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EMERGENCY PLAN

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BUILDING 51 COMPLEX

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UNIVERSITY OF CALIFORNIA

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BUILDING 51 COMPLEX
INCLUDES BLDGS. 51, 60, 63, AND 64

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I. GENERAL INFORMATION

A. Objectives

1. To prepare building personnel for proper and immediate response to emergency situations.
2. To designate and train a building emergency organization to act during emergencies.
3. To define the responsibilities of the Building Emergency Staff.

B. Emergency Organization

1. The Building Emergency Staff consists of the Building Manager, the Deputy Building Manager, and the Assistant Building Managers. Names of individuals currently assigned these duties are listed on the organizational chart on page
2. The Building Manager is in charge during any emergency. In his or her absence, the Deputy Building Manager or other designated Emergency Staff member assumes the manager's duties.
3. Each Assistant Building Manager acts as liaison between the Building Manager and personnel on his or her floor or area. Assistant Building Managers are responsible for the following actions during an emergency:
   a. Supervise evacuation of all personnel from their respective floors or areas during actual or simulated evacuations of the building.
   b. If feasible, check each room to make certain that the floor or area has been completely evacuated.
   c. Respond to instructions from the Building Manager or his or her representatives.
4. Each Department Head is responsible for:
   a. Emergency planning within the department.
   b. Informing department personnel of details of the Building Emergency Plan.
   c. Training department personnel to respond properly to emergencies.
5. Off-Hour Work
   a. Members of the Building Emergency Staff are available in the building only during normal working hours (8:00 a.m. to 5:00 p.m.). Therefore, it is imperative that all individuals in the building after normal working hours be familiar with emergency procedures.

C. Assembly Areas for Buildings 51, 60, 63, and 64

1. Assembly areas for BUILDING 51 are located in the Mezzanine parking lot and north of "H" door near the rigger's trailer. The assembly area for BUILDINGS 60, 63, and 64 are south of the Building 63 parking lot.
2. In case of an emergency requiring evacuation of the building, all personnel will proceed to these assembly areas using the evacuation routes shown on pages 21 to 31.
3. If the designated evacuation routes are inaccessible, an Assistant Building Manager will direct personnel to use alternate routes.
4. If these assembly areas cannot be used, an Assistant Building Manager will direct personnel to an alternate area.
5. Do not block access routes for emergency vehicles.

D. Types of Alarms

1. Emergency Announcement Signal (LBL PA System)
   a. Alternating high and low tones (warble), similar to the European emergency vehicle sound. It is repeated once.
   b. The area to be evacuated will be announced following the signal. In some cases, the type of emergency will also be announced.
   c. This alarm signals the urgent need for IMMEDIATE EVACUATION of the designated area by all personnel.
   d. Upon hearing the emergency announcement signal, everyone must leave the area immediately by the fastest (safe) route available, as previously planned or rehearsed. See illustrated evacuation routes on pages 21 to 31.
   e. Remain out of the evacuated area until the Building Manager or other Emergency Organization Staff personnel authorize re-entry.
2. Building Fire Alarm (Loud Bells)
   a. Fire alarm bells are located in each building, and the sound is easily heard.
   b. Fire alarms are used to warn the occupants of the building of fire or smoke danager which requires that all personnel leave the building IMMEDIATELY.
   c. When the fire alarm is sounded, leave the building by the designated routes shown on pages 21 to 31.
   d. Remain outside the building until re-entry is authorized
3. LBL PA System
   a. Announcements are made over the LBL PA system of emergency situations occuring somewhere at the Laboratory. These may or may not be of concern to the Building 51 complex.
   b. The PA system is used to notify all employees of any type of emergency. Normally, specific instructions will be given, defining the action to be taken.
   c. Carry out these instructions under the direction of the Assistant Building Manager in charge of the area.

4. Other Alarms
   a. Most buildings or areas have one or more local PA systems. Any of these may be used to alert local occupants to an emergency.
   b. In response to an announcement, follow the directions of the Assistant Building Manager in charge of the area.

E. Types of Emergencies

A variety of emergency conditions may interrupt the normal functions of the Laboratory. Some may be localized, others may affect the entire site. The list below indicates which alarm will normally be used to signal each emergency.

	Emergency Announcement Signal*	Fire Alarm	LBL PA	Local PA
Personal Injury			X	X
Fire, Explosion		X	X	
Release of Toxic or Flammable Material			X	X
Radioactive Spills			X	X
Threats to the Laboratory (e.g., Bomb Threat)	X		X	X
Earthquake	X		X	X
Landslide, Flood, or Water Damage			X	X
Impaired Access or Egress			X	X
Failure of Electric Power, Gas, or Water Supply			X	
Civil Disturbance			X	
Civil Alert			X	

*The Emergency Control Coordinator indicated in the Master Emergency Plan has the authority to activate the Emergency Announcement Signal when there is an imminent danger to human life.

F. Employee Responsibilities

1. The main purpose of this emergency plan is to decrease the possibility of personal injury to employees of the Laboratory. This cannot be accomplished without the active participation and cooperation of every individual.
2. Each employee will be responsible for:
   a. Knowing the identify of the person in charge of the floor where he or she works.
   b. Having a working familiarity with the emergency plan for that area.
   c. Cooperating fully with those in charge.

3. Each Supervisor will be responsible for:
   a. Seeing that those under his or her supervision are familiar with the plan for the building, particularly the recommended exit routes.
   b. Rendering whatever assistance the person in charge during an emergency may require.
   c. Maintaining familiarity with the shutdown procedures for all equipment used by those under his or her supervision.
   d. Knowing the location and use of all safety equipment on his or her area.
   e. Keeping his or her employees from re-entering an evacuated area until notified that the area is safe for normal operations to resume.

II. REPORTING AN EMERGENCY

A. To report an emergency: Telephone 5333, then notify your Building Manager. See Paragraphs F,B, and H below for quicker response in reporting Plant Maintenance problems.

B. When reporting an emergency by telephone:

1. Stay calm, speak clearly.
2. Identify yourself.
3. State location of the emergency.
4. State nature of the emergency.
5. State severity of the emergency.
6. Report any potential danger.

C. Personal Illness or Injury

1. Take first aid measures immediately. If heavy bleeding is involved or if the victim's breathing or circulation has stopped, apply first aid at once. Do not delay by leaving the scene to report the injury--CALL FOR HELP. Bleeding must be stopped and breathing and circulation restored.
2. Instruct a bystander to CALL EXTENSION 5333 to report the injury and to summon medical aid.
3. Notify the Building Manager.
4. Keep crowd away.
5. On arrival of trained personnel, follow their instructions.
6. First Aid Supplies
   a. There are 6 emergency lockers throughout Building 51 S.C.B.A.; minor first aid supplies are located in each locker, shown on pages 23, 25, and 27.

D. Fire

1. Report by Telephone (5333) or by fire pull-box.
2. After reporting by fire pull-box, meet the Fire Department at the pull-box and direct firemen to emergency location.
3. Notify the Building Manager.
4. Clear the area. Use stairways. DO NOT USE ELEVATORS.
5. Fire-fighting action by trained personnel, such as use of a fire extinguisher, should be taken only if this can be done with reasonable safety.

E. Smoke or Leaking Gas

1. Report by telephone (5333).
2. Notify the Building Manager.
3. Clear the area if necessary. Use stairways. DO NOT USE ELEVATORS.

F. Landslide or Water Damage

1. Call Building maintenance, Ext. 5575 (CAM 51). If no answer, call Ext. 5481 (CAM 10). If still no answer, call EXT. 5333.
2. Notify the Building Manager.
3. Clear the area if necessary.
4. Do not attempt to disconnect or shut down electrical equipment.

G. Electric Power Failure

1. Report the failure to Ext. 5575, Harvey Oakley or Warren Faust. If no answer, call Ext. 5481 (CAM 10). If still no answer, call EXT. 5333.
2. Notify the Building Manager.

H. Gas or Water: Loss of Flow or Pressure

1. Report failure to Building Maintenance EXT. 5575 (CAM 51). If no answer, call EXT. 5481 (CAM 10). If still no answer, call EXT. 5333.
2. Notify the Building Manager.

III. INSTRUCTIONS FOR SPECIFIC EMERGENCIES

A. Emergency Announcement Signal (Bomb Threat Emergency)

1. Alternating high and low tones (warble) similar to the European emergency vehicle sound. The signal will be followed by a voice announcement on the PA system identifying the building or area to be evacuated. The announcement will be repeated once.
2. Turn off typewriters. Take lunches, purse, or any personal packages (because these could be mistaken for concealed explosives). LEAVE AT ONCE. Follow posted exit routes. Follow directions of the Building Emergency Team. DO NOT USE ELEVATORS.
3. Move away from the building to designated areas and await instructions.
4. DO NOT RE-ENTER BUILDING until so directed by the Building Manager.

