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DATE: 1/19/06

TO (Name/Title):

Randy Ragland, Jr., NRC Region

ORGANIZATION:

NRC Region I

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URGENT: ☐

FROM:

Brad Stevens, Bradley C. Stevens - Nuclear Medicine Supervisor

DEPARTMENT:

Nuclear Medicine

Our FAX number is: (717) 270-7639

If there are any problems with this transmittal, please call us at (717)

270-7627

MESSAGE:

Mail Control No. 137849

MESSAGE: Mail Control No. 151844
Barbara Smith - Administrative Director, Radiology - Sawana L. Luce

NUMBER OF PAGES (INCLUDING THIS COVER SHEET):

Nine

137849

KNOX, J. H. MATERIALS-002

9. FACILITIES AND EQUIPMENT

Facilities:

A diagram is enclosed that describes the facilities and identifies activities conducted in all contiguous areas surrounding the area(s) of use. The following information is included:

- Drawings should be to scale, and indicate the scale used
- Location, room numbers, and principal use of each room or area where by product material is prepared, used, or stored, as provided above under the heading "Discussion"
- Location, room numbers, and principal use of each adjacent room (e.g., office, file, toilet, closet, hallway), including areas above, beside, and below therapy treatment rooms; indicate whether the room is a restricted or unrestricted area as defined in 10 CFR 20.1003; and
- Provide shielding calculations and include information about the type, thickness, and density of any necessary shielding to enable independent verification of shielding calculations, including a description of any portable shields used (e.g., shielding of proposed patient rooms used for implant therapy including dimensions of any portable shield, if one is used; source storage safe, etc.).

Radiation Monitoring Equipment:

A person qualified to perform survey meter calibrations will calibrate radiation monitoring instruments.

Equipment is as follows:

- (2) Capintec Radioisotope Calibrator CRC-7
- (2) Ludlum 14C Survey Meters
- (1) Biodex 14C Survey Meter
- (1) Biodex Atomlab 950 Medical Spectrometer / Well Counter
- (1) Capintec CAPRAC wipe test counter

We reserve the right to update our survey instruments as necessary as long as they are adequate to measure the type and level of radiation for which they are used.

Equipment used to measure dosages will be calibrated in accordance with nationally recognized standards or the manufacturer's instructions.

10. RADIATION SAFETY PROGRAM

We have adopted and will implement the appropriate dosimetry program that meets the requirements listed under "Criteria" in NUREG-1556, Vol. 9, Rev.1.

We have developed and will implement and maintain written procedures for area surveys in accordance with 10 CFR 20.1101 that meet the requirements of 10 CFR 20.1501 and 10 CFR 35.70

We have developed and will implement and maintain procedures for safe use of unsealed byproduct material that meet the requirements of 10 CFR 20.1101 and 10 CFR 20.1301

We have developed and will implement and maintain written procedures for safe response to spills of licensed material in accordance with 10 CFR 20.1101

11. WASTE MANAGEMENT

We have developed and will implement and maintain written waste disposal procedures for licensed material in accordance with 10 CFR 20.1101, that also meet the requirements of the applicable section of Subpart K to 10 CFR part 20 and 10 CFR 35.92

