



Georgia Institute of Technology
SCHOOL OF NUCLEAR ENGINEERING AND HEALTH PHYSICS
ATLANTA, GEORGIA 30332

NEELY NUCLEAR RESEARCH
CENTER

(404) 894-3800

December 1, 1982

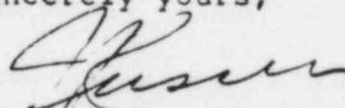
U. S. Nuclear Regulatory Commission
Region IV
611 Region Plaza Drive
Suite 1000
Arlington, Texas 76011

Attention: George Hubbard

Dear Mr. Hubbard:

Enclosed is a draft of the quality assurance manual we discussed. I am looking forward to seeing you on December 13.

Sincerely yours,


John L. Russell, Jr.
Director

JLR/jwh

Enclosures

8506190133 850327
PDR FOIA
CURRAN84-863 PDR

C11

March 1, 1983

The Quality Assurance Manual for Hot Cell Operations dated March 1, 1983, is approved for use by signatures below of Manager of Quality Assurance and Director of the Nuclear Research Center. Changes or additions will be approved similarly by signatures below.

Manager, QA

Date

Director

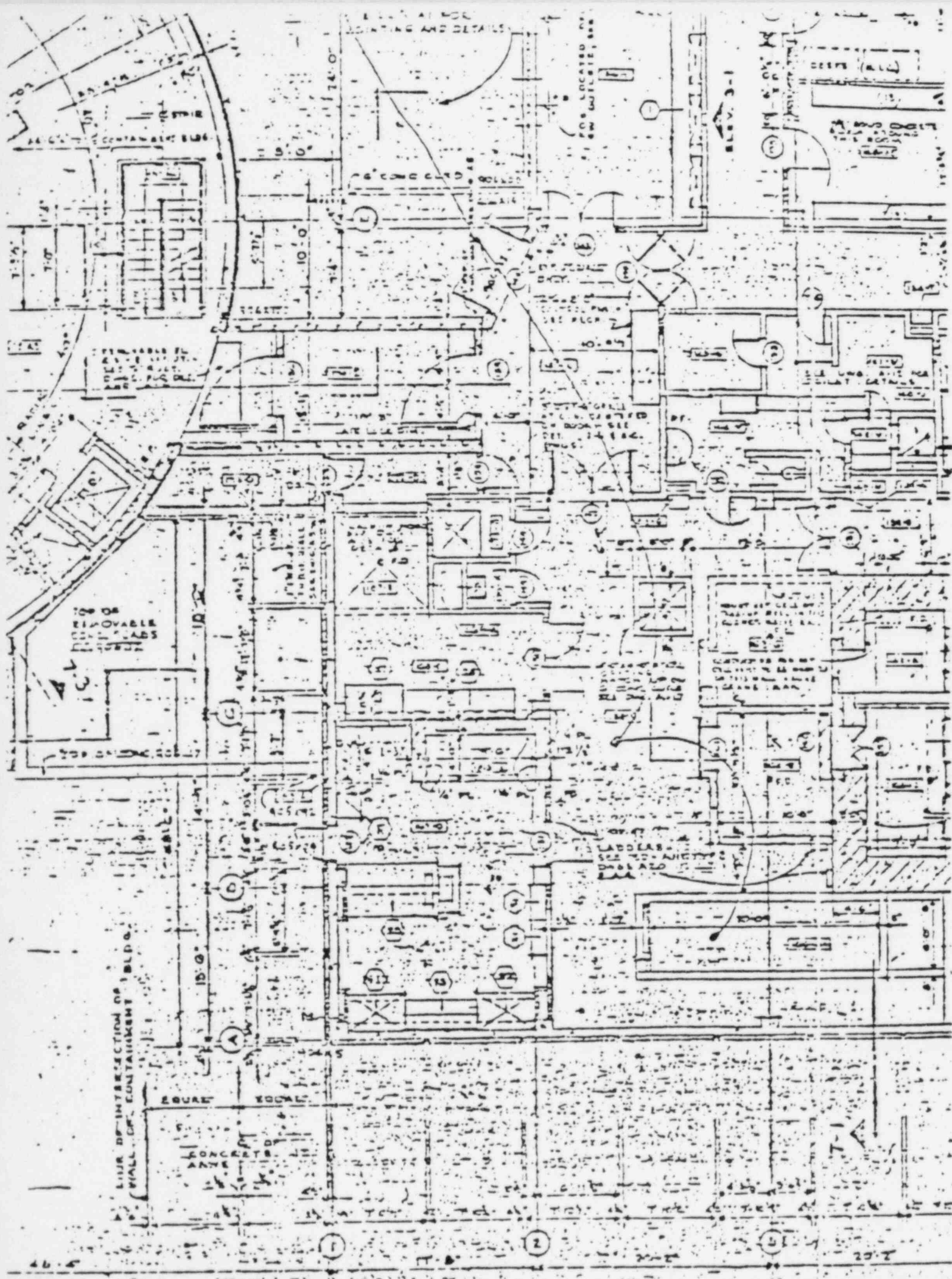
Date

Stenchly 2-28-83

Russell 3-1-83

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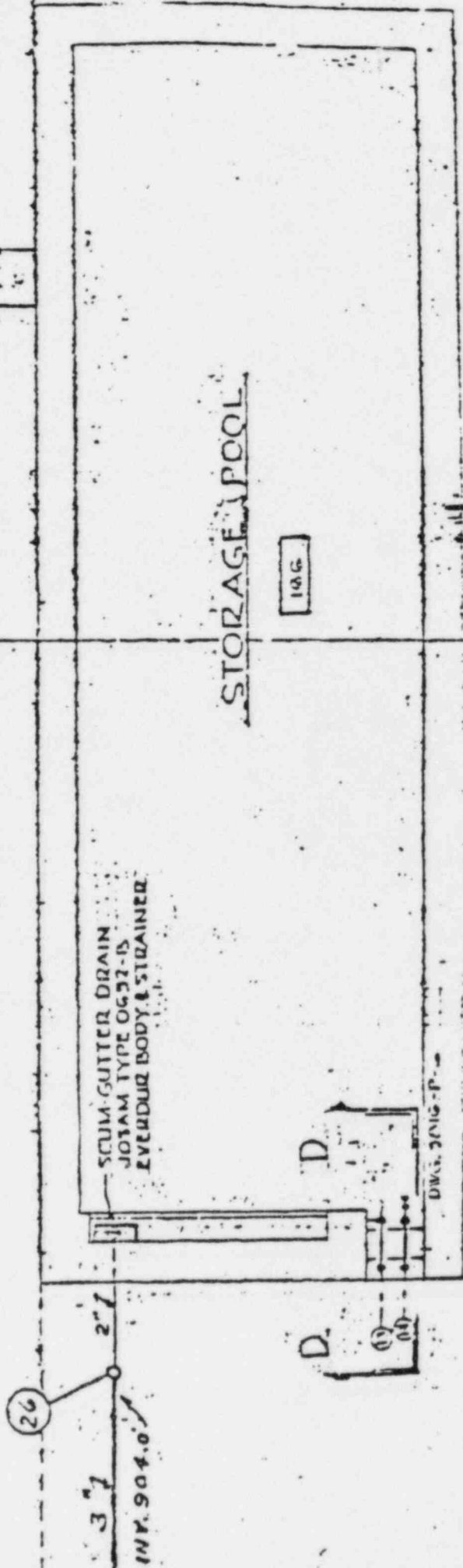
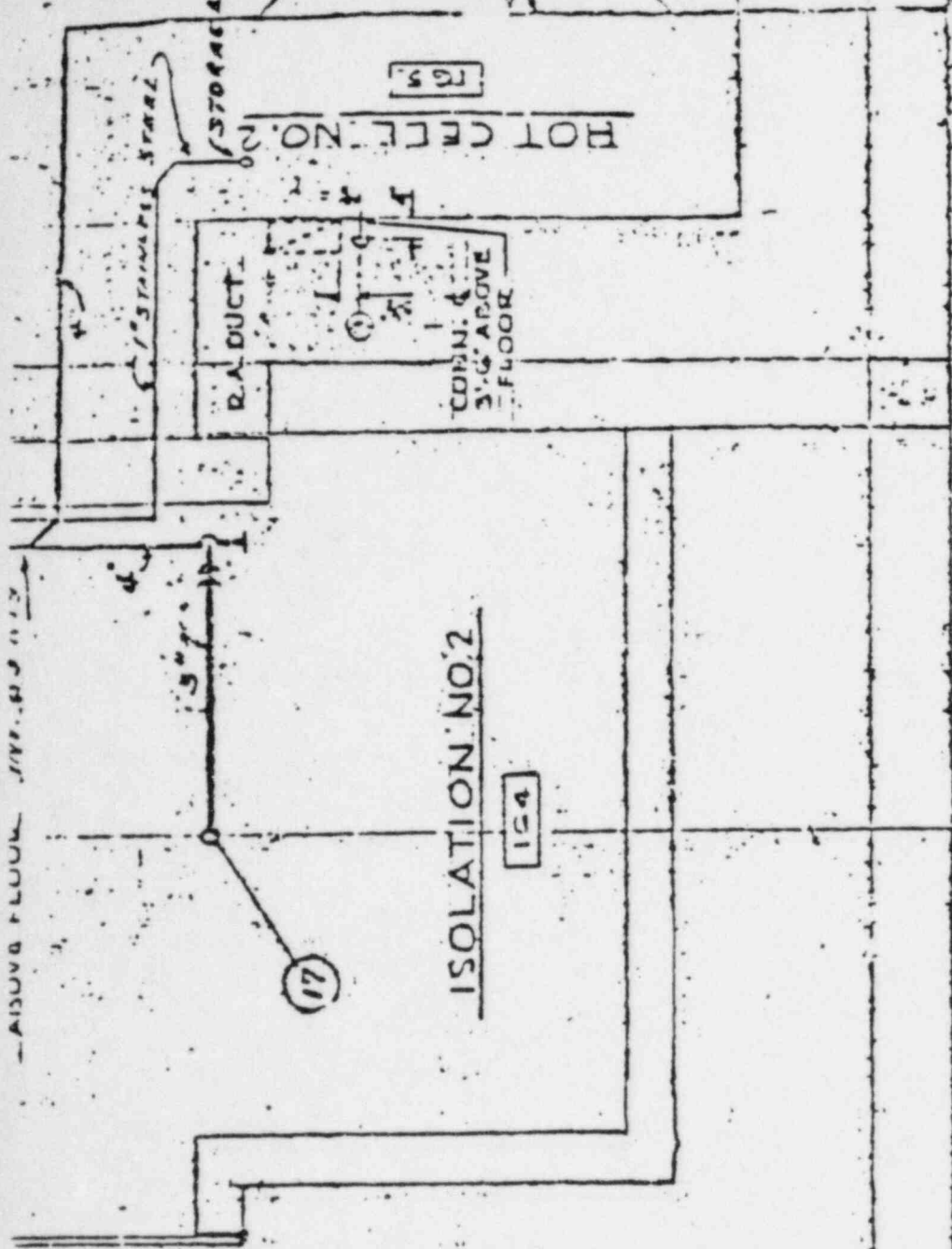