B. Bomb Threat Received by Telephone

1. Recipient of the call should remain calm and listen carefully. Attempt to have another employee present or listening on an extension. By note or signal, alert a co-worker to call the Laboratory operator, Ext. 6111, to trace the call.
2. Attempt to determine the following:
   a. Exact location of the threat--building, room, floor.
   b. Exact time threated action will occur.
   c. If a bomb--is it disguised, concealed, in the open
   d. Kind and size of bomb--fire, dynamite (how many sticks, etc.).
   e. How did it enter--mail, carried
   f. Why was it placed in the Laboratory
   g. Identity of caller or person reported.
   h. Origin of the call.
   i. Characteristics of the caller's voice (accent, speech defects, etc.), background noises, etc.
3. It is recognized that some of the above information probably will not be obtained, but an attempt should be made. Notify Protective Services (5333), your supervisor, and the Building Manager immediately.

C. Earthquake

1. Stay calm. If you are indoors, stay indoors; if outside, stay outside. Try to keep others calm. Falling debris around the perimeter of buildings can cause many casualties.
2. If inside, avoid falling debris and breaking glass by moving away from tall bookcases, experimental setups, and glass windows. Stand in an outside doorway or the corner of a room or crouch under a desk or bench.

3. If outside, move into open areas away from overhead power lines.
4. If in an automobile, stop in a safe, open area.
5. After the earthquake:
   a. DO NOT light matches, DO NOT SMOKE, and DO NOT operate electrical switches or appliances. If a gas leak exists, such actions could cause explosions. Report gas leaks by calling Ext. 5333.
   b. Check for fires, spills of hazardous or flammable materials, and ignition sources. Take action where practical.
   c. Persons in your area may be injured or trapped. Give assistance in accounting for others in your area; summon medical or rescue help if necessary.
   d. Be very careful to avoid downed wires, structural hazards, and other obstructions.
   e. Move into the open after the earthquake is over. If in a building with elevators, DO NOT USE ELEVATORS. (THERE ARE NO ELEVATORS AT BUILDING 51 OR 64 COMPLEX AREAS). Assemble at your building's specified waiting area for a head count. The Building Manager will then report to central control. Remember that aftershocks or subsequent earthquakes may be even more damaging than the initial shock.
   f. Do not try to leave the Laboratory by automobile. Roads will be blocked, and automobiles will only add to the confusion and will prevent emergency vehicles from getting through. When roads are open, you will be notified of the best way to get home.

D. Road Obstruction

1. Restriction of road access will be announced on public address system.
2. Follow instructions given.
3. Follow Police instructions.

E. Civil Disturbances

In most instances, advance warning of disturbances will be given by the Protective Services Department. If the disturbance appears to be serious, a decision will be made by the Director's Office regarding evacuation of Laboratory personnel and other emergency actions to be taken.

F. Civil Alert

1. The LBL Protective Services Department will be advised of impending disasters in the following ways:
   a. NAWAS (National Warning System, through DOE).
   b. EBS (Emergency Broadcasting System, through commercial broadcasts).

c. Such disasters may include enemy attack, dispersal of radioactive material, fire, storm, flood, or other events or natural phenomena that could endanger life or health or threaten destruction of plant and community facilities.

2. Upon receipt of warnings from the above sources, LBL Protective Services will broadcast pertinent information over the LBL public address system and will also use portable broadcasting equipment to reach all sections of the Laboratory.
3. Depending on the nature of the danger and the circumstances in the surrounding community, orders will be given for personnel to take shelter at the Laboratory or to evacuate the area.
4. Following notification of an alert, departments possessing broadcast receivers should tune to the Emergency Broadcasting System: 640 or 1240 kHz.

G. Elevators

If in a building with elevators, DO NOT ATTEMPT TO OPEN ELEVATOR DOOR OR TO CLIMB OUT OF THE ELEVATOR; SUCH ACTION COULD BE FATAL. (THERE ARE NO ELEVATORS AT BUILDING 51 OR 64 COMPLEX AREAS).

1. FIRE. If in an elevator when a fire alarm sounds, push the button for the next floor; and, when the floor is reached, leave the elevator and exit the building.
2. MECHANICAL FAILURE. If trapped in an elevator because of mechanical failure, dial Ext. 5481 (ask for CAM 10) for assistance. Sit on the floor and wait.
3. POWER FAILURE. If elevator stops because of power failure, remain calm. Call Ext. 5481 (ask for CAM 10) for assistance. Turn the emergency light switch to the low position. Sit on the floor and wait.
4. EARTHQUAKE. A severe earthquake could jam the elevator. Call Ext. 5481 (ask for CAM 10) for assistance. Sit on the floor and wait. Safety stops will hold the elevator in place or ease it down. Designated personnel will perform rescue operations.
5. EMERGENCY PHONE: Ext. 5333.

H. Release of Toxic or Radiological Materials

The following procedures will be followed should such an accident occur:

1. Release or Leak of Toxic Materials

   a. EVACUATE THE BUILDING IMMEDIATELY.
   b. Report the accident by calling 5333 and indicate
      (1) exact location of the accident and
      (2) the type of materials involved.
   c. Notify immediate supervisor and Building Manager.

d. REMAIN OUTSIDE THE BUILDING until authorized to return. Only trained and properly equipped emergency personnel may enter the area until it has been checked and cleared.
e. Supervisors of groups using equipment and laboratory facilities involving toxic materials will prepare emergency procedures to be followed if any accidental release of these materials occurs. Copies of these procedures will be provided to the Building Manager and to the EH&S Department.

2. Significant Releases of Chemical Pollutants

Significant releases of chemical pollutants to the environs must be reported to the Director's Office or the EH&S LBL extension 5333.

3. Release of Radiological Materials

a. EVACUATE AND QUARANTINE the area if accidental release of radioactive material occurs.
b. Any INDIVIDUALS exposed to radiation should be immediately ISOLATED AND QUARANTINED.
c. Remain at the boundary of the radioactive area.
d. Prevent anyone from entering the area.
e. Avoid spreading contamination.
f. Call 5333 and provide
   (1) exact location of incident and the
   (2) type material involved.
g. Notify the EH&S Monitor, 5954.
h. Notify immediate supervisor and Building Manager.
i. Follow instructions of emergency personnel.
j. Supervisors of groups using radioactive material will prepare emergency procedures to be followed if accidental release of radioactive material occurs. Copies will be provided to the Building Manager and to the EH&S Department.

4. Reports after Any Release of Toxic or Radioactive Materials

Personnel involved in the accidental release or discovery of such release of toxic or radioactive materials and the Building Manager will assist the EH&S Department in preparing reports required.

IV. RESPONSIBILITIES AND DUTIES OF BUILDING MANAGER AND DEPUTY BUILDING MANAGER

A. Building Manager

The Building Manager is the person in charge of a building or complex. Appointed by the Associate Director for Engineering and Technical Services, he or she is responsible for preparing, updating, and implementing the emergency plan for his or her area. This building emergency plan must be consistent with the Laboratory Master Emergency Plan and must provide for any special situation that may be encountered in his or her building or complex. The Building Manager is also responsible for arranging emergency drills and other training programs, as appropriate, for all employees of the facility.

B. Deputy Building Manager

The Deputy Building Manager acts for the Building Manager in his or her absence. The Deputy Building Manager is responsible to the Building Manager for developing emergency procedures, training all personnel in these procedures, and implementing the procedures in case of an emergency. During an emergency, the Deputy Building Manager supervises the Assistant Building Managers and also acts as liaison to the EH&S Building Safety Coordinator.

C. Planning and Training Duties

1. Develop a Building Emergency Plan and a training program applying to various emergency situations.
2. The Building Emergency Plan includes:
   a. General Information
   b. How to report emergencies
   c. Actions to be taken during emergencies
   d. Evacuation routes and assembly areas
   e. Location of fire extinguishers, hoses, and alarm boxes
   f. Location of building and section emergency coordination centers
   g. Duties of Assistant Building Managers
   h. Shut-down procedures
   i. List of key personnel and phone numbers
   j. Location of hazardous areas requiring special attention.

3. Operational Responsibilities
   a. Preparation of a roster of key personnel responsible for supervision of emergency actions in various parts of the building. This list will be kept current at all times.
   b. Preparation of a roster of personnel who have First Aid or CPR training.
   c. Periodically arrange for First Aid or CPR training and schedule personnel to attend these classes.
   d. Schedule training sessions for Assistant Building Managers.
   e. Coordinate emergency and fire drills.
   f. Conduct periodic inspections to determine potential safety hazards. Initiate action to eliminate or minimize these hazards.
   g. Establish an Emergency Coordination Center and stock it with first aid supplies, tools, and other supplies considered necessary.
   h. In addition to fire drills, schedule periodic Fire Department training sessions on use of fire extinguishers.
   i. Schedule training sessions for key personnel in proper shut-down procedures, these classes to be conducted by the Maintenance Department.
   j. Conduct periodic meetings with all coordinator personnel to discuss potential hazards and to review all emergency procedures.
   k. Maintain a current list of all Assistant Building Managers and their phone numbers. Each Assistant Building Manager position must include an alternate. It is important that the Building Manager and the Deputy Building Manager know when each Assistant Building Manager and alternate will be on vacation or otherwise absent from the building for an extended period of time. The Building Manager must make certain that substitutes are named in such cases and that these substitutes are fully aware of their duties and responsibilities.
   l. Arrange for briefing all newly assigned personnel in emergency procedures.

