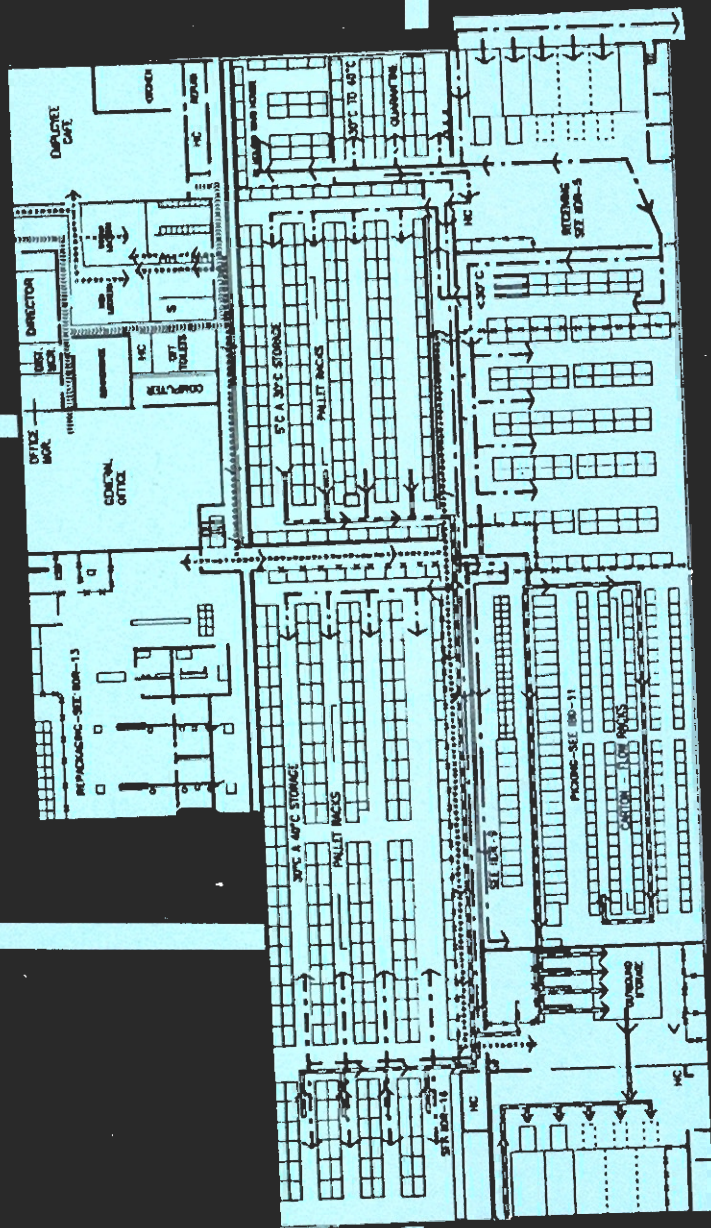




PAN AMERICAN HEALTH ORGANIZATION
Pan American Sanitary Bureau - Regional Office of the
WORLD HEALTH ORGANIZATION



**GUIDELINES FOR
MEDICAL SUPPLIES
DISTRIBUTION CENTERS**

Volume 3

**Regional and Central Centers
Reference Drawings**

**PAN AMERICAN HEALTH ORGANIZATION
WORLD HEALTH ORGANIZATION
525 Twenty-third Street, NW
Washington, DC, 20037, EUA**

1990

Foreword

The Plan for Priority Health Needs in Central America And Panama (PPS/CAP) in 1984 made drugs one of its seven priority areas.

Drugs constitute one of the inputs with a high impact on health care costs, representing on average an estimated 20 to 30% of total expenditures on health, and 40 to 50% of the cost of all inputs utilized in the health services. This situation, in conjunction with other factors, such as the lack of access to drugs by the entire population, population growth, and the economic and financial difficulties facing the countries, evoke reflection about the effort to be made in order to optimize current investments in drug through efficient supply systems.

Storage is one of the phases of the supply process that directly influence both the quality of the product and its cost. The former derives from adequate preservation of the initially established therapeutic and pharmacological quality of the drug, which requires the maintenance of suitable environmental conditions, in accordance with the particular requirements of each product during the time that it is in the warehouse.

The influence of storage on cost manifests itself both in relation to the maintenance of inventory levels, and to the losses that result from the damage, deterioration, theft, and expiration of products caused by inadequate storage.

The Pan American Health Organization, given the above factors and in light of the problems related to the situation in Central America, saw the need to develop this technical document providing guidelines for the planning, design, and construction of storerooms at the central and peripheral levels, as well as minimum storage requirements, with a view to improving the conditions of drug supply in the Region.

This book, published in Spanish and in English, consists of four volumes, the first three related to regional and central distribution centers, and the fourth aimed at local distribution centers.

Volume 1, Standards for Planning, Design, and Construction, covers in detail the three phases which any engineering project must pass through. Planning is discussed in the first fourteen chapters, from the concepts of organization of working equipment up through criteria to be used in surveys to select an appropriate site for a center to receive, store, distribute, and repackage medical supplies. Consideration is given to safety and the prevention of losses, as well as to appropriate storage practices. There is an analysis of the critical factors that affect spatial planning, a list for identifying the different types of interior space that are required, and a description of methods and procedures for determining the amount of space needed. There are also two chapters devoted to an extensive discussion of appropriate equipment, including selection and installation costs, as well as environmental standards for the various classes of interior spaces for a medical supply complex.

The topics of design and construction are covered in the chapters that follow in Volume 1. The purpose is to emphasize approaches to technical aspects, costs, and administration which will allow a project to be brought to completion, both in the anticipated amount of time and within the prepared budget. The technical information that is found in this part is perhaps unique because it refers

Preface

The Pan American Health Organization is publishing the present guidelines on the planning, design, and construction of distribution centers at the central, peripheral and local levels, and on minimum storage requirements, as a contribution to the efforts that the governments of the Region are making to improve drug availability for the entire population.

Drugs play an important role in disease prevention and the restoration of health, thus helping significantly to attain the goal of HFA/2000, as a priority component of primary health care. The processes of drug storage and distribution currently differ greatly in the Region, and there are serious problems in the administration of that input which lead to significant losses, higher costs, and greater unevenness of quality, availability, and use. The guidelines being published now are an attempt to help solve these problems.

Carlyle Guerra de Macedo
Director
Pan American Health Organization

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Introduction

The reference drawings included in this volume are intended to explain graphically concepts that are generally applicable and required for central and regional facilities receiving, warehousing, and distributing medical supplies in Central America, as further described in the text of the guidelines. They are generic in nature and describe typical arrangements and details desirable in buildings and installations of this type. Accompanying each reference drawing is a reference to the chapter or chapters where the salient features are discussed.

Reference drawings with IBD- (Central) or ICD- (Regional) prefixes are examples of the types of drawings or sketches that are usually prepared during the planning phase of a project to define the scope of the project. Reference drawings with IIDR- (Central) and IRRR- (Regional) prefixes are examples of but a few of the drawings that must be prepared during the design phase of a project.

The responsible project management, planning, and design teams shall establish all actual requirements, dimensions, and conditions required for their project that shall also comply with the requirement of the regulatory agencies having jurisdiction.

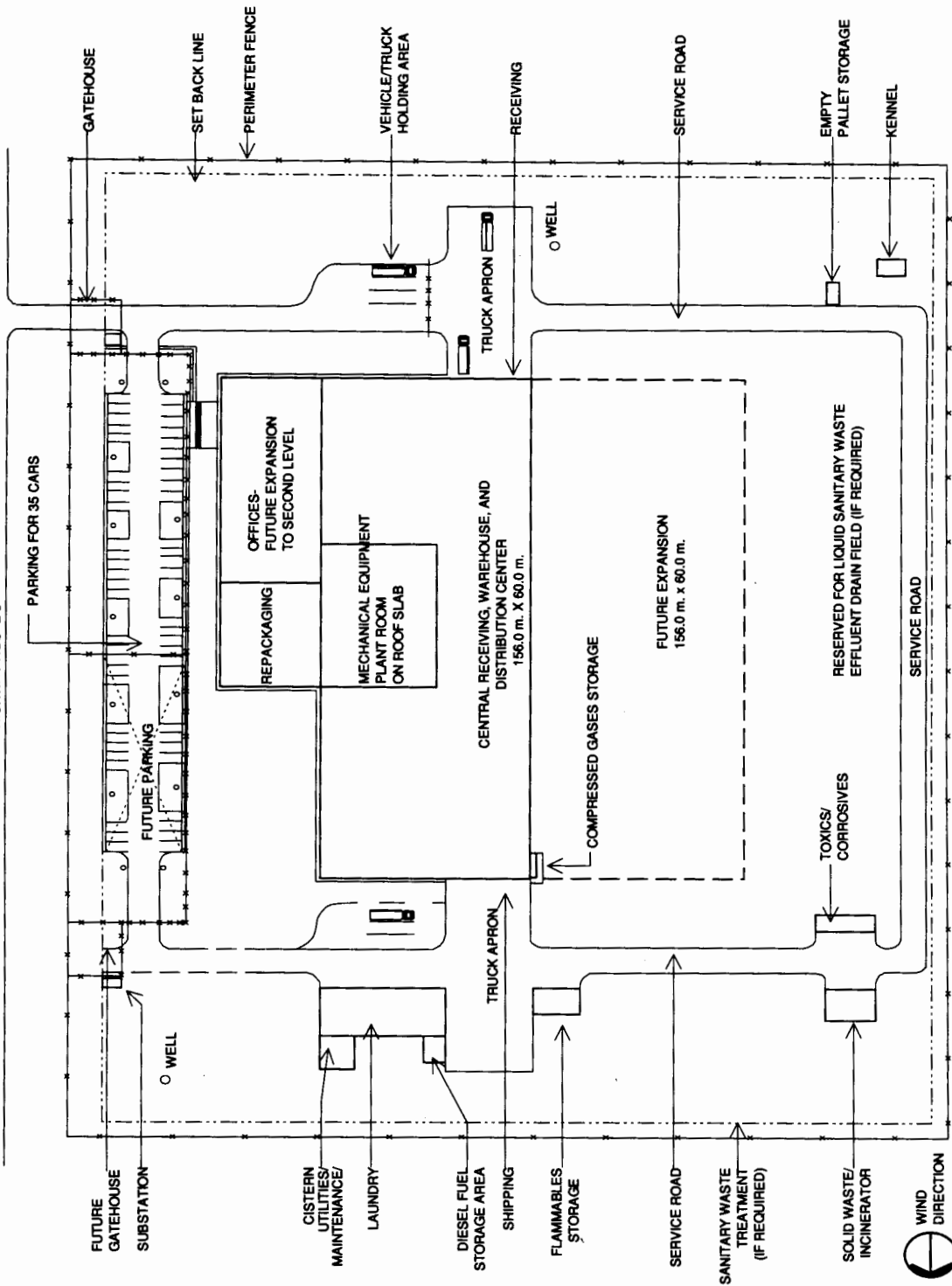
No reference drawing, or any element thereof, shall be used for construction.

Geographic names as Tegalo, Kalti, etc. are imaginary.



NOTE: PROPERTY LINE
IS 30 CM OUTSIDE OF
PERIMETER FENCE
ON EAST BOUNDARY

HIGHWAY ROUTE 3



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20, 26 OF VOLUME 1.**

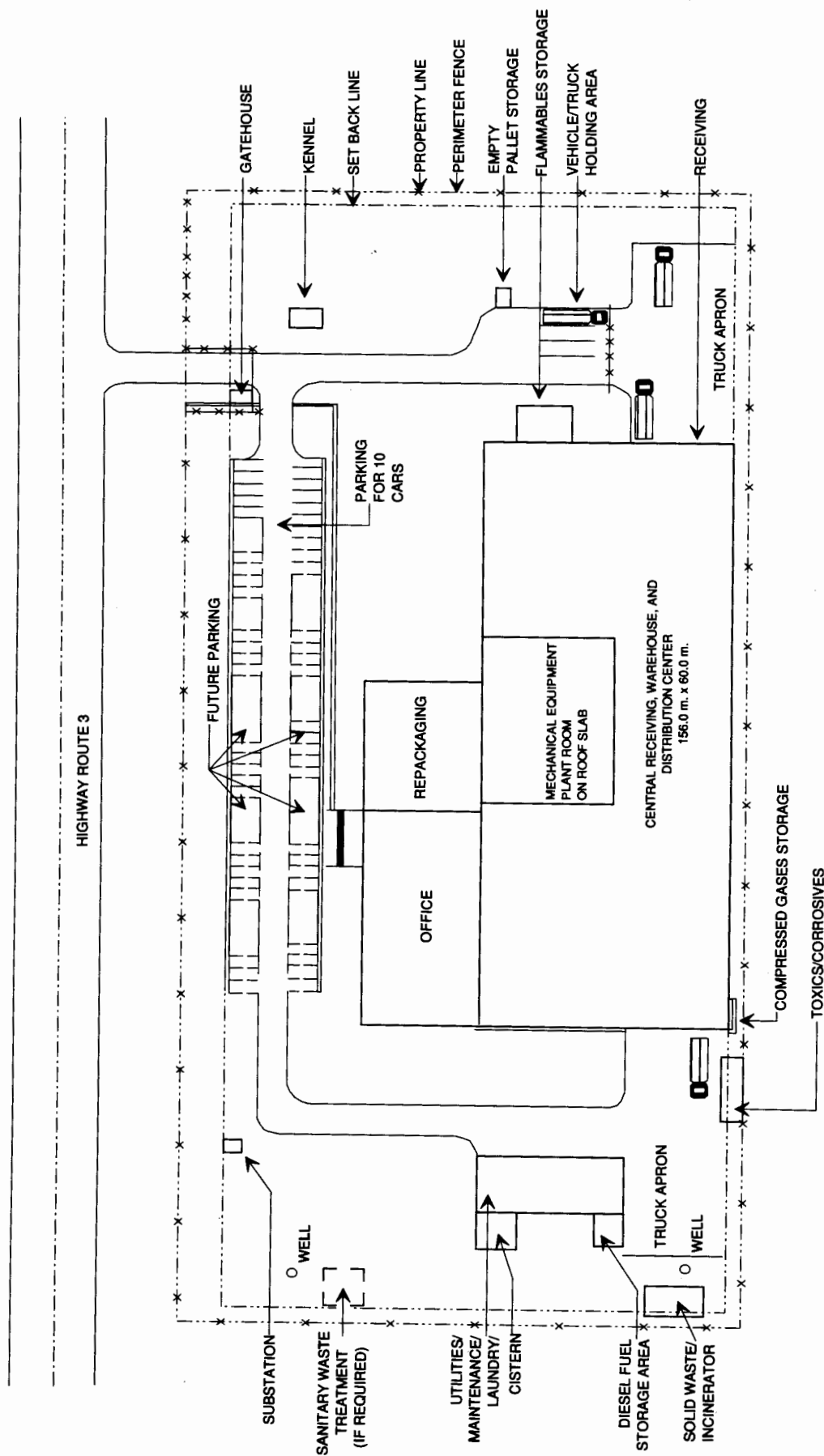
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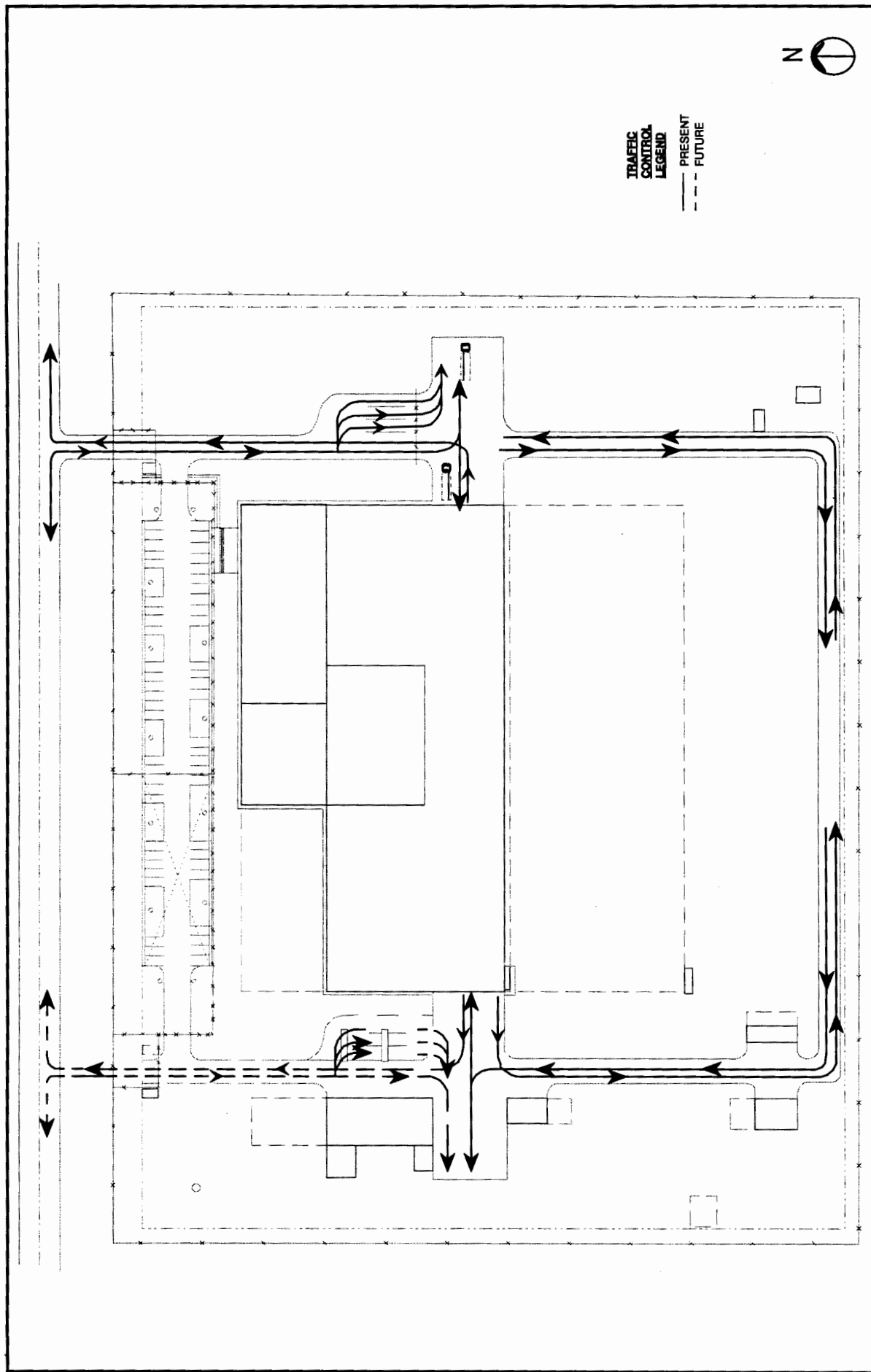
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IBD-2





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 OF VOLUME 1.

VEHICLE CONTROL

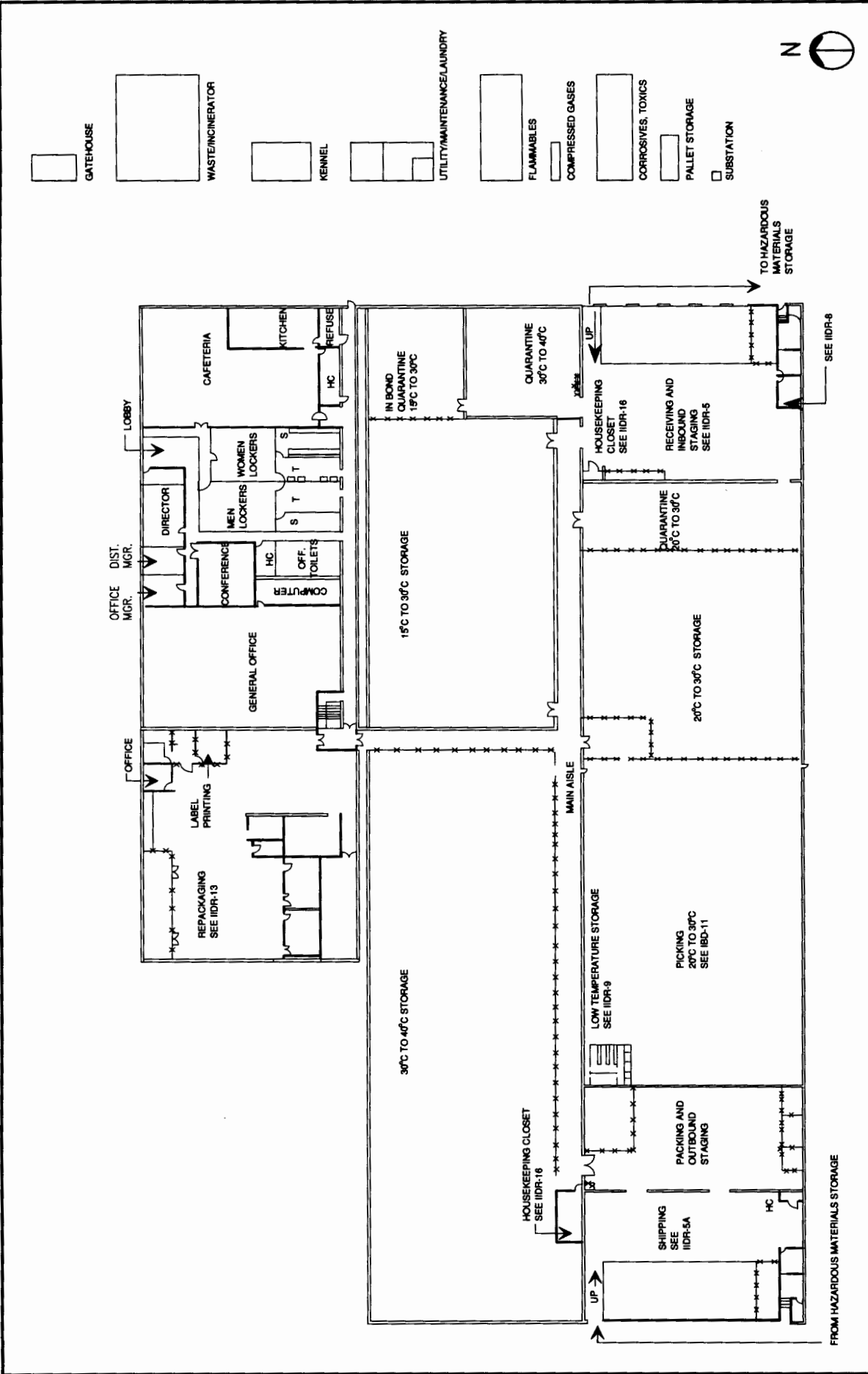
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MARCH 1, 1960

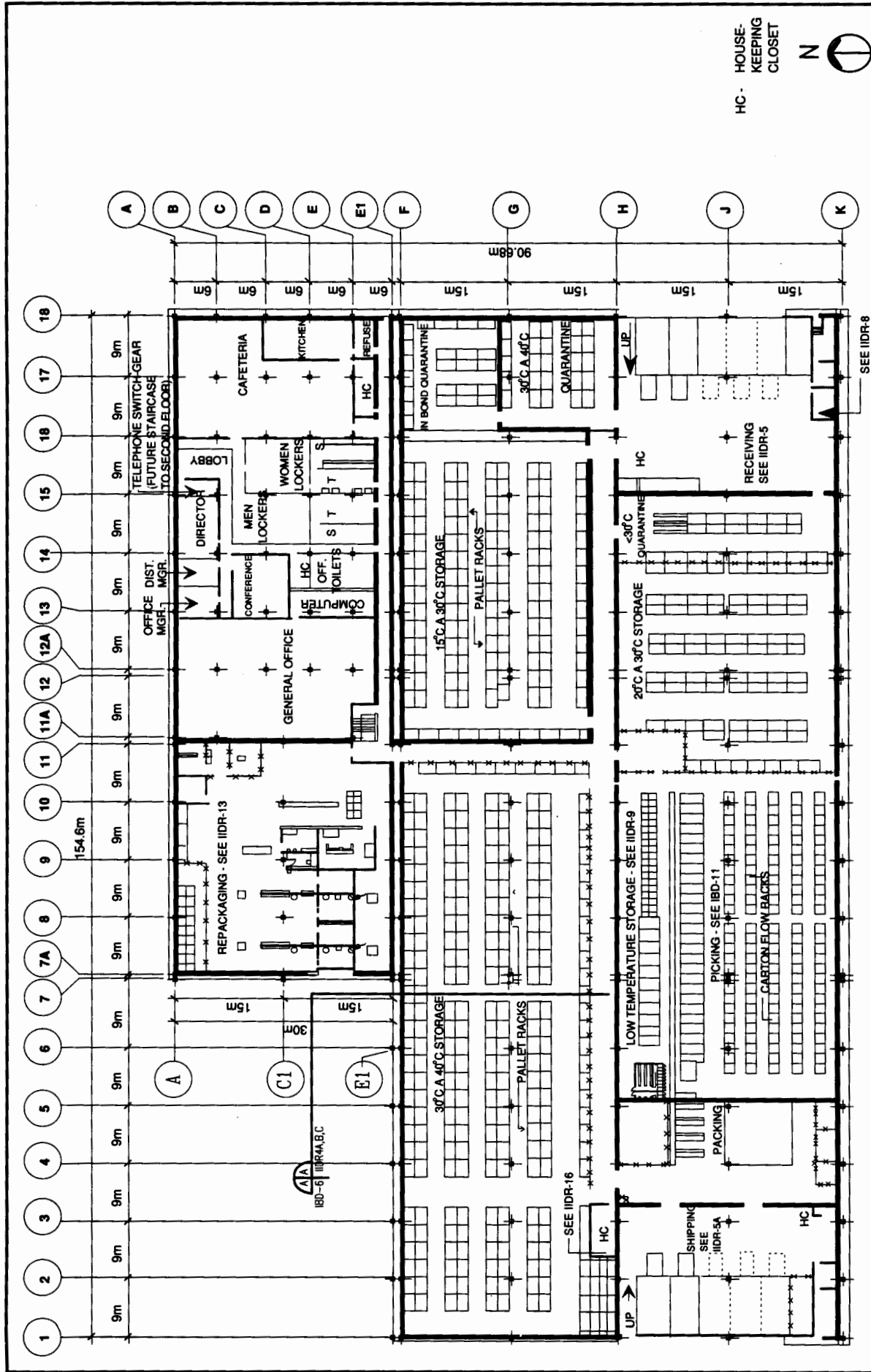
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				CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1990
					COMPUTARIZED EDITION
				SCALE: NO SCALE	IBD-5



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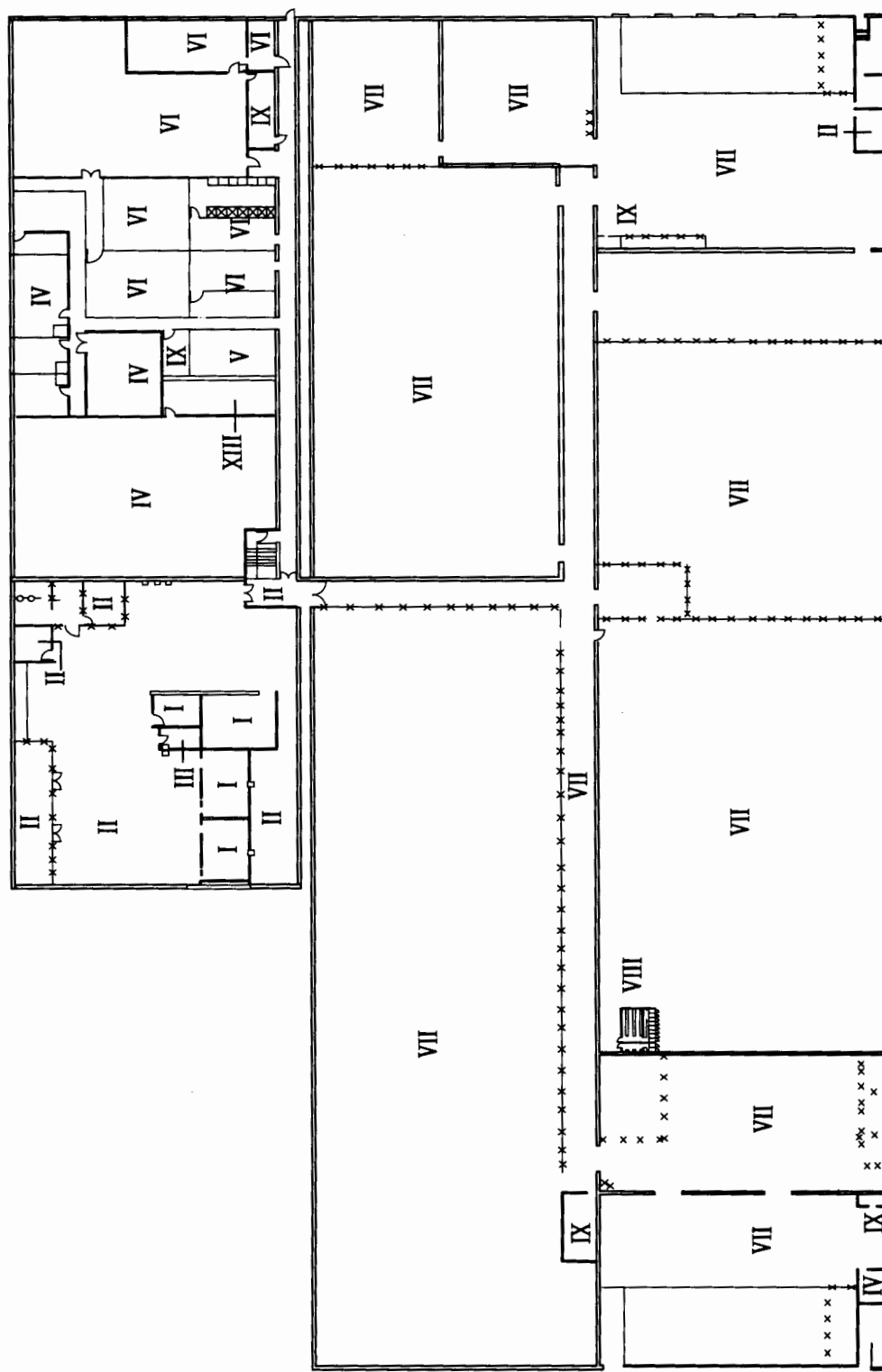
FACILITY PROCESS LAYOUT

