

THE HALLER TESTING LABORATORIES, Inc.

Report for **Maine Medical Center**

Report No. **35446** Sheet **2**

All construction connections at this time are loosely bolted allowing uniform settlement of structure to original grade prior to frost heave.

Contractor requested to halt further progress until base plates settle to original grade.

Respectfully submitted,

THE HALLER TESTING LABORATORIES, INC.

Robert L. Magee

Robert L. Magee
Manager N. E. District

RLM:jd

cc: Voorhees, Walker, Foley & Smith (3)
Mr. McDonald (1)
Mr. Perry (1)

Maine Medical Center
Bramhall St

February 16, 1955

AFFIDAVIT

TO WHOM IT MAY CONCERN:

It is hereby certified that all welding in connection with the fabrication of the approximate three (3) tons of Bethlehem Open Web Steel Joists furnished to the Bancroft & Martin Rollins Mills Company under Bethlehem Contract No. F57049-C for use in construction of a new building for Maine Medical Center in Portland, Maine, has been designed and all shop welding has been performed according to the procedure and by properly qualified welders as set forth in the code and qualification procedure established by the American Welding Society.

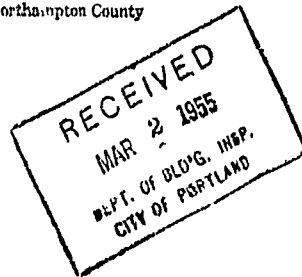
BETHLEHEM STEEL COMPANY

A. B. Brown
Manager of Sales

Subscribed and sworn to before me this 16th day of February, 1955.

Katharine A. Vanuatta

My Commission Expires
March 31, 1955
City of Bethlehem
Northampton County



VOORHEES WALKER SMITH & SMITH

101 PARK AVENUE · NEW YORK 17

STEPHEN F. VOORHEES, R.A.

RALPH WALKER, R.A.

FERRY COKE SMITH, R.A.

BENJAMIN LANE SMITH, R.A.

MAINE MEDICAL CENTER-
PORTLAND-NEW BUILDING- 1653

February 16, 1955

*File to note
Mr. McDonald
2/17/55*

Mr. Warren McDonald, Building Inspector
Building Department
City of Portland, Maine

Dear Mr. McDonald:

Please refer to paragraph 7.41 in your letter of February 8, 1955. At a meeting with the Owner on February 15, 1955, the Building Committee stated negotiations were underway for the purchase of the adjoining property. They do not wish at this time to send a written directive to the Contractor regarding wire glass in the windows adjoining the lot line. It is suggested you get in touch with Mr. George Bradley, Co-Chairman of the Building Committee if you wish to discuss this matter further.

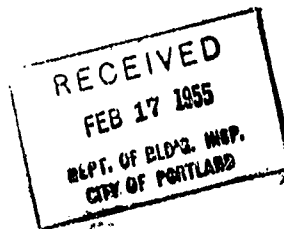
Very truly yours,

VOORHEES WALKER SMITH & SMITH

BY:

Alonzo Clark

Alonzo Clark:ph
cc: Owner (4)



February 6, 1955

AP 2-32 Bramhall St.--Maine Medical Center--No. 8

Voorhes Walker Foley & Smith
Attn. Mr. Alonzo W. Clark
101 Park Ave.
New York 17, New York

Copies to John A. Volpe Const. Co. Inc.
Messrs. Bradley, Rosenberger,
Nortenson and Ferry

Gentlemen:

This letter is our No. 8, but most of the numbered paragraphs will be referred to letter No. 7. Only new subjects will be numbered 8.

7.41 Please let us have a copy of a written directive to the contractor to provide wire glass in these specific windows. If you have not decided on the pattern of the wire, that can be settled later without notice to us, just so the glass qualifies as fire-resistant.

7.42 Answered in your letter to general contractor of 1/11/55. It is understood that you are placing the responsibility on the contractor as to safety of the doors against quick descent and the ease of manual operation.

7.43 Answered by your letter of 1/11/55 to contractor.

7.44 We agree the exit lights in enclosure for stairway No. 3 at ground floor are not necessary; but there should be an exit sign over the doorway (052) leading to the outside. The exit light at the foot of these stairs from first floor is, however, to be directional to indicate 052. Care should be used in locating this directional exit light so that it will clearly indicate 052, not the door to lobby. (See later paragraph relating to swing of this door from stair enclosure to lobby).