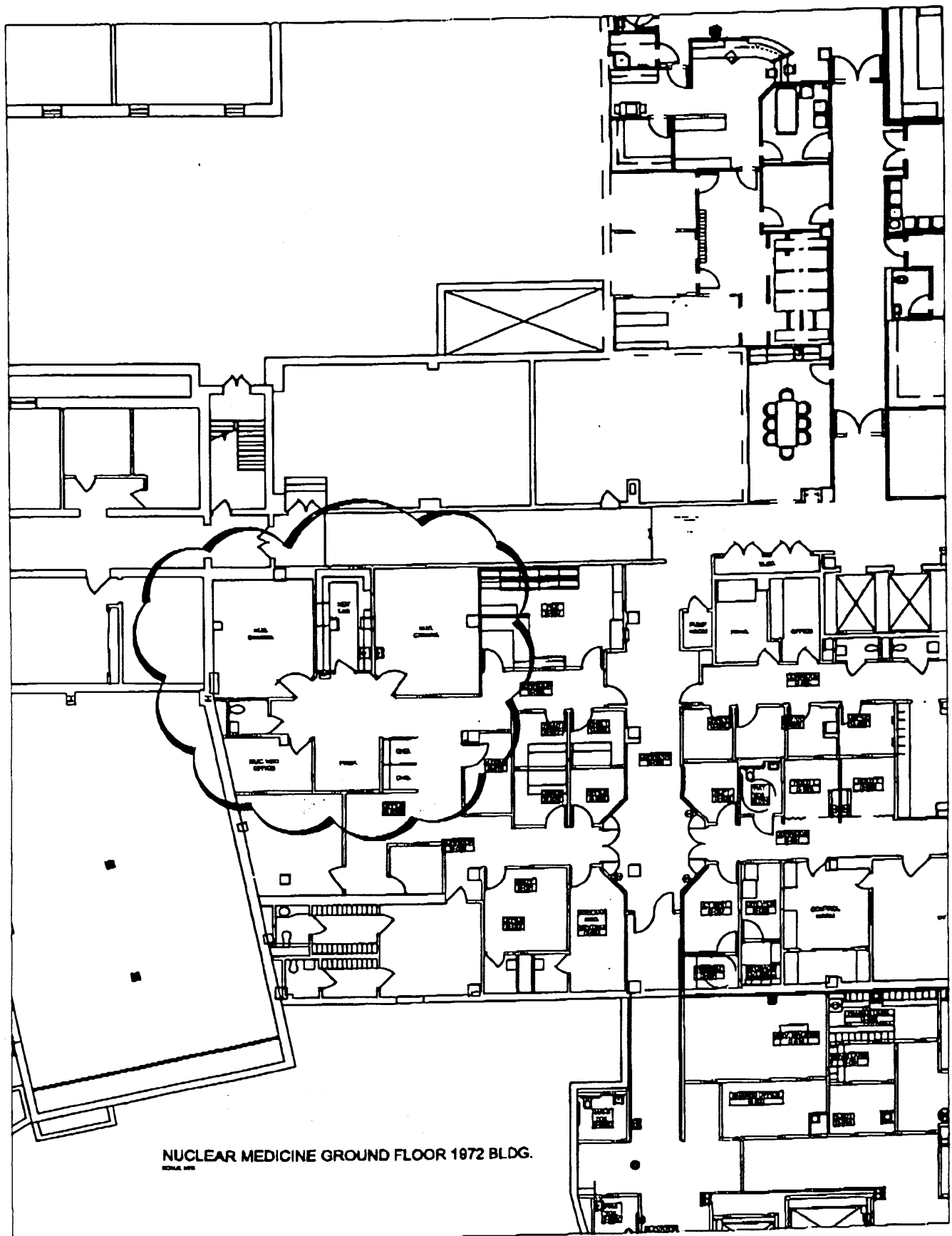
Nuclear Medicine Ground Floor:

