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NATIONAL BUREAU OF STANDARDS REPORT

10 211

Operation Breakthrough

Preliminary Report

EXISTING BUILDING AND DEVELOPMENTAL REGULATIONS IN SEATTLE, WASHINGTON

Sponsored by
Department of Housing
and Urban Development



U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards¹ was established by an act of Congress March 3, 1901. Today, in addition to serving as the Nation's central measurement laboratory, the Bureau is a principal focal point in the Federal Government for assuring maximum application of the physical and engineering sciences to the advancement of technology in industry and commerce. To this end the Bureau conducts research and provides central national services in four broad program areas. These are: (1) basic measurements and standards, (2) materials measurements and standards, (3) technological measurements and standards, and (4) transfer of technology.

The Bureau comprises the Institute for Basic Standards, the Institute for Materials Research, the Institute for Applied Technology, the Center for Radiation Research, the Center for Computer Sciences and Technology, and the Office for Information Programs.

THE INSTITUTE FOR BASIC STANDARDS provides the central basis within the United States of a complete and consistent system of physical measurement; coordinates that system with measurement systems of other nations; and furnishes essential services leading to accurate and uniform physical measurements throughout the Nation's scientific community, industry, and commerce. The Institute consists of an Office of Measurement Services and the following technical divisions:

Applied Mathematics—Electricity—Metrology—Mechanics—Heat—Atomic and Molecular Physics—Radio Physics²—Radio Engineering²—Time and Frequency²—Astrophysics²—Cryogenics.²

THE INSTITUTE FOR MATERIALS RESEARCH conducts materials research leading to improved methods of measurement standards, and data on the properties of well-characterized materials needed by industry, commerce, educational institutions, and Government; develops, produces, and distributes standard reference materials; relates the physical and chemical properties of materials to their behavior and their interaction with their environments; and provides advisory and research services to other Government agencies. The Institute consists of an Office of Standard Reference Materials and the following divisions:

Analytical Chemistry—Polymers—Metallurgy—Inorganic Materials—Physical Chemistry.

THE INSTITUTE FOR APPLIED TECHNOLOGY provides technical services to promote the use of available technology and to facilitate technological innovation in industry and Government; cooperates with public and private organizations in the development of technological standards, and test methodologies; and provides advisory and research services for Federal, state, and local government agencies. The Institute consists of the following technical divisions and offices:

Engineering Standards—Weights and Measures—Invention and Innovation—Vehicle Systems Research—Product Evaluation—Building Research—Instrument Shops—Measurement Engineering—Electronic Technology—Technical Analysis.

THE CENTER FOR RADIATION RESEARCH engages in research, measurement, and application of radiation to the solution of Bureau mission problems and the problems of other agencies and institutions. The Center consists of the following divisions:

Reactor Radiation—Linac Radiation—Nuclear Radiation—Applied Radiation.

THE CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides technical services designed to aid Government agencies in the selection, acquisition, and effective use of automatic data processing equipment; and serves as the principal focus for the development of Federal standards for automatic data processing equipment, techniques, and computer languages. The Center consists of the following offices and divisions:

Information Processing Standards—Computer Information—Computer Services—Systems Development—Information Processing Technology.

THE OFFICE FOR INFORMATION PROGRAMS promotes optimum dissemination and accessibility of scientific information generated within NBS and other agencies of the Federal government; promotes the development of the National Standard Reference Data System and a system of information analysis centers dealing with the broader aspects of the National Measurement System, and provides appropriate services to ensure that the NBS staff has optimum accessibility to the scientific information of the world. The Office consists of the following organizational units:

Office of Standard Reference Data—Clearinghouse for Federal Scientific and Technical Information³—Office of Technical Information and Publications—Library—Office of Public Information—Office of International Relations.

¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.

² Located at Boulder, Colorado 80302.

³ Located at 5285 Port Royal Road, Springfield, Virginia 22151.

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NBS PROJECT

4213400-421.00

May 15, 1970

NBS REPORT

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by

The Building Research Division Team

E. O. Pfrang, Manager

Sponsored by
Department of Housing
and Urban Development

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U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

INTRODUCTION

This report lists the regulatory documents that apply to the Department of Housing and Urban Development Operation Breakthrough site in the City of Seattle, Washington; the documents themselves, insofar as they are obtainable, are also furnished. The report's overall content is indicated by its Table of Contents:

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II Regulatory Data: Listing

The documents, codes and standards listed herein are applicable to the construction of housing in the City of Seattle, Washington.