Presumably you are now revising the electrical drawings concerning these items and when prints are available, a set of the plans changed in these particulars as to exit lights only should be filed by the contractor with application for amendment to the general construction permit, this application for amendment to which this paragraph 7.44 concerns.

As to the non-electric exit signs, please show these on the plans or in some other manner for our records so that it will be clear where they are required, not leaving it to some later date when the confusion of closing up the job will be sufficient without having this question come up again.

7.45 Understood Mr. Ferry as to bring in a sample of the "vestibule latchset" to be used. Presumably you are agreeing to the arrangements indicated of "free side" as indicated in my letter. To avoid misunderstanding later, please give written instructions to the contractor to that effect, enumerating each item rather than merely referring to our letter.

We have found no answers to the following:

Hardware for 002, Main Entrance--are there to be any locks or fastenings? What about "dead lock" specified for door 134--Teaching and Conference first floor?

How is hardware to be arranged for 152 (two leaves, each only two feet wide) to make full width of opening available instantly?

How about 604? Will it have any locks of any description? How is it to be made available for instant opening from both sides?

What about the dead bolts specified in specifications Div. 29, 28a? Will these occur in any doors required in a means of egress?

February 8, 1955

- 7.46 Cared for in your letter to contractor of 1/11/55.
- 7.47 Partial answer in your letter to contractor. Contractor should see to it that these blocks are no less than 61 percent solid using at least one-half inch 2:3 gypsum sand plaster on the outside.
- 7.48 We have certificate and report from Otis on the elevator and dumbwaiter shaftway doors. Approval by BOCA indicate that each door is identified by a label or marking. Our inspector will have to check for that when the doors arrive, and the contractor should check before the doors are hung.
- 7.49 Answered by your letter to us of 1/11/55--no hazardous rooms other than Alcohol Storage.
- 7.50 Answered by letter to contractor.
- 7.51 Our error, taken care of by original plans.
- 7.52 From conference with Messrs. Mortenson and Perry we learned that new incinerator is not to be provided, but existing incinerator is to be connected to new stack in manner shown on the plan, but the new stack is proposed somewhat differently than shown on the plans. If that is the final decision, application for a separate permit should be made by the party to install new smokepipe connection and settling chamber up to connection of the new stack, and that party should be prepared to settle the question of spark arrester as called for by our Code, Section 304 d3, and Underwriters' Pamphlet 82, Section 3.12. If the designer intends the "settling chamber" in lieu of a spark arrester, that statement should appear on the application for the permit. Also the application should indicate how the breeching and settling chamber are to be lined. (See Section 3.10 of Pamphlet 82). See later paragraph concerning the stack or chimney.
- 7.53 It is understood that the installer of boiler and oil burner assembly will either be prepared to indicate upon the application for separate permit that the oil burner assembly carries the label of Underwriters' Laboratories, Inc. or will file with the application a statement by the owner showing that a competent attendant will be constantly on duty in the room where the oil burner is burning oil.
- * * * * *
- 8.54 At our conference yesterday Messrs. Mortensen and Perry thought that the stack or chimney will be entirely of brick 8 inches in thickness, lined with no less than 1/4 and one-half inches thickness of fire brick laid in fire clay. While Pamphlet 82 requires this lining "for the full height of the flue", it will be satisfactory to start the fire brick lining at two feet below the breeching connection--the chimney wall below that point to be 12 inches thick of the same brick as used in the rest of the chimney. Please let us have a copy of your letter to the contractor directing in specific detail what has finally been decided upon.
- 8.55 Mr. Perry says that those who are working out the decorative features of the main lobby would like to have door 653 swing into the lobby instead of into the stairway enclosure as shown on the plans. Since this doorway is not counted as a required means of egress and since there is no exit light over it on the lobby side, we shall make no objection to this change. However, it is hoped that the change will not be made, based only on our acceptance of it, if you do not actually approve.

February 9, 1955

8.56 All of the above work except elevators and dumbwaiters, installation of new connection to chimney and existing incinerator, and installation of oil burning equipment is included in the general construction permit, which we have already issued with conditions attached to the above features. We do not desire to complicate our relationship with the job, but in order for us to keep the record straight it is necessary that any substantial changes be covered by application for amendment to the permit already issued. For instance the revision of plans to show new exit lights and to show the detailed construction of the stack should be filed with the application for such an amendment before the work reaches those stages. We will be glad to have one amendment cover both of these changes and any others that may come up in the meantime, which the Building Code affects. However, I understand that they are nearly ready to start on the chimney and it will be in order to file application for these amendments when the revised plans are ready if the exit lights have not been shown on the plans at that time.