D. <u>Responsibilities during Emergency Situations</u>

1. When an emergency occurs, make certain that all Assistant Building Managers are aware of the emergency and that appropriate action is underway.
2. Supervise evacuation of the building. Use a checklist to record when each Assistant Building Manager reports that his or her area has been completely evacuated.
3. Make certain that shut-down procedure is completed when such is required.
4. Assist in liaison with the Fire Department and other emergency groups in handling the emergency.

5. Make certain that all required notifications to individuals and departments are made.
6. When the emergency is under control, determine whether personnel are to return to the building or are to leave the area for the day (determination will probably be made by Fire Department, other safety personnel, or the Director's Office). Notify all building personnel of this decision.

E. Actions after an Emergency

1. Prepare a report concerning implementation of emergency plans.
2. Meet with Assistant Building Managers to review actions that took place. Determine if any revision of the Building Emergency plan is required, based upon actions during the emergency. Revise the plan if required.
3. Provide a brief summary to all personnel concerning the emergency, its causes, and a critique of actions taken during the emergency.
4. This post-emergency action is to be conducted after a major emergency training exercise or drill.

V. RESPONSIBILITIES AND DUTIES OF ASSISTANT BUILDING MANAGERS AND ALTERNATES

A. BE THOROUGHLY FAMILIAR WITH THE BUILDING EMERGENCY PLAN

B. Monitoring Responsibilities:

1. Recommend to the Building Manager a location for a section emergency coordination center to be manned during an emergency until evacuation is complete.
2. Screen all personnel working in the section to determine those with physical disabilities requiring special care during an evacuation. Assign specific personnel and alternates to assist individuals with disabilities.
3. Establish procedure for checking the entire section to determine that it has been completely evacuated. This check should include toilets, boiler rooms, fan rooms, etc.
4. Periodically inspect section area to determine potential safety hazards. Take action to eliminate or minimize any hazard. If this is not feasible, report the hazard to the Building Manager with a recommendation for possible action that might be undertaken.
5. Maintain a list of personnel in the section who have had First Aid or CPR training. Recommend additional personnel to receive such training when periodic training sessions are scheduled.
6. Designate personnel to receive Fire Department training in use of fire extinguishers.
7. Become thoroughly familiar with the location of all fire extinguishers, hoses, alarm boxes, and other emergency equipment.

C. Actions and Responsibilities during an Emergency

1. If the emergency occurs in his or her section, follow notification instructions listed in Section II of the Building Emergency Plan.
2. Make certain that the section emergency coordination center is manned until evacuation has been completed.
3. Inspect all rooms and other areas in his or her section to make certain that all personnel have left the area.
4. Report to the Building Manager that the section has been completely evacuated.
5. Assist the Building Manager as directed; or, if no assistance is required, proceed to the evacuation assembly area.

D. Actions after an Emergency

1. Assist the Building Manager in preparing the post-action report by providing input concerning actions in his or her section.
2. Recommend any changes to the Building Emergency Plan resulting from actions during the emergency. Similar changes are to be recommended after emergency training exercises or drills when the conduct of the exercise or drill indicates that changes should be made.

VI. CATEGORIES OF ACCIDENTS

A. Type A Accident

1. Any fatal or imminently fatal injury or occupational illness involving DOE or DOE-contractor employees or a member of the public due to an accident or fire associated with DOE or DOE-contractor operation.
2. Any other disabling injury or occupational illness of five or more persons as a result of one occurrence in DOE or DOE-contractor operation.
3. Estimated loss or damage to DOE property or to other property of $250,000 or more or estimated costs of $250,000 or more for required cleaning (to include decontamination), renovating, replacing, or rehabilitating structures, equipment, or property.

B. Type B Accident

1. Estimated loss or damage to DOE property or to other property that ranges from $50,000 to $250,000 in those cases in which loss or costs are incurred for cleaning (including decontamination), renovating, replacing, or rehabilitating structures, equipment, or property.
2. An accident involving any vehicle transporting radioactive material.
3. An accident involving shipment of radioactive materials that arrive at the Laboratory damaged to such an extent that the effectiveness of the package is substantially reduced.

C. Type C Accident

1. Any disabling occupational injury involving an employee.
2. Any DOE or other property damage or loss, resulting from fire or other accidental causes (e.g., wind, hail, flood, explosion, leakage) that exceeds $1,000.
3. Any motor vehicle accident involving a government-owned or leased vehicle for which DOE accepts liability, including those obtained from an interagency motor pool.

D. Actions To Be Taken

1. Preservation of scene of serious (Type A) accident. The DOE requires that the scene of a serious (Type A) accident be preserved to the greatest extent possible until a DOE investigating team has reviewed the scene. Therefore, in the event of a Type A accident, take the following actions:

a. Secure the accident scene, mobile or fixed, to preclude disturbance or alteration by anyone until the DOE investigation team has reviewed the scene.
b. Prevent operation, moving, or alteration of equipment or articles involved in the accident, except as essential to rescue action, until the DOE investigation team has made its examination (it may be necessary to impound equipment or articles until the examination can be initiated).
c. Take color photographs of the accident scene, equipment involved in the accident (e.g., motor vehicles, ladders, tools, shipping containers), and transient evidence (e.g., pool of liquid, spilled material, or tire marks) immediately following notification of the accident (care should be exercised by the photographers or others to avoid disturbing the accident scene).

2. If there is a question as to whether or not the accident should be treated as a Type A accident, the scene is to be preserved until Laboratory management makes an official determination. Official determination will be made by one of the following:
   a. Director
   b. Deputy Director
   c. Associate Director, Engineering and Technical Services
   d. Associate Director, Administration.

VII. EMERGENCY ORGANIZATION BUILDING 51

	LBL Ext.	Home Phone
Building Manager: Robert M. Miller	5575	415 235-4854
Deputy Building Manager: Harvey J. Oakley	5575	415 229-3640

Bldg. Areas and Departments	Emergency Responsibilities: Assistant Building Managers and LBL Extension	
51	Glenn White	5575
51 Mezzanine	Fred Lothrop	5575
51	John Redding	5575
51-A & EPB Hall	Bob Everett	5575
EPB Hall (Exper. Caves)	Jim Brannigan	5575
51- Bio-Med.	Jerry Howard	5575
51 MG room & Power Distribution	Warren Faust	5575
51 Interlocks Power Make-up Chain	Jean Waddell	5575

BUILDINGS 60, 63, and 64

	LBL Ext.	Home Phone
Building Manager: Richard M. Reimers	5831	415 284-5236
Deputy Building Manager: Terrence E. Byrnes, Jr.	5831	415 934-1337

64-First Floor	Robert S. Everett	5575
64-Second Floor	Terrence E. Byrnes	5831
60 & 63	Norman R. Johnson	5094

VIII. UTILITY SHUT-DOWN PROCEDURES

Only authorized and trained employees will shut off mains.
The Maintenance Department will train authorized personnel.
Maintenance Department personnel will reactivate the systems.
LBL Maintenance Department telephone: 5481 (Ask for CAM 10)

LBL MAINTENANCE DEPARTMENT TELEPHONE: 5481 (Ask for CAM 10)

BUILDING 51

Utility	Shut-off location and designation	Authorized personnel and LBL extension	Possible conditions requiring shut-down
Electricity	Main Control Rm. Motor Generator Rm. Local	Operators 5575 Warren Faust & (operators) Jean Waddell 5575	Broken conduit Major flooding
Gas	West of Building 51 Mezzanine across the roadway on the hill-side	John Redding & 5575 Plant Maint. 5387 Tech. CAM 51	Fire Earthquake Power failure Leaking gas
Water	Ref. AREA MAP Pg.	John Redding & 5575 Plant Maint. 5387 Tech. CAM 51	Broken pipe (Notify Fire Dept. if sprinklers are involved)

BUILDING 64

Electricity		C & M CAM 10	Broken conduit Major flooding
Gas	East side, middle of Bldg. 64	Plant Maintenance Tech. Ext. 5387 or CAM 51	Fire Earthquake Power failure Leaking gas
Water	East side, middle of Bldg. 64	Plant Maintenance Tech. Ext. 5387 or CAM 51	Broken pipe (Notify Fire Dept. if sprinklers are involved)