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MARCH 1, 1960
 COMPUTERIZED
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SCALE: NO SCALE

IBD-6

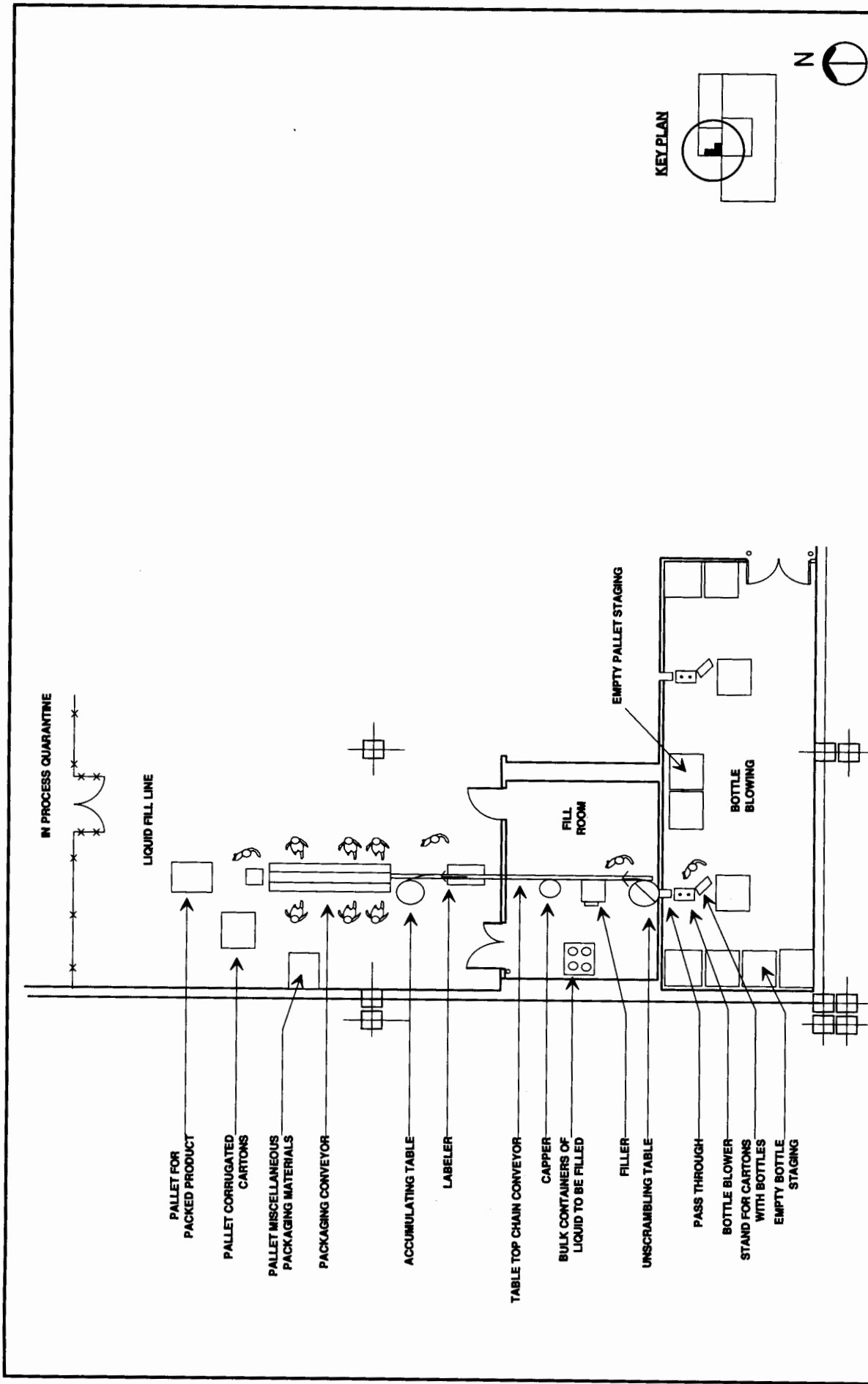


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FACILITY ROOM CLASSIFICATION	
CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1990
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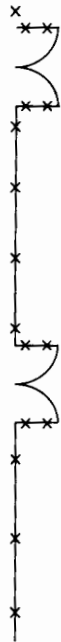
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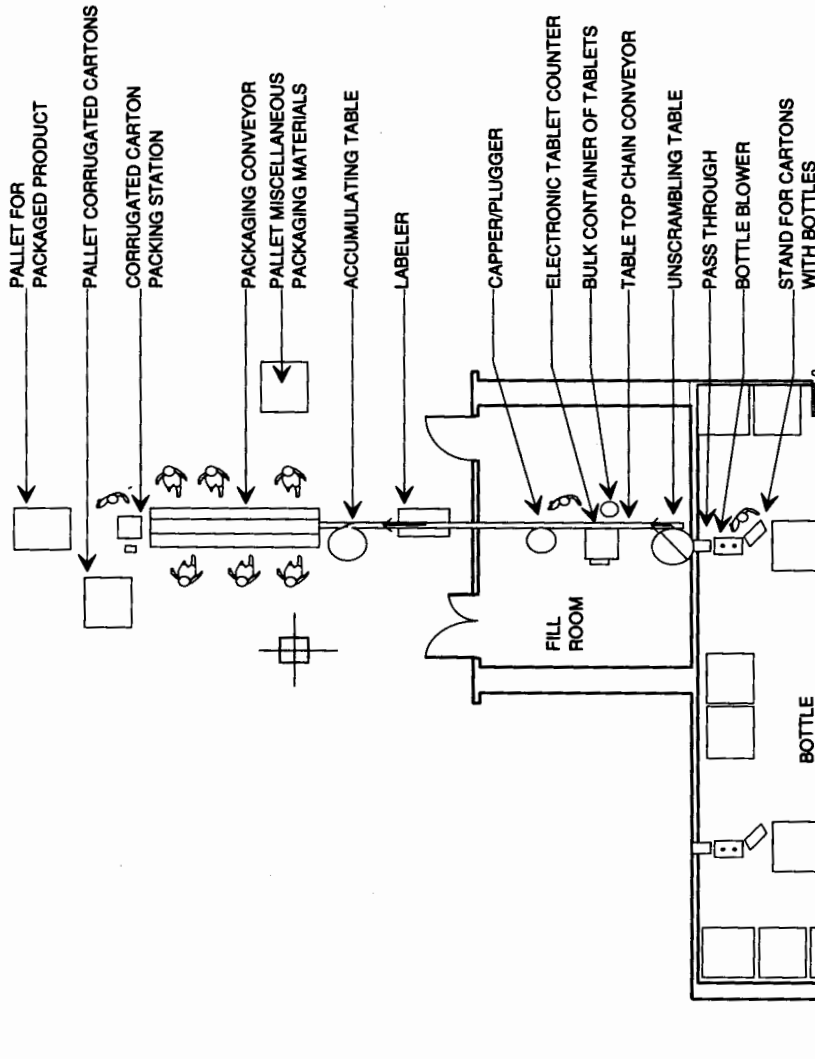
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LIQUID FILL	
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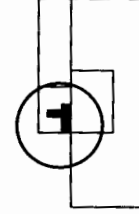
IN PROCESS QUARANTINE



TABLET FILL LINE



KEY PLAN



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TABLET FILL

CENTRAL WAREHOUSE AND
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MARCH 1, 1990

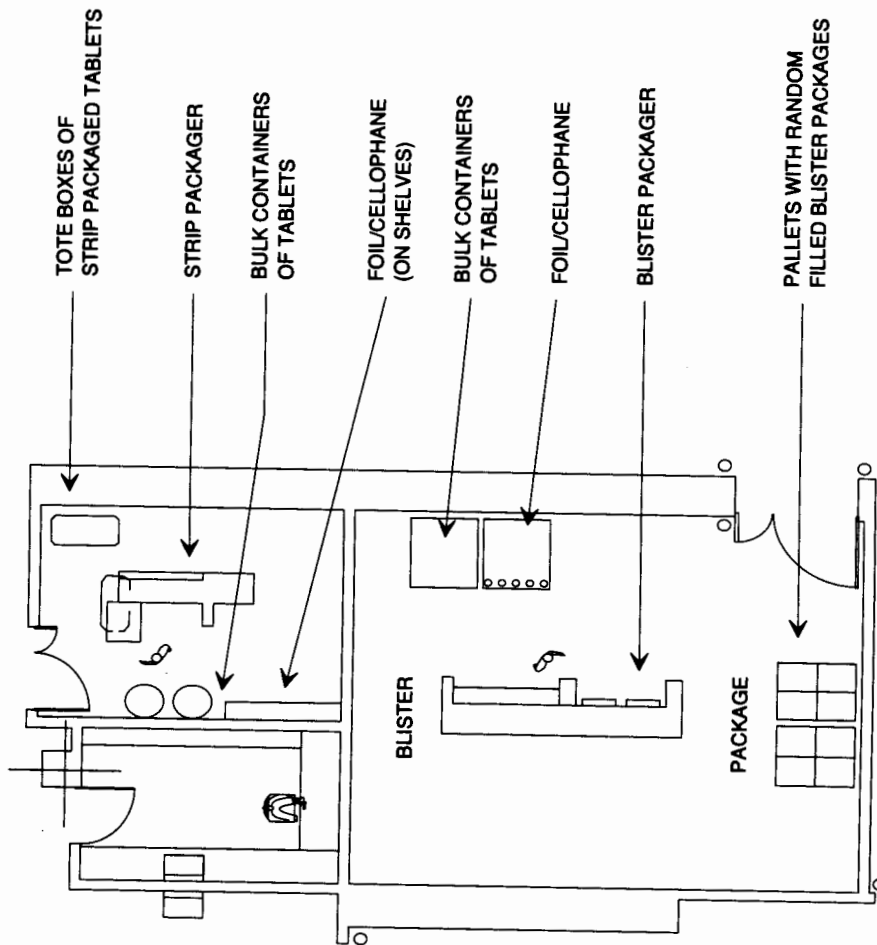
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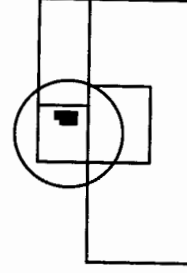
IBD-9

IN PROCESS
QUALITY
CONTROL

STRIP
PACKAGE



KEY PLAN



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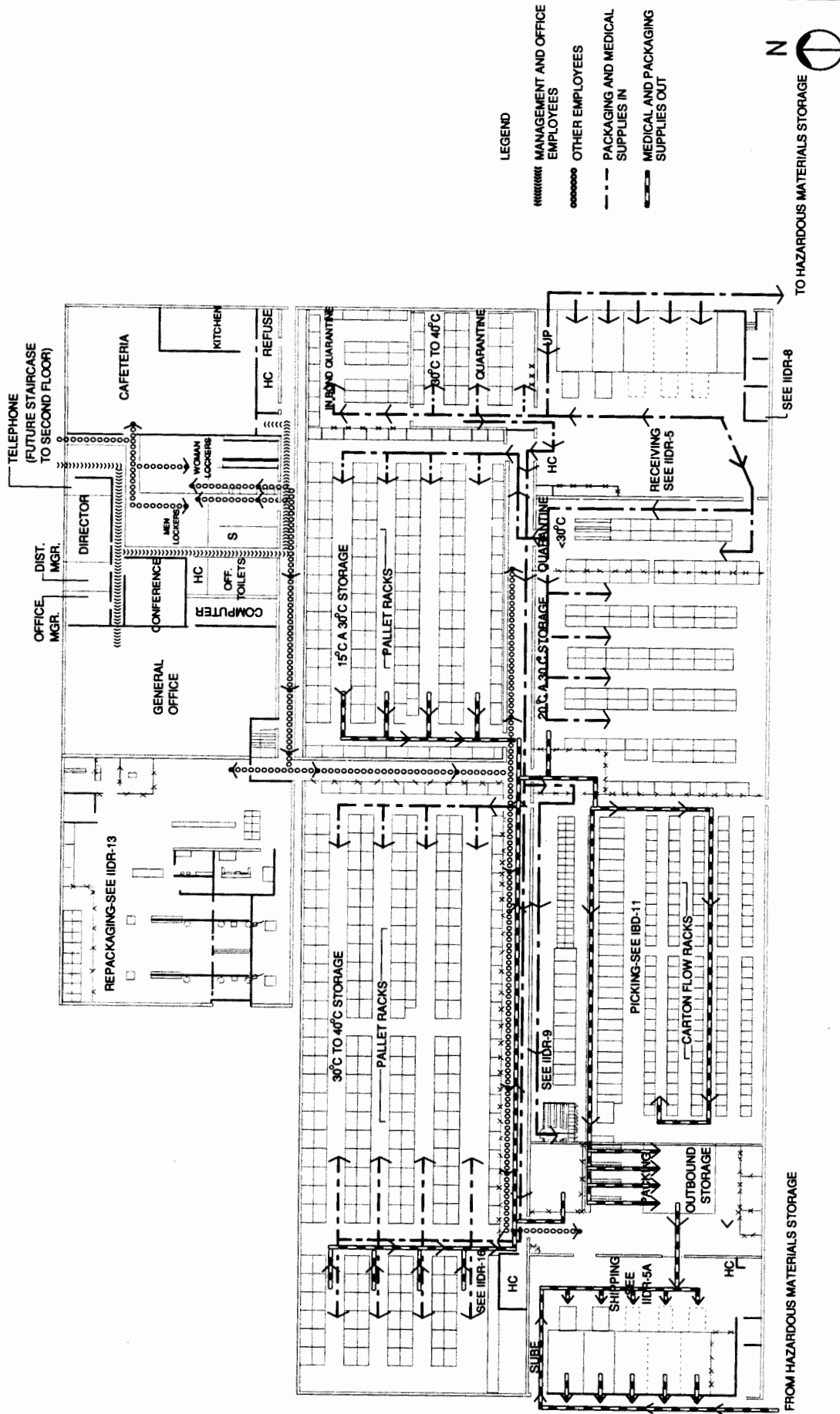
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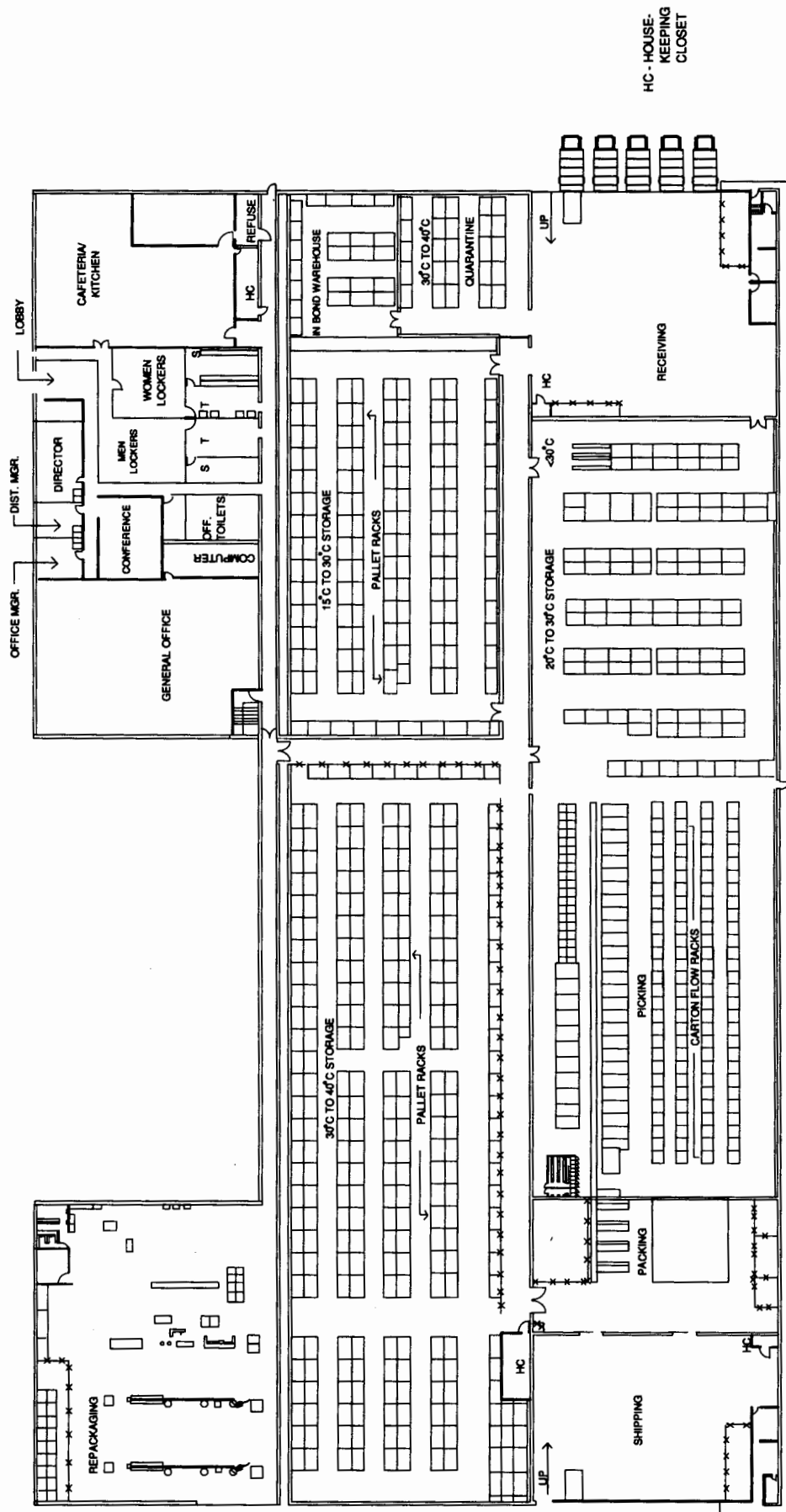
BLISTER/STRIP PACKAGING

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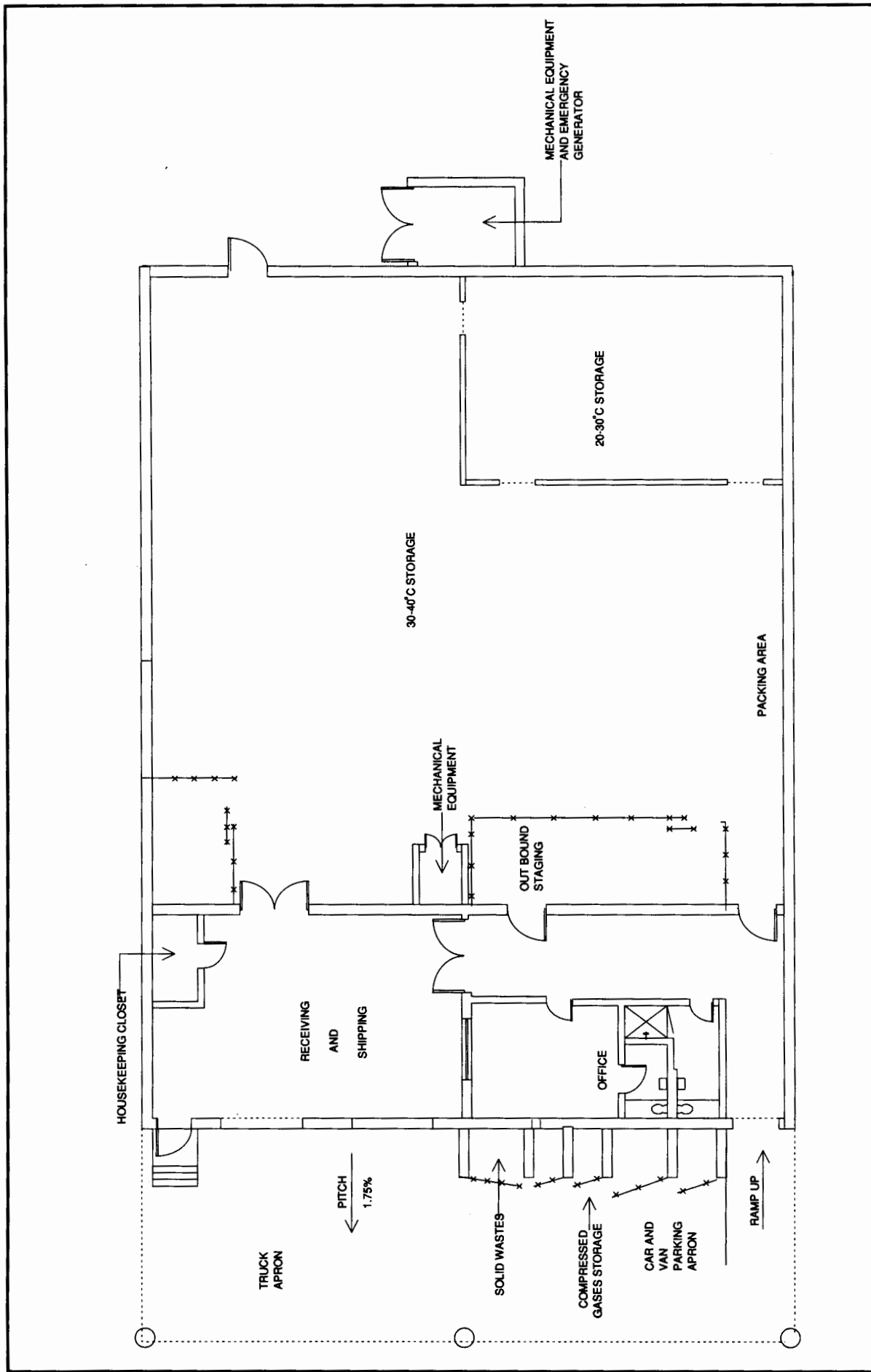
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FACILITY PLAN DONT'S

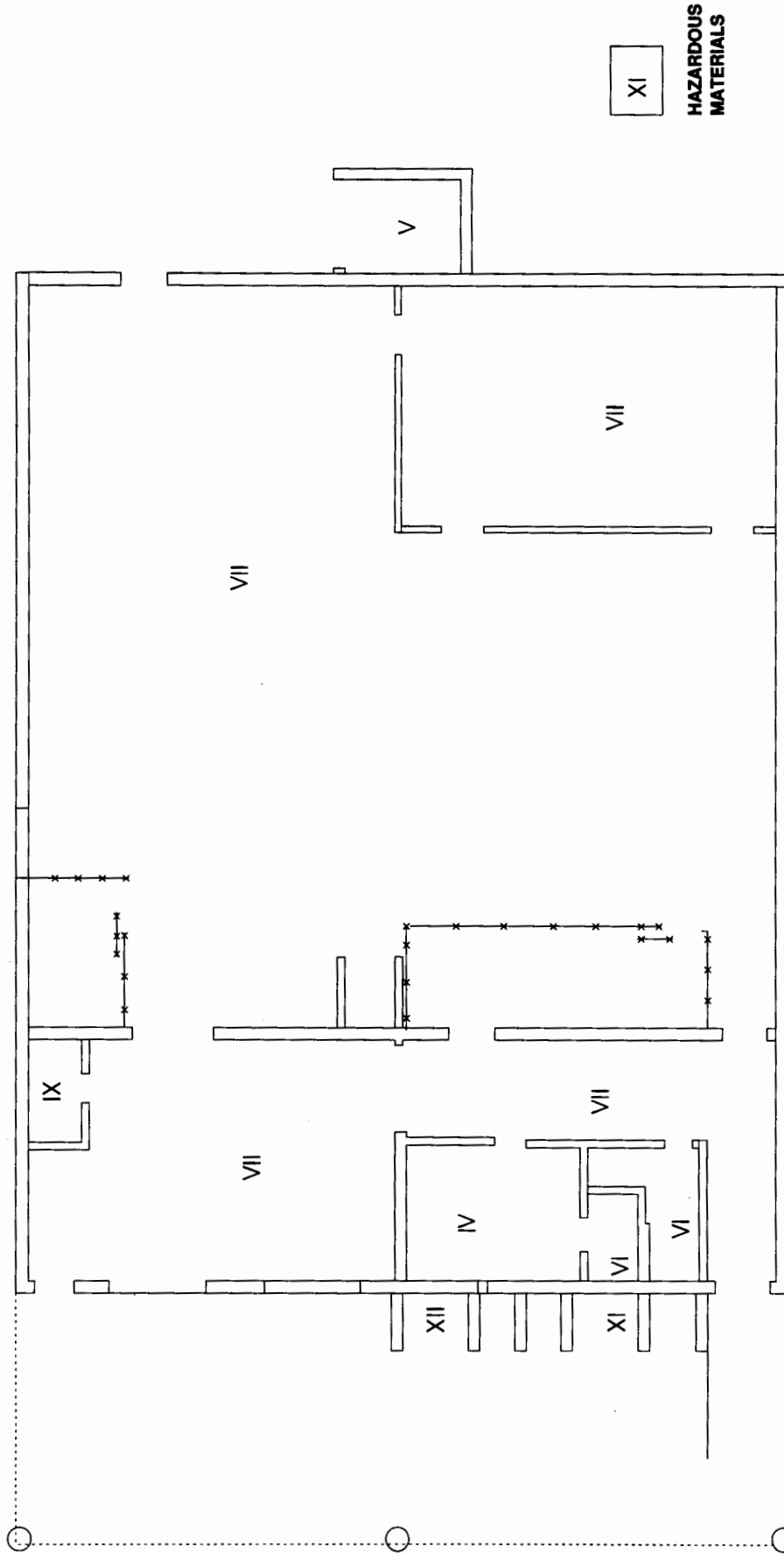
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FACILITY ROOM CLASSIFICATION

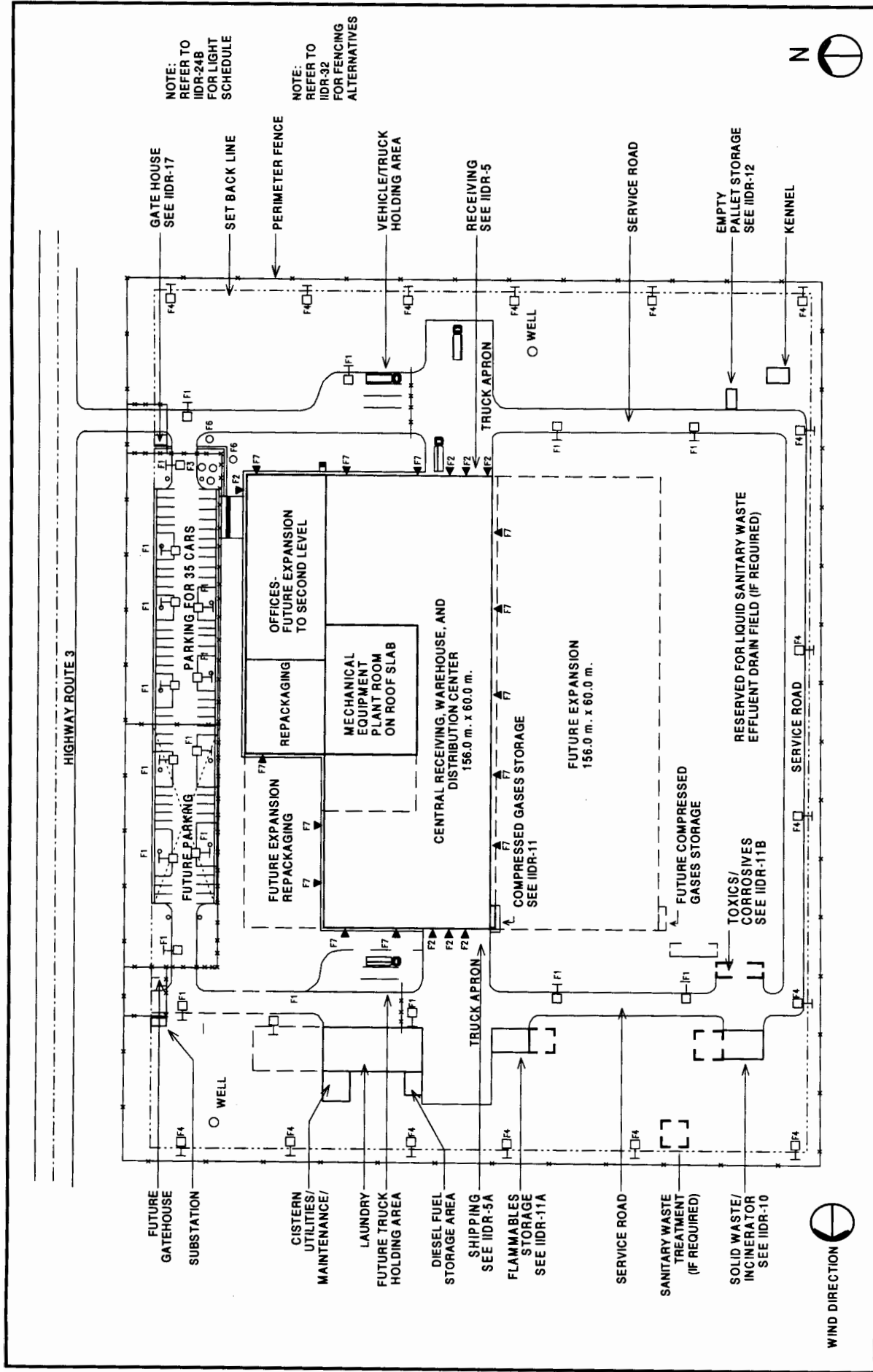
REGIONAL DISTRIBUTION CENTER
 KALTI

MARCH 1, 1980

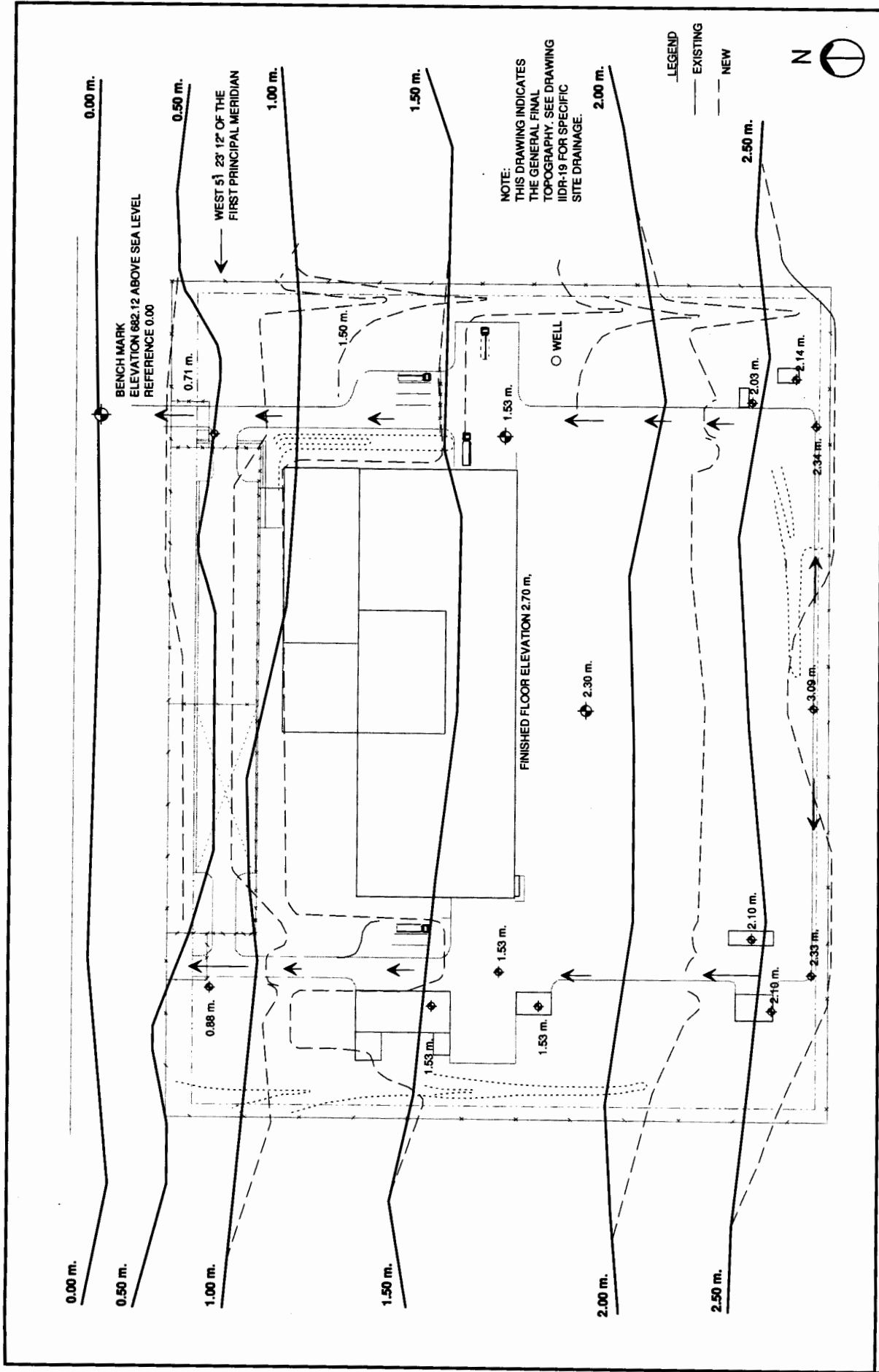
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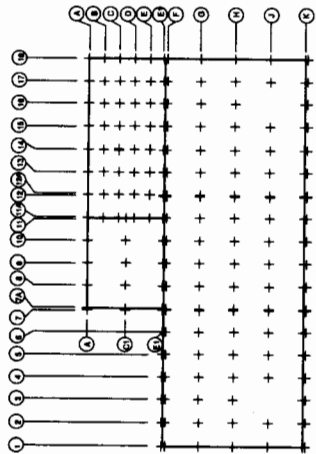
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ICD-3