HOT LABORATORY SERVICE AREA

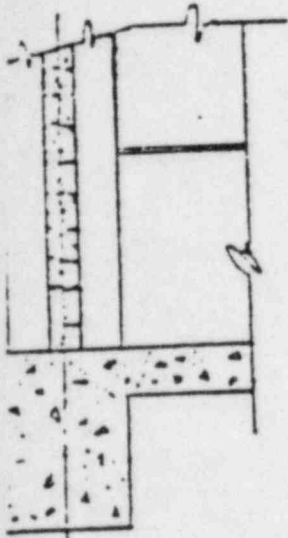
PROJECT NO. 130
SECTION 5
XOVE FLOOR

FIN. FLR: EL. 906.17





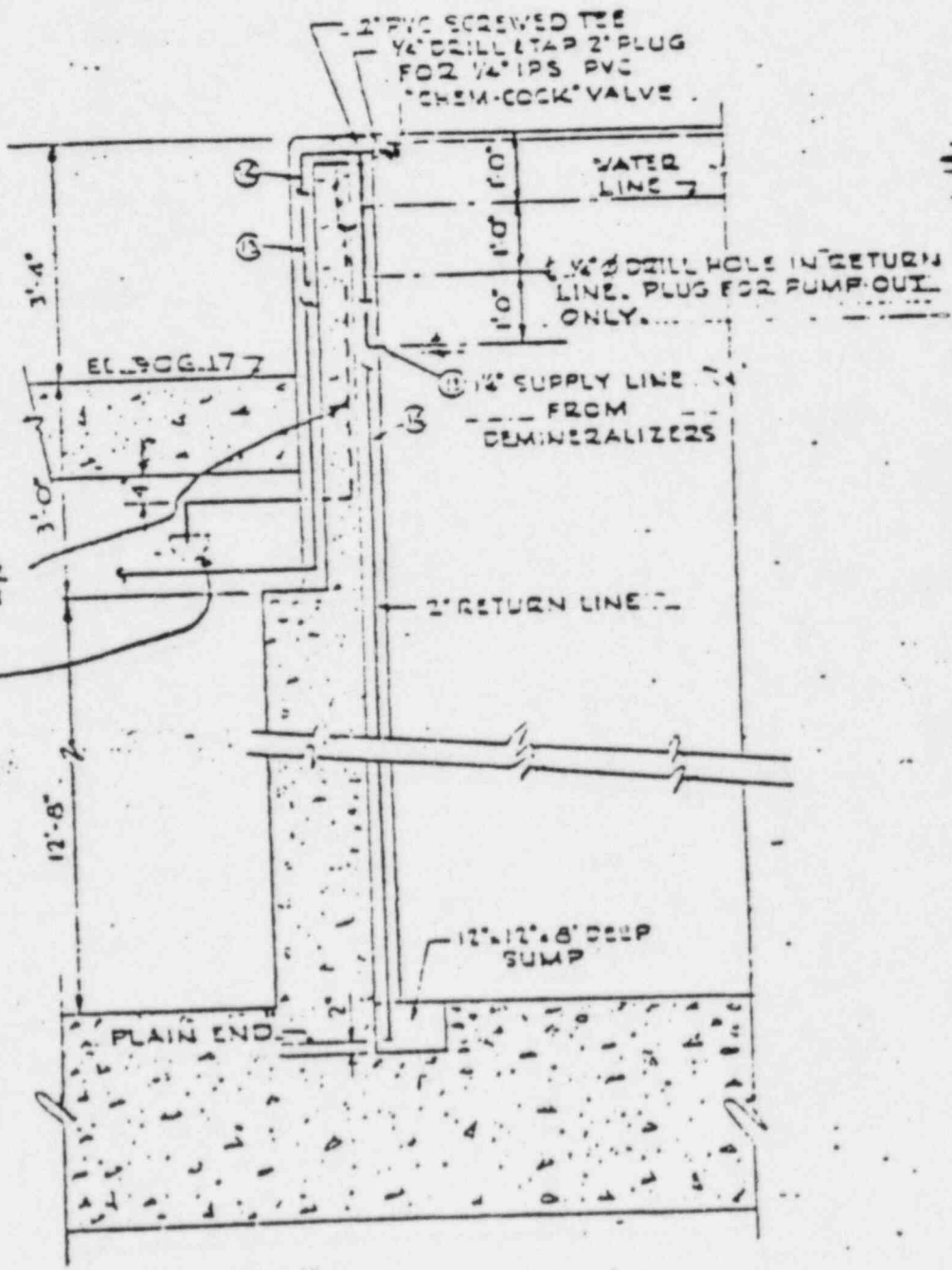
FOR CONT. SEE
DWG. SBIG-P-2



F

2" SCOUR GUTTER
DRAIN CAST IN
CONC. WALL

CAULK INTO
HUB DRAIN
(FAR SIDE)