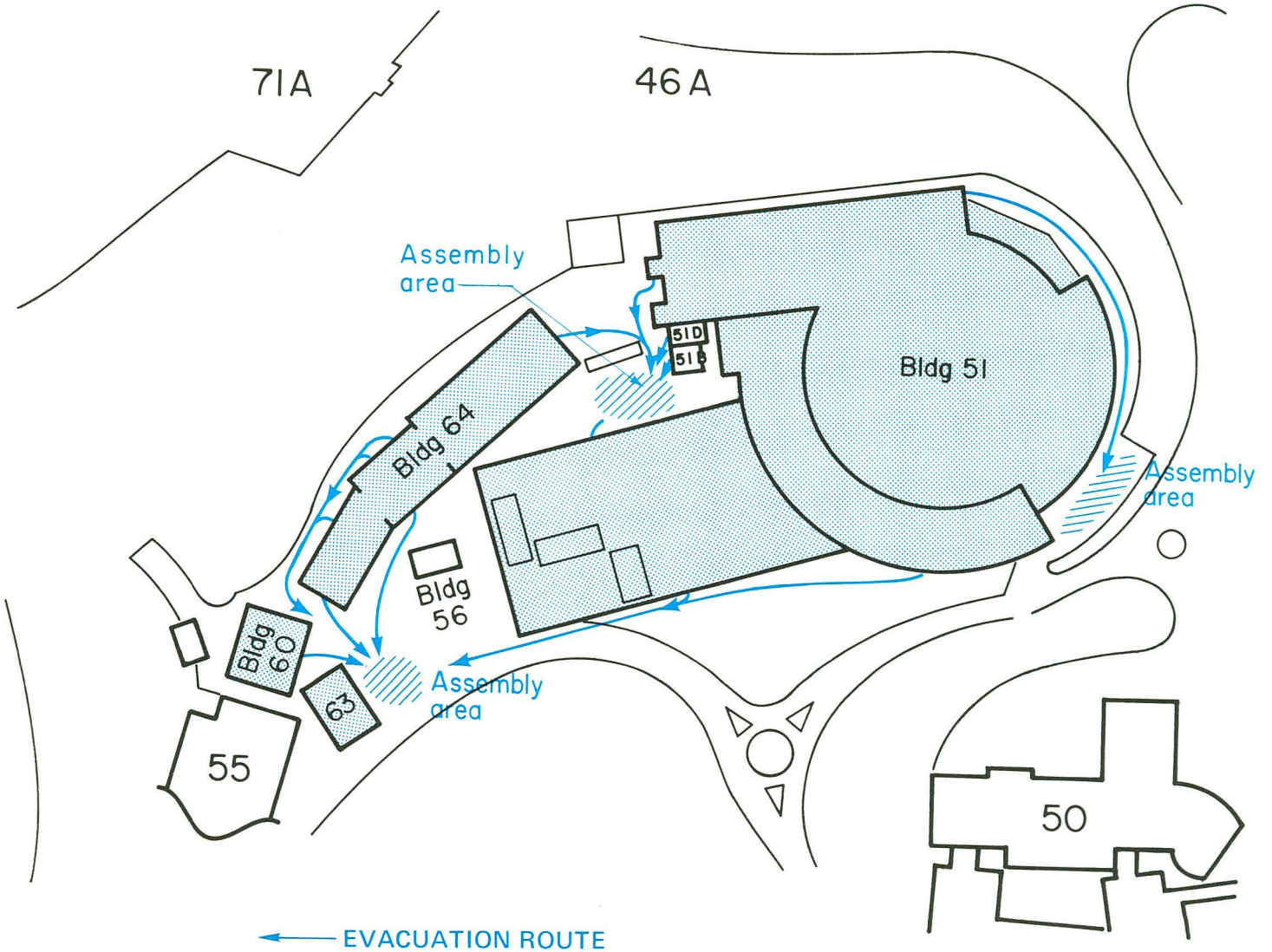
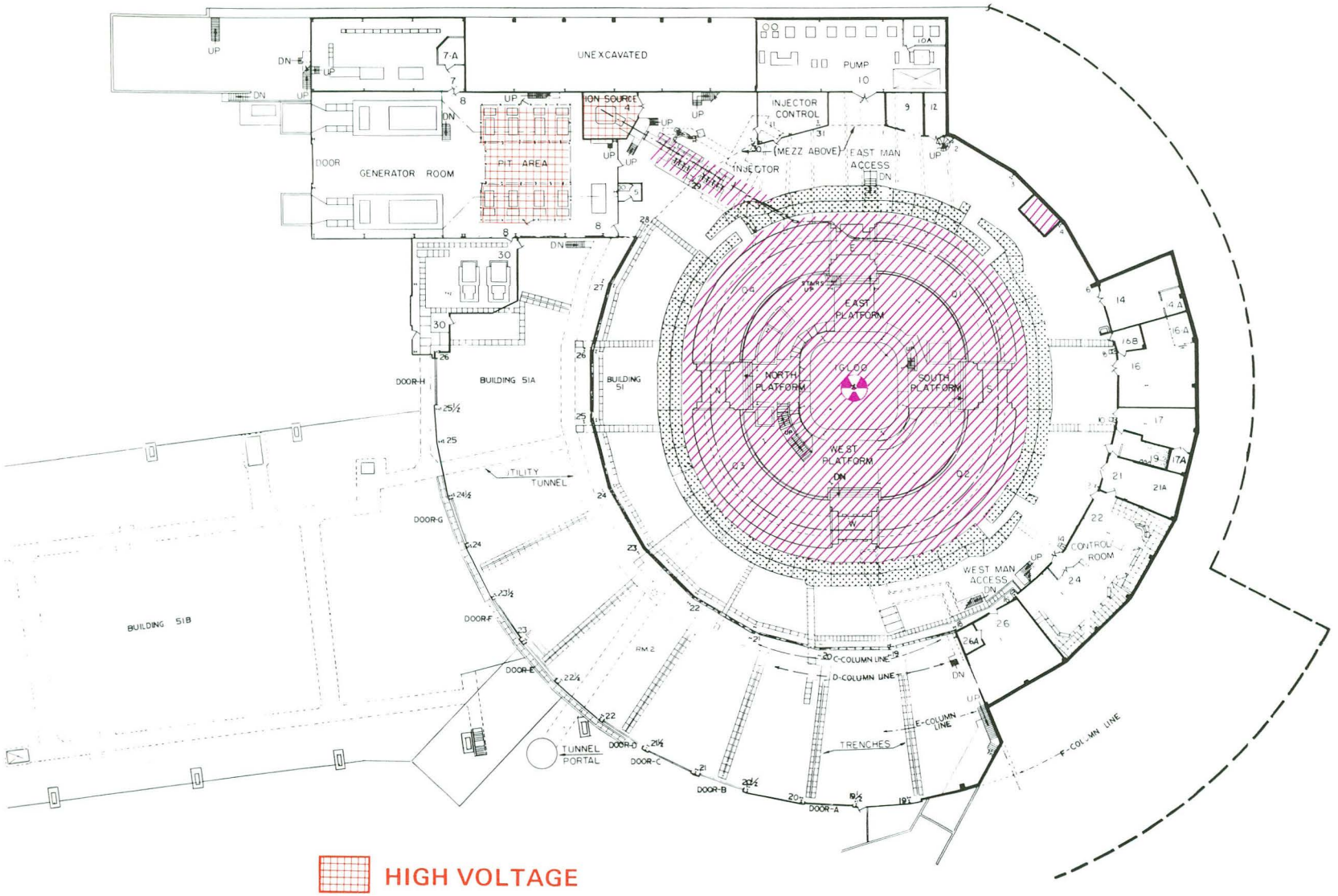


Fig. 1. Evacuation routes and assembly areas for Buildings 51, 60, 63, and 64.



HIGH VOLTAGE

HIGH RADIATION AREA

Fig. 2. Building 51, MAIN FLOOR, hazard areas.