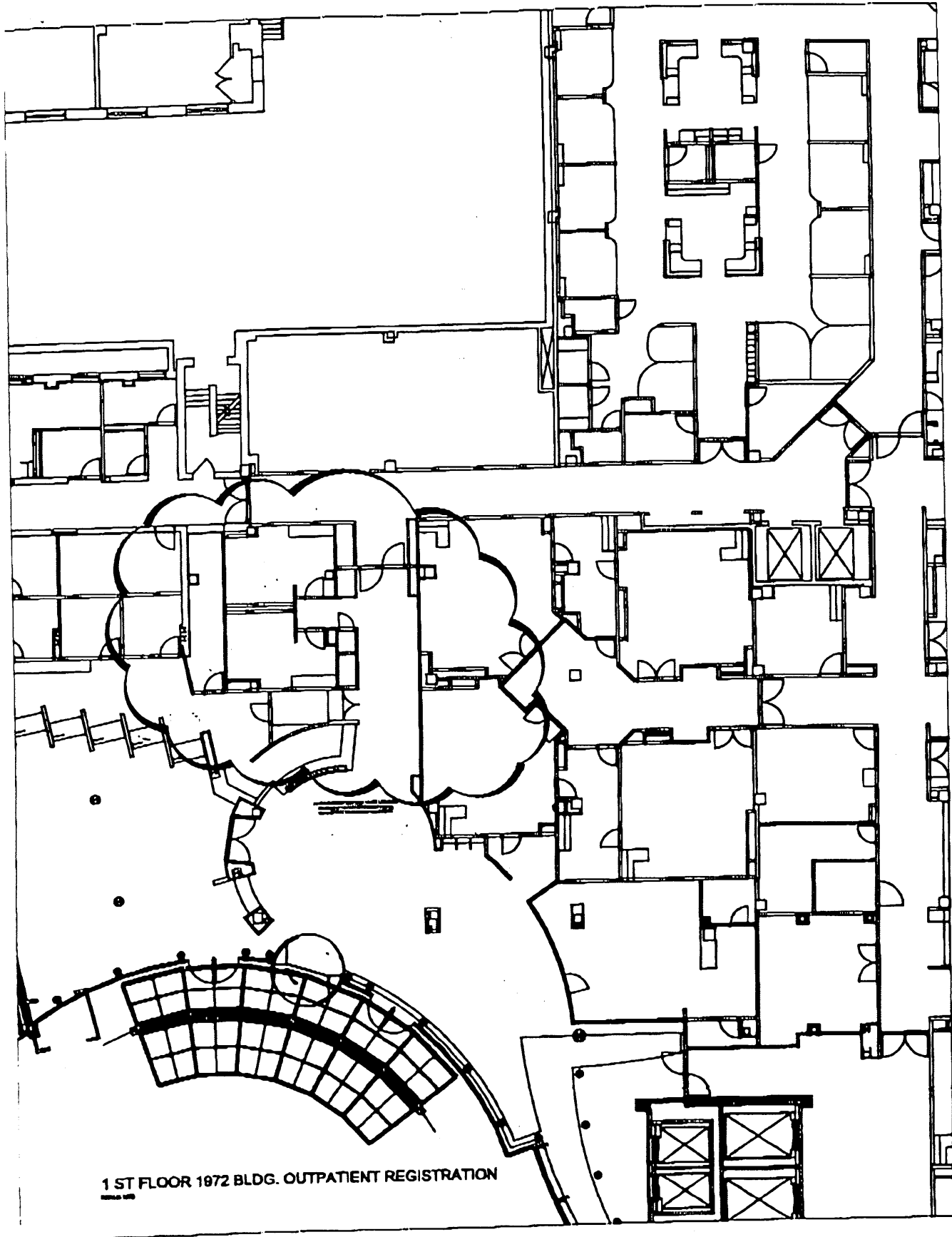
1. Radioactive material is delivered to the ground floor Nuclear medicine hot lab.
2. Doses and other radioactive materials are stored in one of three lead lined drawers inside the hot lab until use.
3. Hot lab counter surfaces are laminate and the floor is linoleum. Surface of both allows for easy cleanup and minimizes permanent contamination.
4. Nothing is located below the department
5. Outpatient registration, restrooms, two hallways, and two OR rooms are located above the Nuclear Medicine department.

