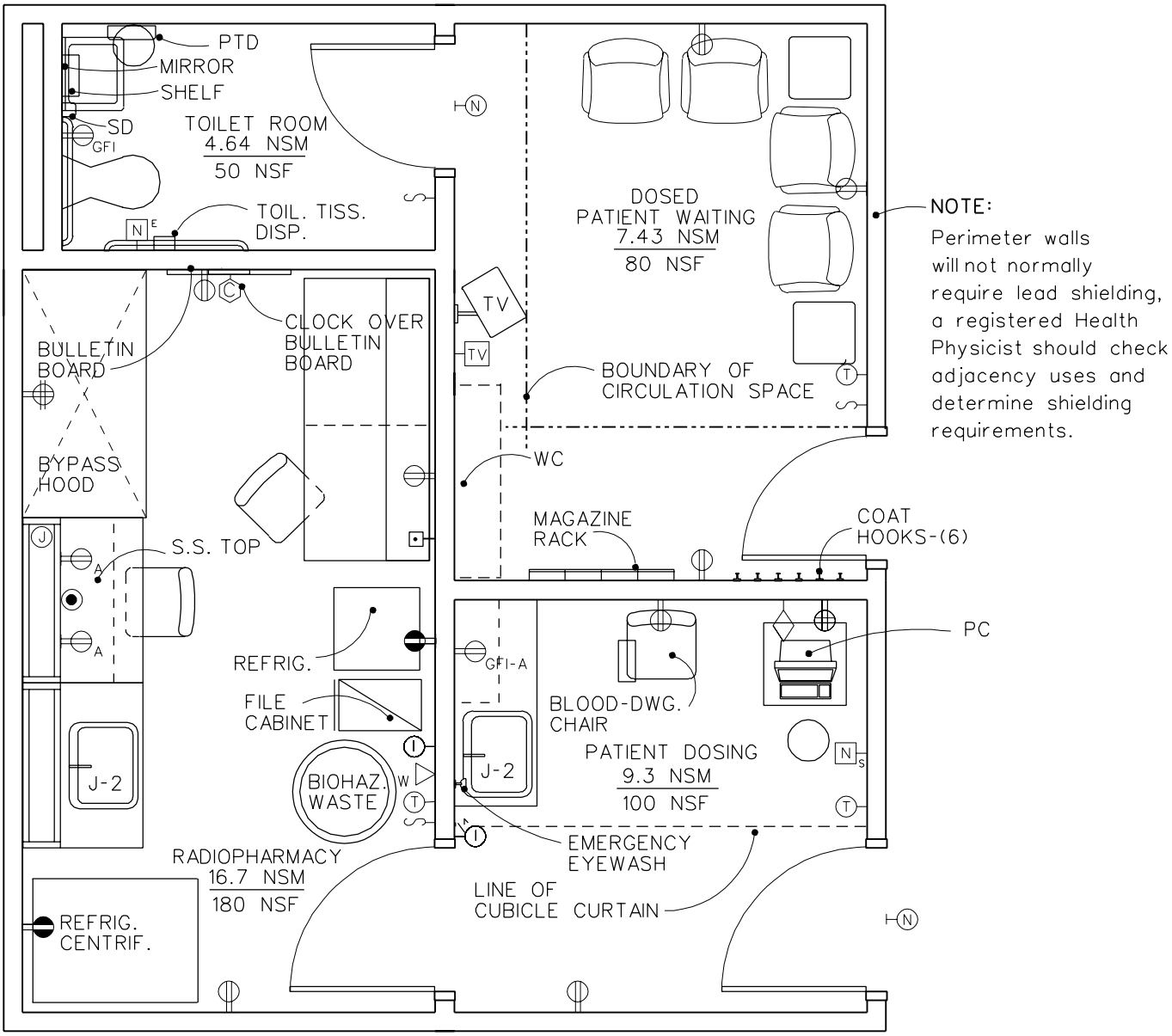
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	---
Laboratory Vacuum:	---
Sanitary Drain:	Yes
Reagent Grade Water:	---
Medical Air:	---
Medical Vacuum:	Yes
Oxygen:	Yes
Notes:	---