Very truly yours,

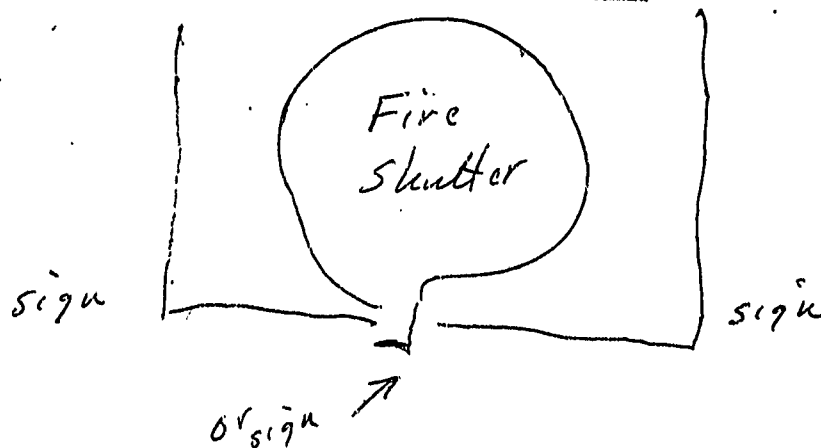
WMC/D

Warren McDonald
Inspector of Buildings

Dear Mr. Rosenberger:

Your attention is particularly called to the matter of providing a suitable sign at the rolling steel shutters to instruct all concerned as to how they are to be operated and under what circumstances. This is a matter which will finally be settled by your administration of the Hospital, and I hope you will not take it amiss if I urge that all of those who might be called upon to operate the rolling steel shutters be instructed and practiced so that they will know how and when to use them to provide an area of refuge for patients and others.

Warren McDonald

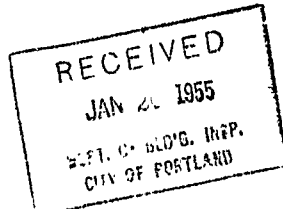


INDUSTRIAL PIPING - PLUMBING - HEATING - SHEET METAL FABRICATION - REFRIGERATION

*File
copy
made
Jan 12 1955*

The Mahaney Company
Engineers and Contractors
Biddeford, Maine
January 25, 1955

Mr. Warren McDonald
Inspector of Buildings
City Hall
Portland, Maine



Dear Mr. McDonald:

The writer wants to thank you for explaining your requirements on work we are to perform at the Maine Medical Center.

Our Company will do everything possible to cooperate with your inspectors so that the job will run smoothly.

Thanking you again, we remain,

Very truly yours,
THE MAHANEY COMPANY

BY *J. Mahaney*
J.V. Mahaney, Treas.

JVM: jlm

January 21, 1955

HP 2-32 Brashall St.—Mechanical equipment for Maine Medical Center

Mr. J. V. Mahaney, Treas.
The Mahaney Co.,
Biddeford, Maine

Copies to John A. Volps Const. Co., Inc.
and Messrs. Kortanson and Perry

Dear Mr. Mahaney:

To answer your inquiry of January 11 concerning necessary information as to oil tanks, gas piping, sprinklers, refrigeration, ventilation, incinerator, welding, boiler burning unit, and kitchen ranges at Maine Medical Center, I will repeat a part of my letter of December 27 to the general contractor.

Besides a separate permit for electrical work, which is to be procured from the Electrical Department by application by licensed electrician at the Office of Chief of the Fire Department, and the permit for plumbing work, which is to be applied for by a licensed plumber at the Health Department, the following separate permits are required from this department to be applied for by and issuable only to the actual contractor or installer for each particular item:

1. Oil and oil burning equipment including tanks and all connections.
Oil tanks may be set in the excavation and supports and anchorage provided, but no connections to the tanks are to be made until the permit has been secured. After connections have been made this office must be given notice of readiness for inspection and approval must be given before the work is covered from view.
OK
- OK Incinerator, whether alterations to existing incinerator or a new one.
Range in kitchen and other cooking and hot water heating appliances, whether in kitchen or elsewhere. Even if operated by electricity, separate permits are required by installer in addition to permits from the Electrical Department for the electrical work. The installers of range, or fryers should get coordinated with ventilation contractor, especially as regards location and arrangement of range hood and ventilating system.
All mechanical systems of ventilation including range hood and ventilation system therefor.
Mechanical refrigeration other than merely the "plug-in" domestic type.
Automatic sprinkler system. With this application must be filed complete plans bearing upon them the stamp of approval of an authoritative fire insurance rating bureau such as New England. Rating engineers dislike approving such partial plans, but will do so after they understand that it does not guarantee any reduction of rates.
OK Elevators and dumbwaiters.
- OK 2. Gas-fitter is required to test all gas-piping as per Sect. 502e5 of the Code, and when all is found satisfactory, to file at this office a certificate to that effect on form or "tag" furnished by this office.
- OK 3. All welding operators performing work at the site or work for this job in shops within the Portland area are required to be certified from this office to show that they have qualified themselves according to the Procedure of the American Welding Society within one year prior to the time of doing welding, and they are required to bear the certificate from this department upon their person while welding.

