



**New Britain
General**

An affiliate of Central Connecticut Health Alliance, Inc.

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Laurence A. Tanner
President

March 20, 2002

Ms. Michelle Beardsley
USNRC Region I
475 Allendale Road
King of Prussia, PA 19406

Dear Ms. Beardsley:

In response to your letter of March 6, 2002 (Mail Control No. 130960), we can provide additional information as follows:

1. Diagrams of areas of use are attached. We regret if these were inadvertently not included in our application.
2. Please allow us to possess up to 15 GBq of materials listed in Part 35.300.
3. Procedures for use of blood irradiator have been revised since September 30, 1993. A summary of the revisions is attached.
4. We will establish and implement the model procedure for keeping an inventory of implant sources that was published in Appendix M.4 to Regulatory Guide 10.8, Revision 2.
5. Regarding the use of xenon-133 gas for lung imaging, we will collect spent xenon-133 in a shielded container and will establish and implement the model procedure for checking trap effluent that was published in Appendix O.3 to Regulatory Guide 10.8, Revision 2. We will calculate spilled gas clearance times according to the procedure that was published in Appendix O.4 to Regulatory Guide 10.8, Revision 2.

Please contact us if you require additional information.

Sincerely,

Clarence Silva
Senior Vice President, Operations

/js

Attachments

NMSS/RGNI MATERIALS-002

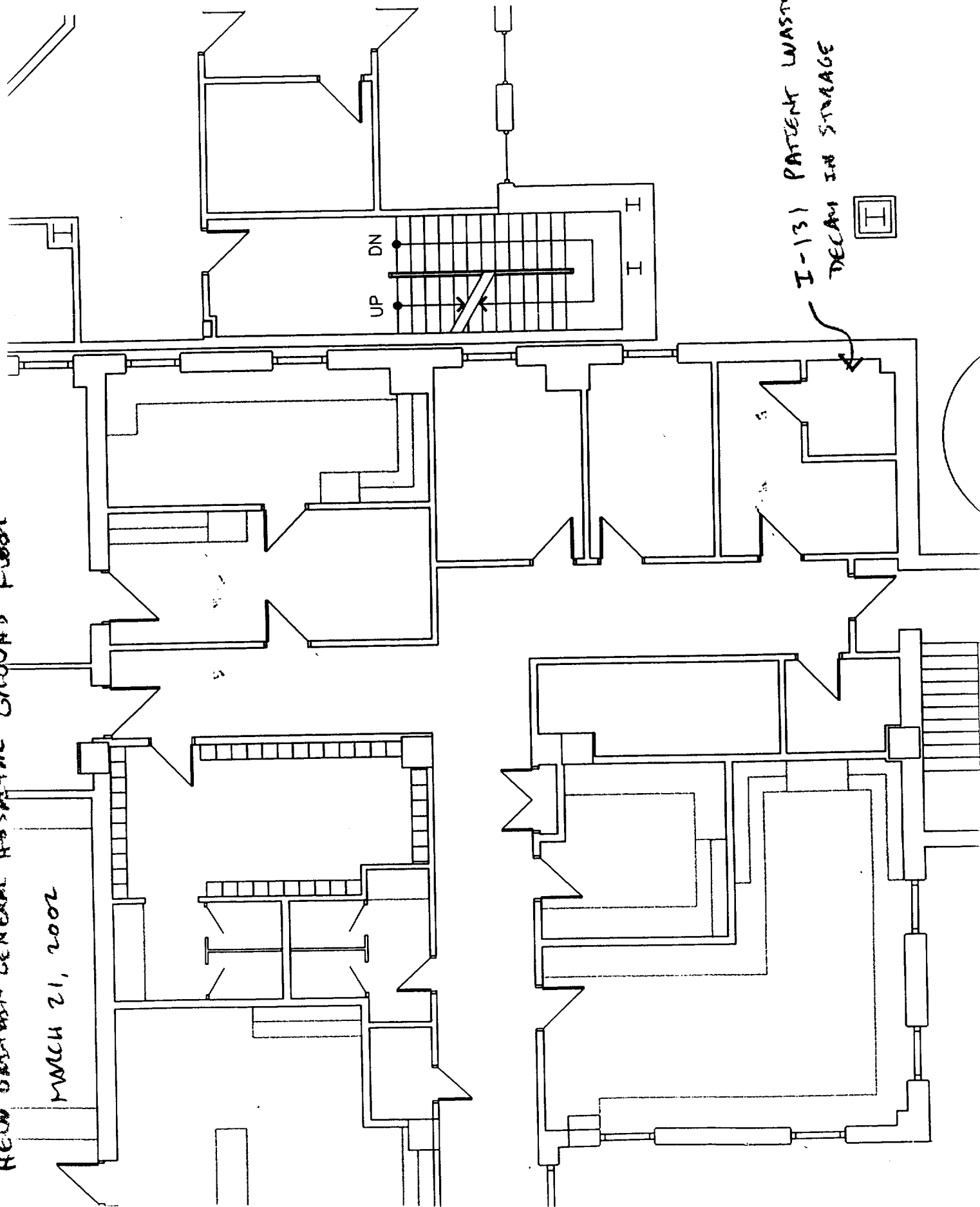
Committed to your health through our Centers of Excellence:
Center for Cardiovascular Medicine, Center for Fertility and Women's Health, Clinical Research Center,
Family BirthPlace, George Bray Cancer Center, Joslin Diabetes Center, Sleep Disorders Center