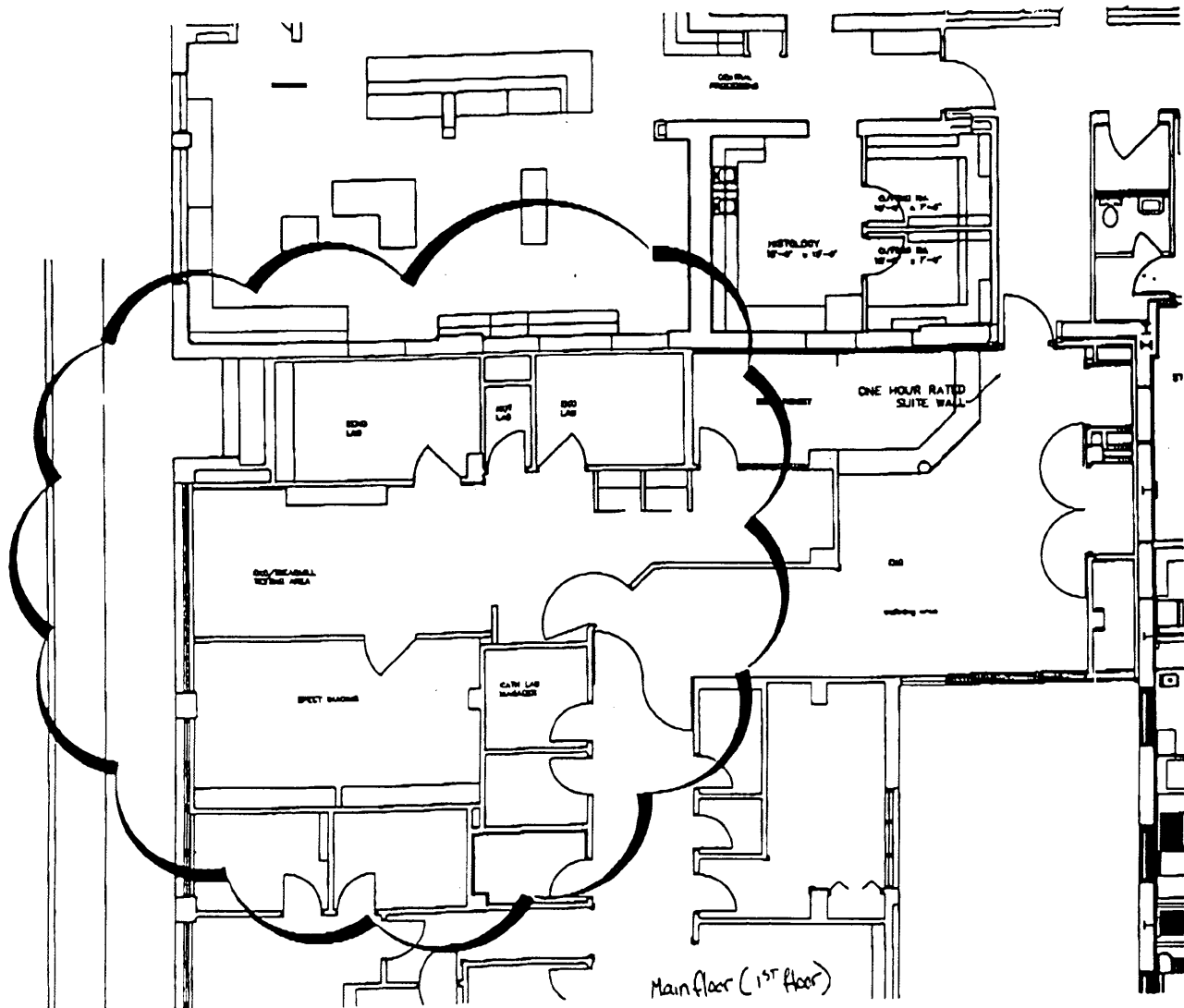
Nuclear Cardiology (Main floor):

1. Doses are delivered from the ground floor Nuclear Medicine hot lab to the Cardiology hot lab after wipes and surveys are conducted.
2. Individual doses are stored in a lead lined drawer until use.
3. Hot lab counter surfaces are laminate and the floor is linoleum. Surface of both allows for easy cleanup and minimizes permanent contamination.
4. Cardiac rehab is located underneath our Nuclear Cardiology department.
5. Nothing is located above the department.

Also included is a diagram of our new Cardiology wing set to open sometime in the next year. There will be lead (1/8 of an inch, 7 feet high) implanted within the wall separating the hot lab and Nuclear Medicine imaging room from the waiting room and stress room. Lead will not be placed in the door entering the imaging room, or in the door leading into the hot lab. Lead-lined drawers within the hotlab will hold individual radioactive doses. The imaging room and hotlab in this new wing will be on the exterior of the building with nothing above or below it. A stress room will be located on one side of the hotlab (Please refer to diagram).