Mr. J. V. Mahaney-----2

January 21, 1955

4. In case of welding being done in shops outside of the Portland area, as for instance steel joists, the manufacturer of the joists is required to file at this office through the general contractor, as follows:

This is to certify that all welding performed by this Company in connection with the Maine Medical Center job at 2-32 Bramhall St. in Portland, Maine, has been designed and all shop welding has been performed according to the procedure established by The American Welding Society; and that all welding operators engaged in this work have been properly qualified within one year prior to the actual date of doing welding, according to the qualification procedure established by The American Welding Society.

(Name of manufacturer)

(Title)
fully authorized thereto

Your Mr. Hasey hastalked with me, and I have told him that the welding operations that we are interested in are those on the fuel oil tanks and the structural work of the building itself--the latter, of course, you are not interested in. When you apply for a permit to install the oil burning equipment (this must be done and the permit actually secured before the burners, connecting lines etc. are set up or connected) you are expected to file all information about the design of the tanks and the certification of the welders.

If the tanks will bear on them the label of Underwriters' Laboratories, Inc. for underground tanks, which may be observed by the Fire Department Inspector (you are required to notify the Fire Department for inspection before these tanks and connections are covered up), that fact should be stated on the application for the permit applying specifically to the tanks. If the tanks are not to bear the Underwriters' label, then you must file with the application the design plan of the tanks showing the thickness of the shell and all structural parts, and this plan must bear upon it the signed statement of design of a competent designer, who has made or taken the responsibility for the design including the design of the welded joints. A blank statement of design is enclosed.

If the welding on the tanks has been or is to be done within the Portland area, the application for the permit should indicate what Company so that we can check up to see if they have effectively certified welders. If the welding on the tanks is to be done outside of the Portland area, please refer to paragraph numbered 4 above for the procedure, and see to it that this statement signed by the proper parties is filed with the application for the permit.

All of the ventilation system, including range hoods and vents therefrom, are to comply with Pamphlet #90 of NFPA, Standards of the National Board of Fire Underwriters for Installation of Air-Conditioning, Warm Air Heating, Air Cooling and Ventilating Systems; and, as applicable, NFPA Pamphlet, Regulations of NBFU for Installation of Boiler and Exhaust Systems for Dust, Stock and Vapor Removals.

With regard to incinerator, its stack and the oil burning equipment, I will repeat from my letter of December 27 to the architects:

- 7.52 On what basis is contract--alteration of existing incinerator or construction of new one. In either case standards set by our Code is NBFU Pamphlet 82, Standard for Incinerators--for incinerator, breeching, stack and all other details not specified in text of Code.
Details of incinerator will be checked closely when required separate permit for its installation or alteration is applied for by actual installer.

Mr. J. V. Mahoney-----3

January 21, 1955

Note particularly requirements for spark arrester Code Sect. 304d3 and NFPA 312. Should there not be some barrier in charging room to prevent burnable material coming in contact with settling chamber?

NFPA 311 seems to require 6-inch thickness of brick lined with fire brick within the building, instead of 4 inches shown. Perhaps you can secure some other interpretation from 85 John St.

Have not found specified thickness of shell of steel stack. Sect. 304d2 requires no less than 3/16's of an inch. Fire brick lining is specified full height of stack as required, but plans are not specific. Please make clear how far brick shell with fire brick lining extends upwards, and whether the steel stack extends clear to concrete base.

7.53 New oil burner is termed semi-automatic, but indication of Underwriters' label has not been found. Unless a competent attendant will be constantly on duty in the room where this oil burner is burning oil, label of Underwriters' Lab. will be required on the oil burner assembly. If condition as to constant attendant is to obtain, please see to it that owners file written statement to that effect with separate application for installation by actual installer.

We mean to cooperate with you in this work, and, no doubt, your force will coordinate with the general contractor, Supt. Perry and the architects so that all will go along smoothly.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMC/B

9 p.m.