Equipment Guide List
Imaging Unit- Single Head Camera

SYMBOL	QTY	AI	DESCRIPTION
			NOTE: *INTERCOM, STATION, HANDS FREE, WALL MOUNTED (PG-18-1, MCS 16760)*
			NOTE: *ILLUMINATION, GENERAL, WITH MULTI-LEVEL CONTROL (PG-18-1, MCS 16510)*
			NOTE: *OUTLET, EMERGENCY ALARM BUTTON (PG-18-1, MCS 16761)*
			NOTE: *OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)*
			NOTE: *OUTLET, WALL, OXYGEN (PG-18-1, MCS 15491*
			NOTE: PROVIDE EXHAUST HOOD IN ROOM IF XENON IS USED.
			NOTE: *OUTLET, WALL, VACUUM (PG-18-1, MCS 15491*
			NOTE: *RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, SEPARATE CIRCUIT WITH VOLTAGE STABILIZER REQUIRED FOR DETECTOR, OPERATOR'S CONSOLE AND ELECTRONICS CABINET (PG-18-1, MCS 16140*
			NOTE:*COUNTER TOPS OF MODULAR CASEWORK ARE TO BE IMPENETRABLE, SEAMLESS SURFACES WITH RIMS AND DRIP GROOVES AT EDGES. (PG-18-1, MCS 11620, PG-18-5)*
	1	VV	BULLETIN BOARD, APPROX., 910 mm X 910 mm (36" X 36")
	1	VV	CHAIR, ROTARY, WITH ARMS
	1	VV	CLOCK, BATTERY OPERATED
	1	VV	DISPENSER, BI-FOLD PAPER TOWEL, SURFACE MOUNTED
	1	VV	DISPENSER, GLOVES, WALL MOUNTED
	1	VV	DISPENSER, SOAP, LIQUID, WALL MOUNTED
	1	VV	DISPOSAL, NEEDLES, WALL MOUNTED
	1	VV	HAMPER, SOILED LINEN, WITH HINGED SELF CLOSING TOP, 510 mm (20") DIA.
	1	CC	HOOD, EXHAUST, 610 mm X 610 mm (24" X 24") FOR XENON GAS IF XENON IS USED (PG-18-1, MCS 15822)
	1	VV	IMAGING DETECTOR, SINGLE HEAD
P-418	1	CC	LAVATORY, STRAIGHT BACK ELECTRONIC CONTROL (PG-18-1, MCS15450)
	AR	CF	MODULAR CASEWORK
	1	VV	RECEPTACLE, WASTE, STEP ON TYPE, APPROX., 310 mm (12") DIA.