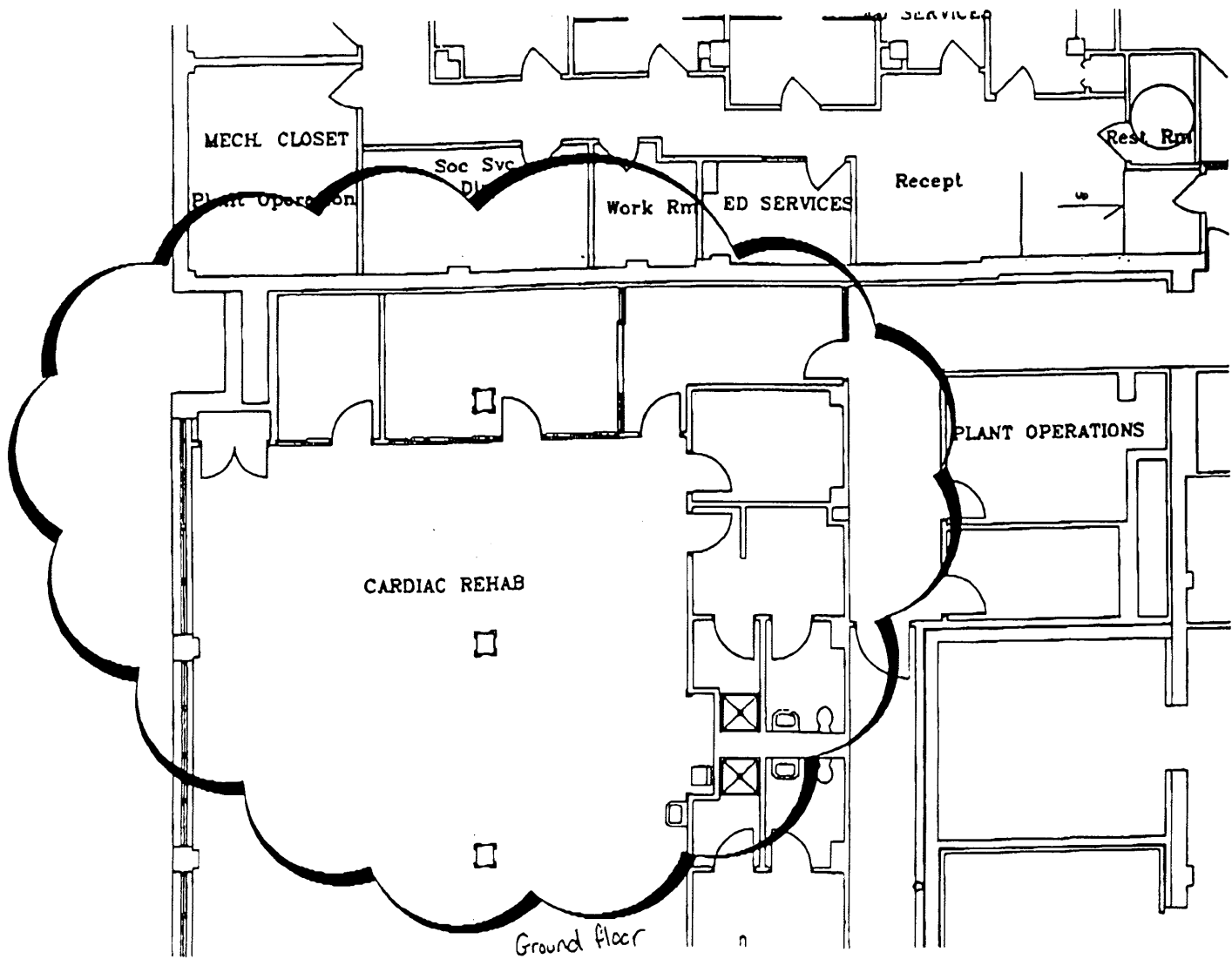






Main floor (1st floor)

Nuclear Cardiology



- * Future addition