Portion of letter received from Department of Building
Inspection, City of Portland, Maine, December 27, 1954:

"All welding operators performing work at the site or work for
this job in shops within the Portland area are required to be
certified from this office to show that they have qualified
themselves according to the Procedure of The American Welding
Society within one year prior to the time of doing welding, and
they are required to bear the certificate from this department
upon their person while welding.

In case of welding being done in shops outside of the Portland
area, as for instance steel joists, the manufacturer of the
joists is required to file at this office through the general
contractor, as follows:

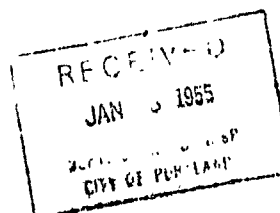
This is to certify that all welding performed by this
Company in connection with the Maine Medical Center job at 2-32
Bramhall St. in Portland, Maine, has been designed and all shop
welding has been performed according to the procedure established
by The American Welding Society; and that all welding operators
engaged in this work have been properly qualified within one year
prior to the actual date of doing welding, according to the
qualification procedure established by The American Welding Society.

Bancroft and Martin
Rolling Mills Company
(Name of Manufacturer)

Robert M. Chase
Robert M. Chase, Engineer (Title)
duly authorized thereto

Mail to:

John A Volpe Construction Company
ATT: Mr Rossetti



JOHN A. VOLPE CONSTRUCTION CO., Inc.

54 EASTERN AVE., MALDEN 48, MASS.

TELEPHONE MALDEN 28450

Date: 1/12/55

To: Mr. MacDonald
Building Department
Portland, Maine

Project: MAINE MEDICAL CENTER 1653

Gentlemen:

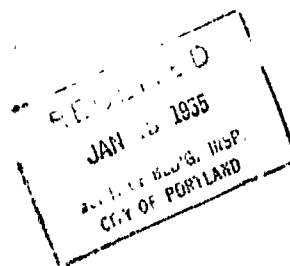
We are sending to you herewith
 under separate cover

1 copies each of Drawings # Certificate of Welding from The Bancroft and Martin
Rolling Mills Company

For:

approval final approval use on job
 checking and correction your information
 your drawing approved by architect or engineer as corrected
 your final approved drawings

Submitted by: Bancroft and Martin



Very truly yours,

JOHN A. VOLPE CONSTRUCTION CO., INC.

By Phillip A. Rossetti

VOORHEES WALKER SMITH & SMITH

101 PARK AVENUE • NEW YORK 17

STEPHEN F. VOORHEES, B.A.

RALPH WALKER, B.A.

PERRY COKE SMITH, B.A.

BENJAMIN LANE SMITH, B.A.

January 11, 1955

MAINE MEDICAL CENTER-
PORTLAND-NEW BUILDING- 1 6 5 3

Mr. Warren McDonald, Building Inspector
Building Department
City of Portland, Maine

Dear Mr. McDonald:

Attached is a copy of our letter of January 11, 1955 addressed to the John A. Volpe Construction Company, written in accordance with your request of December 27, 1954. Further comments are as follows:

7.41 There is no change in our agreement with you, reported in the Minutes of our Meeting of August 5, 1954, reserving wire glass for property line windows.

7.44 Exit signs are not included in the General Contract. They will be added at a later date.

Exit lights at each end of the main corridor will be visible from the intersection of corridors on the Ground Floor. Therefore the directional exit light between elevator lobby and Admitting Office will not be added.

An exit light will be added over the door to the outside, at the Ground Floor landing of stair No. 3. We believe an additional directional exit light in this small lobby would be more confusing than helpful. We request reconsideration for adding the second light in this small space.

7.49 At our meeting of August 5, 1954, you requested sprinklers in Rooms B05, B06, B35, B38, G43 and G44. No other rooms have been designed for hazardous occupancy, according to our interpretation of Section 118 of your Code.

7.53 We understand from the local office of the Bigelow Boiler Company their New England representative will get in touch with you regarding requirement for an Underwriters' label on the oil burner which is a part of the boiler unit.

Very truly yours,

VOORHEES WALKER SMITH & SMITH

BY:

Alonzo Clark

Rec'd
1-13-55
1170

Alonzo Clark:ph

Enc.

cc: Owner (4)
John A. Volpe Construction Co.