Radiopharmacy
Equipment & Utility Plan

FINAL DRAFT 9-6-95
Revised 9/96



38.1 NSM
410 NSF

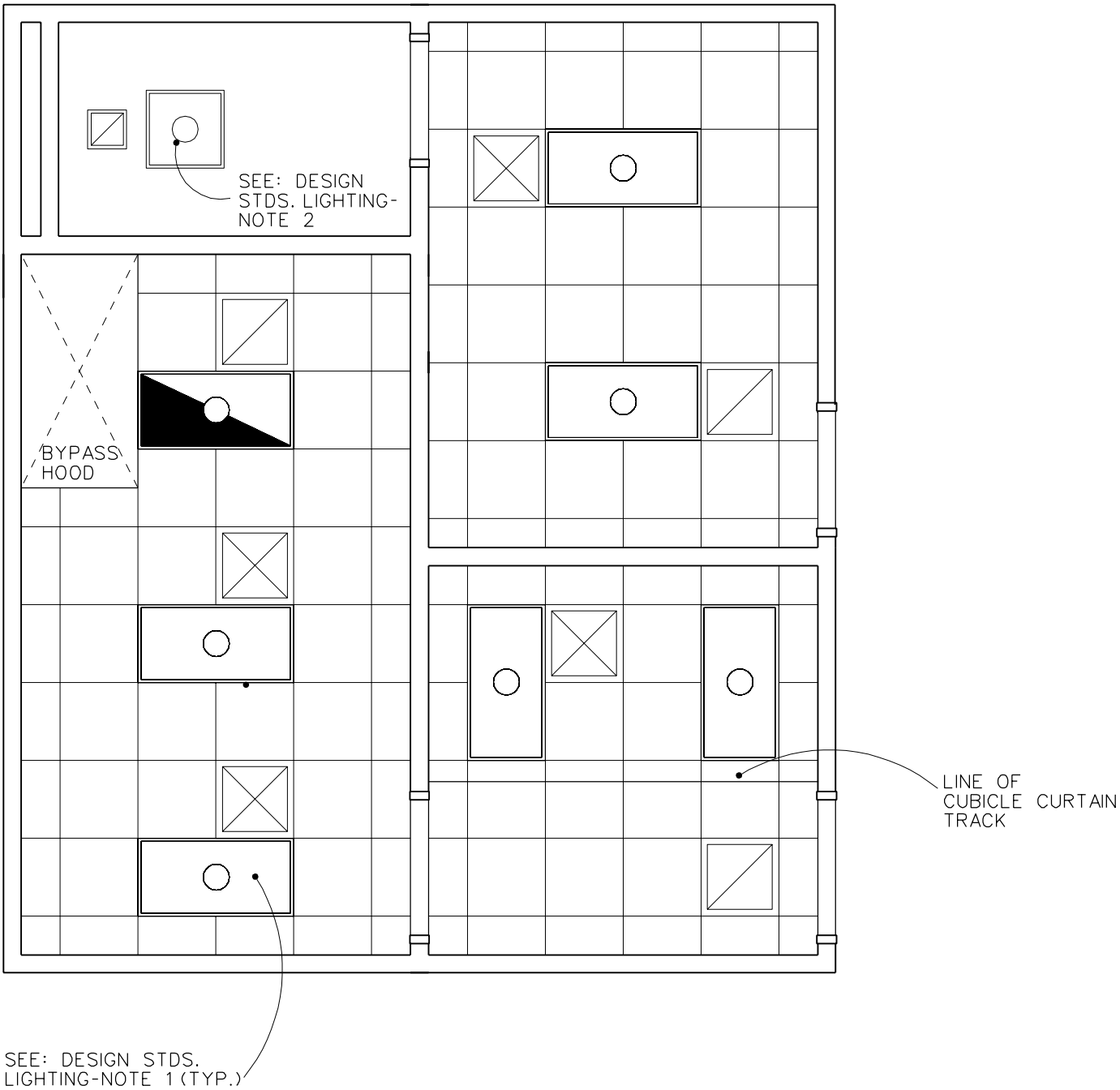
METERS 2 1 0 1 2 FEET 4

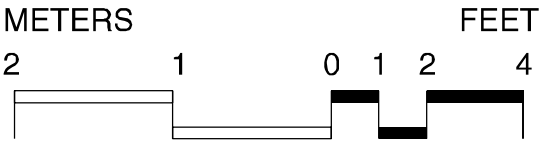
VA DESIGN GUIDE
NUCLEAR MEDICINE SERVICE

GUIDE PLATE 4-3

Radiopharmacy
Reflected Ceiling Plan

FINAL DRAFT 9-6-95
Revised 9/96





Design Standards
Radiopharmacy

ARCHITECTURAL

Ceiling:	Acoustical ceiling tile
Ceiling Ht:	2700 mm (9'-0")
Wall Finish:	Paint
Wainscot:	---
Base:	Integral welded seam sheet flooring base Ceramic tile in toilet
Floor Finish:	Welded seam sheet flooring, ceramic tile in toilet
Slab Depr.:	---
Notes:	1. 1050 mm (3'-6") wide door in Radiopharmacy