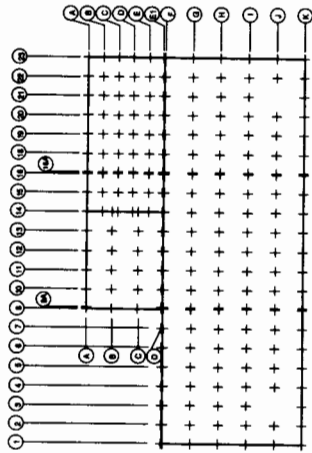
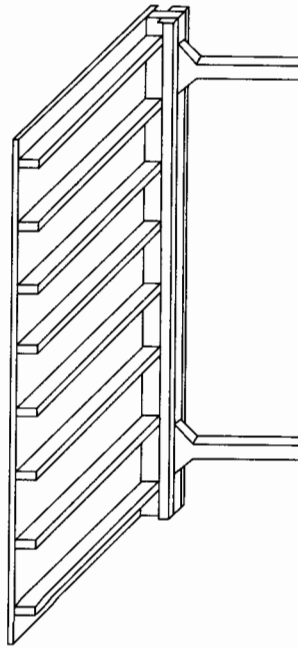


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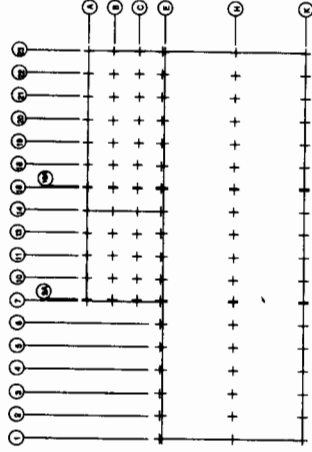
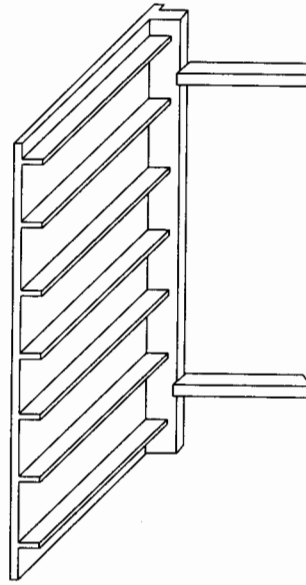




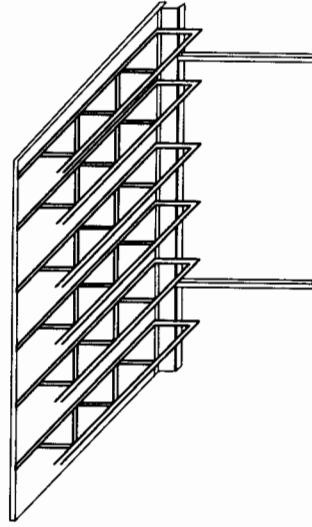
9.0m x 15.0m PRECAST CONCRETE



7.5m x 12.0m CAST-IN-PLACE CONCRETE



9.0m x 30.0m STEEL



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STRUCTURAL GRID ALTERNATIVES

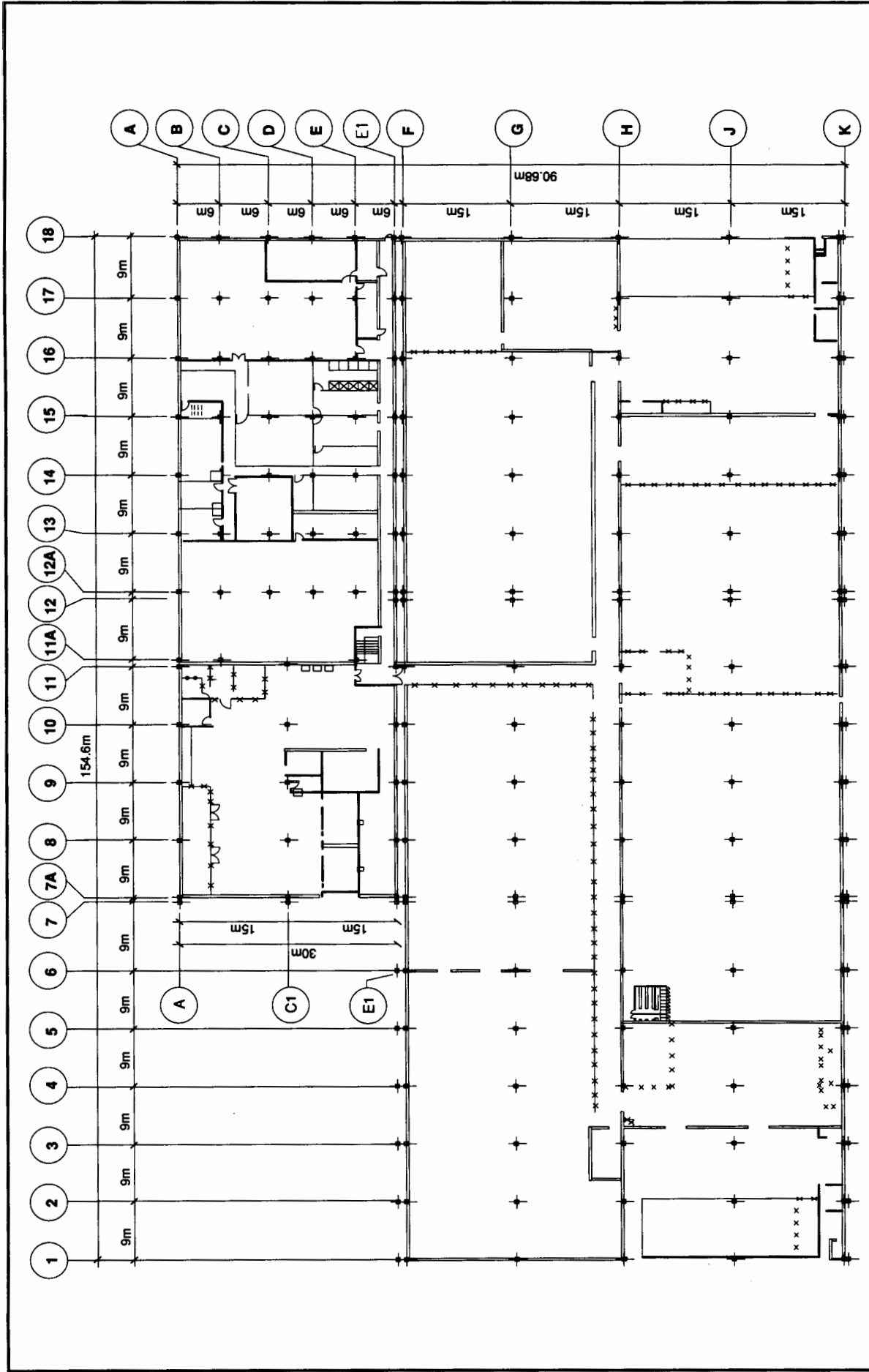
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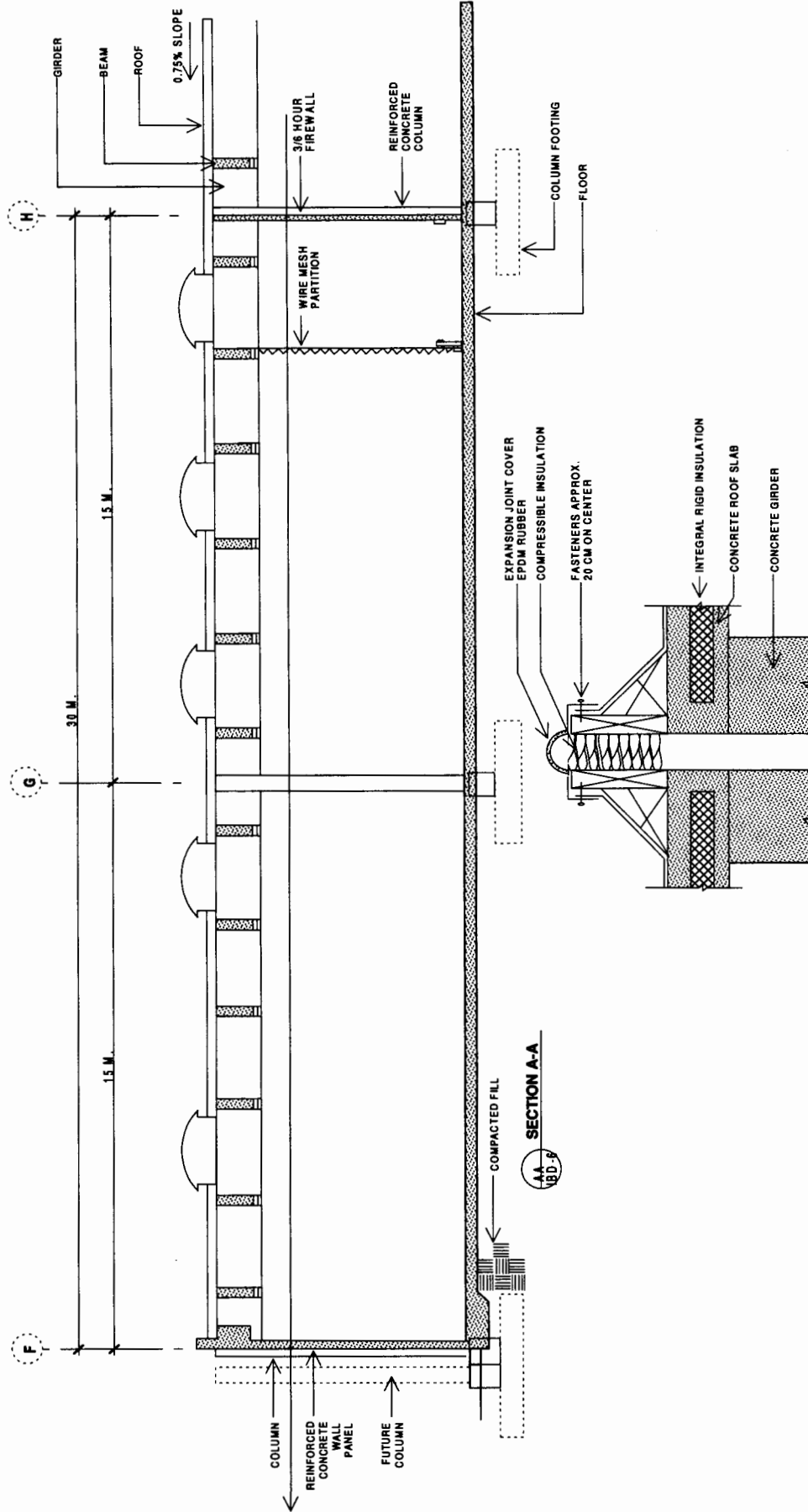
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IDR-3



PAN AMERICAN HEALTH ORGANIZATION Pan American Sanitary Bureau. Regional Office of the WORLD HEALTH ORGANIZATION	WAREHOUSE GRID CONCEPT - PRECAST CONCRETE REFERENCE TO THIS DRAWING IS MADE IN CHAPTER 6 OF VOLUME 1.	NOTE: THIS REFERENCE IS GENERIC IN NATURE AND IS INTENDED TO CONVEY CONCEPTS. IT DESCRIBES TYPICAL ARRANGEMENTS AND DETAILS DESIRABLE FOR THESE TYPES OF FACILITIES. THE RESPONSIBLE PROJECT ARCHITECT/ENGINEER SHALL ESTABLISH ALL DIMENSIONS AND CONDITIONS. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION.
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ALTERNATIVE STRUCTURE

EXPANSION JOINT DETAIL - PRECAST

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SECTION-PRECAST CONCRETE

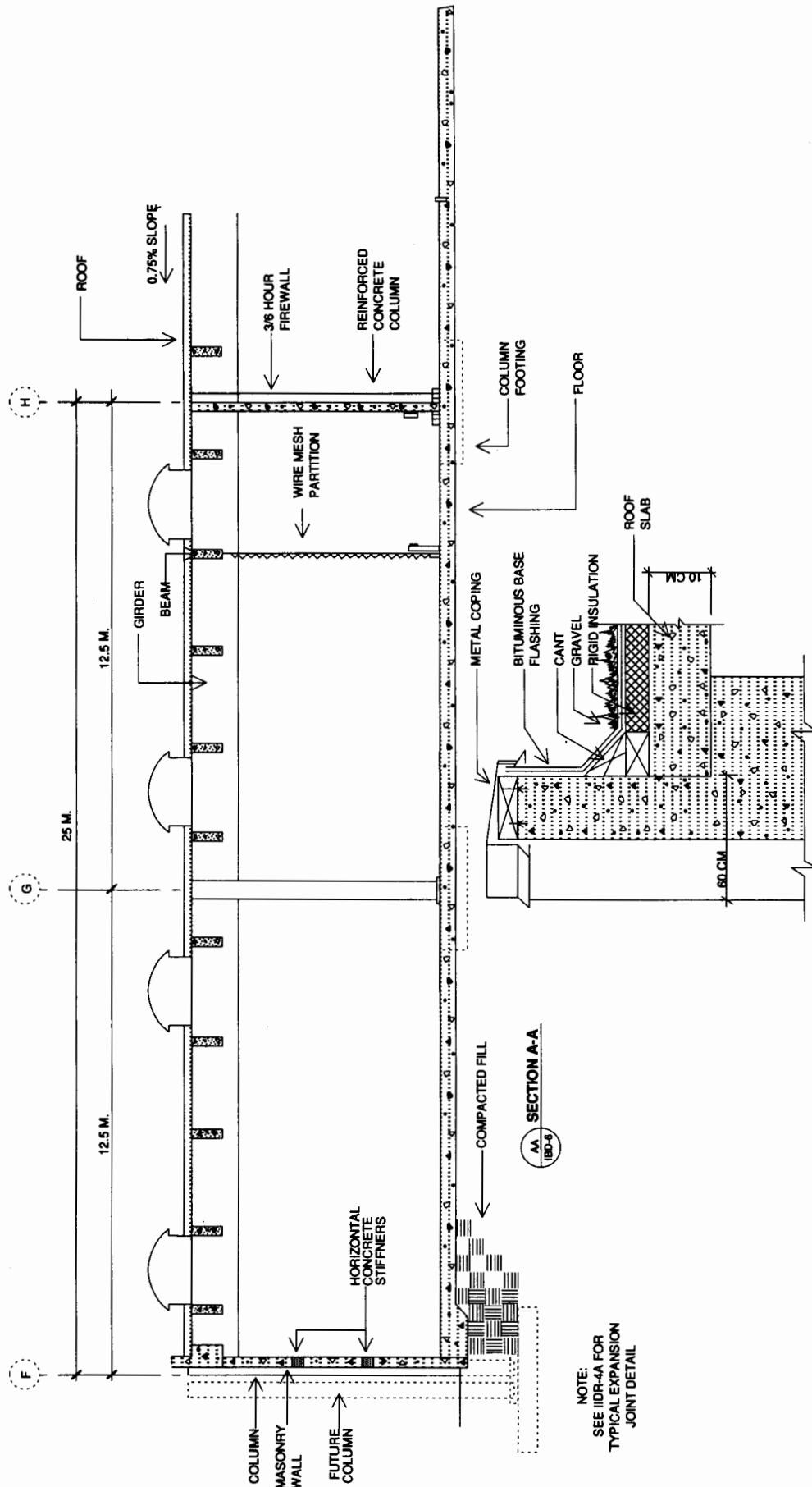
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MARCH 1, 1990

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 EDITION

SCALE: NO SCALE

IDR-4A



PARAPET DETAIL - CAST IN PLACE

ALTERNATIVE STRUCTURE

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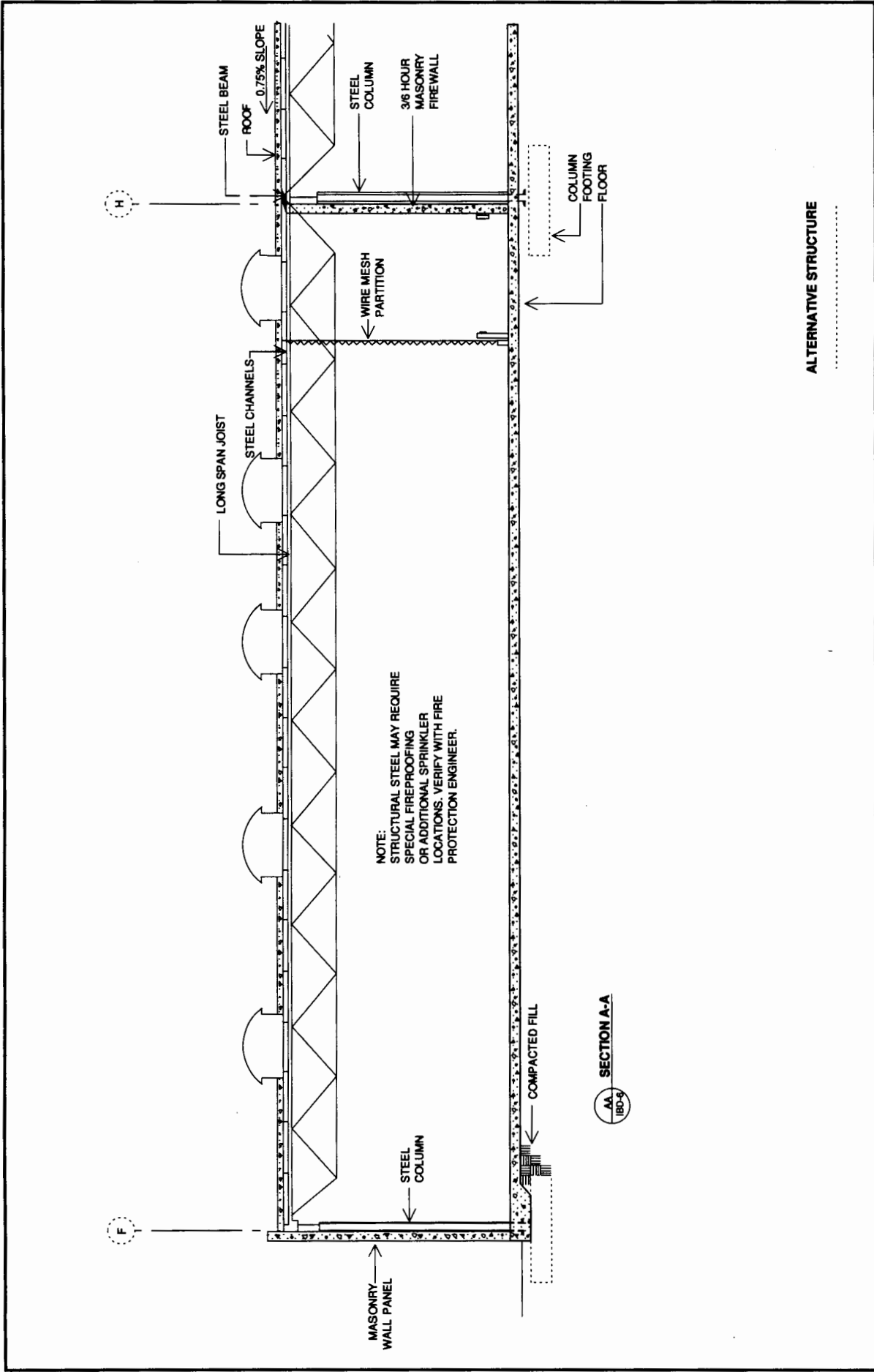
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SECTION-CAST-IN-PLACE

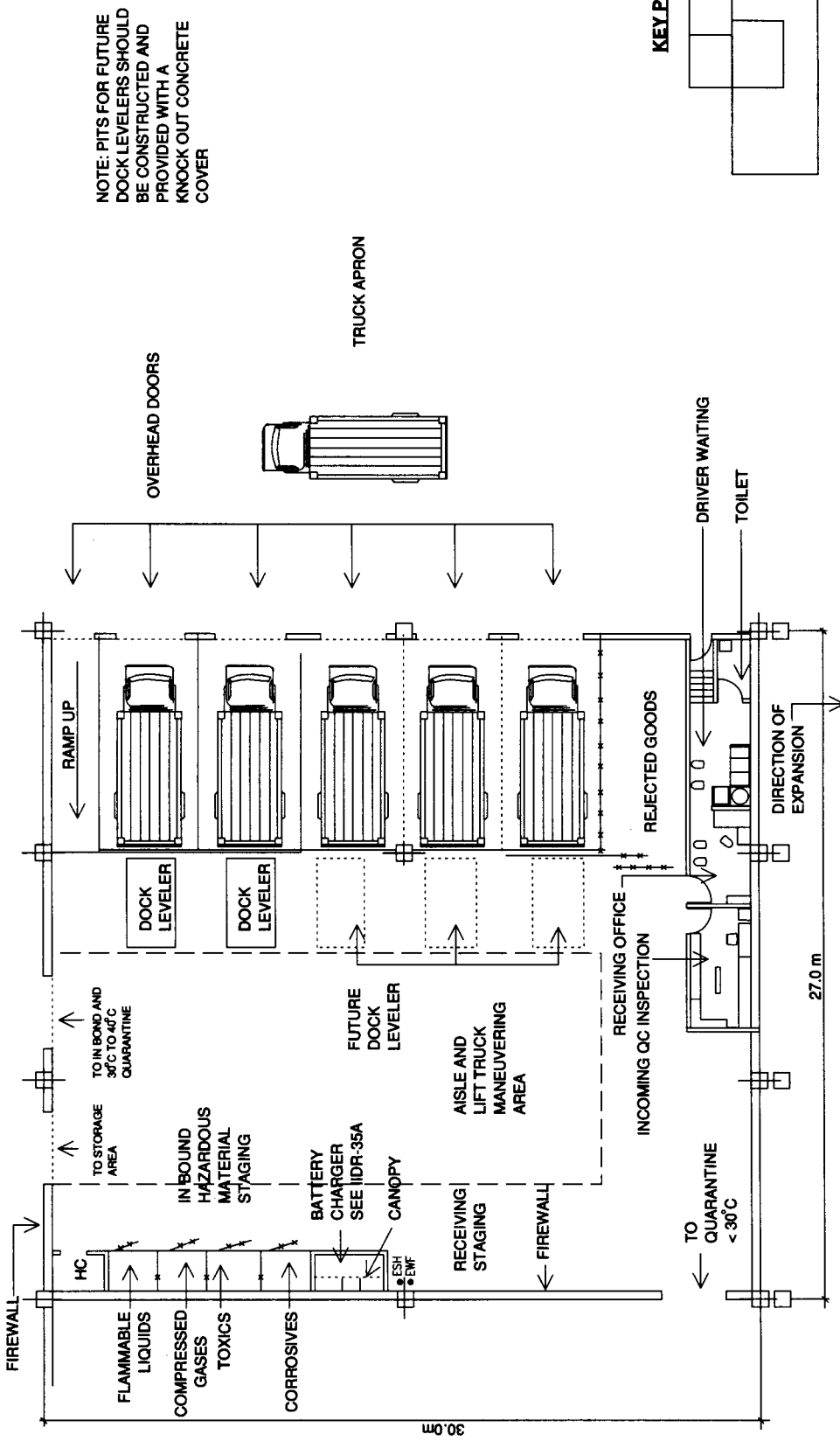
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SECTION-STEEL FRAME											
CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1990										
SCALE: NO SCALE	COMPUTARIZED EDITION										
IIDR-4C											

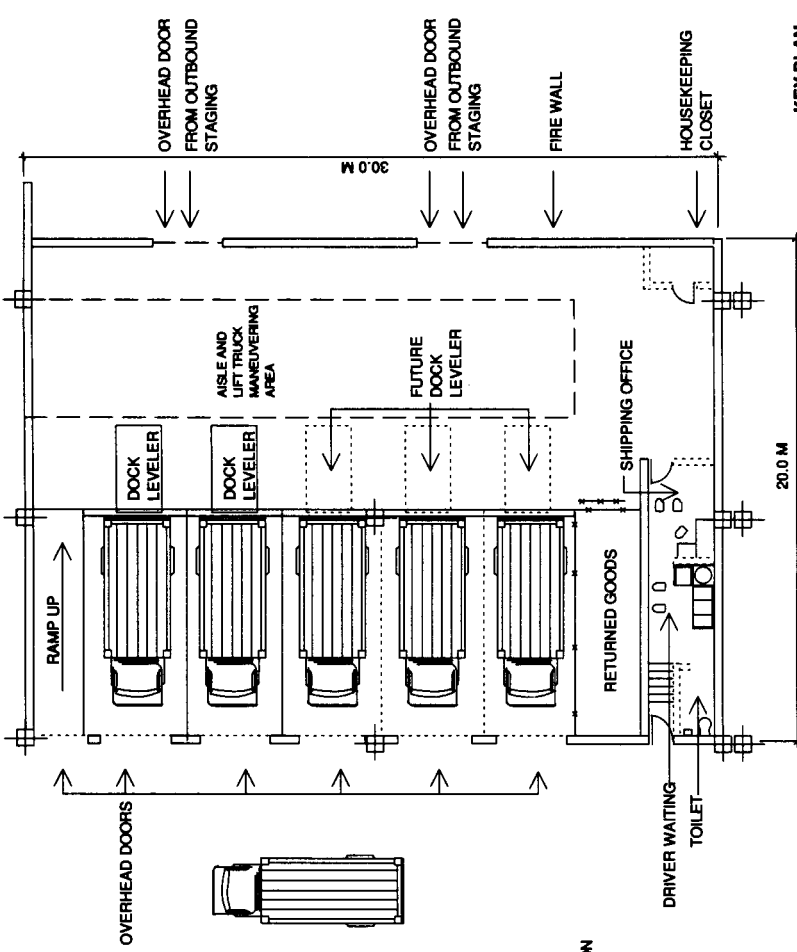


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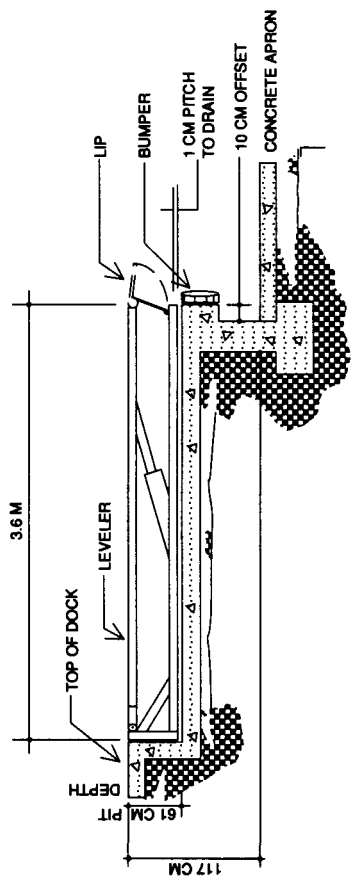
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REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 6, 7, 9, 20, 27 OF VOLUME 1.

RECEIVING, INCOMING QC INSPECTION
 CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO
 SCALE: NO SCALE
 MARCH 1, 1980
 COMPUTERIZED EDITION
 IDR-5



NOTE: PITS FOR FUTURE DOCK LEVELERS SHOULD BE CONSTRUCTED AND PROVIDED WITH A KNOCK OUT CONCRETE COVER.