KOORHEES WALKER SMITH & SMITH

101 PARK AVENUE, NEW YORK

January 11, 1955

MAINE MEDICAL CENTER -
PORTLAND-NEW BUILDING - 1 6 3 3

Mr. Philip A. Roscetti
John A. Volpe Construction Company
24 Eastern Avenue
Malden 23, Massachusetts

Dear Mr. Roscetti:

Please refer to your copy of Mr. Warren McDonald's letter of December 27, 1954 addressed to this office. In accordance with Mr. McDonald's request, we are writing you in regard to certain items in this letter. Item numbers refer to paragraphs in his letter.

- OK 7.62 Existing steel fire shutters at horizontal exits are to have Underwriters' "B" instead of "C" label. Please investigate requirements for hand operation in addition to automatic operation before purchasing these shutters. OK
- OK 7.43 Fastening for escape hatch in area No. 1 grating will be arranged for easy egress in case of emergency.
- 7.44 Electric exit signs, requested by Mr. McDonald, will be shown on revised drawings. Exit signs (non-electric) are not included in the General Contract.
- 7.45 Mr. Perry will secure a sample of exit door hardware for Mr. McDonald's approval.
- OK 7.46 Door C40 is to be double acting as called for on door schedule. OK
- OK 7.47 Elevator and fuelwater enclosure walls are specified to be 6" cinder block meeting requirements of ASTM designation C90-46 plastered on the outside. This will comply with Mr. McDonald's requirements. OK
- OK 7.50 Underwriters' label for stairway enclosure doors is to be changed from class "B" to class "C". OK

VORHEES WALKER SMITH & SMITH

101 PARK AVENUE, NEW YORK

RAINE HOSPITAL CENTER -
FOOTLAND BLDG BUILDING - 1 & 5 3

Mr. Philip A. Bennett

- 2 -

January 11, 1953

ak

- 7.51 Vermiculite plaster ceiling suspended below beams is shown on Drawing No. 1653-172, Hospitality Shop Details.
- 7.52 Details of incinerator installation are to be cleared with Mr. McDonald.
- 7.53 Riglow Boiler Company is investigating requirements for an Underwriters' label on the oil burner which is a part of the new boiler.

Very truly yours,

VORHEES WALKER SMITH & SMITH

BY:

Alonso Glavinich
cc: Oscar (t)
Mr. Warren McDonald

INDUSTRIAL PIPING - PLUMBING - HEATING - SHEET METAL FABRICATION - REFRIGERATION

File copy sent Jim - md
The Mahaney Company
Engineers and Contractors
Biddeford, Maine
January 11, 1955

Department of Building Inspection
City Hall
Portland, Maine

Gentlemen:

We are doing the Plumbing and Heating installation at the Maine Medical Center, and would like to receive the rules and codes that govern this work.

We have the necessary information on plumbing from your Mr. Welch.

Under our contract we have the oil tanks, gas piping, sprinklers, refrigeration, ventilation, incinerator, welding, boiler burner unit, and kitchen ranges.

We would appreciate getting the necessary information on the above as soon as possible.

Very truly yours,
THE MAHANEY COMPANY

BY *J. Mahaney*
J.V. Mahaney, Pres.

JVM:jim

*m. Toland says
Bigelow Boiler lot
is connected with
oil furnace + label
1/17/55*

*Rec'd
1/12/55
WV*

OK. L.C. = examined w/ly list
to cont. of 1/11/55

December 27, 1954

AP 2-32 Bramhall St.--Maine Medical Center--No. 7

Voorhees Walker Foley & Smith
Attn: Mr. Alonzo W. Clark

Copies to John A. Volpe Const. Co., Inc.
and Messrs. Bradley, Rosenberger,
Mortenson and Perry

Gentlemen:

Building permit for general construction of the addition at Maine Medical Center, including construction work in the boiler room, is issued to Mr. Mortenson, herewith, subject to the following conditions and also the conditions contained in a letter to the contractor of even date. The plans and specifications are the most complete and best referenced of any it has been our duty to examine, but it is quite possible that we may have overlooked some notations which would clear up some of these conditions. If so, please call it to our attention as soon as possible by letter. Otherwise, please let us have without delay a copy of written order or other directive to the contractor clearing up all of these conditions where pertinent.

OK
Sprinkler
curtain

7.41 With reference to our paragraph 2.2, provide wire glass for all windows at each level where wall toward Brackett St. is closer than 25 feet at the ground level to the private property line. It appears that this would include at every level Nos. 09, 10, 11, 12, 13 and 14 at least.