SPECIAL EQUIPMENT

hand-free type intercoms

ELECTRICAL LIGHTING

General:	30FC (toilet room) 30FC (patient waiting) 70FC (Radiopharmacy) 50FC (patient dosing)

Notes:

1. 600 mm x 1200 mm (2' x 4') recessed fluorescent light fixture, acrylic prismatic lens, W/2-F32T8 lamps, 4100 deg. K, CRI=85.
2. 600 mm x 600 mm (2' x 2') recessed fluorescent light fixture, acrylic prismatic lens, W/2-FB31 lamps, 4100 deg. K, CRI=985.

POWER

General:	2800W (receptacles)
Emergency:	2000W (receptacles)
Notes:	1. Junction box for biological safety cabinet on emergency power.

COMMUNICATIONS

ADP:	Yes
Radio:	---
Telephone:	Yes
Intercom:	Yes
Public Addr:	---
Notes:	---

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling :	25 °C F (78 °F)
Dry Bulb Temp Heating :	22 ° C (72 °F)
Minimum % Outside Air:	100% for Radio-pharmacy and toilet rooms
100% Exhaust Air:	Yes See HVAC Design Manual for hospital projects for Xenon gas ventilation requirements
Noise Criteria:	NC-40
Steam:	---
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	12- Radiopharmacy 10-toilet room 2- all others
Room Pressure:	Negative for radio-pharmacy & toilet; 0 for all others
AC Load-Equipment:	195 w/m ^{2}(18 w/sf) for radiopharmacy; 33 w/m ^{2}(3 w/sf) for all others
AC Load-Lighting:	15 w/m^2 (1.4 w/sf) for toilet 19 w/m^2 (1.75 w/sf) for radiopharmacy 23 w/m^2 (2.1 w/sf) for all others
Number of People:	4 per room
Special Exhaust:	Provide dedicated exhaust system for hood.

Notes:

1. Equipment AC load should be verified by actual fixture count.
2. Verify equipment AC load for each space for actual equipment used.

Design Standards
Radiopharmacy

PLUMBING AND MEDICAL GAS	
Cold Water:	Yes
Hot Water:	Yes
Laboratory Air:	Yes
Laboratory Vacuum:	Yes
Sanitary Drain:	Yes
Reagent Grade Water:	Check with the Medical Center
Medical Air:	---
Medical Vacuum:	--
Oxygen:	---

Notes:

1. Natural gas is required for Bypass hood.
2. Sanitary waste and vent from radiopharmacy needs to be chemical resistance type.