DOCK LEVELER DETAIL

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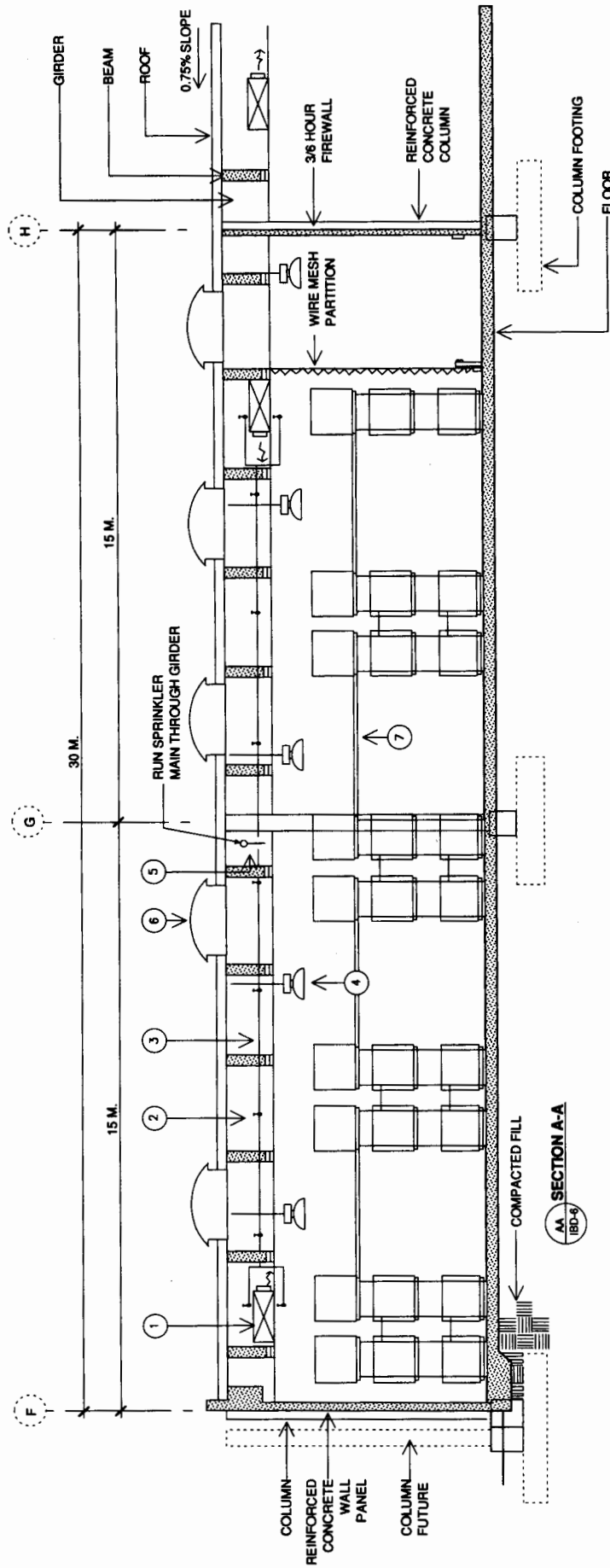
REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 6, 7, 18 OF VOLUME 1.

SHIPPING DOCK

CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO

SCALE: NO SCALE

MARCH 1, 1990
COMPUTERIZED
EDITION
HDR-SA



LEGEND

- | | | | |
|---|-----------------------|---|----------------------------------|
| 1 | AIR DISTRIBUTION DUCT | 5 | SPRINKLER MAIN |
| 2 | SPRINKLER HEAD | 6 | SKYLIGHT/SMOKE VENT |
| 3 | SPRINKLER CROSS MAIN | 7 | SEISMIC BRACING FOR PALLET RACKS |
| 4 | LIGHT FIXTURE | | |

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REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 9, 22, 27 OF VOLUME 1.

PALLET RACK SECTION

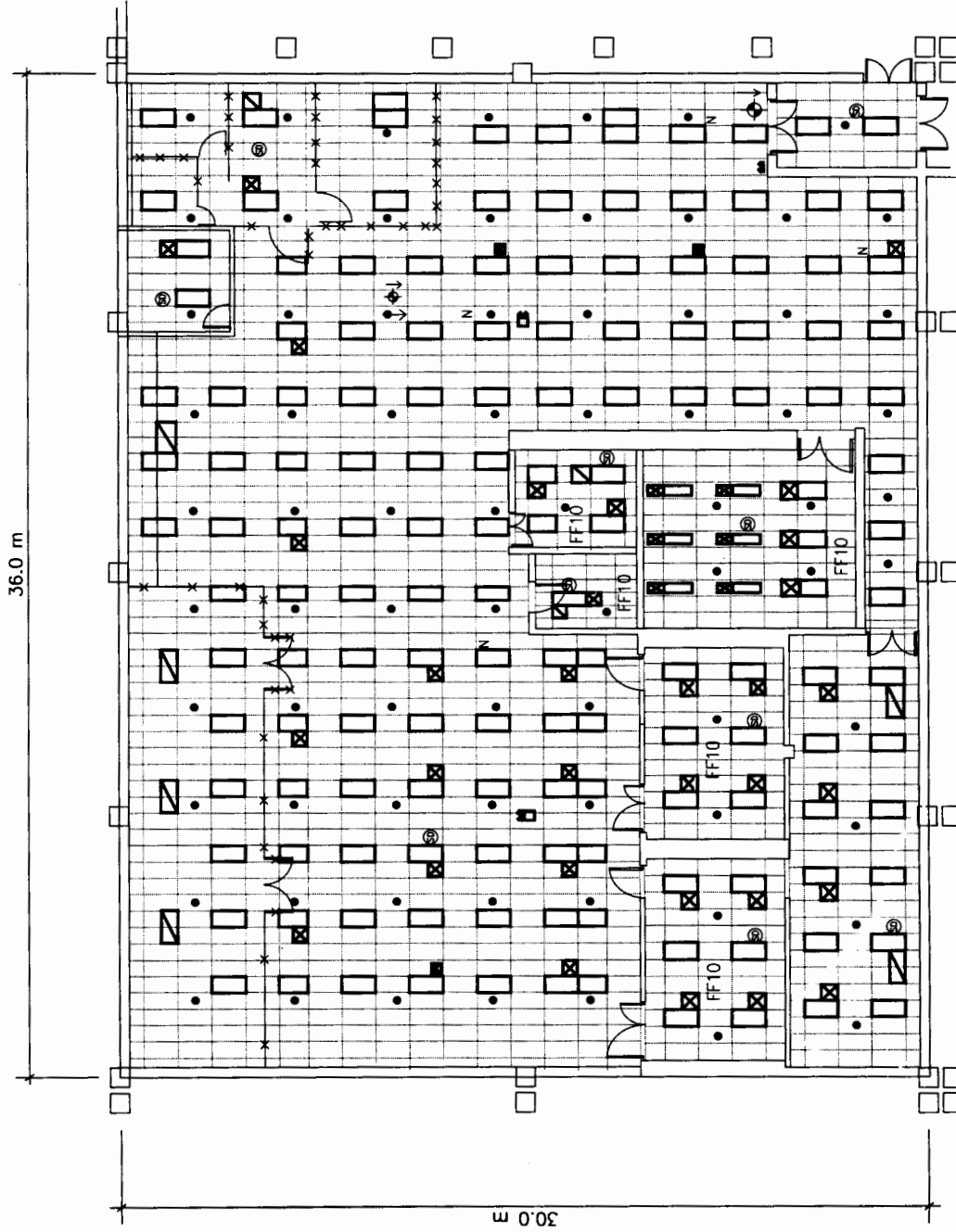
CENTRAL WAREHOUSE AND
 DISTRIBUTION CENTER, TEGALO

MARCH 1, 1990

COMPUTERIZED
 EDITION

SCALE: NO SCALE

IDR-6



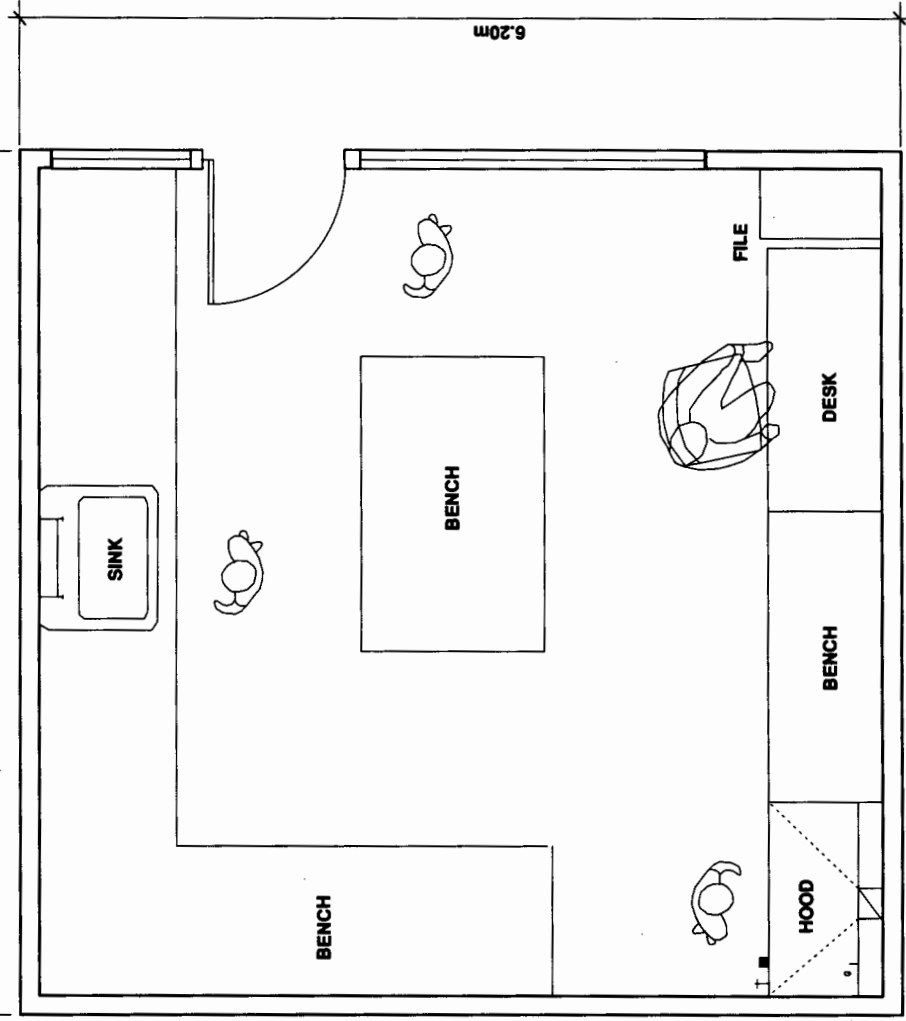
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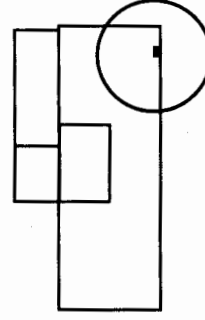
REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 9, 26, 27 OF VOLUME 1.

REFLECTED CEILING PLAN	
CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1990
SCALE: NO SCALE	COMPUTERIZED EDITION
	IDR-7

5.9m



KEY PLAN



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 CHAPTERS: 9, 27
 OF VOLUME 1.

INCOMING QC INSPECTION

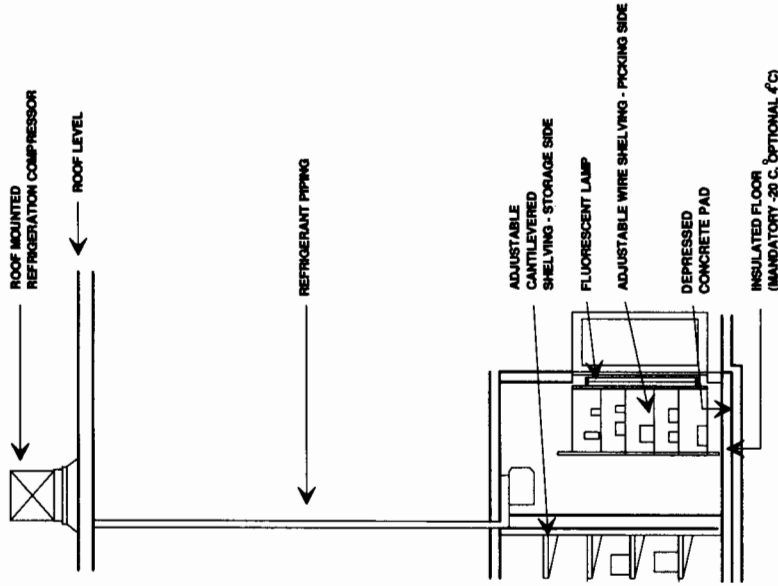
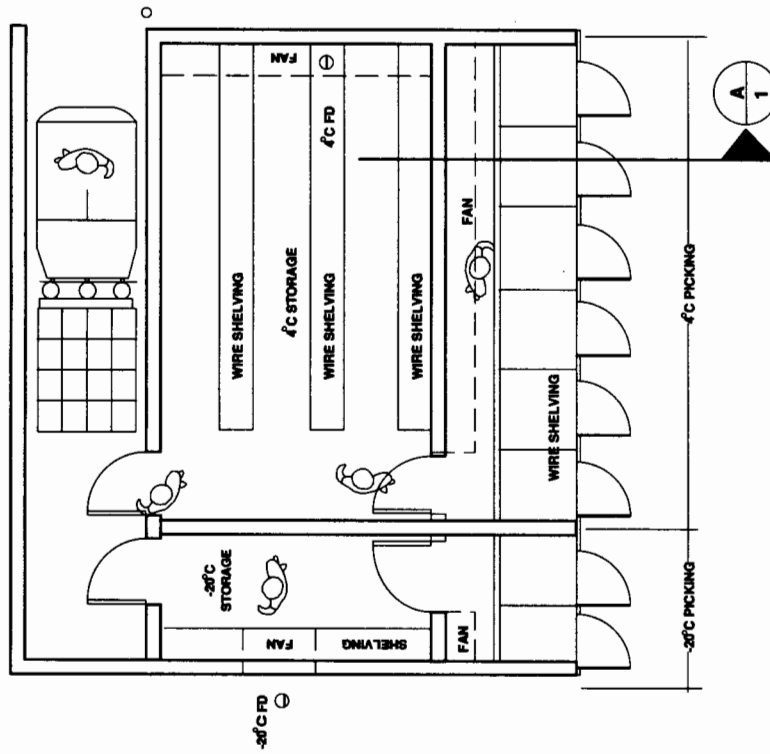
CENTRAL WAREHOUSE AND
 DISTRIBUTION CENTER-TEGALO

MARCH 1, 1990

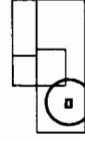
COMPUTERIZED
 EDITION

SCALE: NO SCALE

HDR-9



KEY PLAN



SECTION
A
1

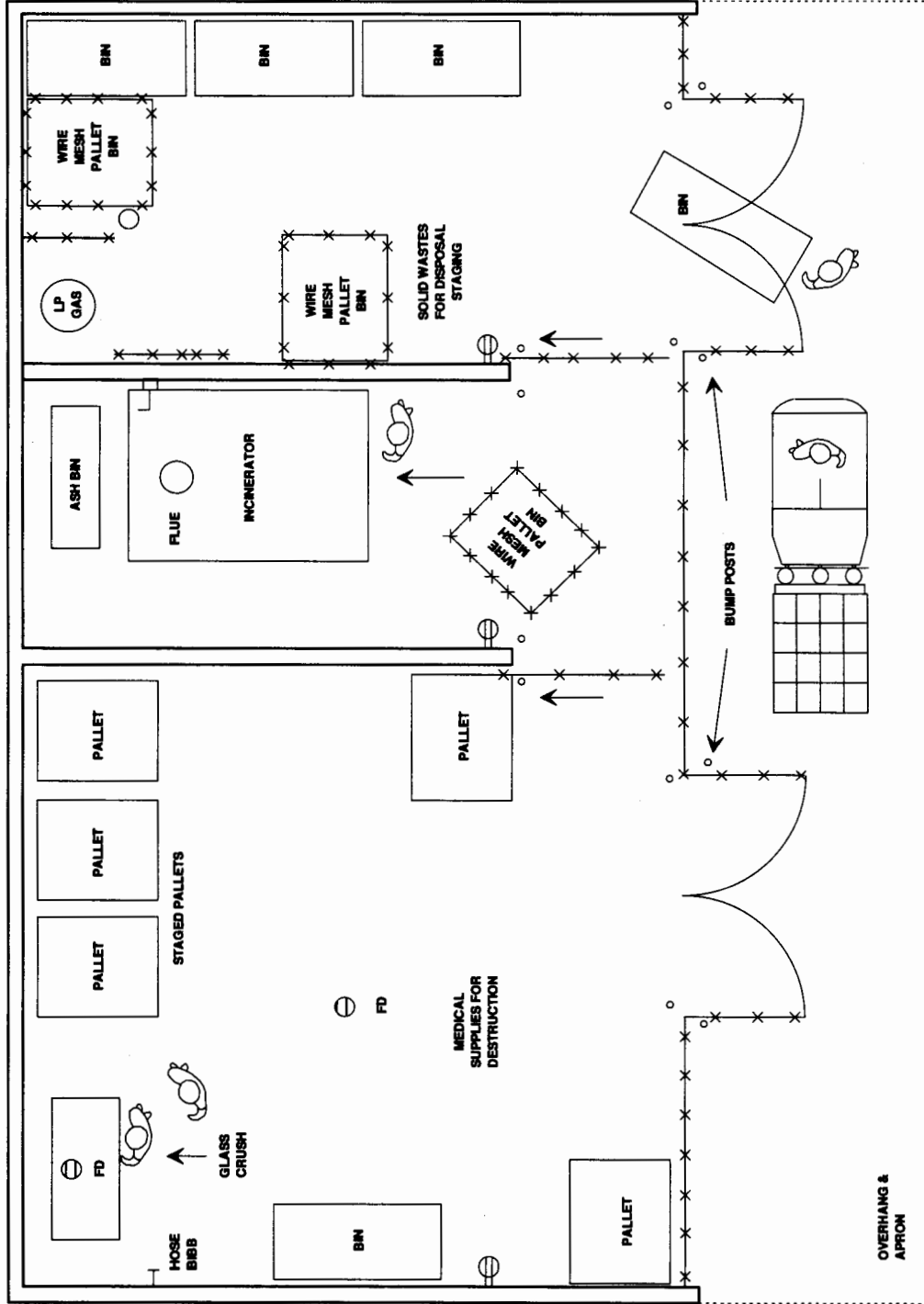
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REFERENCE TO THIS
DRAWING IS MADE IN
CHAPTERS: 6, 7, 8,
26 OF VOLUME 1.

LOW TEMPERATURE STORAGE/PICK

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	COMPUTERIZED
	EDITION
SCALE: NO SCALE	
HDR-9	



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REFERENCE TO THIS
 DRAWING IS MADE IN
 CHAPTERS: 7, 8 OF
 VOLUME 1.

SOLID WASTE DISPOSAL

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 DISTRIBUTION CENTER-TEGALO

MARCH 1, 1990

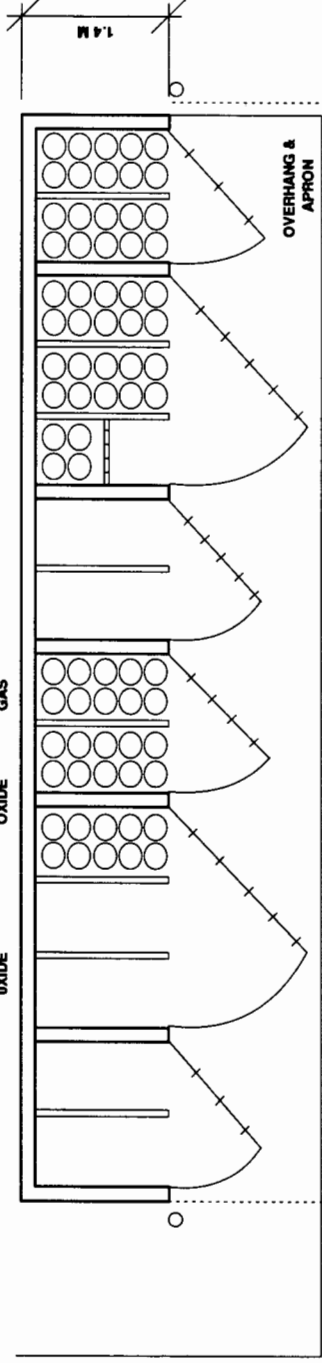
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 EDITION

SCALE: NO SCALE
 EDR-10

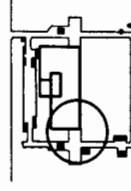
EMPTY CYLINDERS

FULL CYLINDERS

OXYGEN ALL OTHER GASES NITROUS OXIDE 88/12 ETHYLENE GAS LIQUID PETROLEUM OXYGEN



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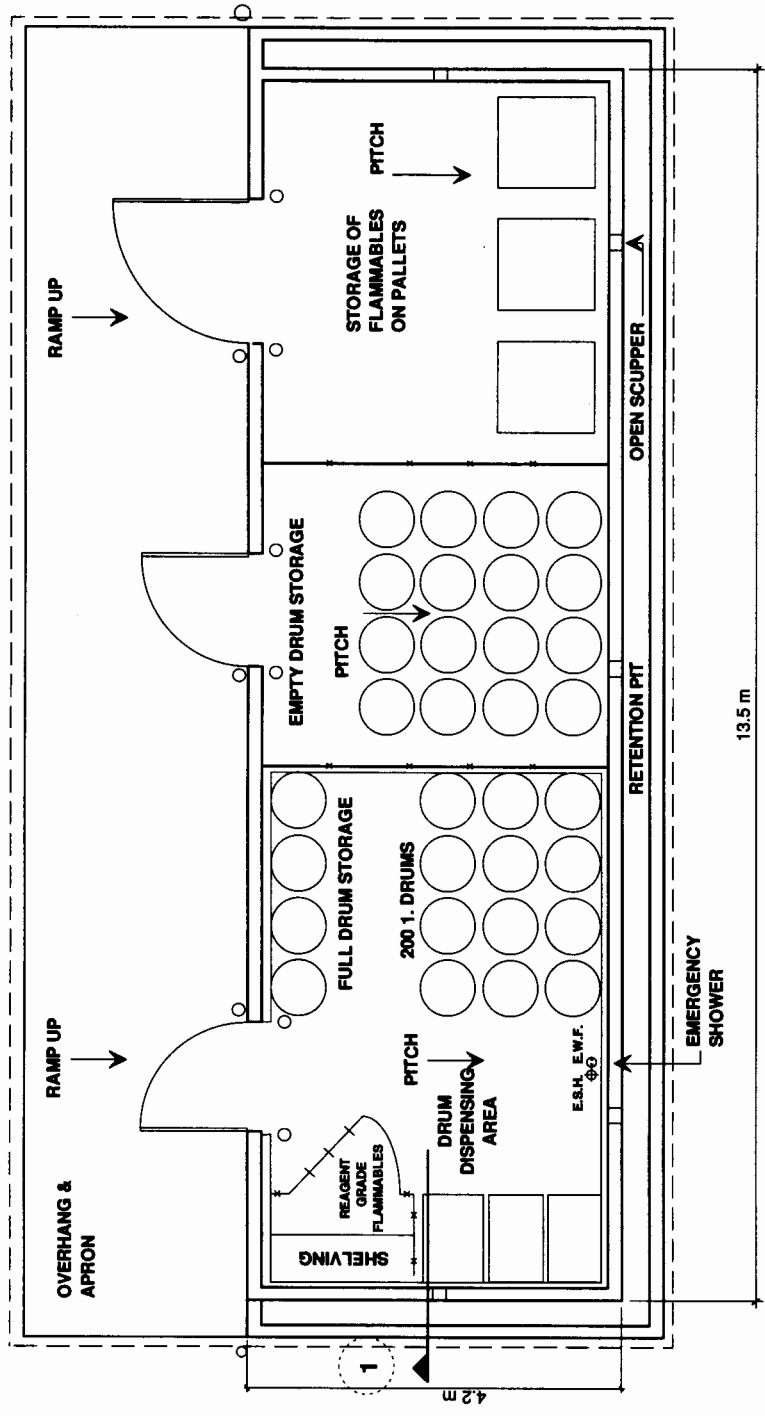
REFERENCE TO THIS
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 CHAPTERS: 7, 8, 9,
 35 OF VOLUME 1.

HAZARDOUS MATERIAL- COMPRESSED GASES

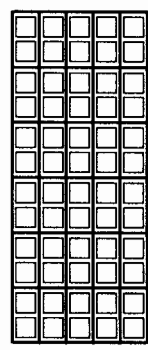
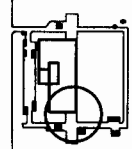
CENTRAL WAREHOUSE AND
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MARCH 1, 1990
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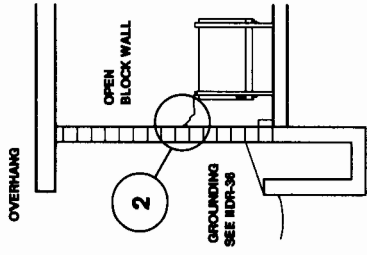
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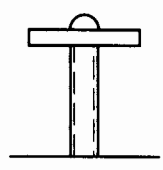
KEY PLAN



ELEVATION (PARTIAL)



SECTION 1



GROUNDING DETAIL 2

NOTE:
FOR ADDITIONAL
DETAILS SEE
IDR-36

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CHAPTERS: 6, 7, 8, 9,
20, 26, 35 OF VOLUME
1.

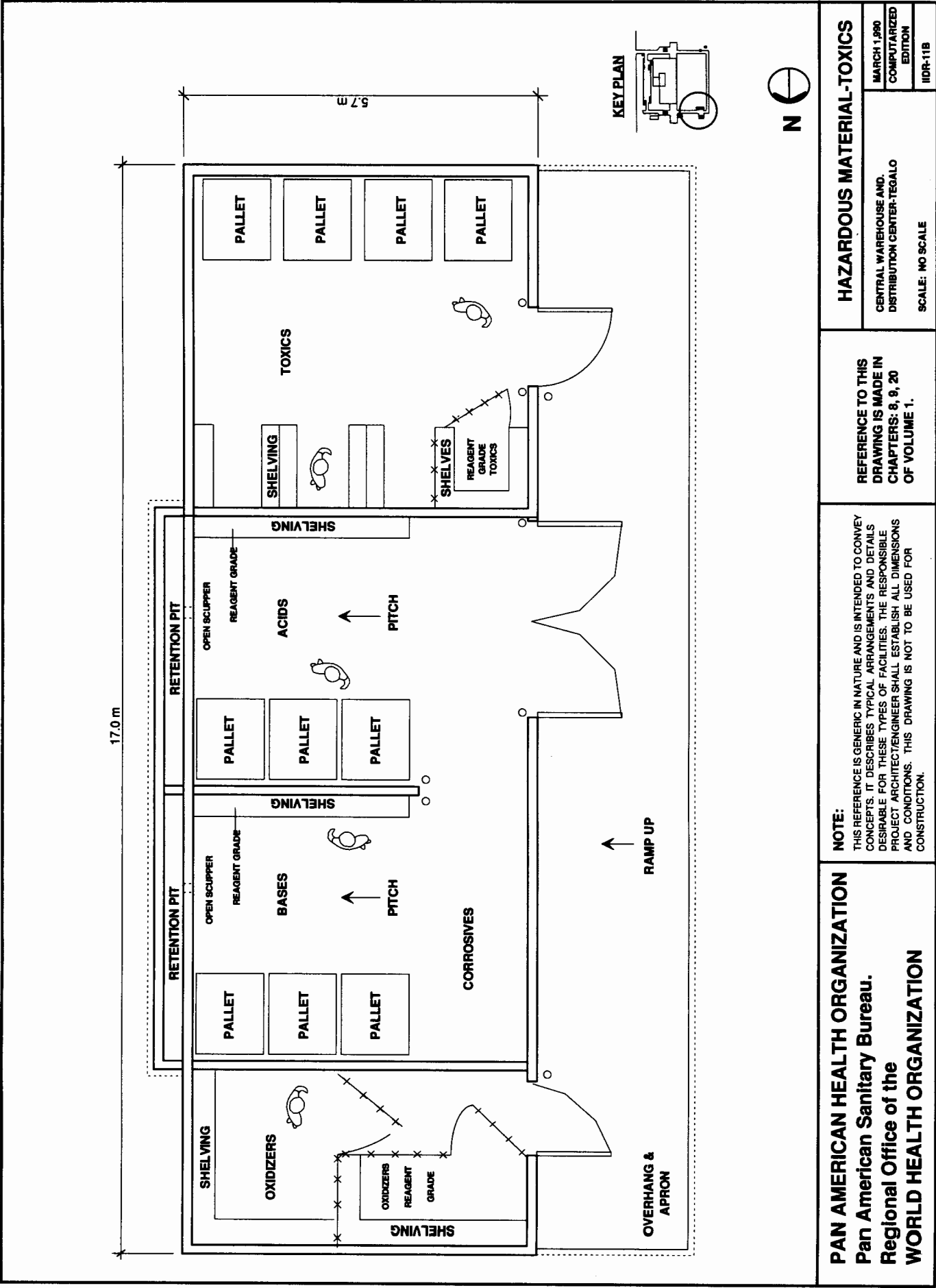
HAZARDOUS MATERIAL-FLAMMABLES

CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO

MARCH 1, 1990
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SCALE: NO SCALE

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REFERENCE TO THIS
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CHAPTERS: 8, 9, 20
OF VOLUME 1.