OK
L.C. 1/11/55

7.42 The rolling steel fire shutters at the horizontal exits require Underwriters' label instead of "G". Please give written assurance that the Wilson Cat. No. 1106 would be capable of easy lowering and raising by hand as well as having the automatic feature; would not drop suddenly and fast, even if the fusible element should fail without fire being present and would provide the complete closure of the opening so as to insure an area of refuge in case of disaster. Our data on this particular shutter is several years old, but indicates that No. 1106 is designed for automatic closing only.

OK
L.C. 1/11/55
Noted
6-12-55

Our Board of Standards believe that perhaps the principal advantage of this type of protective is its adaptability to closing and opening quickly and easily, even by a nurse, to meet any emergency which might develop. It is also their belief that the hospital force should be trained and practiced in the operation of these shutters and especially their purpose to create an area of refuge on the same level at which an emergency may arise. While you cannot control that, it is hoped that you will advise the committee on preparing neat and clear instructions, prominently displayed at each opening, as to how to perform in case of emergency.

X 7.44

Please give instruction to the contractor as to the character of fastening of the grating over the escape hatch in Area I so that under no circumstances will any persons be prevented from opening the grating from the inside by obvious method.

OK
L.C. 1/11/55
Approved
6-12-55

Sub-basement
Directional exit light at intersection of corridors in sub-basement indicating Stwy. # 3 to persons in corridor B64.
~~Directional exit light indicating Stwy. # 3 at intersection of corridors~~
Emergency exit sign over opening "Surgical Procedures" to "Control"

OK
L.C. 1/11/55

Ground Floor
Directional exit light between Elevator Lobby and Admitting Office to indicate to those on either side of it the direction to Stwy. #2. Directional light

December 27, 1954

shown here not essential if exit lights at each end of main corridor are made visible from this point.

2. *Letter 3-30-55* ✓ Directional exit sign on wall of Equipment Room to indicate right turn to branch corridor nearer present hospital where the exit light of Stwy #2 may be seen.

Letter 3-30-55 ✓ Directional exit light at foot of Stwy. #3 from first floor within enclosure, pointing toward exterior door, and exit light over exterior door to prevent mistake by continuing down to sub-basement. *OK*

Letter 3-30-55 ✓ Exit sign on the glass over the door from lobby to main entrance vestibule.

Letter 3-30-55 ✓ Exit light on new wing side of connection with main building. If not already provided, indicate and provide an exit light projecting into corridor of present building (two-faced) to indicate opening G55 and another over G56. ~~It would be well to put the white light outside of G55 on the exit light circuit.~~

Letter 3-30-55 ✓ First Floor *Light OK*

Exit sign on wall of Child's Toilet and Janitor's Closet to indicate right turn to branch corridor toward the present hospital where the exit light of Stwy. #2 may be seen. At the end of the other branch corridor toward Bramhall St., indicate and provide a directional exit light near door 160 to indicate the cross corridor to Stwy. #2.

Letter 3-30-55 ✓ Sixth Floor

Exit sign (exit lights if patients are ever to be admitted to this floor) over and on both sides of doorway 604, or equivalent so that all persons, who are prevented from reaching either Stwy. #3 or connection to present building, will know unerringly how to reach the other exit.

Letter 3-30-55 ✓ In General

Please see to it that the arm of projecting exit lights and the facing direction of the word "exit" are such that persons in the corridors will undoubtedly see them at all times--for instance for those indicating Stwys. #2 and #3 on most of the floors.

7.45 Door hardware, please indicate and provide:

Letter 3-30-55 ✓ In General

We are unable to identify the catalog numbers indicated under the various symbols in the hardware schedule. All doors which are a part of the required means of egress are to be equipped with what we call a vestibule latchset without "dead bolt", or with anti-panic hardware. A vestibule latchset is so designed that all fastenings, which would keep the door from opening to allow persons to proceed in the direction of exit, will be instantly released, without special knowledge or ability, merely by turning the customary knob or by pressure on a plate or lever, and no other locks or fastenings of any description to be on the door. Anti-panic hardware is on the same principle, except that the latch or bolts are operated by a "crash bar" across practically the full width of the door. For clearness the term "free side" will be used to indicate that side of given door where the door may always be opened quickly for persons in the direction of exit. Which is the free side is obvious in all stair enclosure doors and in most of the others. Attention is called to some special cases below.

Letter 3-30-55 ✓ Sub-basement

Free side of B15 and B16 is the Conference Room, both doors to have latchsets. Free side of B20 is "Control."

Letter 3-30-55 ✓ Ground Floor

Hardware for G02, main entrance, not found--understood that there are no locks or fastenings.