Equipment Guide List
Radiopharmacy

SYMBOL	QTY	AI	DESCRIPTION
			***NOTE**: INTERCOM, STATION, HANDS FREE, WALL MOUNTED (PG-18-1, MCS 16760)*
			***NOTE:** OUTLETS, AIR, GAS AND VACUUM, GROUPED, 1219 mm (48") ON CENTER ABOVE COUNTER (PG-18-1 & PG-18-6, MCS 11602)*
			***NOTE:** OUTLET, EMERGENCY ALARM BUTTON (PG-18-1, MCS 16761)*
			***NOTE:** OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)*
			***NOTE:** OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)*
			***NOTE:** RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140,*
			***NOTE:** RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140*
			***NOTE:** RECEPTACLE, ELECTRICAL, QUADRAPLEX, FOR COMPUTER EQUIPMENT ITEMS (PG-18-1, MCS 16140; H-18-3, CS 866-1)*
			***NOTE:** SHADES OR DRAPES, WINDOW, LIGHT-PROOF (IF NEEDED)*
			***NOTE:** WHEELCHAIR WATER CLOSETS WILL BE IN ACCORDANCE WITH THE APPROPRIATE SPACE PROGRAM, P-103 WILL BE USED FOR BOTH CONVENTION AND WHEELCHAIR INSTALLATIONS.*
			***NOTE:**COUNTER TOPS OF MODULAR CASEWORK ARE TO BE IMPENETRABLE,SEAMLESS SURFACES WITH RIMS AND DRIP GROOVES AT EDGES. (PG-18-1, MCS 11620, PG-18-5)*
RADIOPHARMACY			
	1	CC	H-3-72 RADIOISOTOPE BY-PASS HOOD W/ CABINET BASE, 100% DIRECT EXHAUSTED AIR THROUGH THE WORK-SPACE. 1830mm X 910mm X 2130mm (72” X 36” X 84”) SEE HVAC DESIGN MANUAL FOR HOSPITAL PROJECTS
	1	VV	BULLETIN BOARD, APPROX., 910 mm X 910 mm (36" X 36")
	AR	VV	CABINET, FILING (LETTER SIZE) 5 DRAWER, APPROX., 380 mm X 640 mm X 1520 mm (15" X 25" X 60")
	1	VV	CENTRIFUGE, REFRIGERATED, 120 VOLT, 20 AMP, 910 mm X 1220 mm (36" X 48")
	1	VV	CHAIR, LABORATORY, SEMI-HYDRAULIC, ADJUSTABLE HEIGHT TO 790 mm (31")
	1	VV	CHAIR, ROTARY, WITH ARMS
	1	VV	CLOCK, BATTERY OPERATED
	1	VV	DISPENSER, BI-FOLD PAPER TOWEL, SURFACE MOUNTED
	1	VV	DISPENSER, GLOVES, WALL MOUNTED
	1	VV	DISPENSER, SOAP, LIQUID, WALL MOUNTED
	AR	CF	MODULAR CASEWORK

Equipment Guide List
Radiopharmacy- (cont'd)