ICU

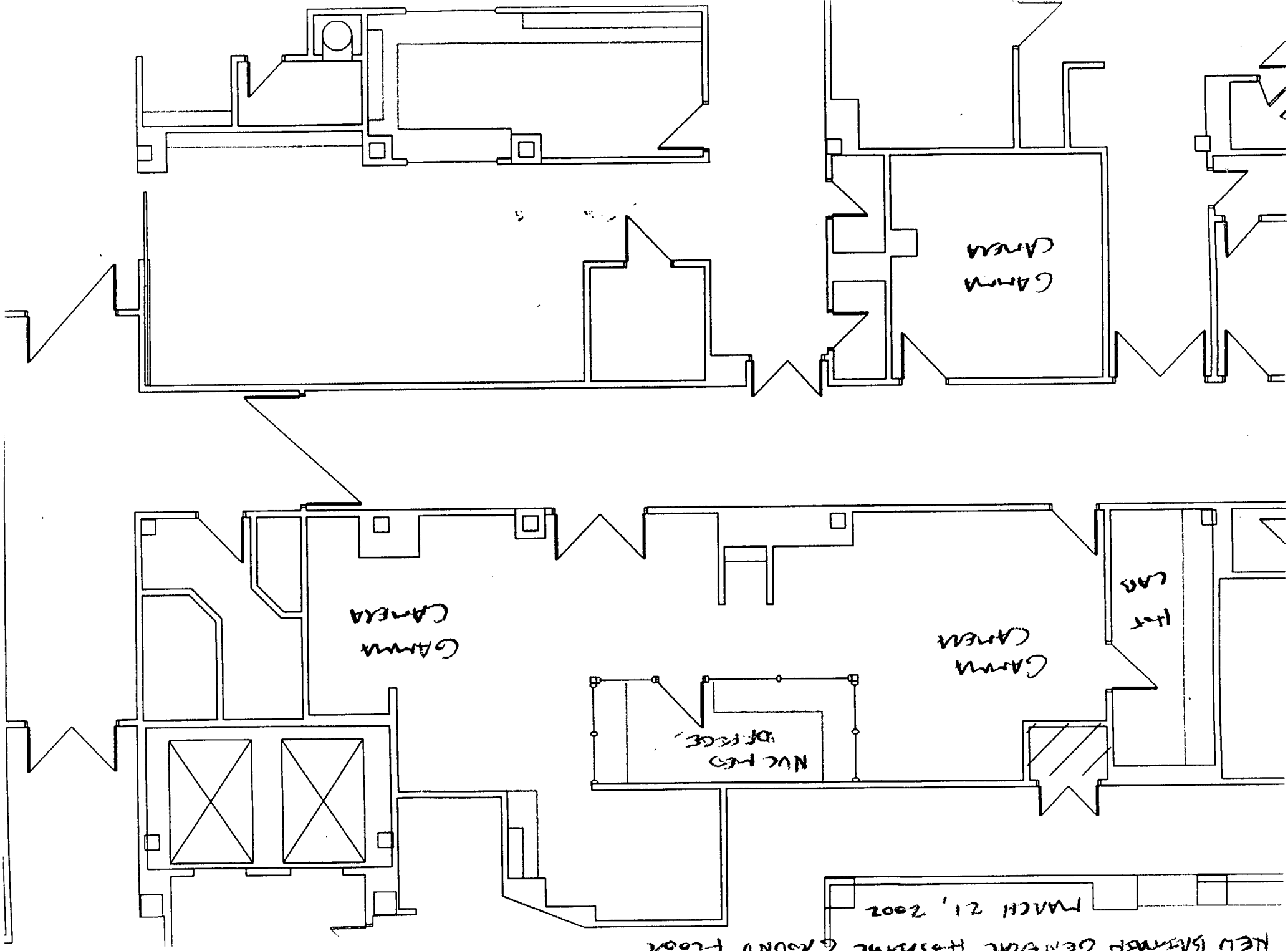
NEW BETHLEHEM GENERAL HOSPITAL GROUND FLOOR