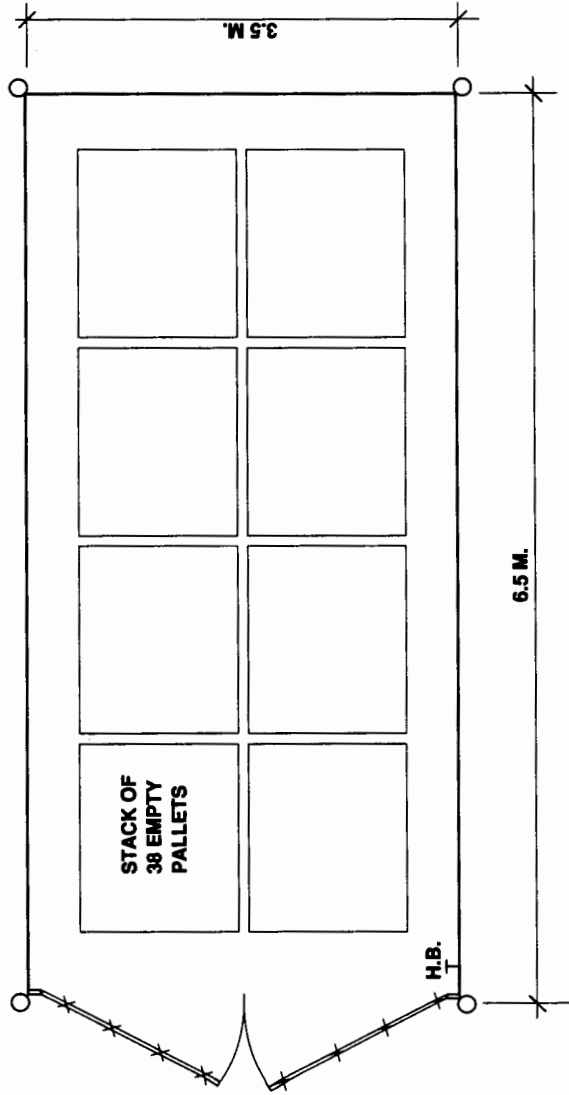
HAZARDOUS MATERIAL-TOXICS

CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO

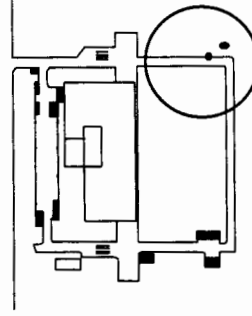
MARCH 1, 1980
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SCALE: NO SCALE

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KEY PLAN



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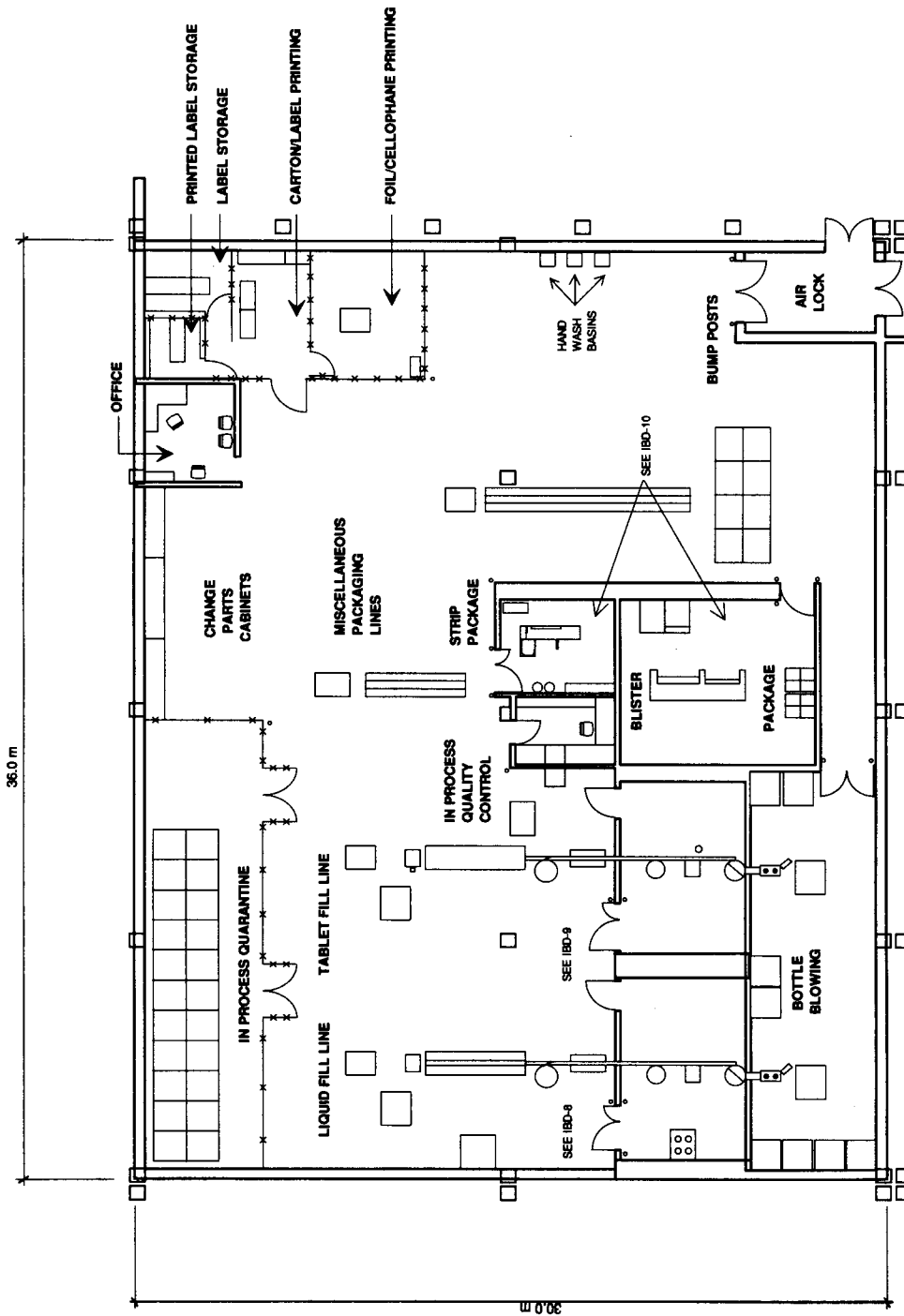
PALLET STORAGE AREA

CENTRAL WAREHOUSE AND
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MARCH 1, 1990
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REFERENCE TO THIS
DRAWING IS MADE IN
CHAPTERS: 7, 8, 9,
27 OF VOLUME 1.

REPACKAGE AREA PROCESS

CENTRAL WAREHOUSE AND
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MARCH 1, 1990

COMPUTERIZED
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SCALE: NO SCALE

IHDR-13



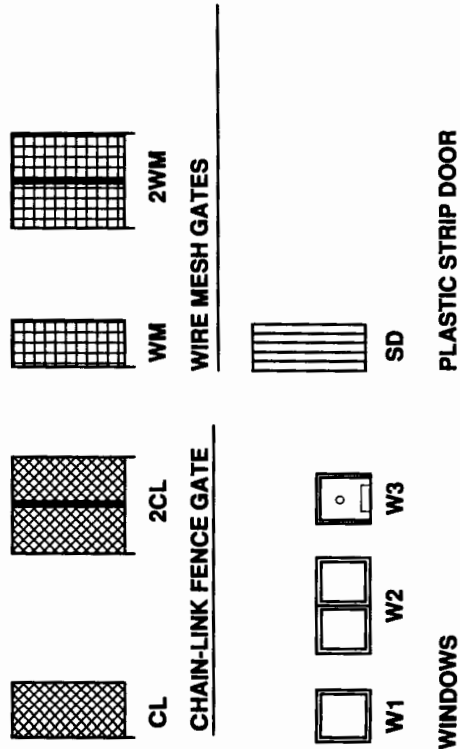
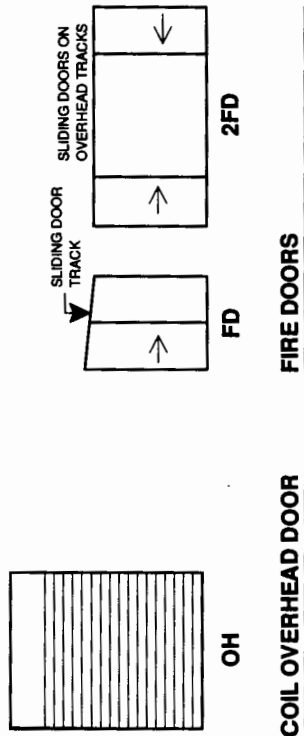
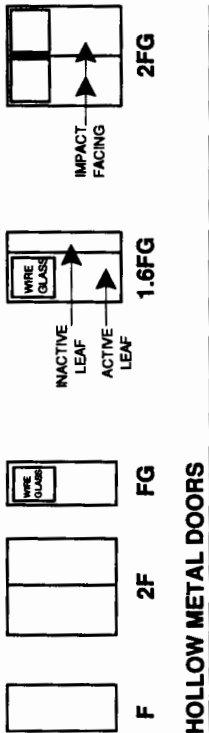
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REFERENCE TO THIS
DRAWING IS MADE IN
CHAPTERS: 6, 7, 9,
22 OF VOLUME 1.

ROOM, WINDOW AND DOOR KEY PLAN

**CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO**

MARCH 1, 1980	COMPUTARIZED EDITION	IHDR-14A
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DOOR SCHEDULE				
NUMBER	SIZE (METERS)	TYPE	FIRE RATING	VISION PANEL
D-1	3.0 X 3.0	OH	NONE	NONE
D-2	2.2 X 3.0	OH	NONE	NONE
D-3	2.8 X 3.0	OH	3 HOUR	NONE
D-4	3.0 X 3.0	OH	3 HOUR	NONE
D-5	0.9 X 2.1	F	NONE	1/2 PANEL
D-6	0.9 X 2.1	FG	NONE	NONE
D-7	1.3 X 2.1	F	NONE	NONE
D-8	2.4 X 2.8	2FG	NONE	1/2 PANEL
D-9	2.4 X 2.8	2FG	NONE	1/2 PANEL
D-10	1.1 X 2.4	1.6 FG	NONE	NONE
D-11	0.5 X 2.4		NONE	NONE
D-12	1.0 X 2.1	WM	NONE	NONE
D-13	1.3 X 2.1	WM	NONE	NONE
D-14	2.1 X 2.8	WM	NONE	NONE
D-15	3.0 X 2.8	WM	NONE	NONE
D-16	0.9 X 2.1	WM	NONE	NONE
D-17	2.1 X 2.4	2WM	NONE	NONE
D-18	3.0 X 2.1	2WM	NONE	NONE
D-19	1.3 X 2.8	2CL	NONE	NONE
D-20	1.3 X 1.5	CL	NONE	NONE
D-21	2.0 X 1.5	CL	NONE	NONE
D-22	0.9 X 2.1	SD	NONE	NONE
D-23	2.4 X 2.8	2FD	3 HOUR	NONE
D-24				

WINDOW SCHEDULE				
NUMBER	SIZE (METERS)	TYPE	FIRE RATING	VISION PANEL
W-1	1.0 X 1.0	W1	NONE	FULL
W-2	2.0 X 1.0	W2	NONE	FULL
W-3	1.0 X 1.0	W3	BULLETPROOF	FULL W/SLOT

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DOOR & WINDOW SCHEDULES

CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO

SCALE: NO SCALE

MARCH 1, 1990
COMPUTERIZED EDITION
IIDR-148

ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS	CEILING	ROOM	FLOOR	BASE	WALLS	CEILING
1	F1	B1	W1	C1	40	F8	B3	W1	C1
2	F2	B2	W2	C2	41	F2	B2	W2	C2
3	F2	B2	W2	C2	42	F2	B2	W2	C2
4	F2	B2	W3	C2	43	F3	--	W4	C1
5	F3	--	W4	C3	44	F3	B4	W3	C5
6	F3	--	W4	C3	45	F3	B2	W3	C5
7	F3	--	W4	C3	46	F3	B2	W3	C5
8	F3	--	W4	C3	47	F3	B4	W3	C5
9	F5	B5	W5	C4	48	F3	B4	W3	C5
10	F5	B5	W5	C4	49	F3	B2	W3	C5
11	F3	--	W4	C3	50	F3	B4	W3	C5
12	F3	--	W4	C3	51	F3	B4	W3	C5
13	F3	B3	W1	C6	52	F3	B2	W3	C5
14	F2	B2	W2	C2	53	F2	B2	W2	C5
15	F2	B2	W2	C2	54	F4	--	W3	C3
16	F1	B1	W1	C1	55	F4	--	W4	C3
17	F3	B3	W1	C6	56	F3	--	W4	C3
18	F3	--	W4	C3	57	F3	--	W6	C3
19	F3	--	W4	C3	58	F1	B1	W4	C3
20	F3	--	W4	C3					
21	F3	--	W4	C3					
22	F8	B3	W1	C6					
23	F8	B3	W3	C2					
24	F8	B3	W3	C6					
25	F3	B3	W1	C6					
26	F8	B1	W1	C1					
27	F8	B1	W1	C1					
28	F8	B1	W1	C1					
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30	F8	B1	W2	C1					
31	F8	B1	W2	C1					
32	F7	B6	W2	C2					
33	F7	B6	W2	C2					
34	F7	B7	W2	C2					
35	F6	B2	W2	C2					
36	F6	B2	W2	C2					
37	F6	B2	W2	C2					
38	F6	B2	W2	C2					
39	F3	B3	W1	C1					

ROOM FINISH LEGEND

FLOORS

F1 NON-SKID CERAMIC TILE
 F2 REINFORCED VINYL TILE
 F3 HARDENED/SEALED CONCRETE
 F4 CONCRETE
 F5 INSULATED FLOOR
 F6 CARPET
 F7 TERRAZZO
 F8 PIGMENTED POLISHED CONCRETE

BASE

B1 CERAMIC TILE
 B2 VINYL COVE BASE
 B3 GLAZED TILE
 B4 COVERED EPOXY MORTAR
 B5 INSULATED BASE
 B6 TERRAZZO

WALLS

W1 GLAZED TILE
 W2 PAINTED PLASTER
 W3 EPOXY PAINTED CONCRETE
 W4 PAINTED CONCRETE BLOCK
 W5 INSULATED WALL PANEL
 W6 CONCRETE BLOCK

CEILING

C1 PAINTED PLASTER
 C2 ACOUSTICAL TILE LAY-IN
 C3 EXPOSED STRUCTURE PAINTED
 C4 INSULATED CEILING PANEL
 C5 PLASTIC FACE ACOUSTICAL LAY-IN
 C6 EPOXY PAINT

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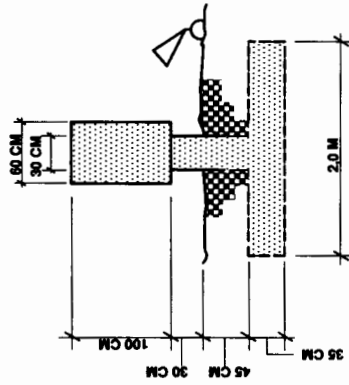
REFERENCE TO THIS
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 CHAPTERS: 9, 22 OF
 VOLUME 1.

ROOM FINISH SCHEDULE

CENTRAL WAREHOUSE AND
 DISTRIBUTION CENTER-TEGALO

MARCH 1990
 COMPUTERIZED
 EDITION
 IIDR-14C

SCALE: NO SCALE



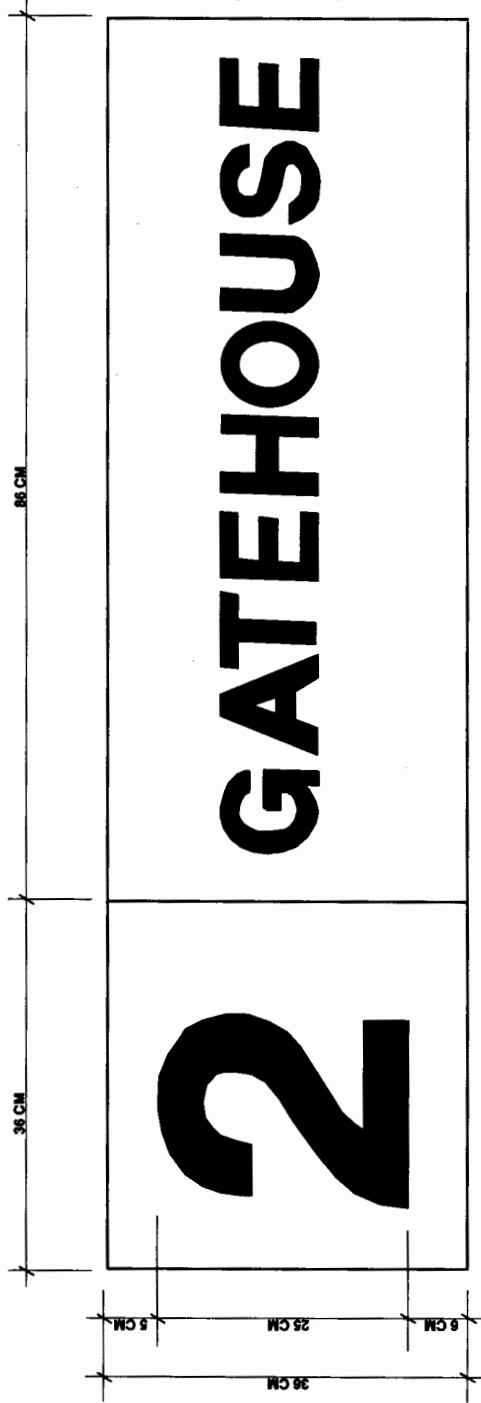
TYPE #1

- LETTERS: HELVETICA MEDIUM, 50 CM
- MATERIALS: ANODIZED ALUMINUM LETTERS MOUNTED ON REINFORCED CONCRETE BASE AT TEN PERCENT ABOVE MIDPOINT OF SIGN PANEL

PANEL #2

- LETTERS: HELVETICA MEDIUM, 10 CM
- MATERIALS: WHITE SUBSURFACE LETTERS ON BRONZE FIBERGLASS BOARD
- MOUNTING: AS DIRECTED

TYPE No. 1 EXTERIOR SIGN



TYPE No. 2 BUILDING NUMBER AND NAME

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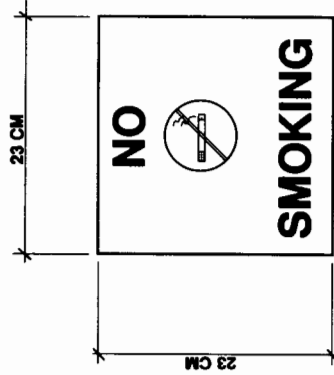
NOTE:
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REFERENCE TO THIS
 DRAWING IS MADE IN
 CHAPTER 35 OF
 VOLUME 1.

SIGNS

CENTRAL WAREHOUSE AND,
 DISTRIBUTION CENTER-TEGALO
 SCALE: NO SCALE

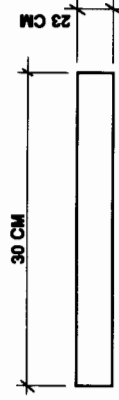
MARCH 1, 1990
 COMPUTARIZED
 EDITION
 HDR-15A



TYPE #3

EXTERIOR AND INTERIOR

SERVICE AND SAFETY SIGNS



TYPE #5

INDIVIDUAL NAME PLATE

TYPE #3

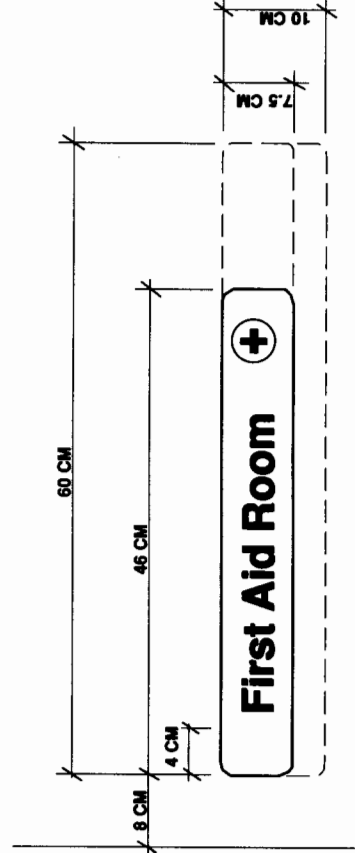
- LETTERS: HELVETICA MEDIUM, 38 MM
- MATERIALS: WHITE LETTERS ON BRONZE BOARD
- MOUNTING: DIRECT TO WALL OR DOOR

TYPE #4

- LETTERS: HELVETICA MEDIUM, SIZE VARIES
- MATERIALS: ACRYLIC BOARD, COLORS VARIED WITH FUNCTION
- MOUNTING: DIRECT TO WALL OR DOOR

TYPE #5

- LETTERS: HELVETICA MEDIUM, 254 MM
- MATERIALS: WHITE LETTERS ON BRONZE ACRYLIC BOARD
- MOUNTING: MAGNET OR DOUBLE FACED TAPE



TYPE NO. 4 ROOM IDENTIFICATION SIGN

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REFERENCE TO THIS
DRAWING IS MADE IN
CHAPTER 35 OF
VOLUME 1.

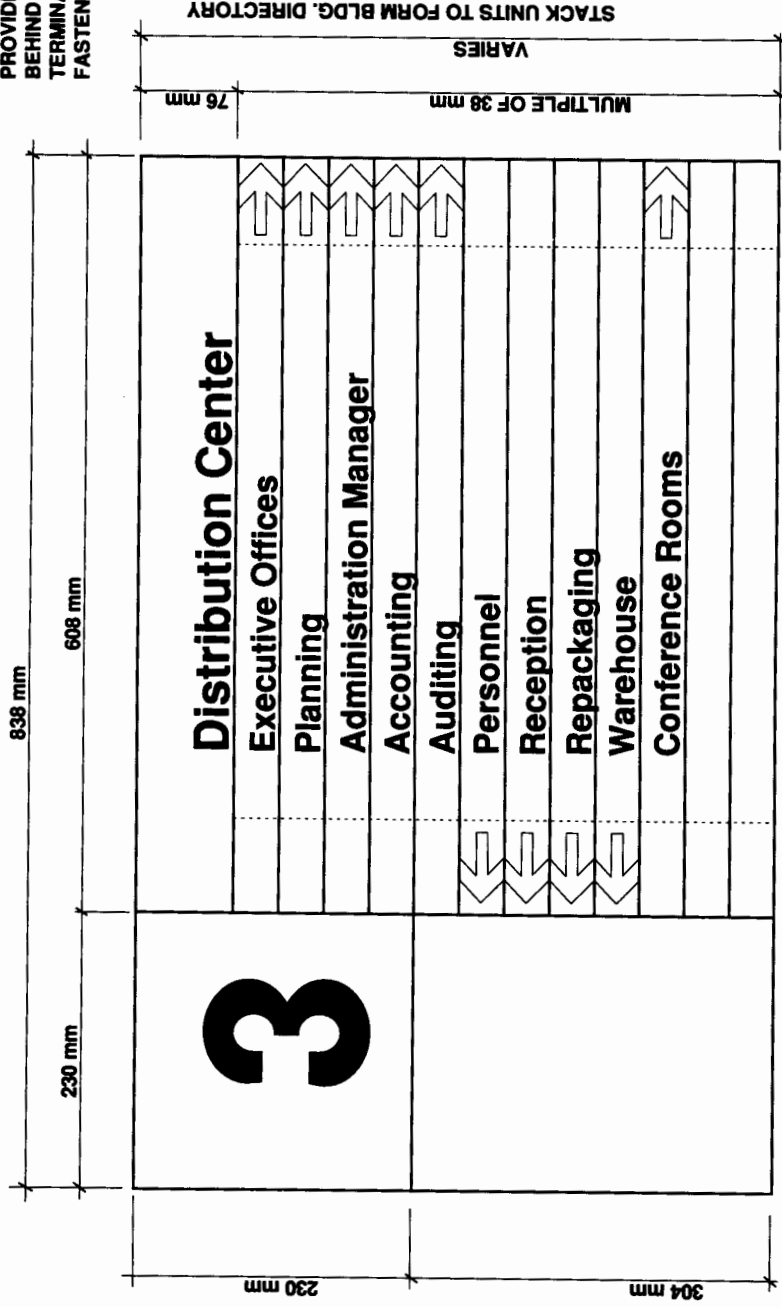
SIGNS

CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO

SCALE: NO SCALE

MARCH 1, 2000
COMPUTERIZED
EDITION
IIDP-15B

NOTE:
PROVIDE SCREW HOLES
BEHIND HEADER AND
TERMINATOR FOR
FASTENERS



TYPE NO. 6 DIRECTORY SIGN

TYPE #6

- LETTERS: HELVETICA MEDIUM, SIZE VARIES
- MATERIALS: WHITE SUBSURFACE LETTERS ON BRONZE PLEXIGLAS
- MOUNTING: WALL MOUNTED AS DIRECTED

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DRAWING IS MADE IN
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VOLUME 1.

SIGNS

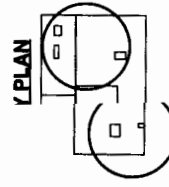
CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO

SCALE: NO SCALE

MARCH 1, 1990
COMPUTERIZED
EDITION
IIDR-15C

TYPE #1	SEE DRAWING IIDR-15A	TYPE #2	1 GATEHOUSE 2 SUBSTATION 3 OFFICES, REPACKAGING AND DISTRIBUTION 4 RECEIVING 5 PALLET STORAGE 6 KENNEL 7 TOXICS / CORROSIVES / OXIDIZERS 8 INCINERATOR 9 FLAMMABLES 10 COMPRESSED GASES 11 UTILITY MAINTENANCE 12 SHIPPING	TYPE #3	AUTHORIZED PERSONNEL ONLY CAUTION - HARD HAT REQUIRED CAUTION - OPEN DOOR SLOWLY CONFERENCE W/VACANT/OCCUPIED SIGN; SPECIFY ROOM NUMBER DANGER - WATCH FOR LIFT TRUCKS DANGER - NO SMOKING OR OPEN FLAMES EMERGENCY EXIT ONLY - ALARM WILL SOUND EMERGENCY EYE WASH/SHOWER EMPLOYEE ENTRANCE ONLY FIRE DOOR - DO NOT BLOCK KEEP DOOR LOCKED KEEP DOOR CLOSED KEEP AREA CLEAR OF OBSTRUCTIONS LAB COAT REQUIRED LAB COAT & HAIR COVERING REQUIRED MEN NO SMOKING, EATING OR DRINKING IN THIS AREA NO SMOKING NO SMOKING BEYOND THIS POINT RESERVED PARKING A,B,C,D RESTRICTED SAFETY GLASSES REQUIRED STAGING ZONE A, STAGING ZONE B, ETC. VISITOR PARKING VISITORS WOMEN	TYPE #4	< 30' STORAGE ACCOUNTING ADMINISTRATION MGR BLISTER PACKAGING QC LAB BOTTLE BLOWING BUILDING EVACUATION DIAGRAM CAFETERIA COMPRESSED GAS COMPUTER CORROSIVES DIRECTOR DISTRIBUTION CENTER MGR DRIVER WAITING/RECEIVING OFFICE DRIVER WAITING/SHIPPING OFFICE EMERGENCY DOOR EMPTY CYLINDERS ETHYLENE OXIDE FIRE ALARM FIRE WALL FIRE EXTINGUISHER FIRE HOSE CABINET FLAMMABLES FULL CYLINDERS GOODS TO REDRESS HOUSEKEEPING IN BOND QUARANTINE INCOMING INSPECTION QC KEEP THIS AREA CLEAN LABELS LIQUID FILL LOW TEMPERATURE -15 TO -25°C LOW TEMPERATURE 2-8°C LPG MECHANICAL EQUIPMENT ROOM NITROUS OXIDE NO PARKING NONFLAMMABLE GASES OXIDIZERS OXYGEN PACK AREA PACKING SUPPLIES PERSONNEL DEPT PICK AREA QUARANTINE RECEIVING OFFICE REFUSE - KEEP OUT REJECTED GOODS REPACKAGING RETURNED GOODS	SERVICE STAIRS SHIPPING OFFICE STRIP PACKAGING SUPERVISOR TABLET FILL TOXICS	ALL COLUMNS TO SHOW NUMBERS	PAN AMERICAN HEALTH ORGANIZATION Pan American Sanitary Bureau. Regional Office of the WORLD HEALTH ORGANIZATION	NOTE: THIS REFERENCE IS GENERIC IN NATURE AND IS INTENDED TO CONVEY CONCEPTS. IT DESCRIBES TYPICAL ARRANGEMENTS AND DETAILS DESIRABLE FOR THESE TYPES OF FACILITIES. THE RESPONSIBLE PROJECT ARCHITECT/ENGINEER SHALL ESTABLISH ALL DIMENSIONS AND CONDITIONS. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION.	REFERENCE TO THIS DRAWING IS MADE IN CHAPTER 35 OF VOLUME 1.	SIGNAGE LOCATIONS	CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO SCALE: NO SCALE MARCH 1990 COMPUTERIZED EDITION IIDR-15D
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LARGE CLOSET



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VOLUME 1.