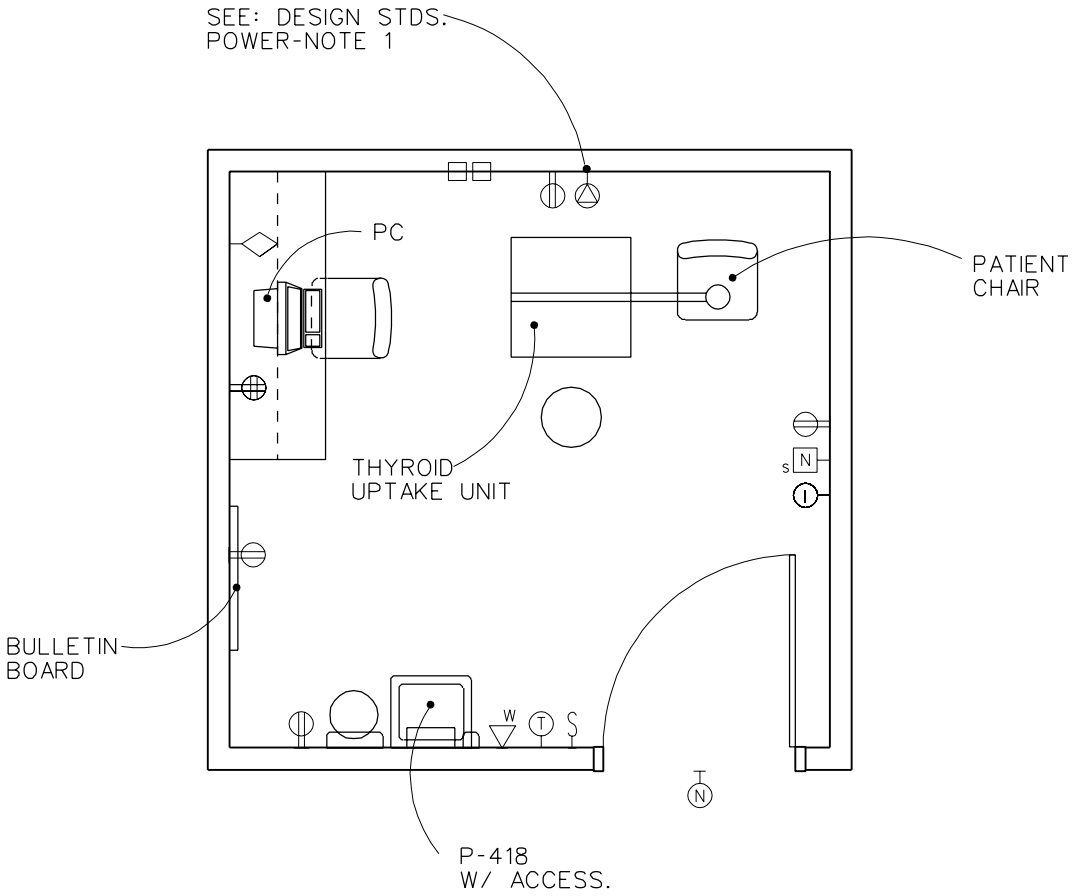
SYMBOL	QTY	AI	DESCRIPTION
RADIOPHARMACY (cont'd)			
	1	VV	DISPOSAL, NEEDLES, WALL MOUNTED
	1	VV	REFRIGERATOR, 4-10 DEGREES CELCIUS 7.1 CUBIC M (25 CUBIC FT), 120 VOLT, 20 AMP, REACH-IN TYPE, DOUBLE DOOR, WITH SHELVES
J-2	AR	CF	SINK, CORROSION RESISTING STEEL, WITH CENTER DRAIN OUTLET, 460 mm X 380 mm X 200 mm (18" X 15" X 8") (PG-18-1 & PG-18-6, MCS 11602)
PATIENT DOSING			
	AR	CF	MODULAR CASEWORK
J-2	AR	CF	SINK, CORROSION RESISTING STEEL, WITH CENTER DRAIN OUTLET, 460 mm X 380 mm X 200 mm (18" X 15" X 8") (PG-18-1 & PG-18-6, MCS 11602)
	1	VV	CHAIR, BLOOD DRAWING
	1	VV	CLOCK, BATTERY OPERATED
	1	VV	DISPENSER, BI-FOLD PAPER TOWEL, SURFACE MOUNTED
	1	VV	DISPENSER, GLOVES, WALL MOUNTED
	1	VV	DISPENSER, SOAP, LIQUID, WALL MOUNTED
	1	VV	DISPOSAL, NEEDLES, WALL MOUNTED
	1	VV	INDEPENDENT PERSONAL COMPUTER (PC) (FOR DOSAGE, MONITORING AND USE OF RADIOPHARMACEUTICALS)
	1	VV	STOOL, ADJUSTABLE HEIGHT, ON CASTERS, APPROX., 460 mm (18") DIA.
	1	VV	EMERGENCY EYE AND FACE WASH, RETRACTABLE, HAND- HELD, COUNTER MOUNTED (PG-18-1, MCS 11602)
DOSED PATIENT WAITING			
	AR	VV	CHAIR, STRAIGHT, WITH ARMS
	1	VV	CLOCK, BATTERY OPERATED
	1	VV	HOOK, COAT, WALL MOUNTED (6-8 HOOKS)
	1	VV	RACK, MAGAZINE, APPROX., 1070 mm X 460 mm X 1520 mm (42" X 18" X 60")
	AR	VV	TABLE, END, PLASTIC LAMINATE TOP, METAL FRAME
	1	VV	TV, WALL OR CEILING MOUNTED

Equipment Guide List
Radiopharmacy- (cont'd)

