Figure 7.1
Sample Layout of Preparation/Storage Area

Preparation/Storage Area Diagram

1. Metals storage
2. Oxidizers storage
3. Ammonium nitrate storage
4. Bases cabinet
5. Acids cabinet
6. Isolated nitric acid storage
7. Flammables cabinet
8. Poisons drawer
9A. Compressed gases—nonflammable/oxidizing; chained/strapped to a wall
9B. Compressed gases—flammable; chained/strapped to a wall
10. Low-hazard chemicals storage with earthquake lips; secured to walls
11. Sink/counter with hot/cold water, gas, electricity, exhaust hood, cabinet underneath
11A. Refrigerator
11B. Emergency shower and eyewash station
12. First-aid kit
13. ABC fire extinguisher
14. Fire blanket
15. Plastic waste receptacles
16. Chemical spill kit
17. Chemical inventory system, including MSDS
18. Conference/prep area
19. Emergency evacuation procedure
20. Apparatus/glassware storage cabinets with earthquake lips; secured to walls
21–24. Adjacent classroom laboratories
25. Hall or outside exit; all doors self-closing and lockable