- 1** City of Seattle Building Code, available from:

Seattle Building Department
Room 503 Municipal Building
4th and James Streets
Seattle, Washington 98104 \$5.50
(206) JU 3-2268
- 2** The Uniform Building Code Standards (1967 edition), available from:

The International Conference of Building Officials
50 South Los Robles
Pasadena, California 91101 \$19.50
(213) 684-1310
- 3** City of Seattle and King County Plumbing Code, available from:

The Seattle-King County Dept. of Health
Room 900, Public Safety Building
Seattle, Washington \$1.00
Mr. Fred King (206) 583-2054
- 4** City of Seattle Electrical Code, available from:

Book Publishing Company
2518 Western Avenue
Seattle, Washington 98121 \$10.45
(206) MA3-4221
- 5** Zoning and Platting Code with insertion guide, dated 10/31/69, available from:

Book Publishing Company
2518 Western Avenue
Seattle, Washington 98121 \$7.30
- 6** City of Seattle, Elevator, Escalator and Dumbwaiter Ordinance No. 97178, 1968, available from:

Book Publishing Company
2518 Western Avenue
Seattle, Washington 98121

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- 7 American Standard Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks, A17.1-1965, available from:

American Society of Mechanical Engineers
United Engineering Center
345 E. 47th Street
New York, New York 10017 \$7.50
(212) PL2-6800

- 8 a. Ordinance No. 97016, relating to sewerage and drainage from public and private premises.
b. Ordinance No. 90047, Street Use Ordinance.

Both of the above documents are available from:

Seattle Building Department
Room 503 Municipal Building
4th and James Streets
Seattle, Washington 98104
(206) JU3-2268

- 9 Safety Code for Construction Work, available from:

Department of Labor and Industries
Division of Safety
Olympia, Washington

III Regulatory Data: Comments and Explanations

Note 1: The several regulatory codes applicable to this site, and included herewith, together with such other generally recognized codes and standards as may be referenced in them, will furnish the housing system producer and/or the site developer with all of the requirements for usual housing construction on the site. These may be subject to waiver procedures to the extent the proposed housing system is at variance with the existing requirements.

Note 2: It should be noted that the State of Washington has recently legislated authorization for the development and promulgation of regulations governing the construction of factory-built housing. These State regulations (scheduled for an effective date of July 1, 1970) will become mandatory throughout the State. Evaluations of this type of construction will be handled by the State and the approvals given (and limitations thereof) will become binding on all local jurisdictions. Officials directly involved in this activity are:

Dr. Richard Slavin, Director
Planning and Community Affairs Agency
1306 Capitol Way
Olympia, Washington 98501 (206) 753-5625

and

Mr. John E. Hillier
Department of Labor and Industries
Olympia, Washington 98501 (206) 753-6309

General

Building permits for all types of buildings are obtainable from the Seattle Building Department.

Drawings accompanying permit applications for work costing the owner over \$1,000 must be prepared by, or prepared under the direct supervision of a licensed (in the State of Washington) architect or structural engineer.

Plants engaged in the manufacture of pre-stressed or precast concrete structural products, premixed concrete, unit masonry products, prefabricated or assembly line produced standard steel products, or engineered wood products, which have not been certified shall not furnish such products for use in the city unless such product is manufactured under approved inspection by a registered special inspector.

The City code, in Section 3.02.080 references the Uniform Building Code Standards, 1967 Edition, and the latter are made part of this code.

Appeal and hearing procedures are described in the Building Code.

III Regulatory Data: Comments and Explanations -- Page 2

The City of Seattle has two ordinances of interest to those planning on building in the City. Ordinance 97016 pertains to sewerage and drainage from public and private premises and regulates the construction, alteration, repair and connection of side sewers and the planting of certain trees and shrubs in the proximity of sewers and drains.

Ordinance 90047 regulates the use, occupation and conduct of persons in and upon the public streets and public places within the City of Seattle. It covers driveways, signs, building operations, scaffolding, debris, excavations, the use of heavy equipment, spilled loads, etc.

Zoning:

The Operation Breakthrough site in the City of Seattle is located in an Urban Renewal area. The site area is being developed in the City of Seattle, Community Development Department and is known as the Yesler Atlantic Neighborhood Improvement Project.

Electrical:

The numbering system of the Seattle electrical code is designed for correlation with the National Electrical Code. With some exceptions, the last five digits of each section number correspond with the section number assigned to a similar section in the National Electrical Code.

Plumbing:

Ordinance 95168, effective 2/2/69, amends the plumbing code by adding Section 5.01.375. This permits a currently licensed journeyman plumber from cities, counties or states outside Seattle, King County or Washington to work as journeyman plumbers in Seattle and King County under certain conditions as required by the Plumbing Code.

The City and the County both use the same basic code but each has made separate amendments. As an example, both approve the use of plastic DWV piping, but the County permits its use underground while the city does not.

Elevators:

The City of Seattle uses and enforces the latest (1965) edition of the A17 Elevator Code. One important change promulgated by the City requires a special control switch enabling city firemen to manually take over the control of elevators used in buildings having eight or more stories.

IV Administration--Seattle

Administration of Codes:

Building
Electrical
Elevator
Mechanical
Zoning

Mr. Lester J. Gillis
Acting Superintendent of Buildings
The Department of Buildings
Room 503 Municipal Building
4th and James Streets
Seattle, Washington 98104
(206) JU3-2268

Plumbing

Mr. F. J. King
Seattle-King County Health Department
904 Public Safety Building
Seattle, Washington 98104
(206) 583-2054

Planning Agencies:

Mr. John Cannon
Seattle Community Development Department
2017 South Jackson Street
Seattle, Washington 98144
(206) JU3-2071

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