SYMBOL	QTY	AI	DESCRIPTION
DOSED PATIENT WAITING (cont'd)			
	AR	CF	MODULAR LABORATORY CASEWORK
	1	VV	RECEPTACLE, WASTE, BIOHAZARD TYPE, 760 mm (30") DIA., ON WHEELS WITH FOOT OPERATED LID SHELVES
PATIENT TOILET			
	AR	CC	BAR, GRAB FOR WATER CLOSET (PG-18-1, MCS 10800; PG-18-4, SD 12, 14B & 14F)
	1	CC	DISPENSER, TOILET TISSUE, DOUBLE ROLL (PG-18-1, MCS10800; PG-18-4, SD 12)
P-415	1	CC	LAVATORY, STRAIGHT BACK (PG-18-1, MCS 15450; PG-18-4, SD 53)
	1	CC	MIRROR, 610 mm X 910 mm (24" X 36"), OVER WHEELCHAIR LAVATORY (PG-18-1, MCS 10800; PG-18-4, SD 15)
P-103	1	CC	WATER CLOSET, WALL HUNG (PG-18-1, MCS 15450)
	1	VV	DISPENSER, BI-FOLD PAPER TOWEL, SURFACE MOUNTED
	1	VV	DISPENSER, SOAP, LIQUID, WALL MOUNTED
	1	VV	RECEPTACLE, WASTE, 330 mm (13") DIAMETER
	1	CC	SHELF/ STAINLESS STEEL WALL HUNG, 152mm x 457mm (6"x18")
	1	VV	COAT HOOK, WALL MOUNTED

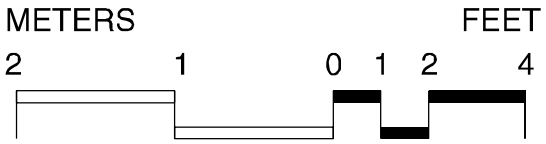
Thyroid Uptake
Equipment & Utility Plan

FINAL DRAFT 9-6-95
Revised 9/96



14.0 NSM

150 NSF

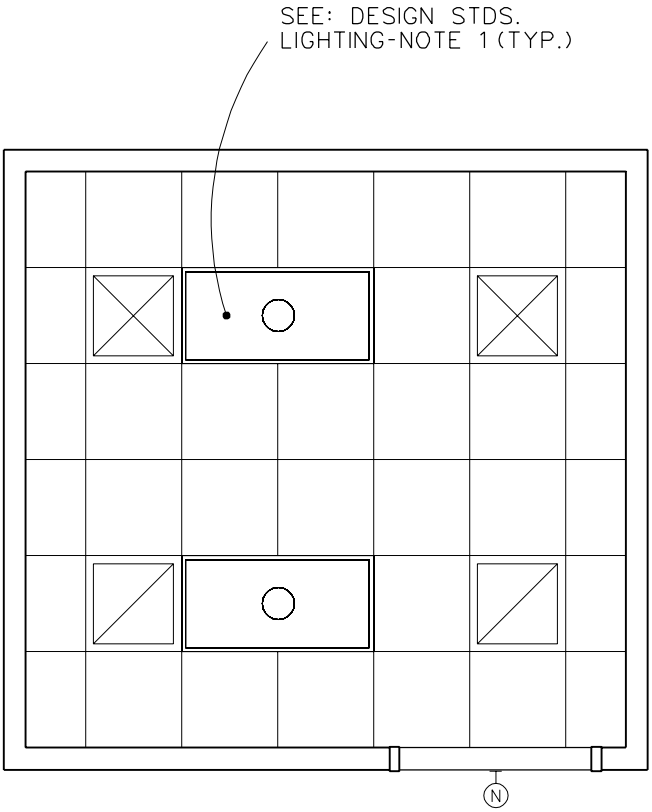


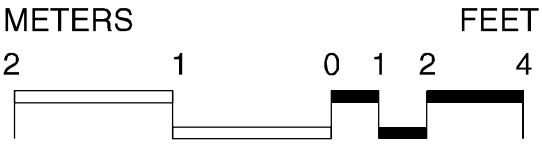
VA DESIGN GUIDE
NUCLEAR MEDICINE

GUIDE PLATE 4-4

Thyroid Uptake
Reflected Ceiling Plan

FINAL DRAFT 9-6-95
Revised 9/96





Design Standards
Thyroid Uptake

ARCHITECTURAL

Ceiling:	Acoustical ceiling tile
Ceiling Ht:	2700 mm (9'-0")
Wall Finish:	Paint
Wainscot:	---
Base: Integral welded seam sheet flooring base	
Floor Finish:	Welded seam sheet flooring
Slab Depr.:	---
Notes:	1200 mm (4'-0") wide door