SECTION D-D

SCALE: 1/4\"/>

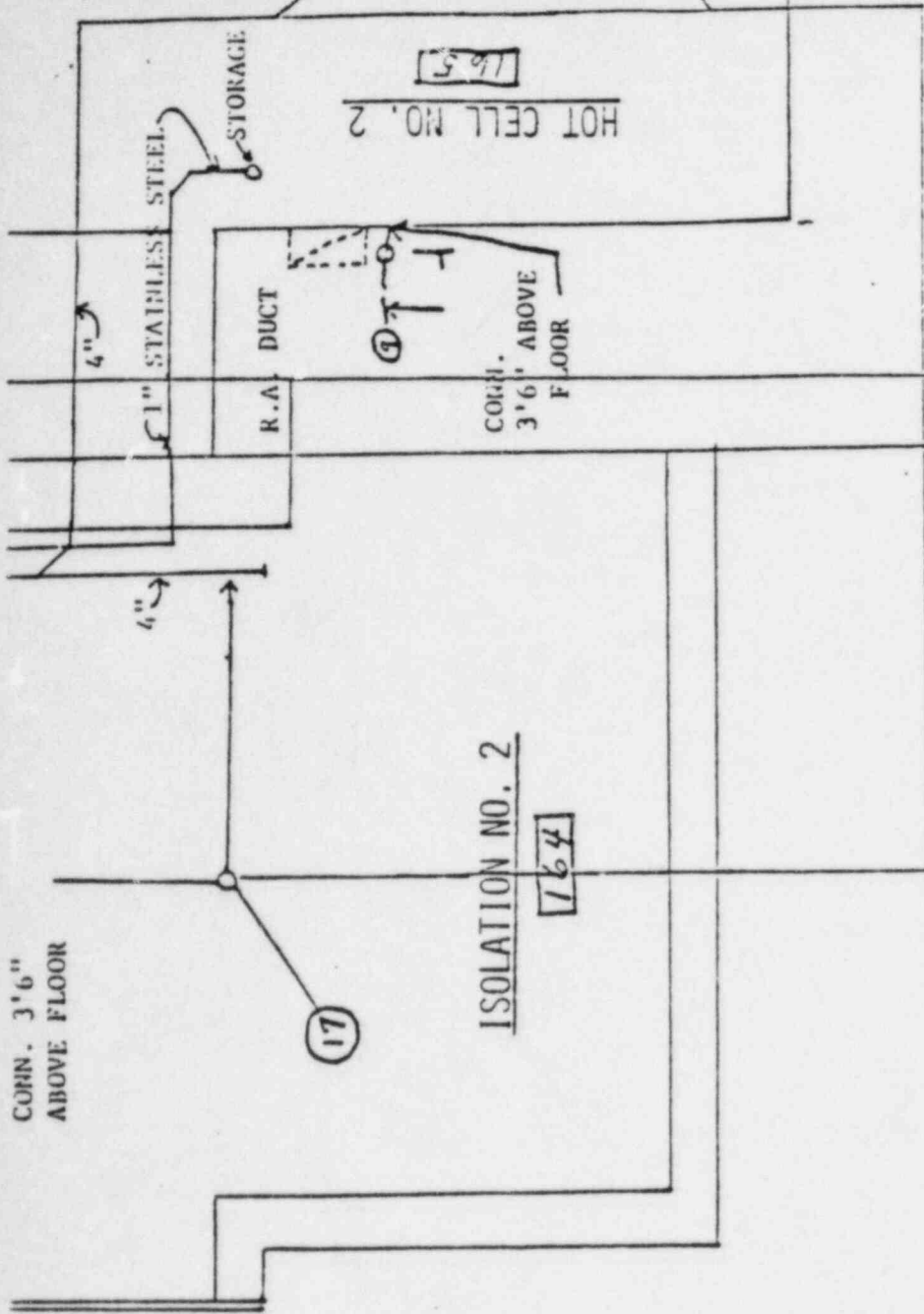
HOT LABORATORY SERVICE AREA

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HOT
PLY TO
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JE FLOOR