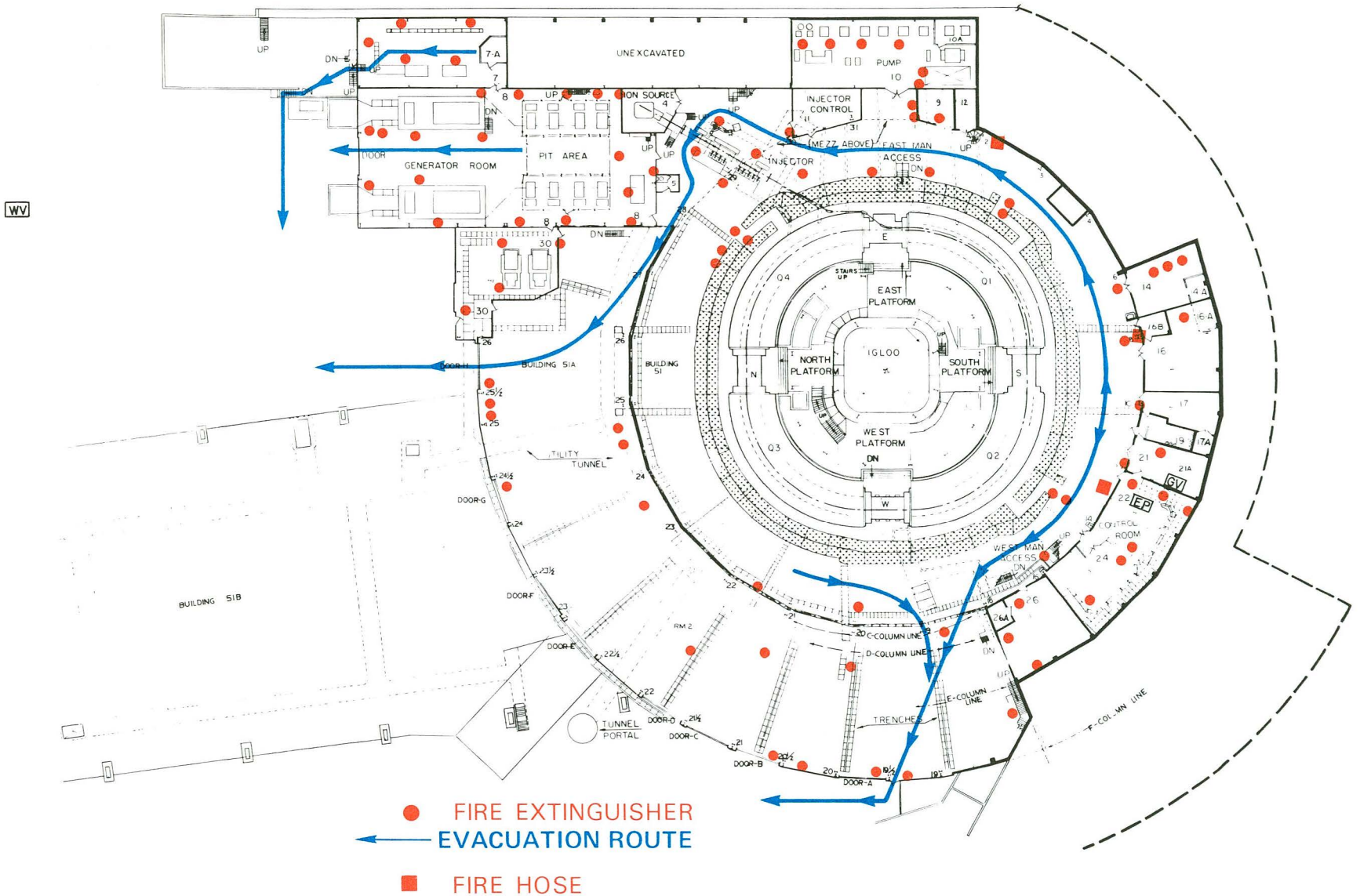
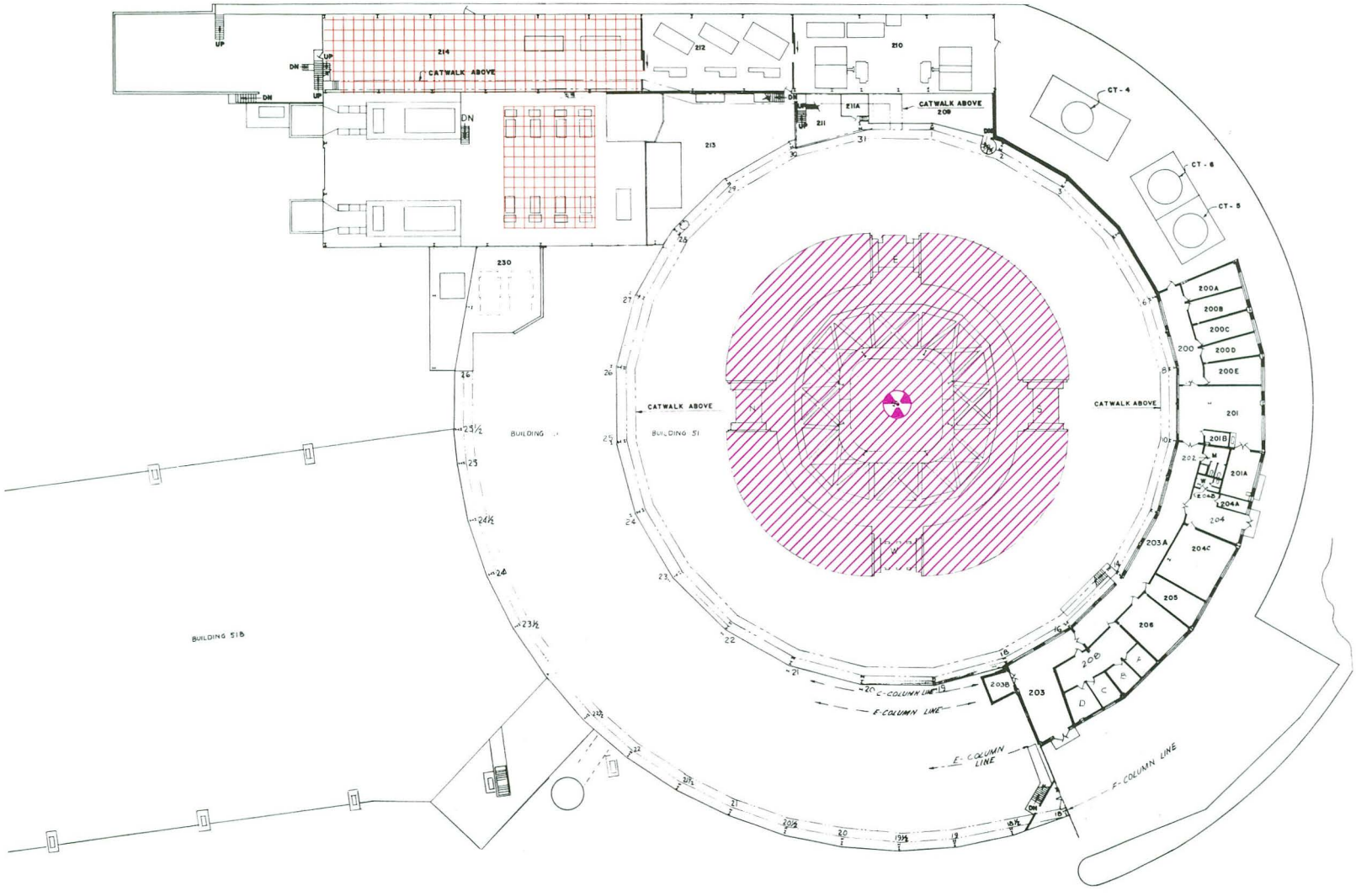


Fig. 3. Building 51, MAIN FLOOR, evacuation routes and fire equipment.



HIGH RADIATION AREA

HIGH VOLTAGE

Fig. 4. Building 51, MEZZANINE, hazard areas.

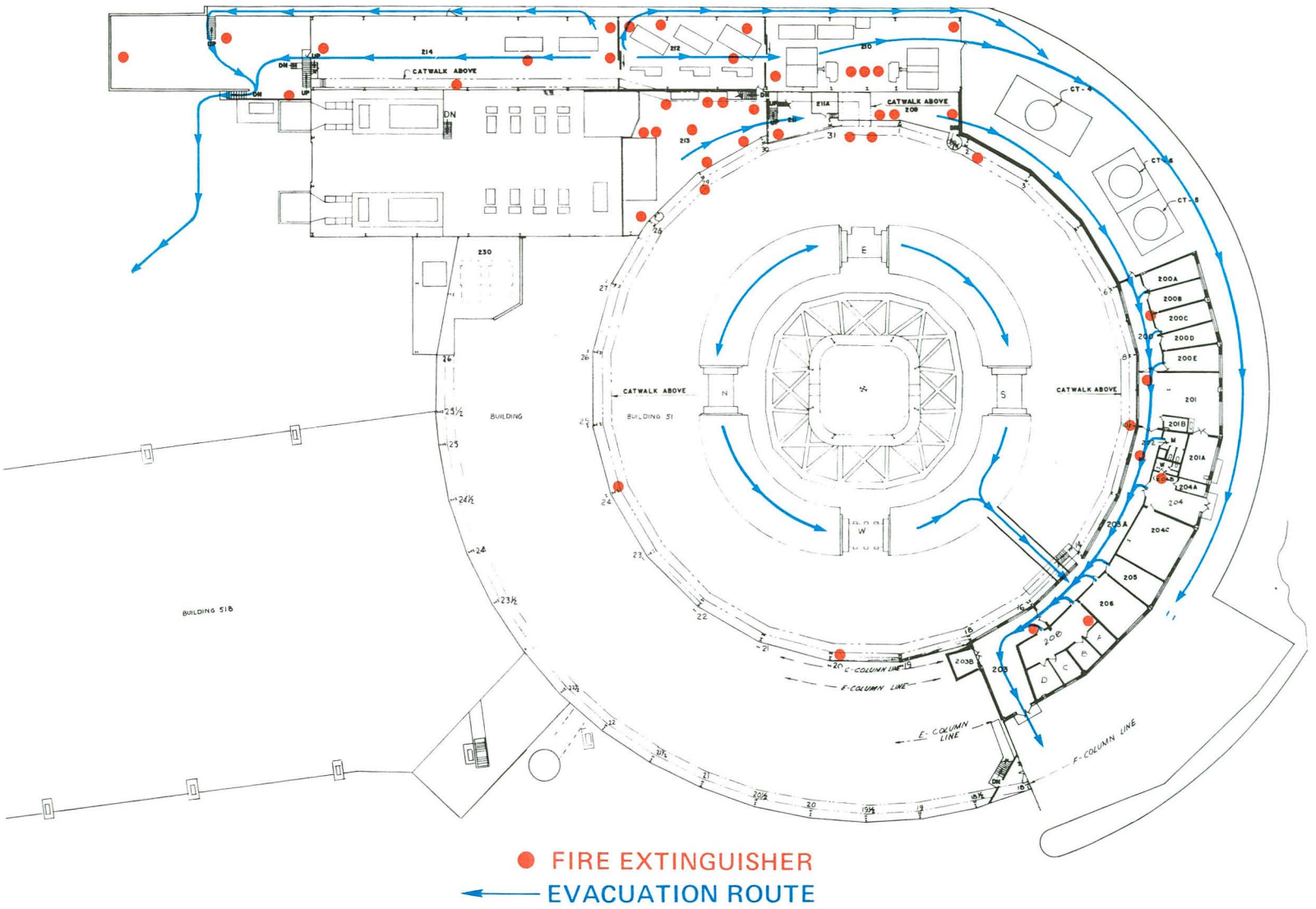


Fig. 5. Building 51, MEZZANINE, evacuation routes and fire equipment.