SPECIAL EQUIPMENT

none

ELECTRICAL LIGHTING

General:	30FC
Notes:	1600 mm x 1200 mm (2' x 4') recessed fluorescent light fixture, acrylic prismatic lens, W/3-F32T8 lamps, 4100 deg. K, CRI=85 (minimum).

POWER

General:	1200 W (receptacles)
Emergency:	--
Notes:	1. Special receptacle for thyroid uptake unit (coordinate with supplier)

COMMUNICATIONS

ADP:	Yes
Radio:	---
Telephone:	Yes
Intercom:	Yes
Public Addr:	---
Notes:	---

HEATING, VENTILATING AND AIR CONDITIONING

Dry Bulb Temp Cooling :	25 °C (78° F)
Dry Bulb Temp Heating :	22 °C (72° F)
Minimum % Outside Air:	
15%	
100% Exhaust Air:	--
Noise Criteria:	NC-40
Steam:	---
Relative Humidity/Cooling:	50%
Relative Humidity/Heating:	30%
Minimum Air Changes/Hr.:	2
Room Pressure:	0
AC Load-Equipment:	54 w/m^2 (5 w/sf)
AC Load-Lighting:	15 w/m^2 (1.4 w/sf)
Number of People:	3
Special Exhaust:	---
Notes:	

PLUMBING AND MEDICAL GAS

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

Equipment Guide List
Thyroid Uptake

SYMBOL	QTY	AI	DESCRIPTION
			NOTE: *INTERCOM, STATION, HANDS FREE, WALL MOUNTED (PG-18-1, MCS 16760)*
			NOTE*: OUTLET, EMERGENCY ALARM BUTTON (PG-18-1, MCS 16111)*
			NOTE: *OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)*
			NOTE: *OUTLET, WALL, OXYGEN (PG-18-1, MCS 15491; H-18-3, CS 310-1)*
			NOTE: *OUTLET, WALL, VACUUM (PG-18-1, MCS 15491; H-18-3, CS 310-1)*
	1	VV	THYROID UPTAKE UNIT
P-418	1	CC	LAVATORY, SENSOR CONTROL (PG-18-1, MCS 15450)
	AR	CF	MODULAR CASEWORK
	1	VV	BULLETIN BOARD, APPROX. 914mm x 914mm (36” x 36”)
	1	VV	CLOCK, BATTERY OPERATED
	1	VV	IMAGING DETECTOR, THYROID UPTAKE
	1	VV	DISPENSER, BI-FOLD PAPER TOWEL, SURFACE MOUNTED
	1	VV	DISPENSER, GLOVES, WALL MOUNTED
	1	VV	DISPENSER, SOAP, LIQUID, WALL MOUNTED
	1	VV	DISPOSAL, NEEDLES, WALL MOUNTED
	1	VV	HAMPER, SOILED LINEN, WITH HINGED SELF CLOSING TOP, 508mm (20”) DIA.
	1	VV	RECEPTACLE, WASTE, 305 mm (12") DIAMETER
	1	VV	COMPUTER TERMINAL, WITH KEYBOARD
	1	VV	DESK, DOUBLE PEDESTAL, APPROX. 1800mm x 762mm x 749mm (72” x 30” x 29 1/2”)
	AR	VV	CHAIR, STRAIGHT, WITHOUT ARMS
	1	VV	RECEPTACLE, ELECTRICAL, QUADRAPLEX, FOR COMPUTER EQUIPMENT ITEMS (PG-18-1, MCS16140; H-18-3, CS 866-1)