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FIN. FLR. EL. 906.17



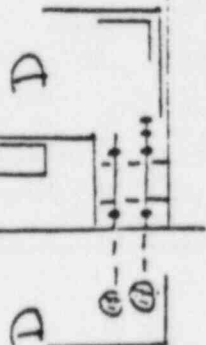
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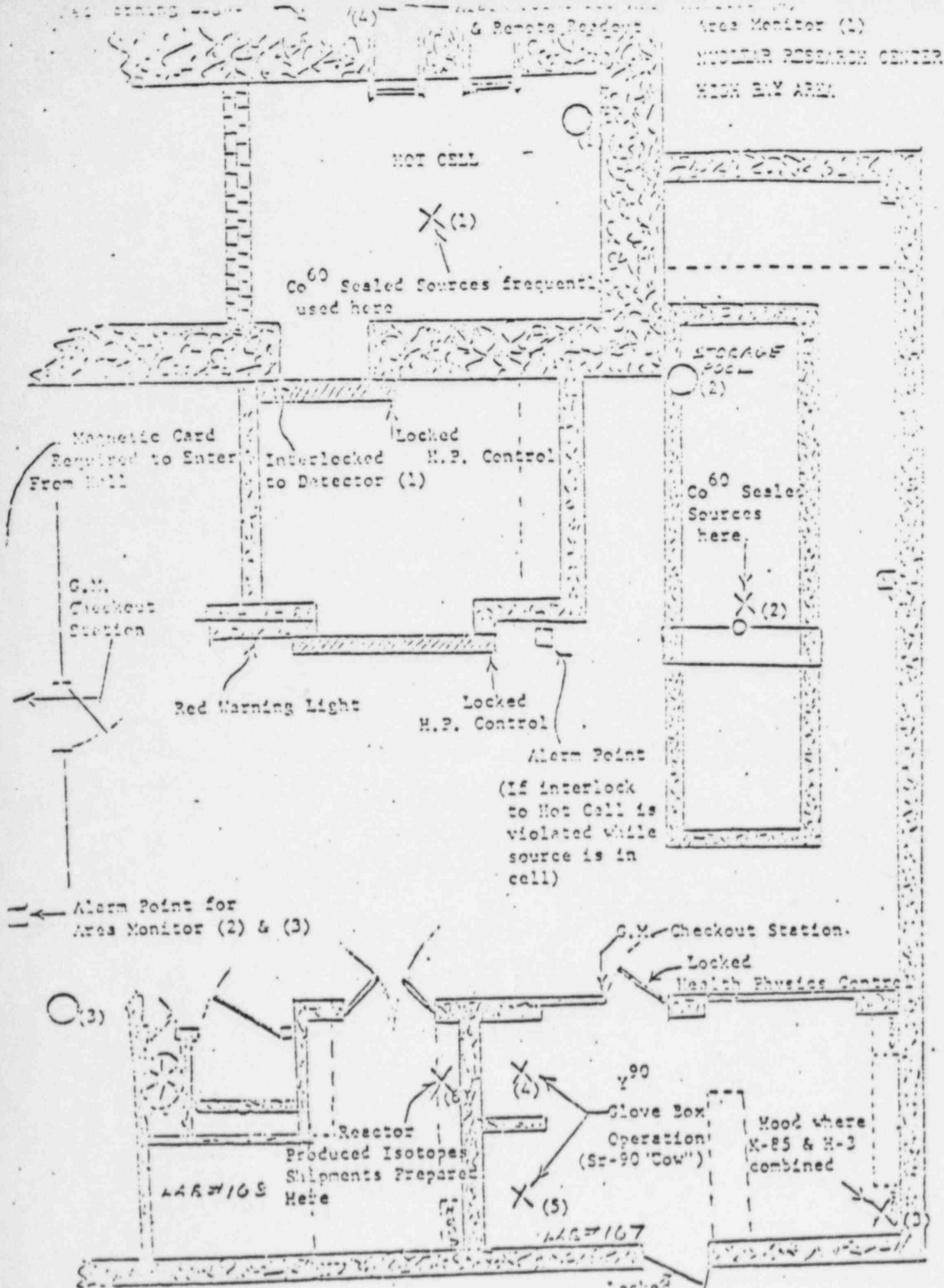
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SCUM GUTTER DRAIN
JO AM TYPE 0652-B
EVERDUR BODY STRAINER