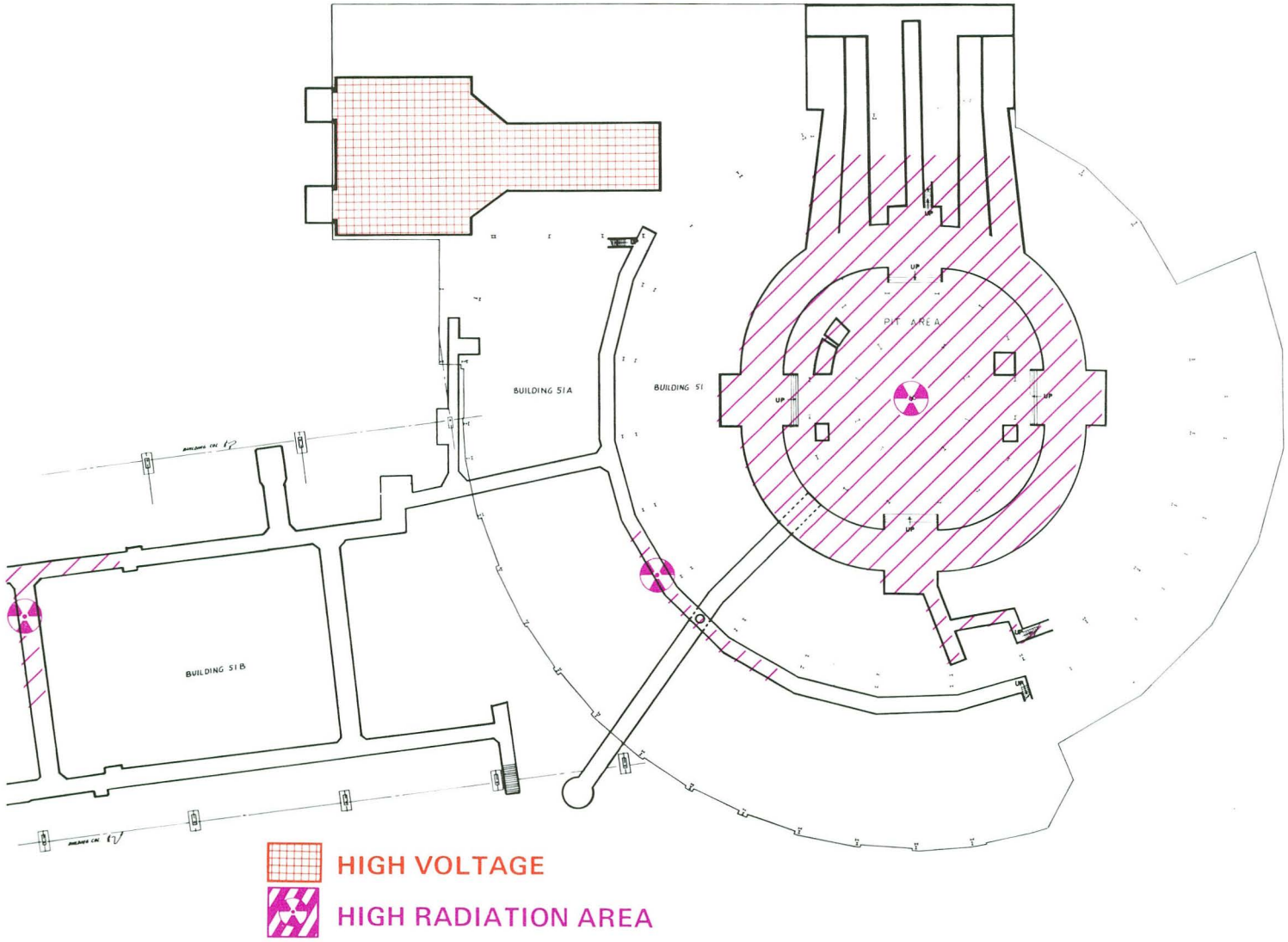


Fig. 6. Building 51, PIT AREAS AND TUNNELS, hazard areas.

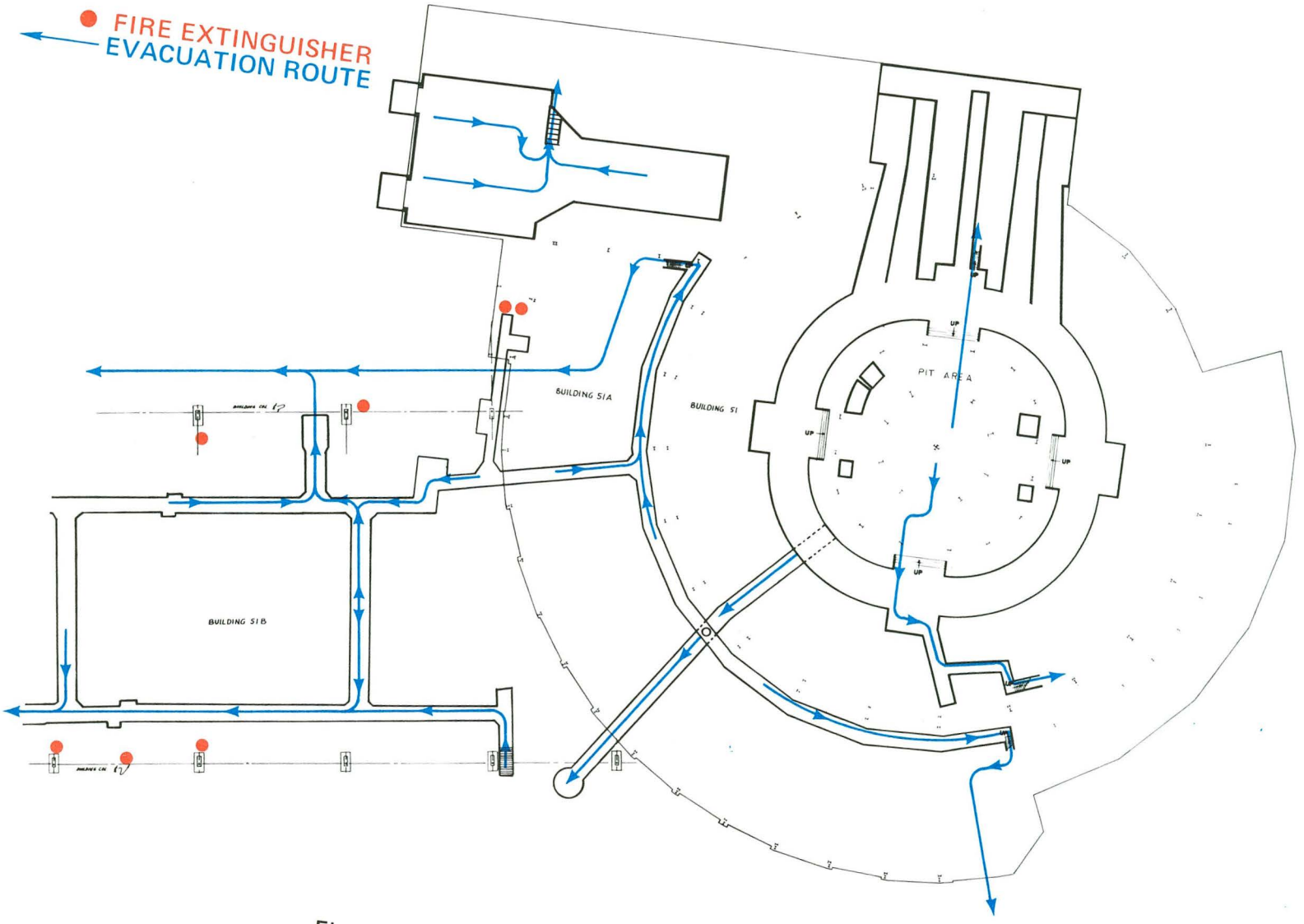


Fig. 7. Building 51, PIT AREAS AND TUNNELS, evacuation routes and fire equipment.