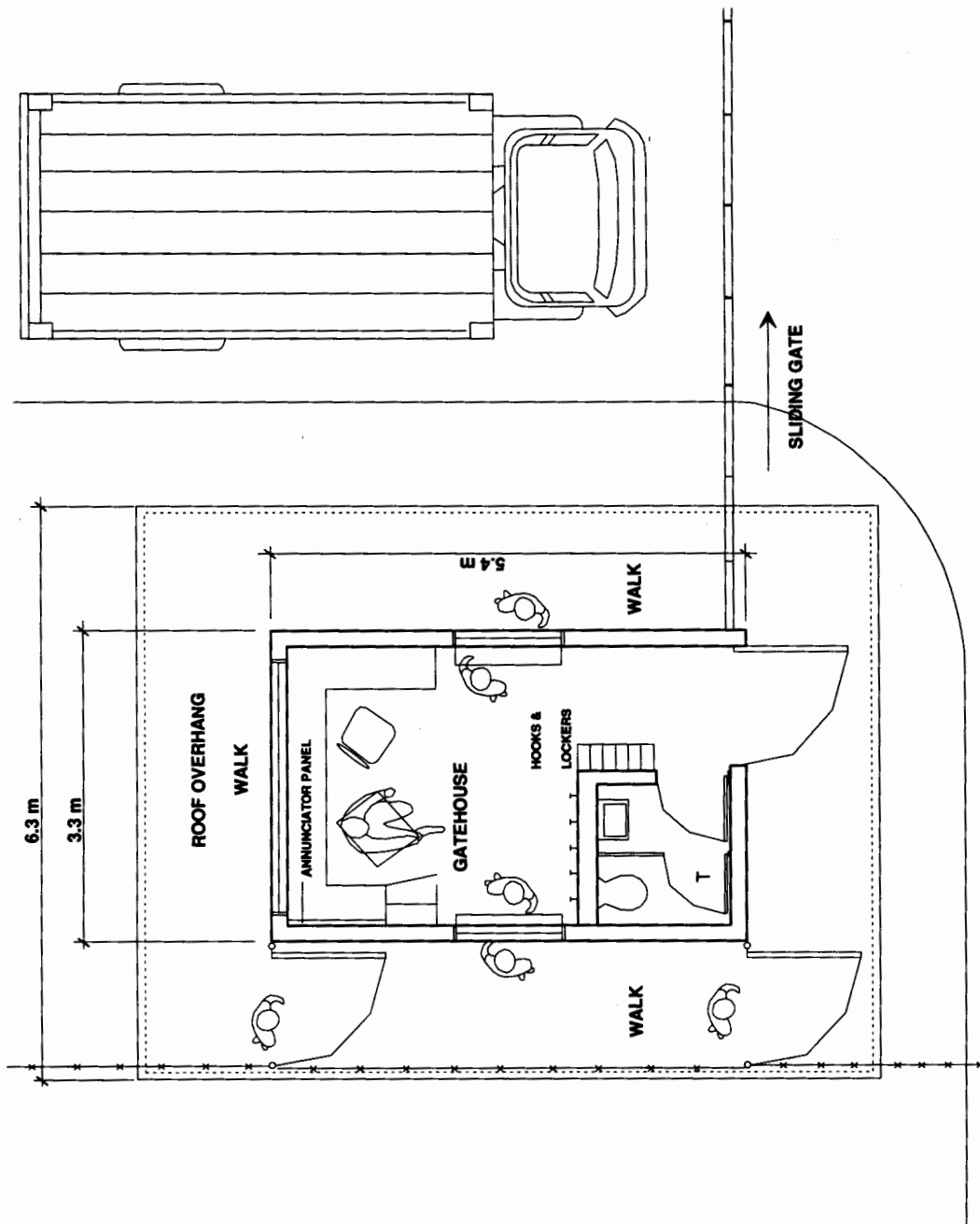
HOUSEKEEPING CETS

**CENTRAL WAREHOUSE AND,
DISTRIBUTION CENTER-TEGALO**

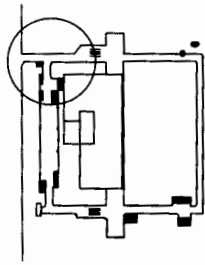
MARCH 1, 1990
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SCALE: NO SCALE

110R-16



KEY PLAN



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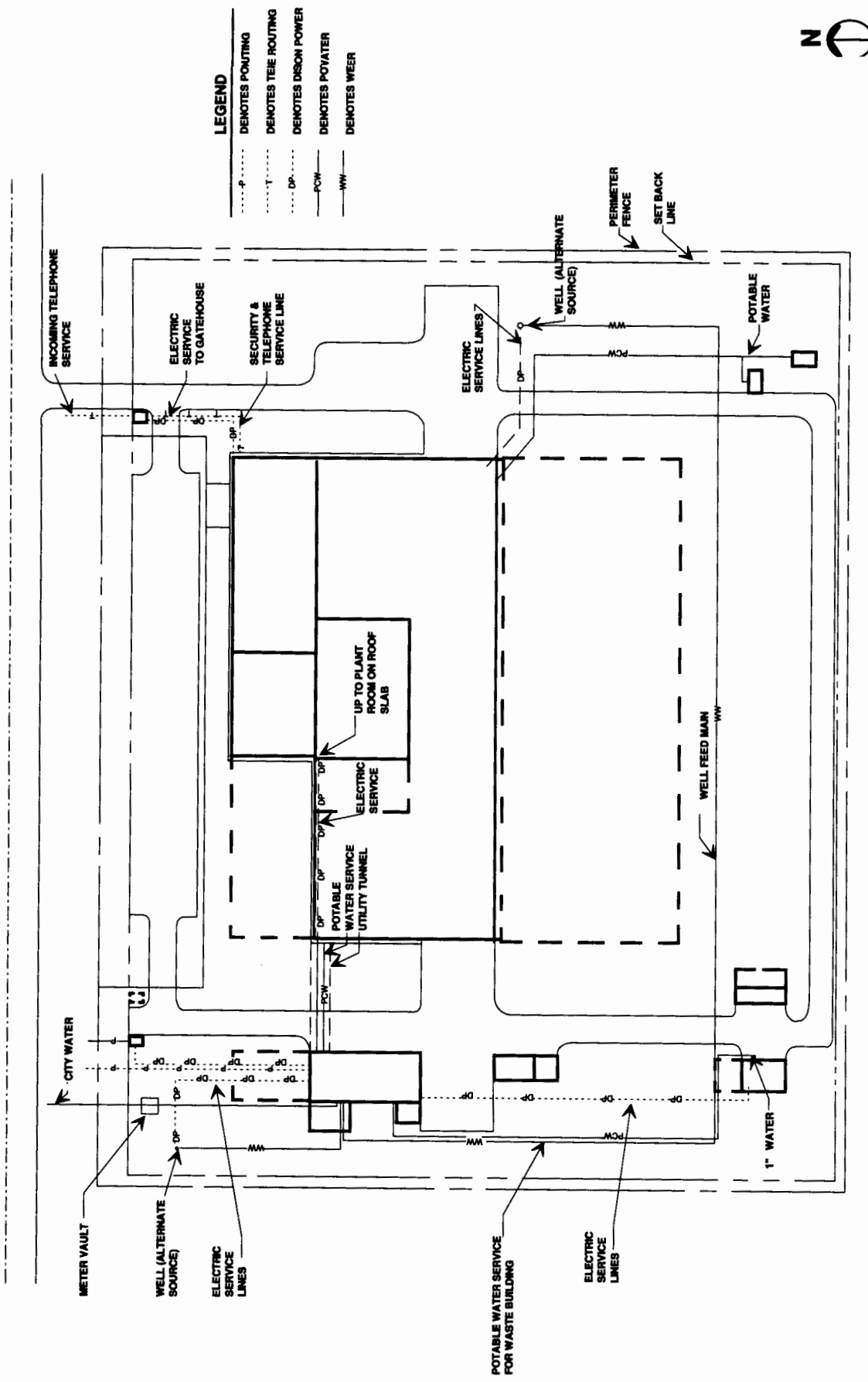
REFERENCE TO THIS
 DRAWING IS MADE IN
 CHAPTERS: 3, 9 OF
 VOLUME 1.

GATEHOUSE

CENTRAL WAREHOUSE AND
 DISTRIBUTION CENTER-TEGALO

MARCH 1, 1990
 COMPUTARIZED
 EDITION
 HDR-17

SCALE: NO SCALE



- LEGEND**
- P --- DENOTES POUTING
 - T --- DENOTES TIE ROUTING
 - DP --- DENOTES DISON POWER
 - PCW --- DENOTES POTATER
 - WW --- DENOTES WEEER



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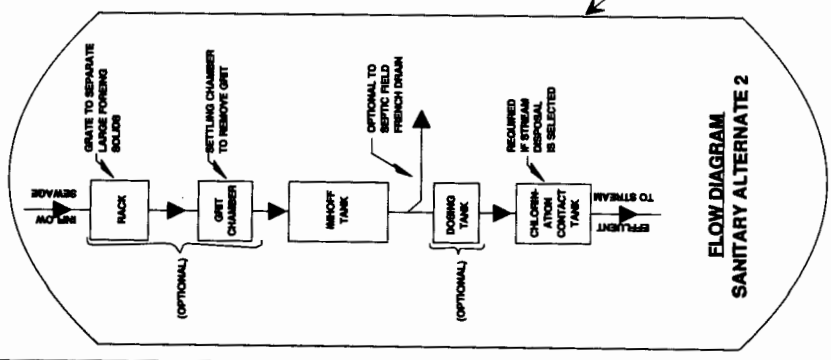
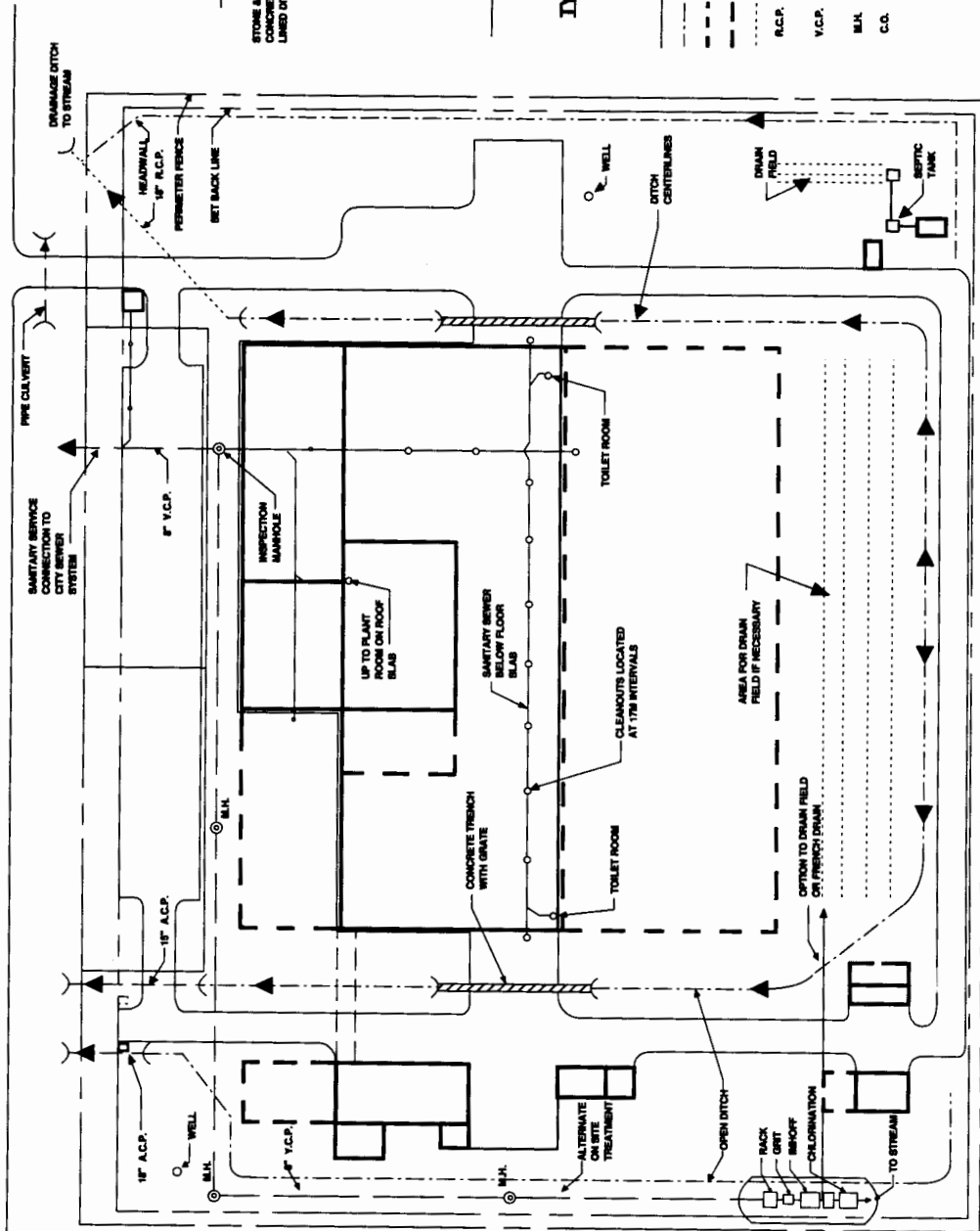
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UTILITY ENTRY SITE PL

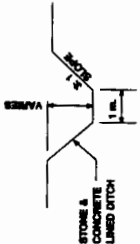
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 DISTRIBUTION CENTER-TEGALO

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 PUTATIZED
 EDITION
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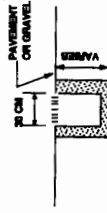
SCALE: NO SCALE



TYPICAL DITCH CROSS SECTION



TYPICAL TRENCH



LEGEND

- DENOTES DITCH CENTER LINE
- DENOTES STORM PIPE
- DENOTES SANITARY
- DENOTES DRAIN TILE
- DENOTES REINFORCED CONCRETE PIPE
- DENOTES VITRIFIED CLAY PIPE WITH PLASTIC JOINTS
- DENOTES MANHOLE
- DENOTES CLEANOUT



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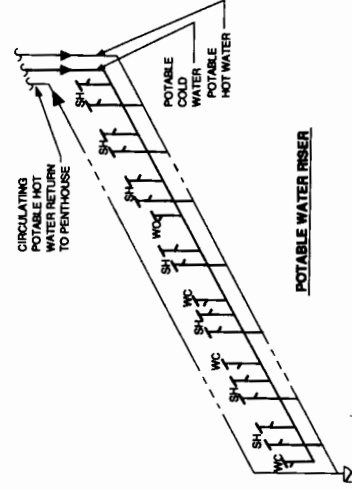
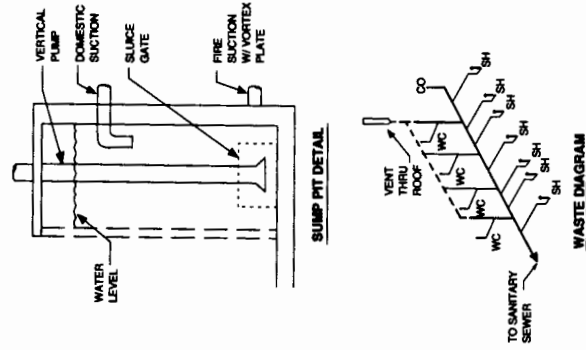
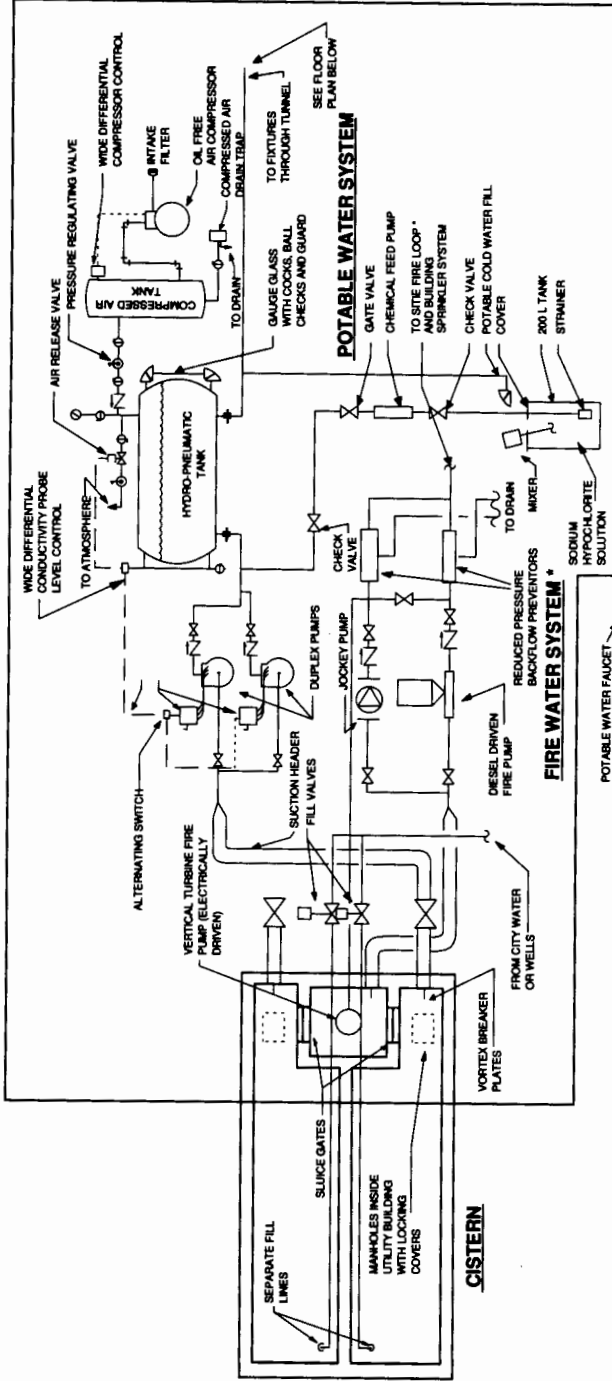
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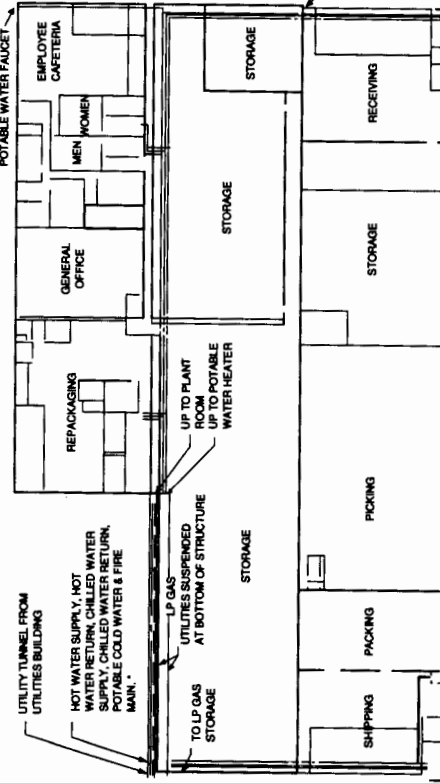
STORM/SANITARY SEWERS

CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1990
	COMPUTERIZED EDITION
	IIDR-19

SCALE: NO SCALE



SCHEMATIC WATER RISER



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COLD/HOT WATER PLUMBING

CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1990
	COMPUTERIZED
	EDITION
SCALE: NO SCALE	
IDR-30	

[illegible]

AIR FILTER SCHEDULE			
TAG	AIR HANDLING SYSTEM	CFM	NUMBER OF FILTERS
F-1	AHU-1 PRIMARY		FILTER SIZE
			EFFICIENCY % ASHRAE

PUMP SCHEDULES										
TAG	SERVICE & LOCATION	FLOW GPM	HEAD FT	SIZES		MOTOR			MFG & MODEL	REMARKS
				SUCT.	DISCH.	HP	VOLT	PHASE		
P-1	CHILLER NO. 1									

HEATING COIL SCHEDULE									
TAG	AIR HANDLING SYSTEM	CFM	ENTER AIR DB	LEAVE AIR DB	WATER		AIR PD IN WG	FINS/ FOOT	FACE AREA
					ENTER	LEAVE	GPM	ROWS	
HC-1	AHU-1 HEATING						$\frac{\text{PD FT}}{\text{MAX}}$		

Architectural floor plan of a building with various rooms and exhaust systems. The plan includes the following labeled areas and features:

- Rooms and Areas:**
 - EMPLOYEE CAFETERIA
 - PERIMETER VARIABLE VOLUME BOX
 - GENERAL OFFICE
 - REPACKAGING
 - PLANT ROOM ON ROOF SLAB
 - 30° TO 40° C STORAGE
 - 30° TO 40° C STORAGE
 - 30° TO 40° C STORAGE
 - 30° C STORAGE
 - 30° C QUARANTINE
 - PICKING
 - SHIPPING
 - PACKING
 - BATTERY CHARGING
 - TOILET
 - REVIVING
 - BATTERY CHARGING EXHAUST
 - TOILET EXHAUST
- Exhaust Systems:**
 - KITCHEN EXHAUST ON ROOF
 - REFUSE EXHAUST ON ROOF
 - EXHAUST FAN ON ROOF
 - ROOF EXHAUST
 - ROOF EXHAUST
 - ROOF EXHAUST
 - TOILET EXHAUST
 - BATTERY CHARGING EXHAUST
 - TOILET EXHAUST
- Other Features:**
 - REGISTERS ON SIDE OF DUCT SEE IIDR-22 CLASS VII
 - 12 M ON CENTER

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DRAWING IS MADE IN
CHAPTER 27 OF
VOLUME 1.**

AIR DISTRIBUTION

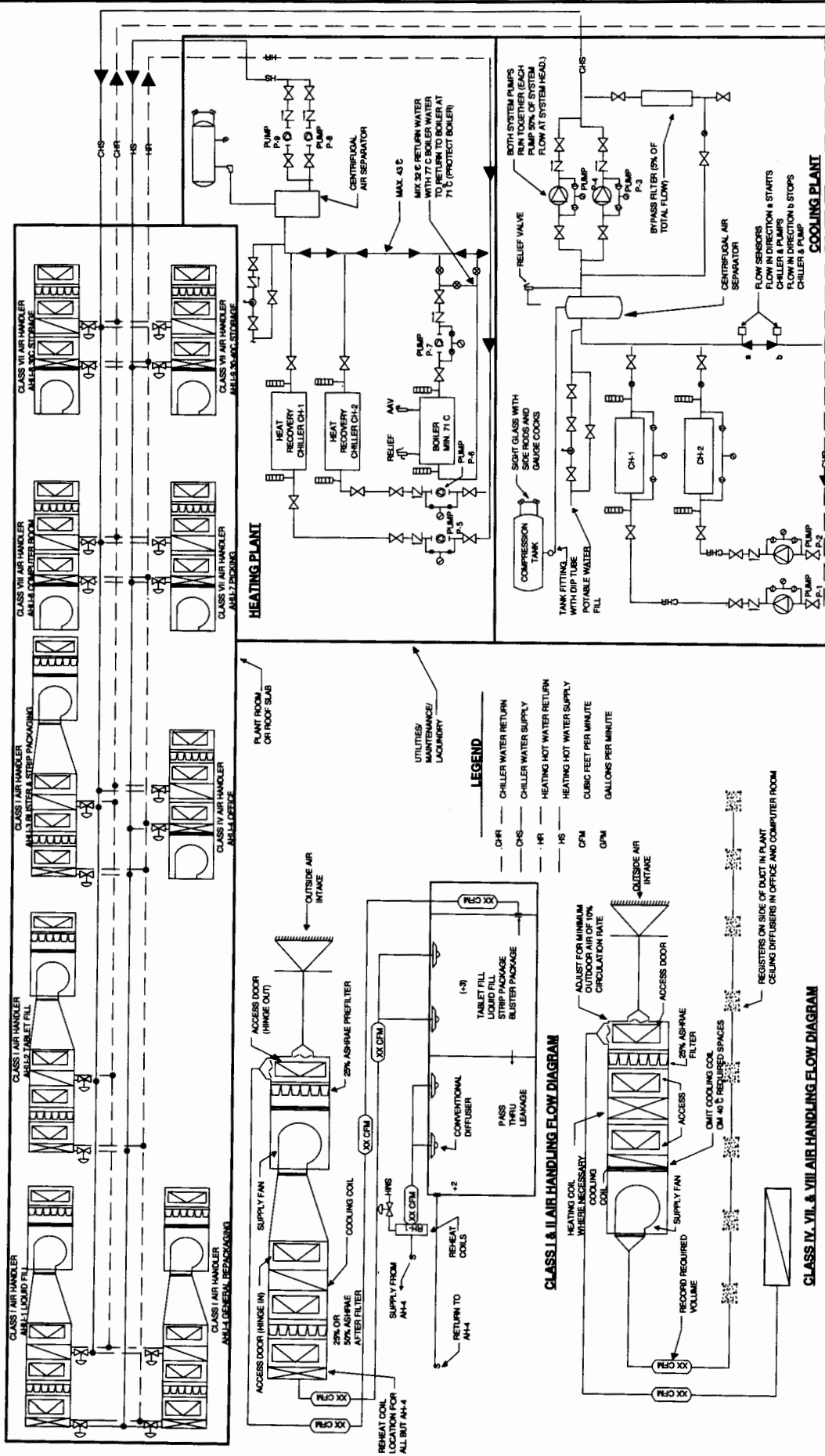
**CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO**

SCALE: NO SCALE

MARCH 1, 1990

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ENVIRONMENTAL CONTROL SYSTEM

CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO

SCALE: NO SCALE

MARCH 1, 1990
COMPUTERIZED
EDITION
HDR-22

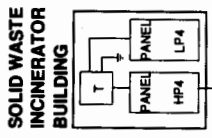
ALTERNATE #1

PROVIDE TWO PRIME POWER MOTOR DRIVEN DIESEL GENERATORS FOR TOTAL GENERATION. DELETE THE FOLLOWING ITEMS:
UNIT SUBSTATION
EMERGENCY DISTRIBUTION PANEL
STAND-BY DIESEL GENERATOR
PANEL EM1 & EM2
MOTOR CONTROL CENTERS #EMCC1 & #EMCC2
CIRCUITS FOR PANEL EM1 SHALL BE CONNECTED TO PANEL HP1
CIRCUITS FOR PANEL EM2 SHALL BE CONNECTED TO PANEL HP2
CIRCUITS FOR MOTOR CONTROL CENTER #EMCC1 SHALL BE CONNECTED TO MOTOR CONTROL CENTER #MCC1
CIRCUITS FOR MOTOR CONTROL CENTER #EMCC2 SHALL BE CONNECTED TO MOTOR CONTROL CENTER #MCC2.

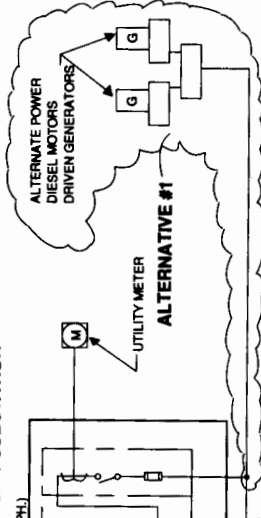
NOTES:

1. PROVIDE 25% SPARE CAPACITY ON ALL PANELBOARDS.

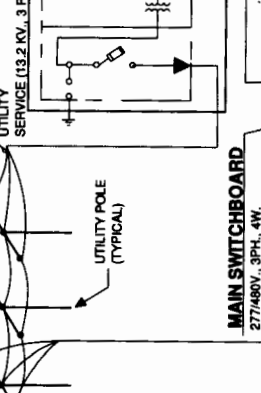
SOLID WASTE INCINERATOR BUILDING



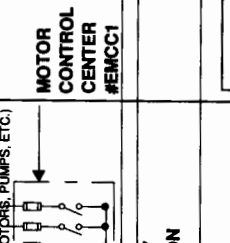
UNIT SUBSTATION



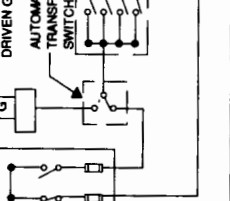
MAIN SWITCHBOARD



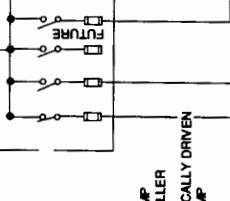
MOTOR CONTROL CENTER #EMCC1



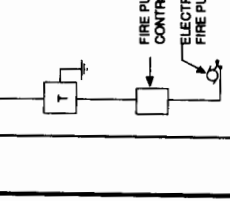
MOTOR CONTROL CENTER #EMCC2



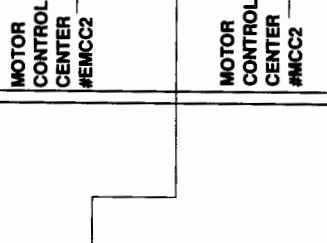
MOTOR CONTROL CENTER #MCC1



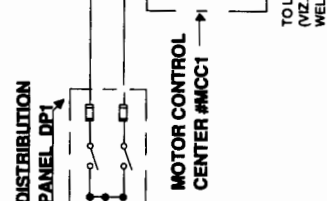
MOTOR CONTROL CENTER #MCC2



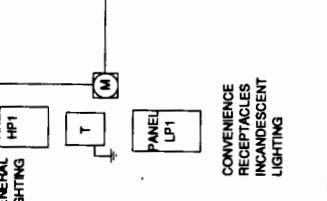
DISTRIBUTION PANEL DP1



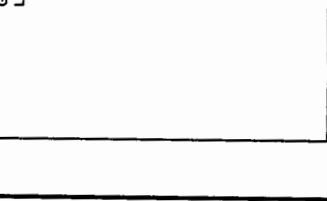
DISTRIBUTION PANEL DP2



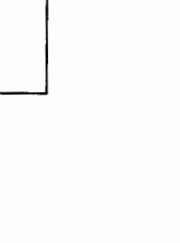
DISTRIBUTION PANEL DP3



DISTRIBUTION PANEL DP4



GATEHOUSE



WAREHOUSE, REPACKING & OFFICE BUILDING



UTILITY/MAINTENANCE BUILDING

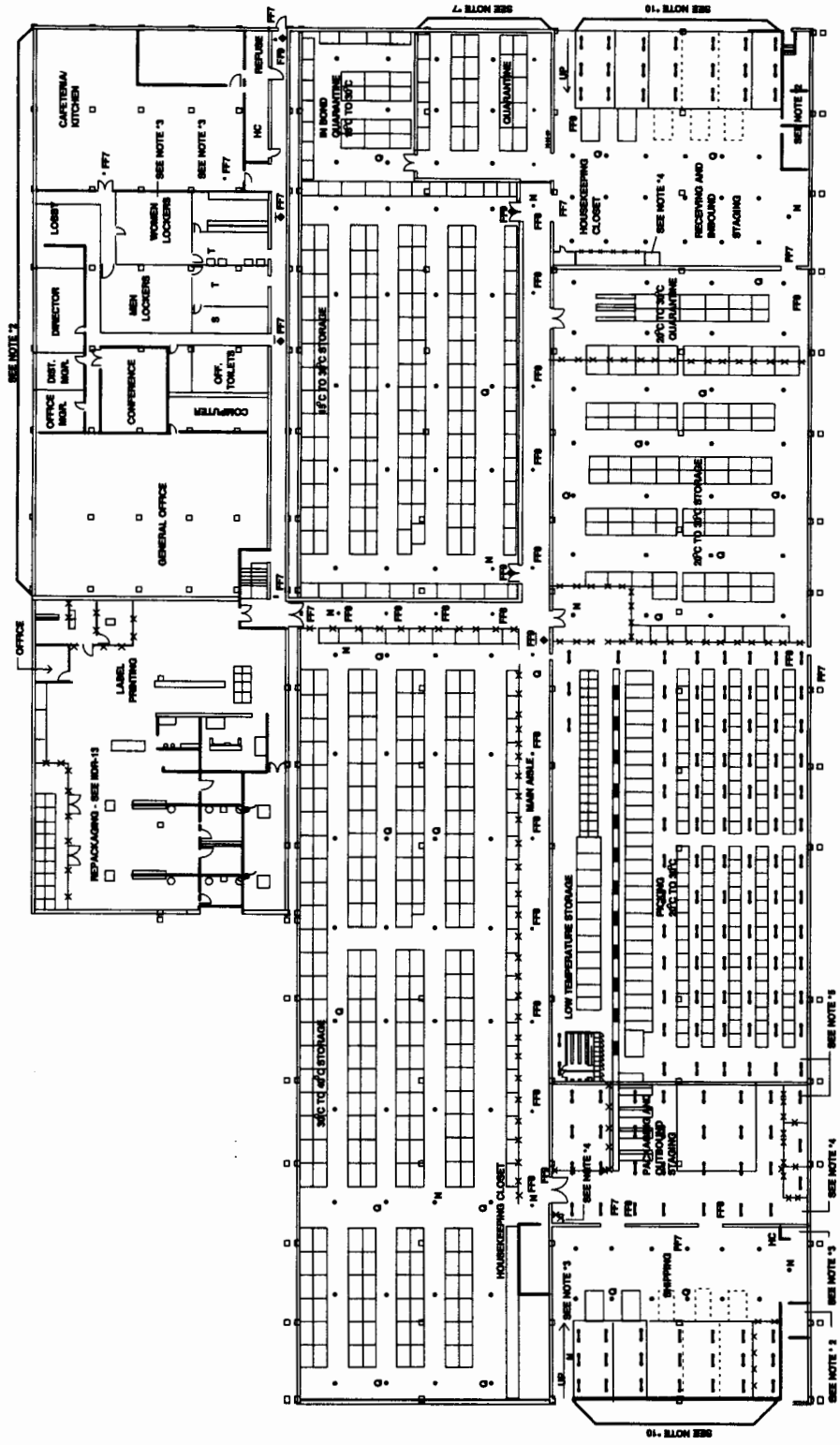


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ELECTRICAL SINGLE LINE DIAGRAM
CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO
MARCH 1, 1990
COMPUTERIZED EDITION
SCALE: NO SCALE
IHDR-23



NOTES

- A. ALL FIXTURES TYPES THIS SHEET SHALL BE TYPE "FF1" UNLESS NOTED.
1. REFER TO SHEET RDR-2A FOR ADDITIONAL INFORMATION FOR ADDITIONAL INFORMATION.
2. PROVIDE FLUORESCENT FIXTURES TYPE "FF1" THIS AREA.
3. PROVIDE FLUORESCENT FIXTURES TYPE "FF1" THIS AREA.
4. PROVIDE EXPLOSION PROOF FIXTURES TYPE "FF1" THIS AREA.
5. FIXTURE TYPES THIS ROOM SHALL BE "FF2" UNLESS OTHERWISE NOTED.
6. FIXTURE TYPES THIS ROOM SHALL BE "FF10" UNLESS NOTED OTHERWISE.
7. FIXTURE TYPES THIS ROOM SHALL BE "FF3" UNLESS NOTED OTHERWISE.
8. N DENOTES NIGHT LIGHTING CIRCUIT.
9. Q DENOTES QUARTZ RESTRIKE FEATURE.
10. FIXTURE TYPES THIS AREA SHALL BE "FF2".
11. SEE RDR-1 FOR EXTERIOR LIGHTING PLAN.