MARCH 21, 2002



NEW BARNHART GENERAL HOSPITAL GROUND FLOOR

MARCH 21, 2002



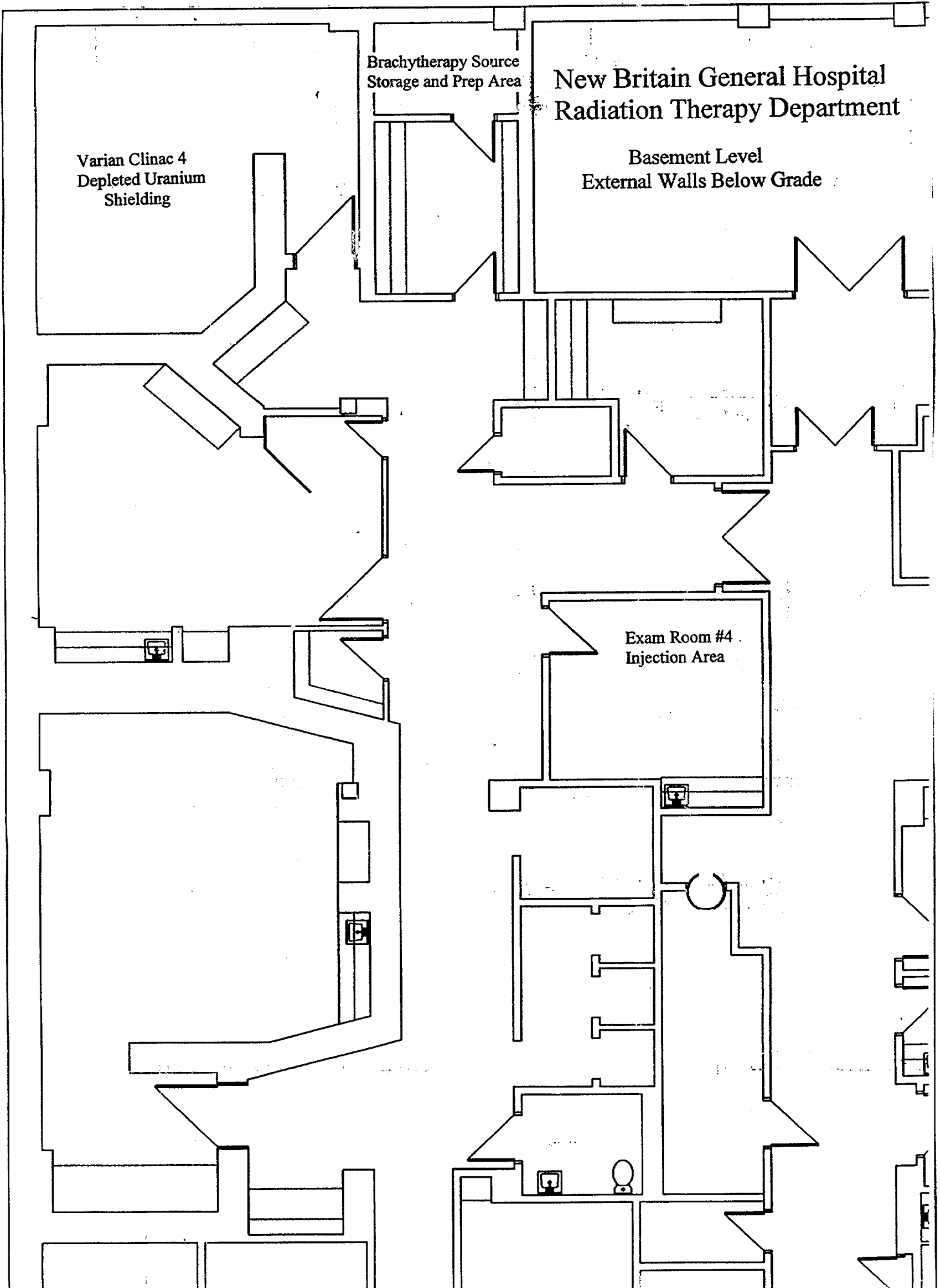
Brachytherapy Source
Storage and Prep Area