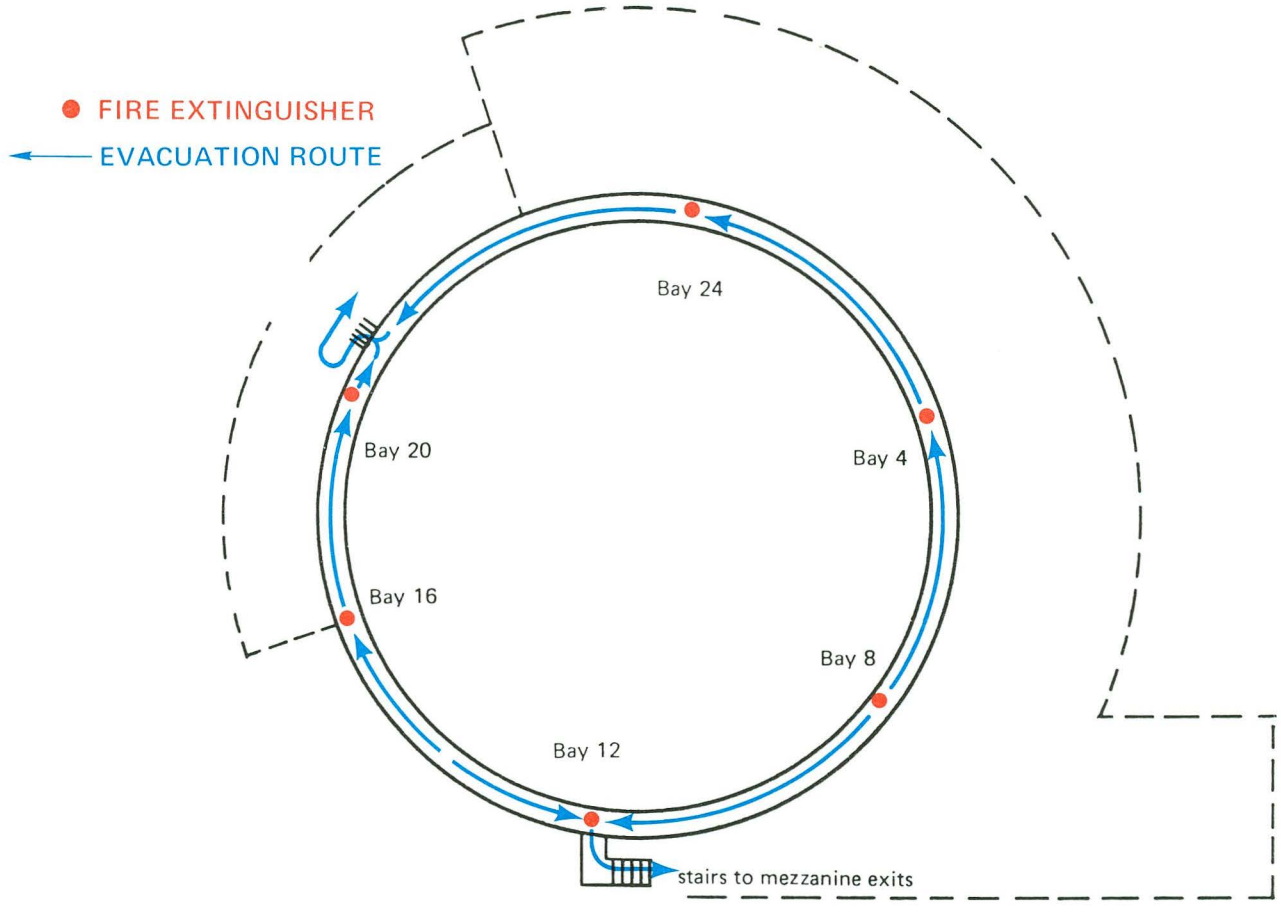


Fig. 8. Building 51, CRANE, WIRE WAY, CATWALK LEVEL, evacuation routes and fire equipment.

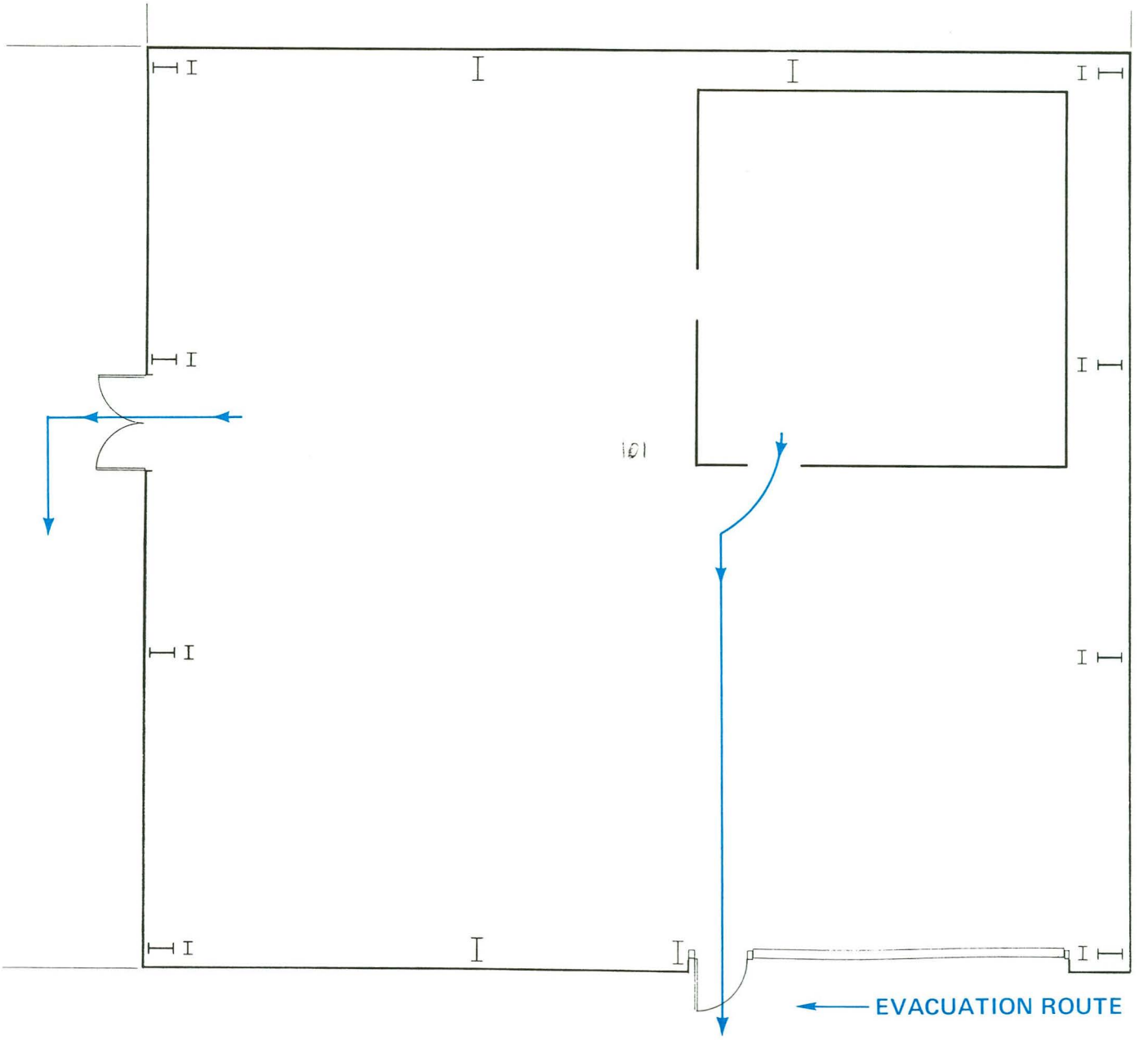


Fig. 9. Building 60 evacuation routes and fire equipment.