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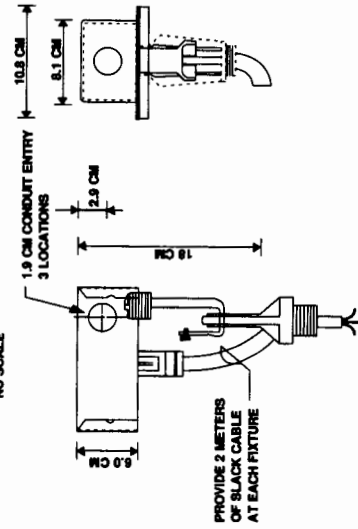
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REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 9, 26 OF VOLUME 1.

INTERIOR LIGHTING PLAN

CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO	MARCH 1, 1960
SCALE: NO SCALE	COMPUTERIZED EDITION
	RDR-2A

SITE LIGHTING FIXTURE SCHEDULE						
MARK SYMBOL	DESCRIPTION	VOLTAGE	LAMPS		POLE	
			WATTS	TYPE	HEIGHT	TYPE
F1	OUTDOOR LIGHTING STANDARD	480V.	1-400W.	HPS	9M.	SQUARE STRAIGHT BRONZE
F2	BUILDING WALL PACK	277V.	1-150W.	HPS	—	—
F3	OUTDOOR LIGHTING STANDARD	277V.	1-500W.	PAR-56 QUANTZ	—	—
F4	ADJUSTABLE POLE-TOP LIGHTING STANDARD	480V.	1-400W.	HPS	9M.	SQUARE STRAIGHT STEEL
F5	BUILDING WALL PACK	277V.	1-70W.	HPS	—	—
F6	OUTDOOR BOLLARD	277V.	1-70W.	HPS	106 CM.	SQUARE BRONZE
F7	BUILDING WALL PACK	277V.	1-250W.	HPS	—	—



NOTES:

1. "Q" DENOTES FIXTURES PROVIDED WITH QUARTZ RESTRIKIE FEATURE.
2. FIXTURES SHOWN WITH "N" DENOTES FIXTURE WIRED TO NIGHT LIGHTING CIRCUIT. PROVIDE LOCK-OUT CLIPS ON CIRCUIT BREAKERS SERVING NIGHT LIGHTS.

LIGHTING FIXTURE SCHEDULE							
MARK	SYMBOL	DESCRIPTION	DIFFUSER	VOLTAGE	LAMPS		REMARKS
					WATTS	TYPE	
FF1	○	INDUSTRIAL HIGH BAY H.L.D.	POLY-CARBONATE	277V.	1-250W.	HP'S E-18	PROVIDE CLOSED BOTTOM DIFFUSER SEE NOTE # 1
FF2	⌊	PENDANT WRAP AROUND 1.22M FLUORESCENT	PRISMATIC ACRYLIC	⌊	2-35W.	F40/CW RS/WM	PENDANT IN DISTRIBUTION AREA-SURFACE ELSEWHERE
FF3	□	VAPORTIGHT 1.22M FLUORESCENT	⌊	⌊	2-35W.	F40/CW RS/WM	
FF4	○	VAPORTIGHT INCANDESCENT	POLY-CARBONATE	120V.	1-150W.	A21	
FF5	○	EXPLOSION PROOF INCANDESCENT	IMPACT RESISTANT GLASS	120V.	1-150W.	A21	
FF6	□	0.61M X 1.22M FLUORESCENT LAY-IN TROFFER	PRISMATIC ACRYLIC	277V.	4-35W.	F40/CW RS/WM	RECESSED
FF7	□	INSECT CONTROL FIXTURE	—	120V.	2-20W.	—	WALL 100 % ANODIZED ALUMINUM
FF8	○	INDUSTRIAL LOW BAY H.L.D.	POLY-CARBONATE	277V.	1-150W.	HP'S E-18	PROVIDE CLOSED BOTTOM DIFFUSER SEE NOTE # 1
FF9	⊕	EXIT SIGN	GLASS	277V.	2-20W.	A21	WALL
FF10	□	0.61M X 1.22M FLUORESCENT LAY-IN TROFFER	PRISMATIC ACRYLIC STAINLESS STEEL FRAME	277V.	4-35W.	F40/CW RS/WM	RECESSED VAPORTIGHT & DUSTTIGHT
FF11	⊕	EMERGENCY BATTERY LIGHT	—	277V.	2-12W.	PAR 36	WALL

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ELECTRICAL FIXTURE SCHEDULE

**CENTRAL WAREHOUSE AND
DISTRIBUTION CENTER-TEGALO**

MARCH 1, 1990
COMPUTARIZED

SCALE: NO SCALE

ANNUNCIATOR PANEL

PROVIDE SAME QUANTITY OF INDICATORS (AND SAME DESIGNATION) AS SHOWN ON SECURITY AND LOSS PREVENTION PANEL IN MAIN BUILDING AND IN UTILITY/MAINTENANCE/LAUNDRY BUILDING.

FRONT VIEW OF SECURITY & FIRE ALARM ANNUNCIATOR PANEL

AIR HANDLING UNIT # 1	NORTHEAST EMERGENCY EXIT
AIR HANDLING UNIT # 2	SOUTH EMERGENCY EXIT
AIR HANDLING UNIT # 3	TRUCK DOCK OVERHEAD DOORS-SHIPING
AIR HANDLING UNIT # 4	TRUCK DOCK OVERHEAD DOORS-RECEIVING
AIR HANDLING UNIT # 5	HIGH/LOW TEMPERATURE FOR WALK-IN FREEZER
AIR HANDLING UNIT # 6	HIGH/LOW TEMPERATURE FOR WALK-IN COOLER
AIR HANDLING UNIT # 7	CISTERN ALARM LEVELS
AIR HANDLING UNIT # 8	FIRE ALARM PULL STATIONS
AIR HANDLING UNIT # 9	TAMPER SWITCH RISER
FUTURE AIR HANDLING UNIT	DIESEL FIRE PUMP
FUTURE AIR HANDLING UNIT	ELECTRIC FIRE PUMP
FUTURE AIR HANDLING UNIT	FLOW ALARM RISERS
FUTURE AIR HANDLING UNIT	SMOKE ALARM
FUTURE CHILLER	FUTURE
CHILLER # 1	FUTURE
CHILLER # 2	FUTURE

INDICATING LIGHT (TYPICAL)
FUTURE INDICATING LIGHT (TYPICAL)

SECURITY AND LOSS PREVENTION CONTROL PANEL

FAN CONTROL RELAYS

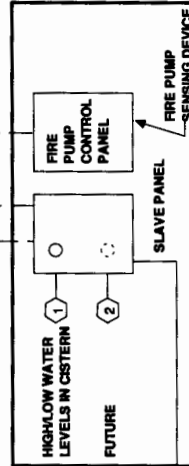
ALARM & FIRE ALARMS WHERE REQUIRED

17	AIR HANDLING UNIT # 1	1	NORTHEAST EMERGENCY EXIT
18	AIR HANDLING UNIT # 2	2	SOUTH EMERGENCY EXIT
19	AIR HANDLING UNIT # 3	3	TRUCK DOCK OVERHEAD DOORS-SHIPING
20	AIR HANDLING UNIT # 4	4	TRUCK DOCK OVERHEAD DOORS-RECEIVING
21	AIR HANDLING UNIT # 5	5	HIGH/LOW TEMPERATURE FOR WALK-IN FREEZER
22	AIR HANDLING UNIT # 6	6	HIGH/LOW TEMPERATURE FOR WALK-IN COOLER
23	AIR HANDLING UNIT # 7	7	CISTERN ALARM LEVELS
24	AIR HANDLING UNIT # 8	8	FIRE ALARM PULL STATIONS
25	AIR HANDLING UNIT # 9	9	TAMPER SWITCH RISER
26	FUTURE AIR HANDLING UNIT	10	DIESEL FIRE PUMP
27	FUTURE AIR HANDLING UNIT	11	ELECTRIC FIRE PUMP
28	FUTURE AIR HANDLING UNIT	12	FLOW ALARM RISERS
29	FUTURE AIR HANDLING UNIT	13	SMOKE ALARM
30	FUTURE CHILLER	14	FUTURE
31	CHILLER # 1	15	FUTURE
32	CHILLER # 2	16	FUTURE

GATE HOUSE

EMERGENCY POWER FEEDER FROM EMERGENCY POWER PANEL

EMERGENCY POWER FEEDER FROM EMERGENCY POWER PANEL



UTILITY/MAINTENANCE/LAUNDRY BUILDING

MAIN BUILDING

EMERGENCY POWER FEEDER FROM EMERGENCY POWER PANEL

SENSOR ON ALL OTHER SECURITY AND LOSS PREVENTION INSTALLATIONS

- * FIRE ALARM PULL STATIONS
- * TAMPER SWITCH RISERS
- * FLOW ALARM RISERS
- * EXITS
- * DOCK DOORS
- * TEMPERATURE ALARMS
- * CHILLERS
- * AIR HANDLING UNITS

SCHEMATIC DIAGRAM

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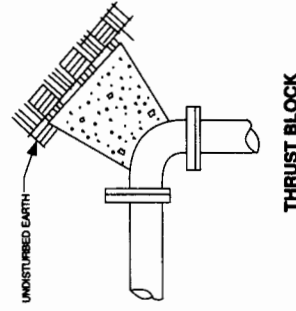
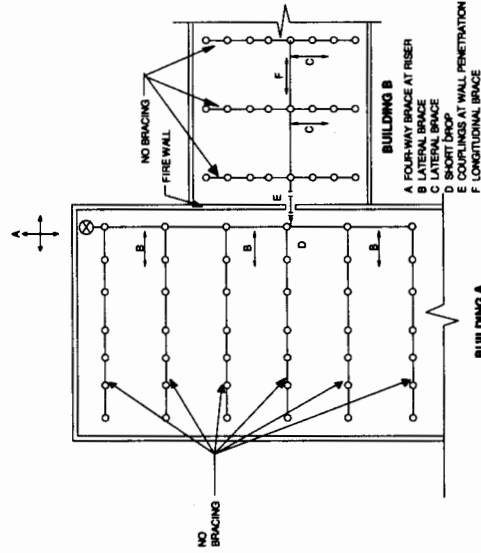
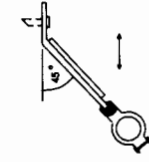
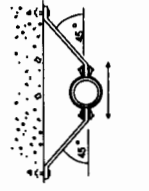
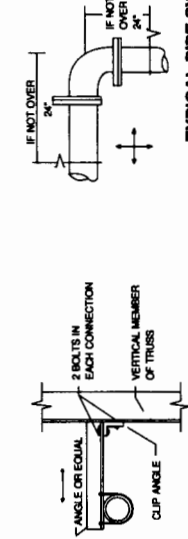
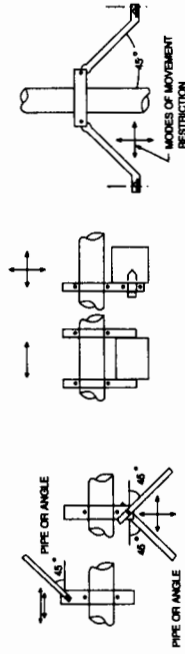
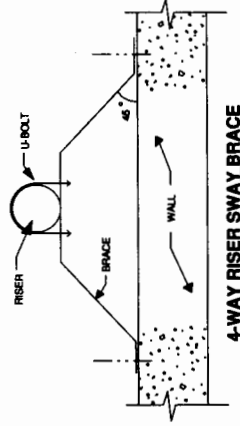
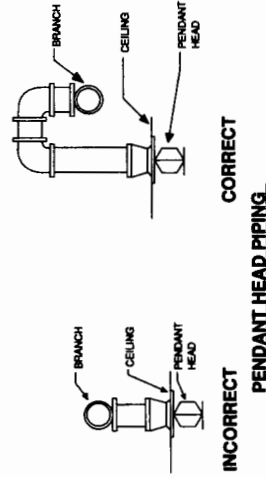
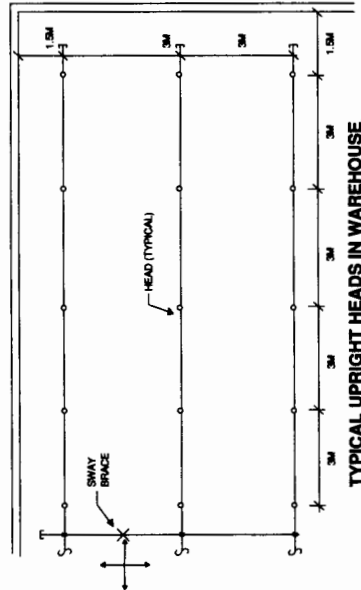
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ALARM SYSTEMS

CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO

SCALE: NO SCALE

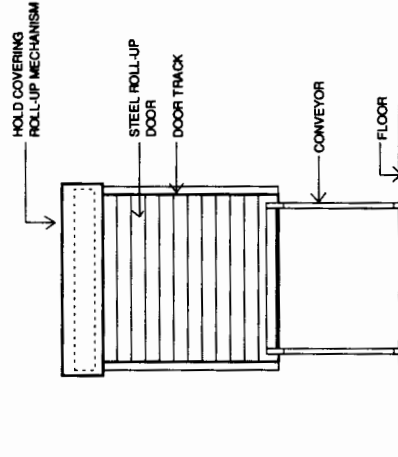
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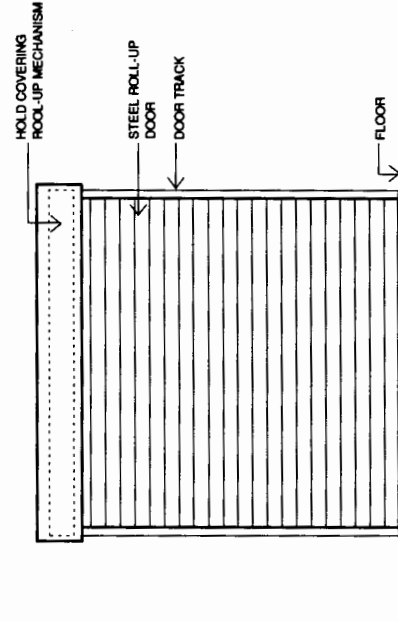
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**REFERENCE TO THIS
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OF VOLUME 1.**

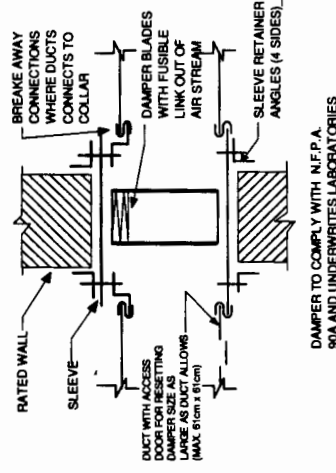
SPRINKLER SYSTEM DETAILS CENTRAL WAREHOUSE AND DISTRIBUTION CENTER-TEGALO SCALE: NO SCALE	MARCH 1, 1981
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	1109-27



3 HOUR ROLL-UP FIRE DOOR

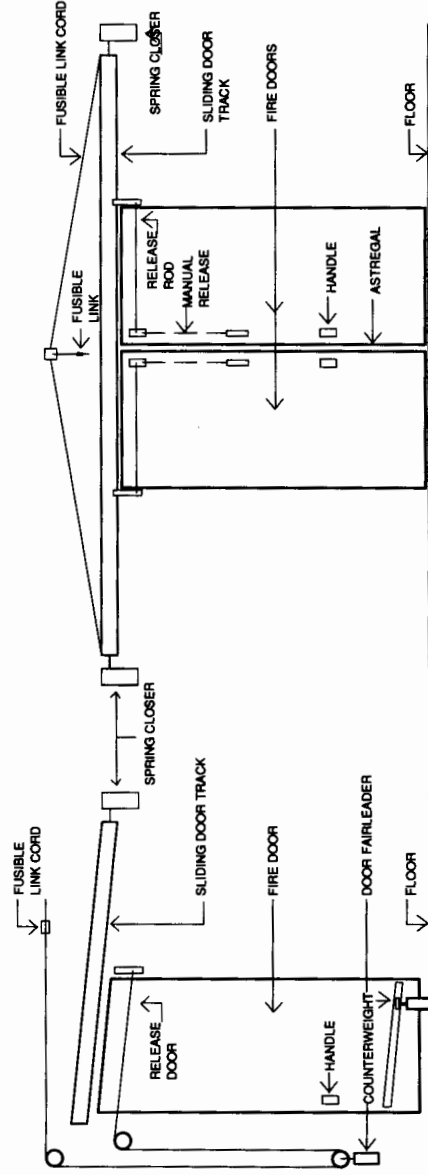


3 HOUR ROLL-UP FIRE DOOR

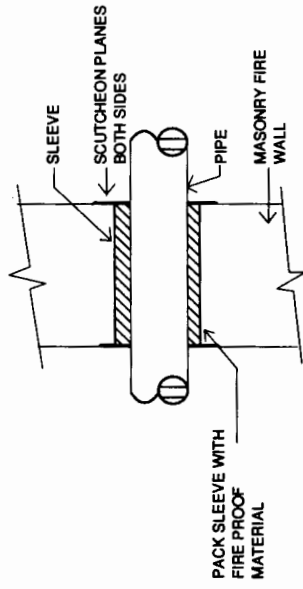


DAMPER TO COMPLY WITH N.F.P.A. 90A AND UNDERWRITES LABORATORIES

FIRE DAMPER



SINGLE 3 HOUR FIRE DOOR



PIPE PENETRATION DETAIL

B1 - PARTING 3 HOUR FIRE DOOR

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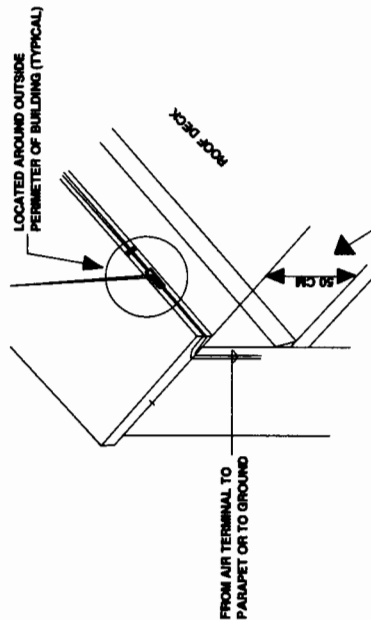
FIRE BARRIER/PENETRATIONS

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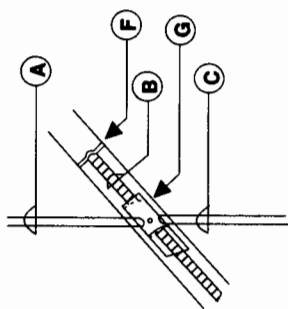
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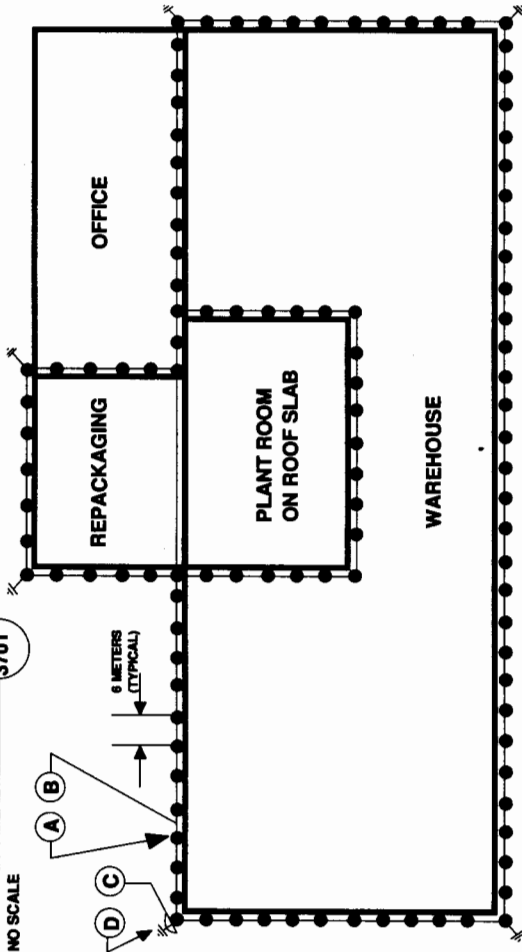
AIR TERMINAL DETAIL
NO SCALE

3701

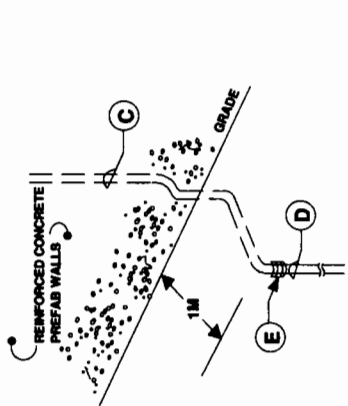


**EXPLODED VIEW OF
TERMINAL AIR BASE**
NO SCALE

3702



ROOF PLAN
NO SCALE



GROUNDING DETAIL
NO SCALE

3703

BILL OF MATERIALS

- (A) AIR TERMINAL (1.6 CM X 160 CM TUBULAR COPPER)
- (B) GROUND CABLE (HEAVY DUTY CLASS II ALUMINUM - 211,600 CIRCULAR MILLS)
- (C) LIGHTNING CONDUCTOR DOWNLEAD - 211,600 CIRCULAR MILLS (HEAVY DUTY CLASS II COPPER)
- (D) GROUND ROD (3.00 M COPPER CLAD 20 MM IN DIAMETER)
- (E) BRONZE GROUND ROD CLAMP
- (F) ALUMINUM MASONRY FASTENER (1.00 M ON CENTER)
- (G) ALUMINUM PARAPET AIR TERMINAL BASE
- (H) EXTEND LIGHTNING PROTECTION SYSTEM TO OFFICE BUILDING PERIMETER WHEN FUTURE SECOND STORY OFFICE ADDITION IS ADDED



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LIGHTNING PROTECTION

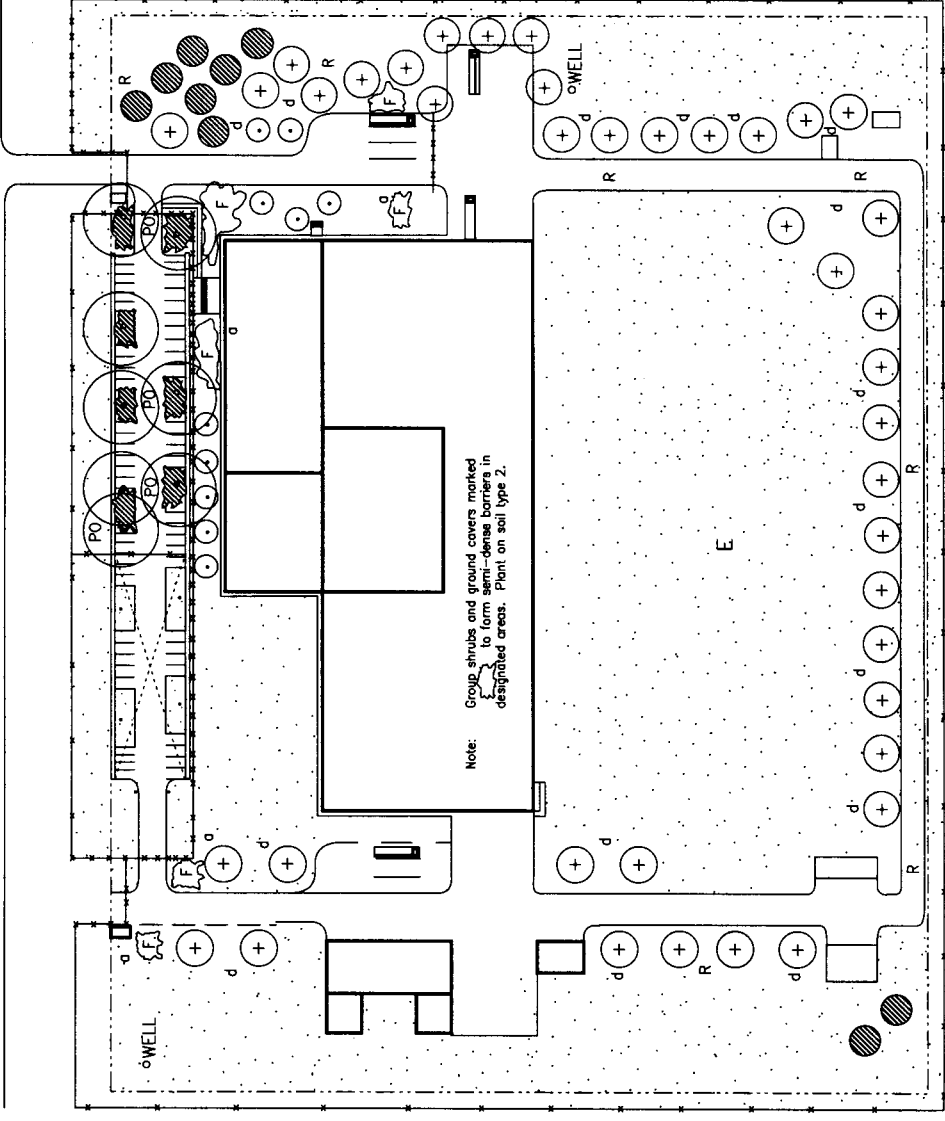
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SYMBOL	BOTANICAL NAME	SOIL	COMMON NAME
(+)	POINCIANA GILLESII	Rdb	POINCIANA
(•)	ACACIA BAYLEANA	Rcb	BAILEY ACACIA
(●)	PUNICA GRANATUM	Rdt	POMEGRANATE
(○)	EUONYMUS JAPANEUS	Rdb	EVERGREEN EUONYMUS
(■)	SEDUM ACRE	Eb	STONE-CROP (NON-FLOWERY)
(▲)	BOUGAINVILLEA GLABRA	Rdb	PUBESCENT BOUGAINVILLEA
(▼)	PHYLLISTACHYS AUREA	Fab	GOLDEN BAMBOO
(◆)	TROPAEOLUM MAJUS	Fab	COMMON NASTRUM
(◇)	PELARGONIUM PELTATUM	Fab	HYBRID GERANIUM
(◊)	RHODODENDRONINDICUM	Fab	INDIAN RHODODENDRUM
(◈)	SEDUM ELIACOMBIANUM	Fab	PERENNIAL STONE-CROP
(◉)	VIBURNUM TORMENTOSUM	Fab	DWARF CRANBERRY BUSH
(◊)	ONICERA DEMPVERVIRENS	Fab	HONEY-SUCKLES
(◈)	MONSTERA	Fab	SWISS CHEESE PLANT
(◉)	HEDERA HELIX	Rdb	ENGLISH IVY



TYPE	SOIL
a	BLACK DIRT WITH SAND
b	AVOID CLAY OR PACKING SOIL
c	NORMAL GARDEN SOIL
d	NORMAL GARDEN SOIL WITH SAND
e	GYP-SUM
f	DIRT AND GYP-SUM WITH HUMUS
g	NORMAL GARDEN SOIL WITH SAND
F	REQUIRES FREQUENT WATERING
R	REQUIRES NORMAL WATERING
E	REQUIRES LIMITED WATERING



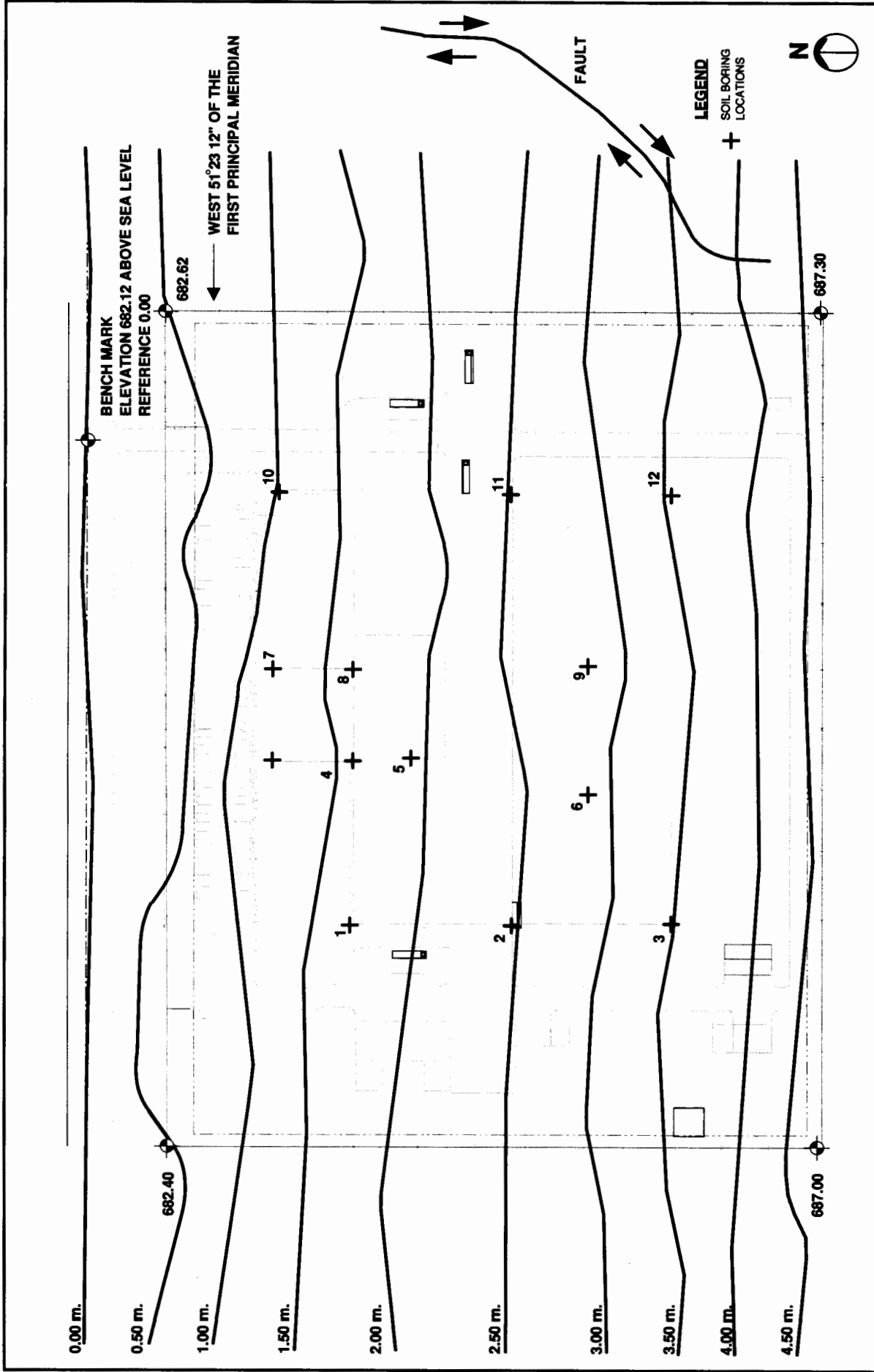
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REFERENCE TO THIS
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LANDSCAPE PLAN/SCHEDULE

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 OF VOLUME 1.