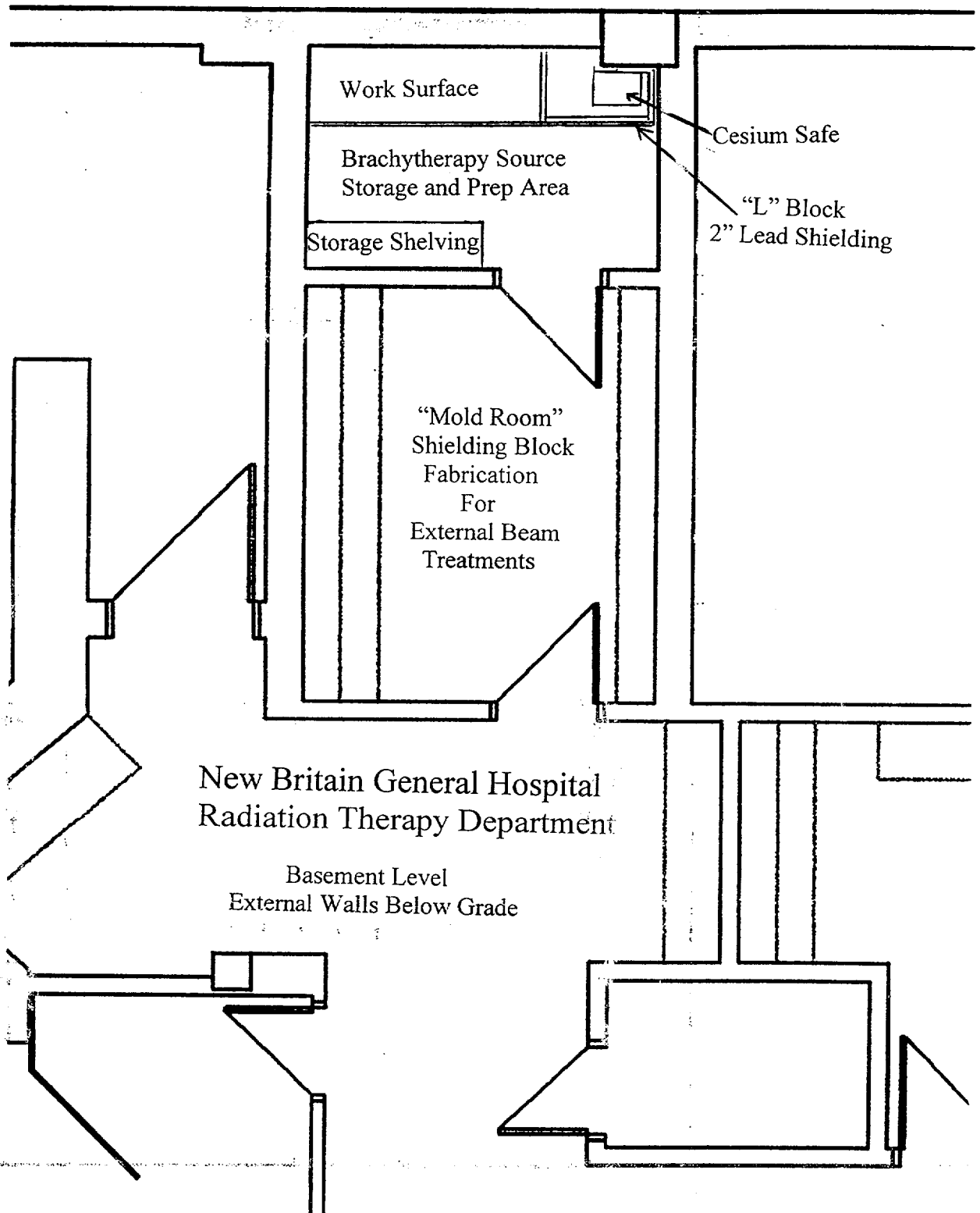
New Britain General Hospital Radiation Therapy Department

Basement Level
External Walls Below Grade

Varian Clinac 4
Depleted Uranium
Shielding

Exam Room #4
Injection Area





BLOOD IRRADIATOR (revised 3/02)

Nordion Gammacell 1000 Elite Model A

Source: Cs-137 initial activity 720 Ci, Model C-1001

Used for sterilization of blood and blood products.

Radiation Safety Officer:

Stuart R. Korchin, P.E., DABR

Annual training:

Users are trained before beginning duties, and receive annual training in radiation safety by video or lecture.

Security:

Per drawing submitted, in the basement of the hospital. Keys are held by blood bank supervisor and security. The irradiator room is equipped with fire detection and suppression (water sprinkler).

Safety:

The irradiator has a single stationary sealed source. The source is lead shielded at all times and human access to the source or the irradiation chamber is not physically possible in the design configuration. The area around the irradiator is an unrestricted area since radiation at 5 cm from the surface does not exceed 0.5 mR/hr, and is less than 0.1 mR/hr at 1 meter. Survey meters used are calibrated annually by an accredited calibration facility. Leak testing is done at six month intervals under the supervision of the radiation safety officer. Written procedures are provided for all users, including step-by-step operating procedures, blood product set-up, table of monthly calculated irradiation times, and emergency actions.

Decommissioning:

Should the Cs-137 source become unusable, the source will be transferred back to Nordion.