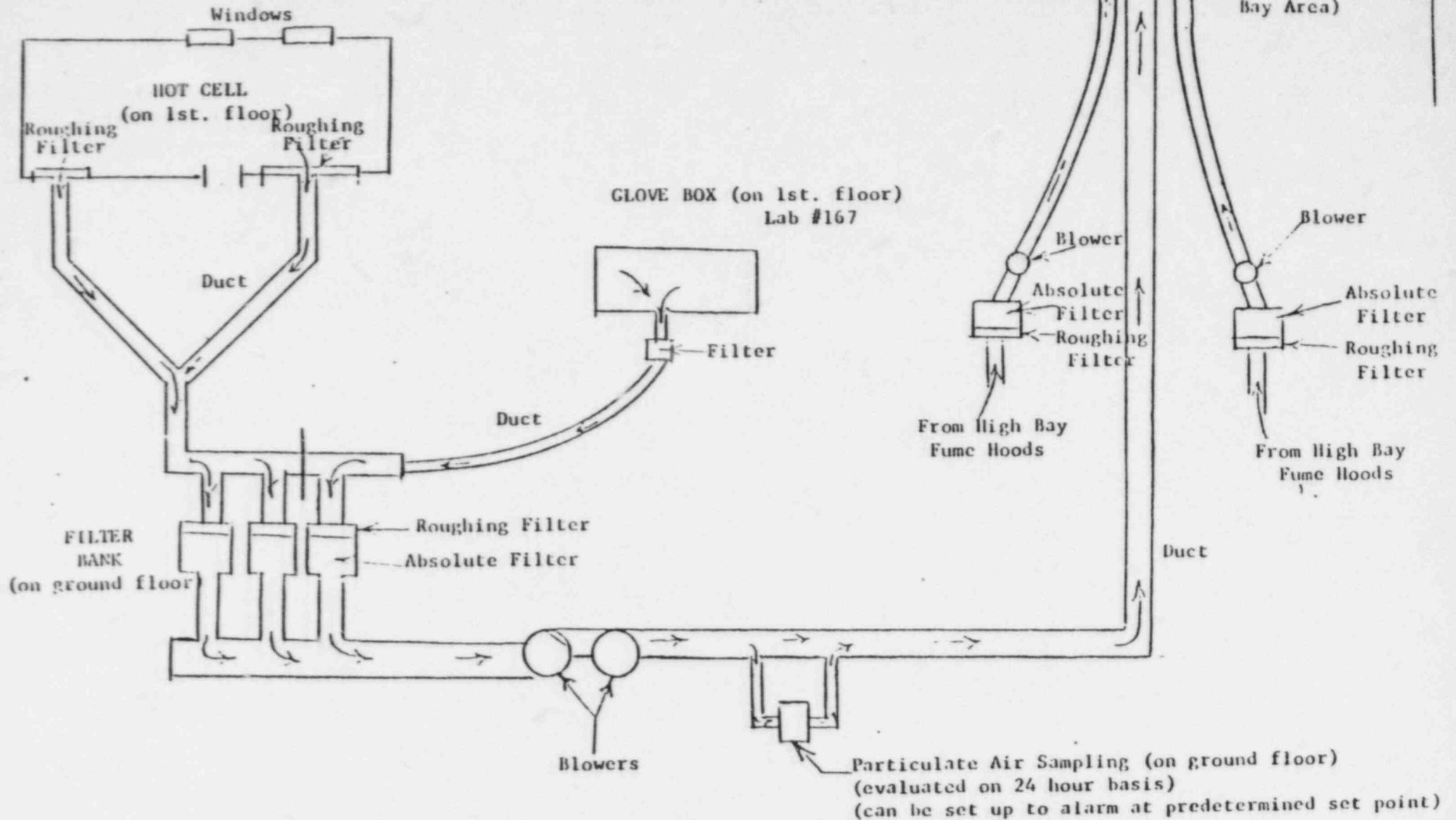
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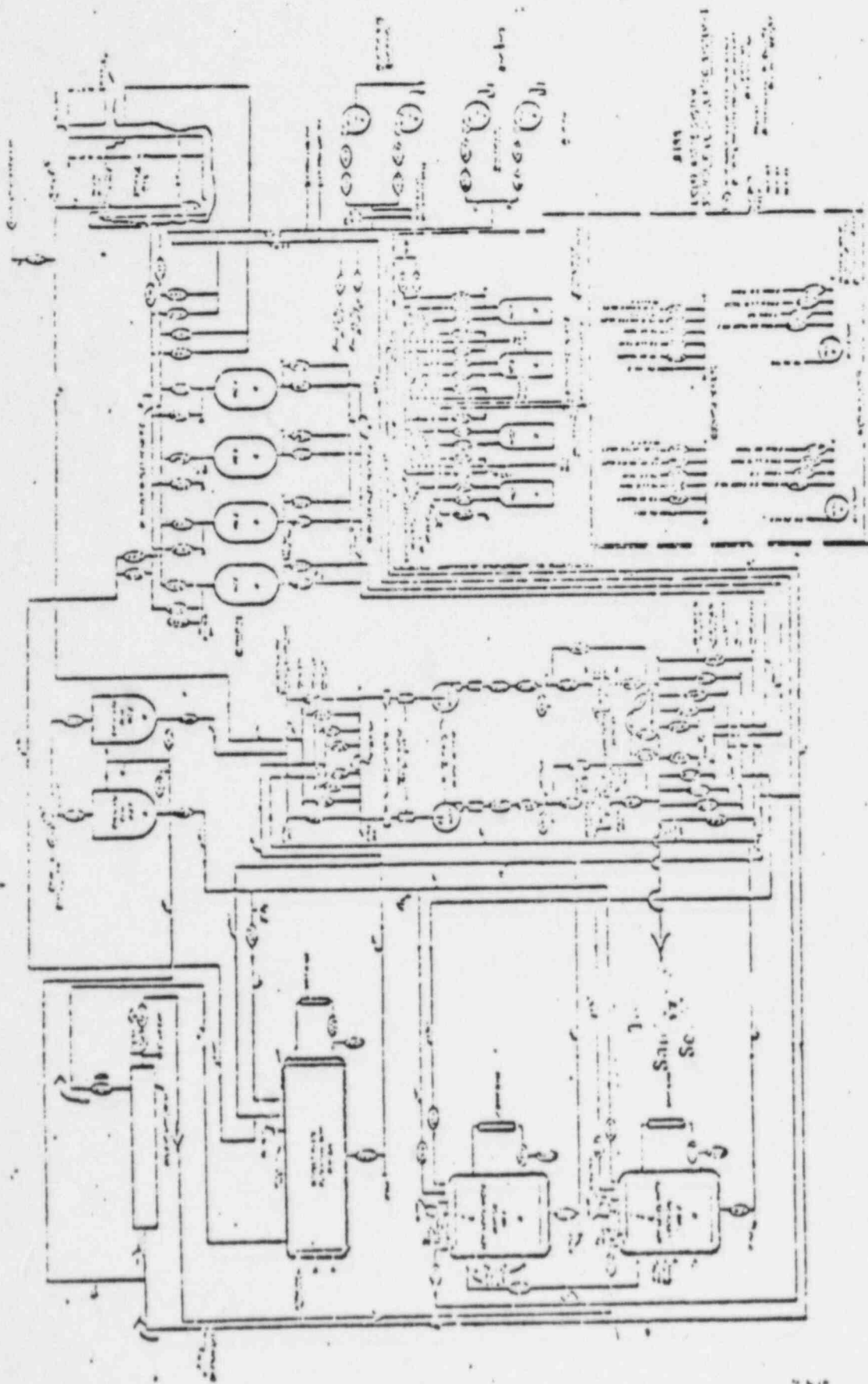
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GA. TECH NUCLEAR RESEARCH CENTER HIGH BAY AREA