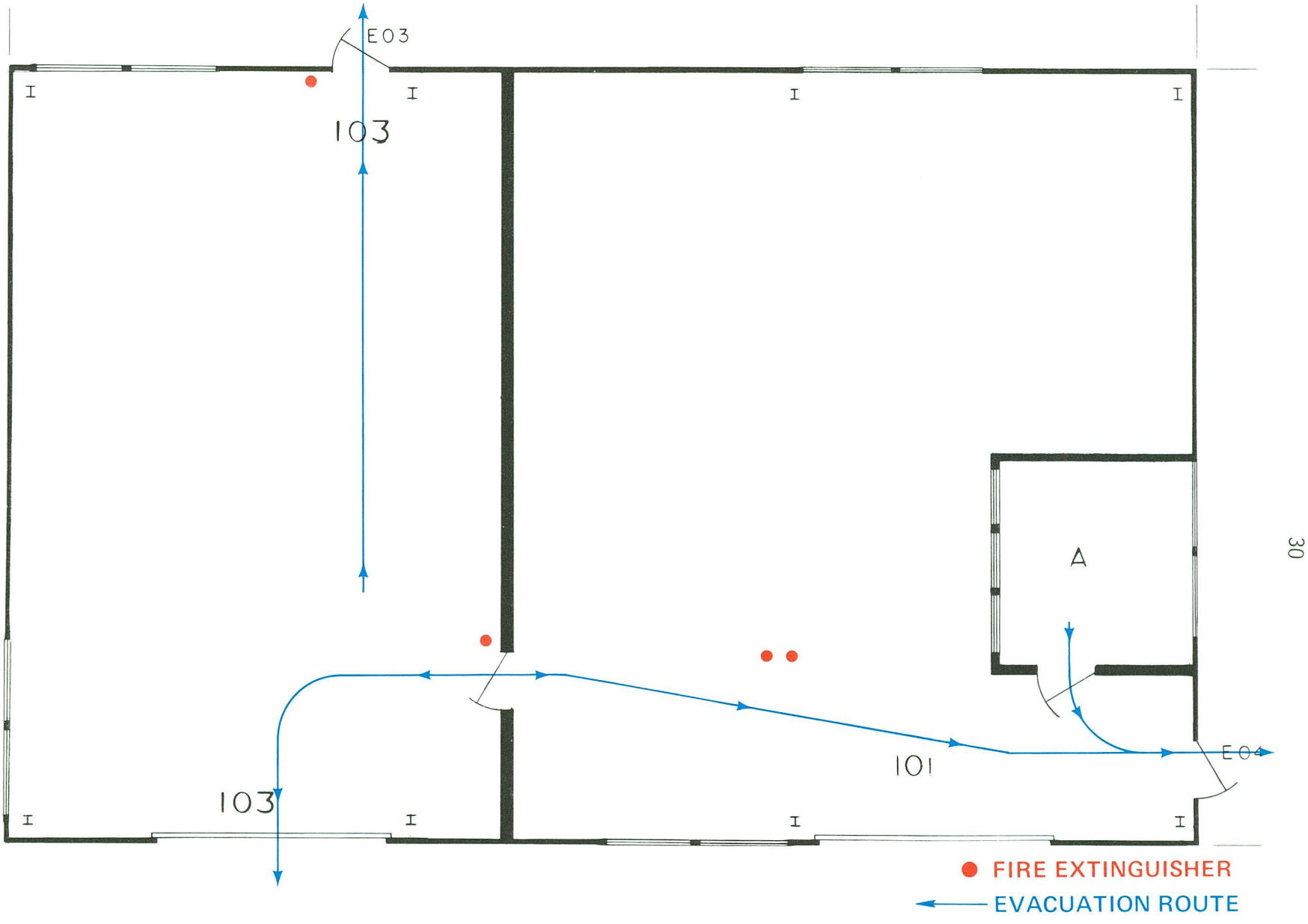


Fig. 10. Building 63 evacuation routes and fire equipment.

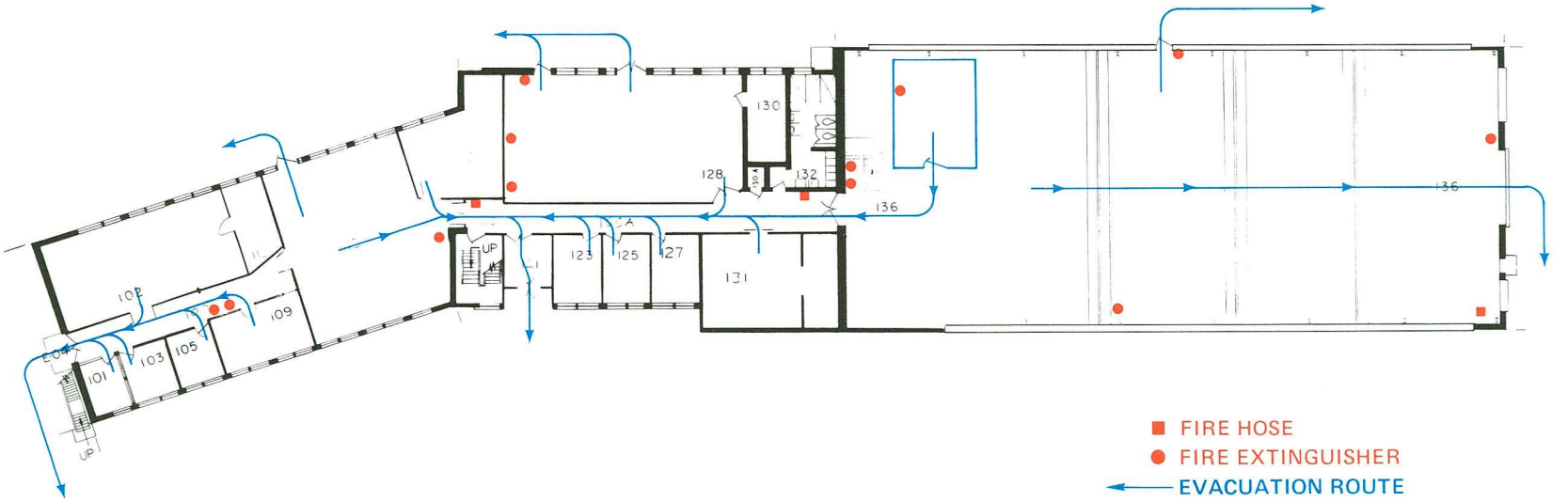


Fig. 11. Building 64, FIRST FLOOR, evacuation routes and fire equipment.

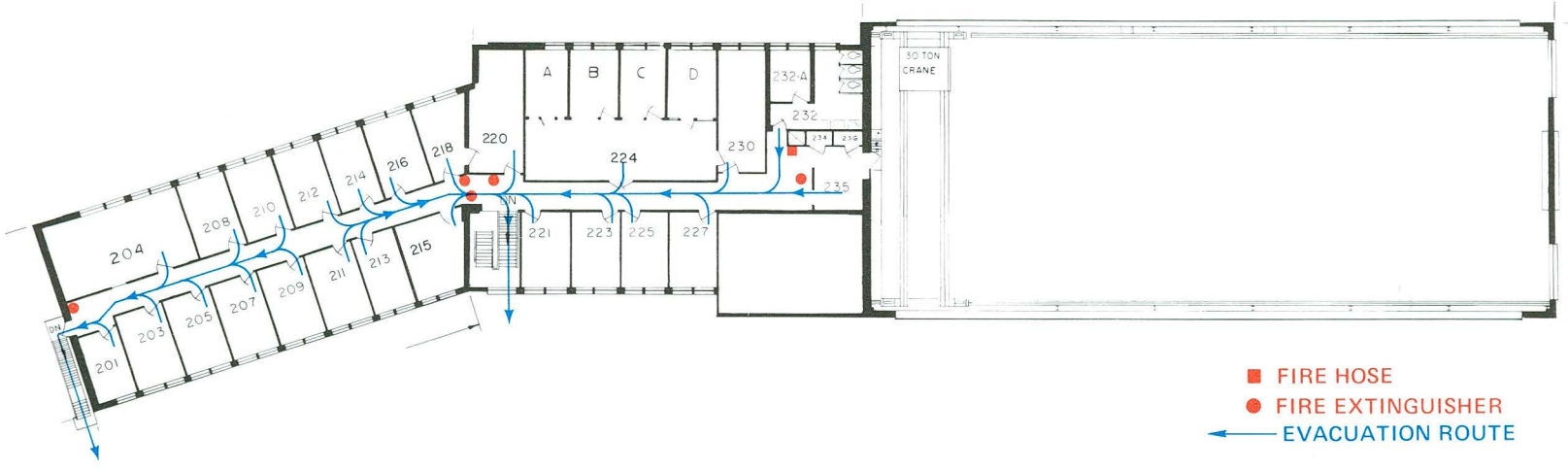


Fig. 12. Building 64, SECOND FLOOR, evacuation routes and fire equipment.

This report was done with support from the Department of Energy. Any conclusions or opinions expressed in this report represent solely those of the author(s) and not necessarily those of The Regents of the University of California, the Lawrence Berkeley Laboratory or the Department of Energy.

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EVACUATION PROCEDURES

If the Emergency Announcement signal (alternating high-low warble tone followed by voice announcement of area to be evacuated) or a Fire Alarm is sounded:

- ***LEAVE THE BUILDING IMMEDIATELY***
- ***DO NOT USE ELEVATORS***
- ***USE DESIGNATED EVACUATION ROUTES***
- ***PROCEED TO OUTDOOR ASSEMBLY AREAS***
- ***DO NOT RE-ENTER BUILDING UNTIL AUTHORIZED***
- ***FOLLOW INSTRUCTIONS OF EMERGENCY STAFF***

TYPE EMERGENCY	LBL EXTENSION	AGENCY
FIRE	5333	Fire Department
PERSONAL INJURY	5333	Fire Department
BOMB THREAT	5333	Police Department
LEAKING GAS	5481 (CAM 10)	Plant Maintenance
WATER LEAK	5481 (CAM 10)	Plant Maintenance
ELEVATOR TROUBLE	5481 (CAM 10)	Plant Maintenance
POWER FAILURE	5481 (CAM 10)	Plant Maintenance
RADIOACTIVE OR CHEMICAL SPILL	5333	Fire Department

OTHER EMERGENCY NUMBERS

	LBL Ext.
Building Manager:	5575
Deputy Bldg. Managers:	5575