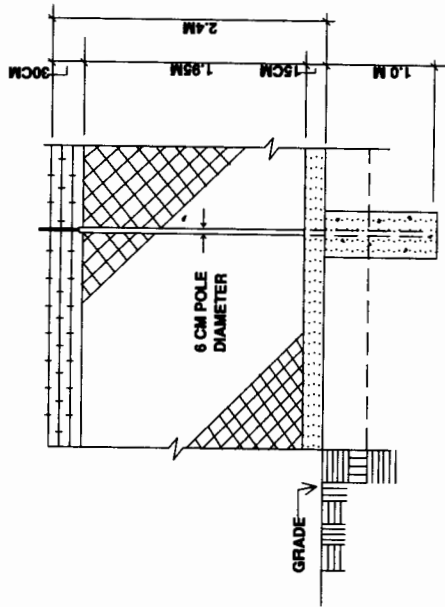
ORIGINAL SURVEY, TOPOGRAPHY, AND
 SOIL BORING LOCATIONS

CENTRAL WAREHOUSE AND
 DISTRIBUTION CENTER-TEGALO

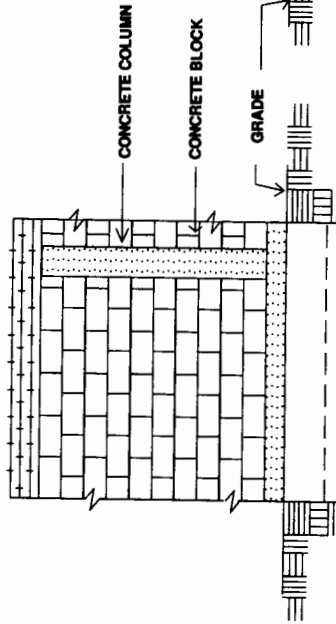
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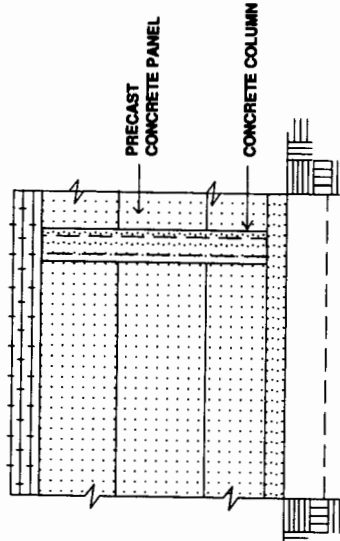
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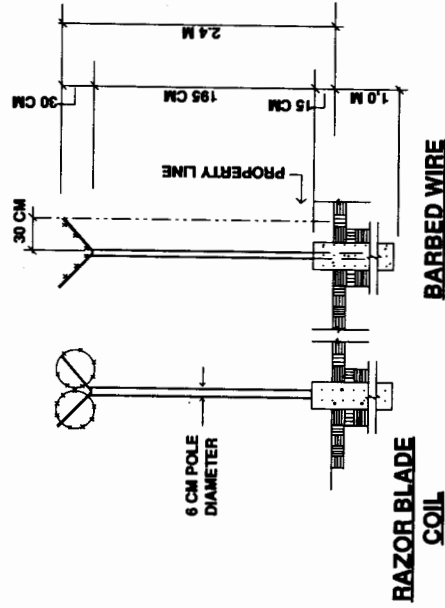
CHAINLINK FENCE



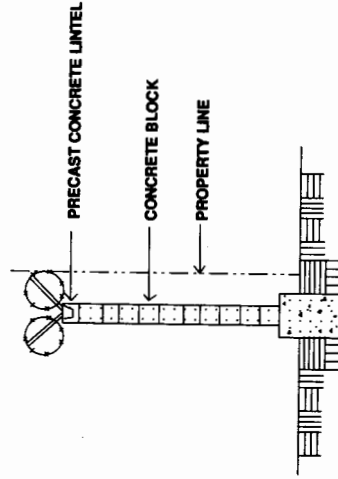
BLOCK MASONRY



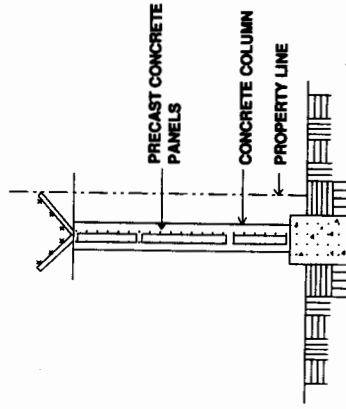
PREFAB ELEMENTS



RAZOR BLADE COIL



BLOCK MASONRY SECTION



PREFAB ELEMENTS SECTION

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REFERENCE TO THIS
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OF VOLUME 1.

FENCE ALTERNATIVES

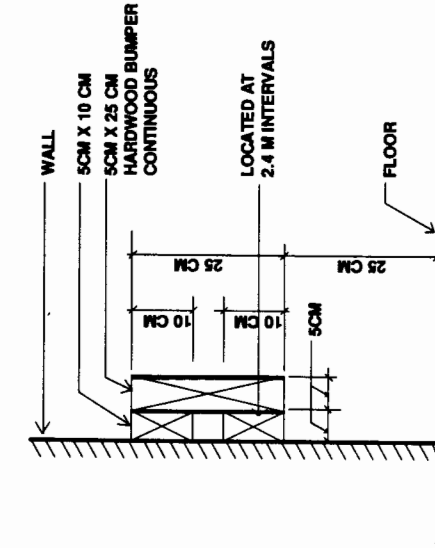
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MARCH 1, 1990

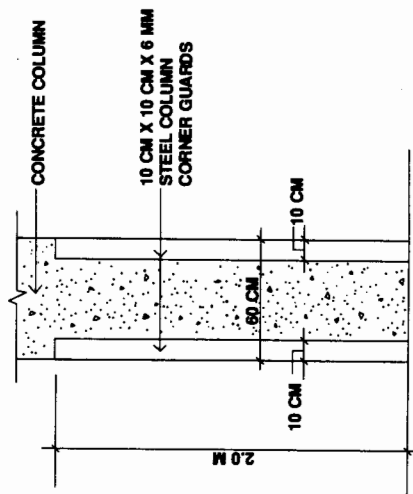
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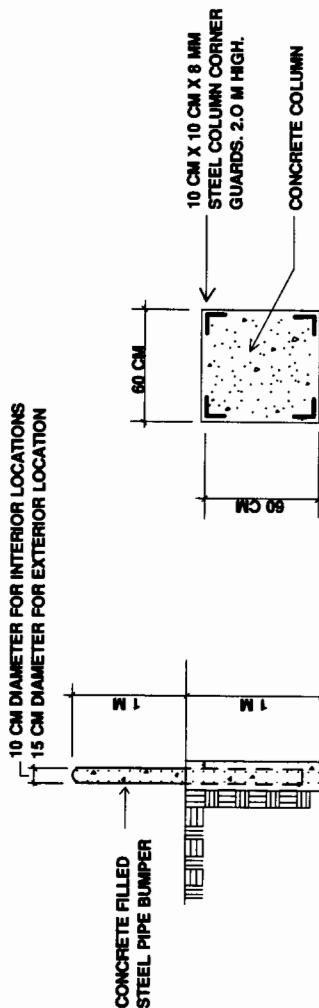
IDR-32



RIGID WALL PROTECTION DETAIL

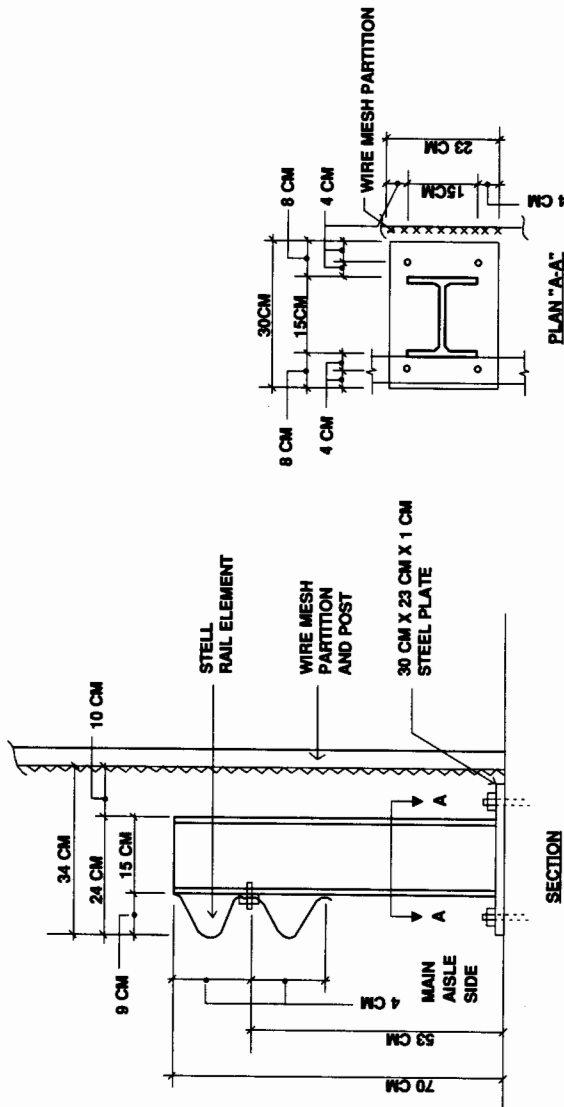


COLUMN CORNER GUARD ELEVATION



COLUMN CORNER GUARD-PLAN VIEW

BUMP POST DETAIL



WIRE MESH PARTITION PROTECTION DETAIL-MAIN AISLE

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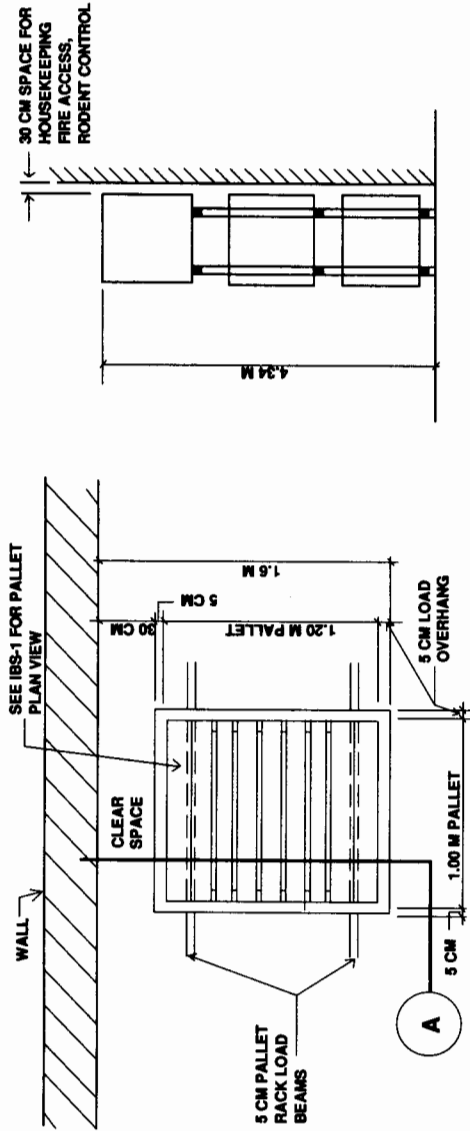
BUMPERS/GUARDS

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MARCH 1, 1990
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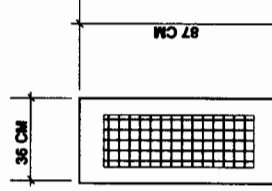
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IIDR-33



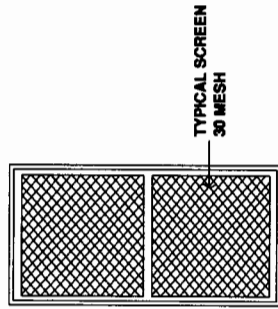
A PALLET RACK SECTION

PALLET RACK PLAN

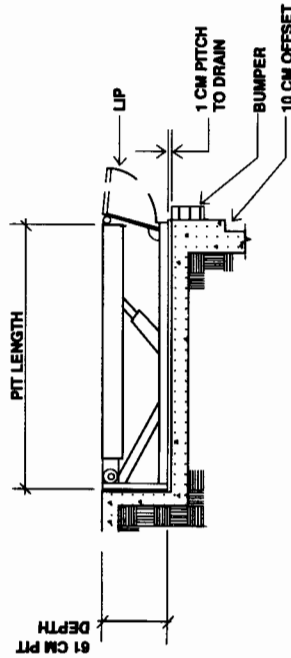


SEE IDR-24A FOR LOCATION AND IDR-24B FOR DESCRIPTION

INSECT CONTROL LAMP



WINDOW SCREEN



DOCK LEVELER DETAIL

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REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 9, 22, 35 OF VOLUME 1.

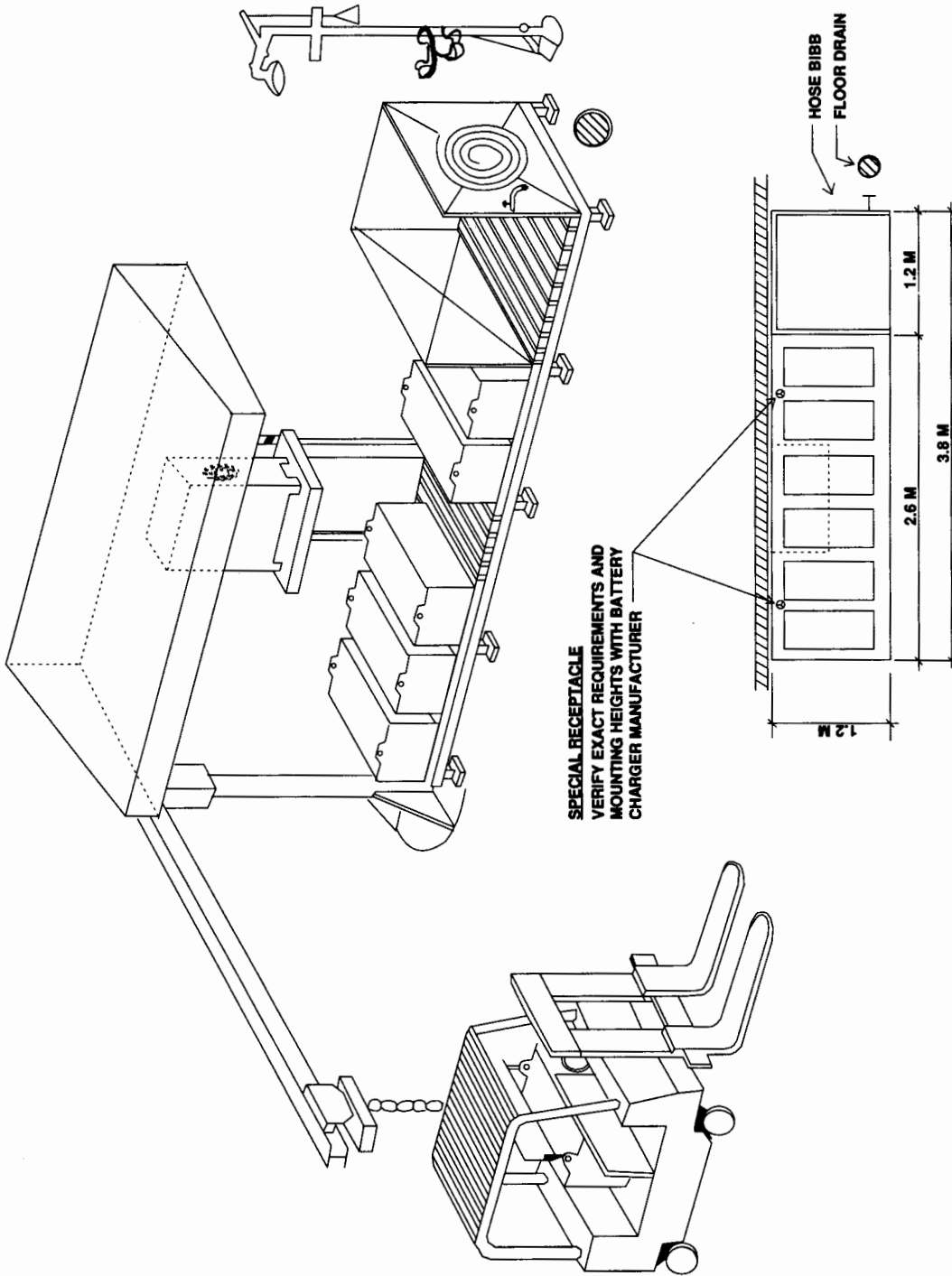
PEST CONTROL DETAILS

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IDR-34



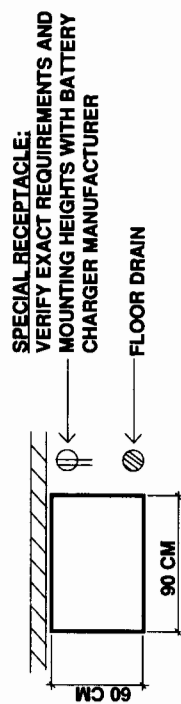
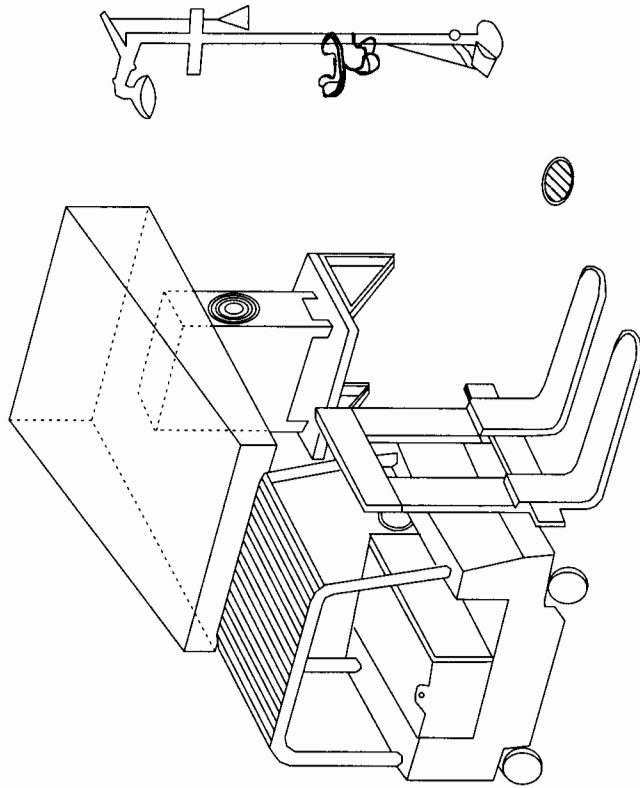
PLAN

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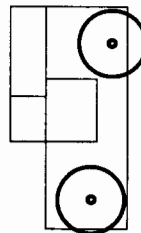
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REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 9, 26, 27 OF VOLUME 1.

BATTERY CHARGING
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KEY PLAN



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REFERENCE TO THIS DRAWING IS MADE IN CHAPTERS: 9, 26, 28 OF VOLUME 1.

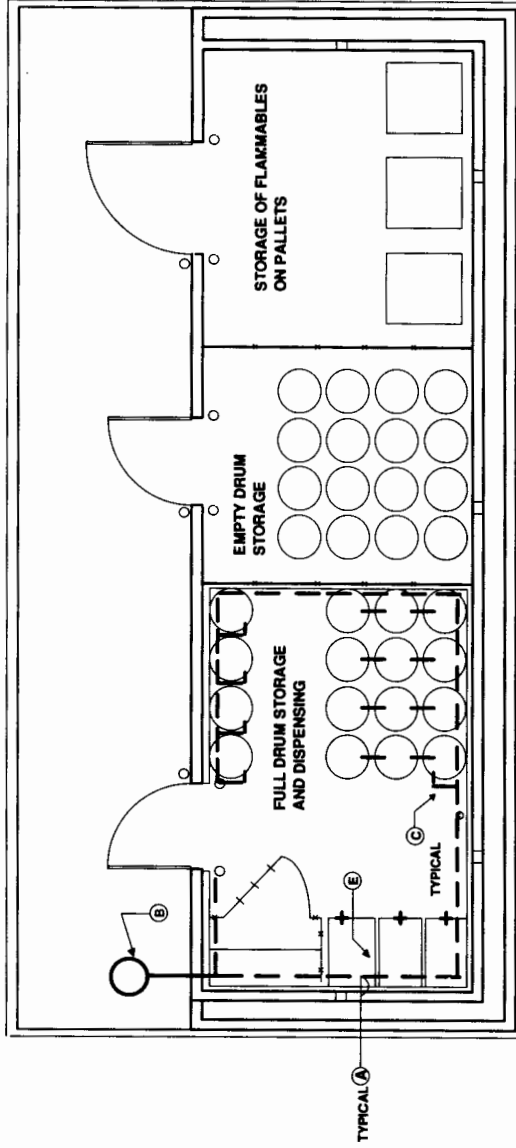
BATTERY CHARGING

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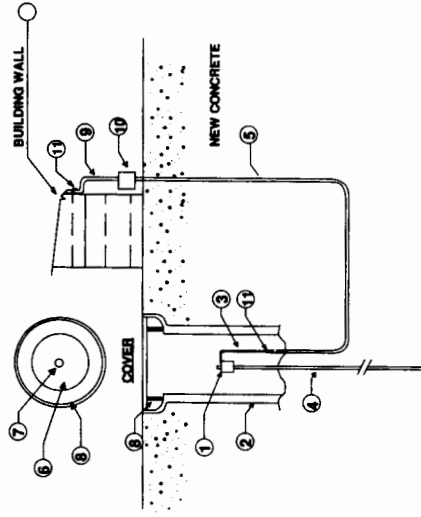
SCALE: NO SCALE

IIDR-36B



- (A) GROUND BUS (2.54 CM X 0.3175 CM FLAT COPPER) SHALL BE INSTALLED AROUND PERIMETER OF DRUM DISPENSING ROOM.
- (B) CONNECT GROUND BUS TO GROUNDING ELECTRODE AT CORNER OF BUILDING. REFER TO DETAIL THIS SHEET.
- (C) EQUIPMENT STATIC BONDING CONDUCTORS SHALL BE CONNECTED TO IDENTIFIED STATIC GROUND POINTS ON BUS BAR. GROUNDING TO BUILDING STEEL, WATER PIPES OR OTHER MEMBERS IS NOT PERMITTED.
- (D) ALL PORTABLE METALLIC CONTAINERS USED FOR FLAMMABLE LIQUIDS OR MATERIALS SHALL BE GROUNDING.
- (E) PORTABLE METALLIC VESSELS SHALL BE GROUNDING BY CLAMPS AND BONDING CABLES.

GROUNDING ROD WELL NO SCALE



- (1) GROUND ROD CLAMP
- (2) 20 CM X 61 CM CAST STEEL SOIL PIPE
- (3) BARE STRANDED # 1/0 COPPER GROUND WIRE
- (4) 3 M X 1.5 CM COPPER CLAD GROUND WIRE
- (5) 2 CM CONDUIT
- (6) 0.8 CM STEEL PLATE
- (7) 2 CM DIAMETER LIFT HOLE
- (8) WELL TO COVER - 0.3175 CM X 0.3175 CM RING
- (9) TO STATIC GROUND BUS
- (10) SEAL
- (11) CONDUIT HUBS

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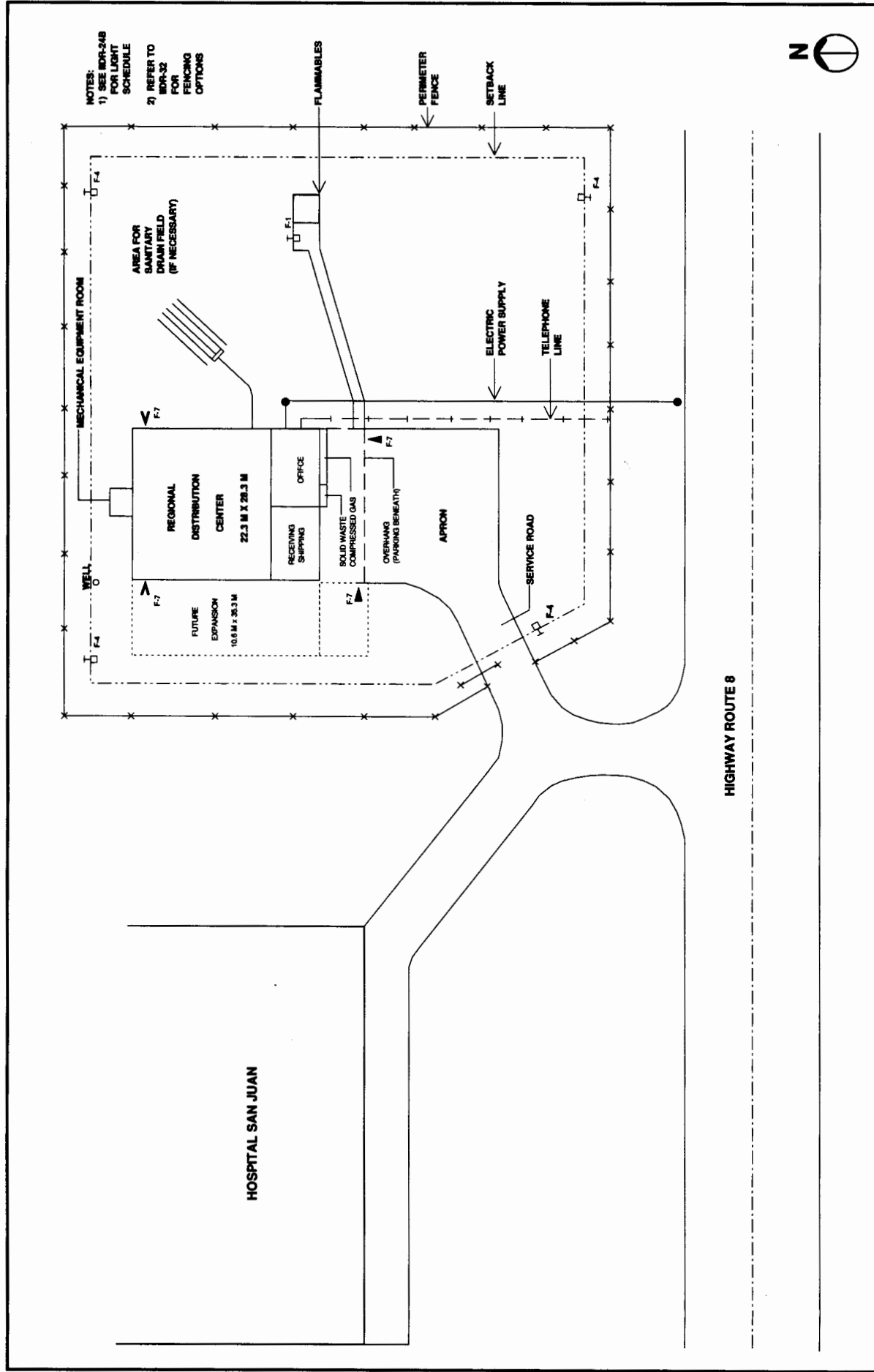
REFERENCE TO THIS
DRAWING IS MADE IN
CHAPTERS: 6, 9, 26
OF VOLUME 1.

GROUNDING/BONDING DETAILS

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