GEORGIA TECH NUCLEAR RESEARCH CENTER

Liquid Waste Handling System

*Before any release to the sanitary sewer is made:
 Isotopic Analysis is made for tritium and carbon-14.
 (500 cc boiled to dryness & residue counted for Gross Beta & Gamma) if...

HOT CELL CHECK LIST

BEFORE HOT CELL IS USED FOR ANY LARGE SOURCES

OPENING CELL:

1. Fill out RWP and get Health Physics Approval
2. Obtain keys plus monitoring from Health Physics (winch + doors).
3. Visually check that Co-60 source is in pool and that winch is down (2 witnesses, 1 health physicist & 1 cell operator)
4. Check that source is not in cell and area monitor light is off.
5. Visually check that winch is locked and that H. P. Monitor has key. (2 witnesses, 1 health physicist & 1 cell operator)
6. Monitor must have Cutie Pie or radiation instrument "Turn On". (Check response to radiation before opening doors)
7. Outer door is unlocked and opened while H. P. Monitor checks outer room with instrument. If radiation level is high the door is to be closed immediately.
8. Enter outer room (wearing shoe covers and gloves) - unlock inner door.
9. Inner door is opened while H. P. Monitor checks with instruments. If radiation level is high or if interlock alarm enunciates the door must be closed immediately.
10. Steel doors are opened and H. P. Monitor checks inside of hot cell, noting areas of higher radiation.

CLOSING CELL:

1. VISUALLY CHECK TO SEE THAT NO ONE IS INSIDE THE HOT CELL, BY PHYSICALLY ENTERING THE CELL. (2 witnesses, 1 health physicist & 1 cell operator)
2. Steel doors, inner and outer sliding doors are closed and locked. (2 witnesses, 1 health physicist & 1 cell operator)

NOTE: BE SURE THE TOP IS ON THE HOT CELL
BE SURE THAT AIR FLOW IS MOVING INTO CELL

3. Co-60 is loaded into chute while health physics monitors.
4. Winch is unlocked.
5. Make sure health physics monitor has been returned all keys.
6. Co-60 is brought up into hot cell, winch is left unlocked during time Co-60 is in cell. Health Physics monitors until sources are in their final resting place.
7. Check to make sure area monitor in hot cell has tripped (red light next to outer door).

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