Letter 3-30-55 ✓ Free side G55, existing corridor, of G56, stair hall; of G09 all three to have vestibule latchsets.

done 6-18-56

Simple to follow

done 6-18-56

Voorhees Walker Foley & Smith

December 27, 1954

6-12-56

Free side Q12, corridor; of Q13, Clinic and Conference--both doors to have vesti-latchsets.

First Floor

Free side of 134 and of 152, Teaching and Conference "Dead Lock" specified for 134, questionable. Each leaf of 152 only two feet wide. The top and bottom bolts on "standing" door not permitted unless operated from room side by knob or obvious action.

with rest team OK

Vestibule knob all 5's

OK only one door

Sixth Floor

Free side of 618, new passage to existing building. Free side 616 Sterile Storage. 604 presents special problem depending somewhat on the number of persons that might be on each side of the doorway. It appears that both sides should be free side.

Not done 6-10-56

Swing Doors--Specs. Division 29,28n

No correction of this specification for "cylinder dead bolt keyed on both sides" as related to doors in required means of egress, has been found.

LC 7/11/55

7.46 Sheet #168 (BO 19) still shows door G40 to be swung into Hospitality Shop instead of double acting.

7.47 Elevator and dumbwaiter enclosure walls require at least two-hour fire resistance. With reference to Paragraph 3.23 of our letters, the plans still seem to show hollow tile, and no indication has been found that these walls would be changed to 6-inch cinder block, 61 per cent solid, plastered on outside with 1/2 inch 1:3 gypsum sand plaster. My note during our conference indicates that you would use this construction.

LC 7/11/55

7.48 In our former letter it has been indicated that elevator and dumbwaiter shaftway doors, bearing the identification of approval of BOCA Materials Committee for use in one and one-half hour separations, will be acceptable. Otherwise, Underwriters' Laboratories or Factory Mutuals label as Class B will be necessary.

OK 7.49

7.49 It is our understanding that, other than the Alcohol Storage Room (E06) there will be no other "hazardous rooms" as defined in Section 118 of our Code.

7.50 All stairway enclosure doors are specified to carry Underwriters' Class B label. Class C in these locations will satisfy the Code--thus allowing large panels of wire glass if desired.

OK

7.51 With reference to our Paragraph 5.28, it is still not found clear that ceiling over Hospitality Room is to have a ceiling of 1-inch Vermiculite ceiling, suspended one inch below the steel.

OK

7.52 On what basis is contract--alteration of existing incinerator or construction of new one. In either case standards set by our Code is NEFU Pamphlet 82, Standard for Incinerators--for incinerator, breeching, stack and all other details not specified in text of Code?

OK

Details of incinerator will be checked closely when required separate permit for its installation or alteration is applied for by actual installer. Note particularly requirements for spark arrester Code Sect. 30443 and NEFU 3.12. Should there not be some barrier in charging room to prevent burnable material coming in contact with settling chamber? NEFU 3.11 seems to require 8-inch thickness of brick lined with fire brick within the building, instead of 4 inches shown. Perhaps you can secure some other interpretation from 85 John St.

To be checked by...

Have not found specified thickness of shell of steel stack. Sect. 30402 requires no less than 3/16's of an inch. Fire brick lining is specified full height of stack as required, but plans are not specific. Please make clear how far shell

December 27, 1954

AP 2-32 Bramhall St.--Maine Medical Center

John A. Volpe Construction Co., Inc.
54 Eastern Ave.,
Malden, Mass.

Copies to Voorhees Walker Foley & Smith
and Messrs. Bradley, Rosenberger,
Mortenson & Perry

Gentlemen:

Building permit for general construction of a addition at Maine Medical Center, including construction work in the boiler room, is issued to Mr. Mortenson, herewith, subject to the following conditions and also conditions, which may be pertinent to you as contractor, contained in a letter to the architect of even date and enclosed herewith. As soon as we have received an answer to the architect's letter, and any resulting further letters from this office, it will be appreciated if Mr. Mortenson will go over the whole job in prospect with our inspector in the field, so that all details which are not understood and agreed upon may be brought here to the office for conference. If you or Mr. Mortenson discover any errors in this or the architect's letter, it will be appreciated if you will call them to our attention as quickly as possible, preferably in writing.

Besides a separate permit for electrical work, which is to be procured from the Electrical Department by application by licensed electrician at the Office of Chief of the Fire Department, and the permit for plumbing work, which is to be applied for by a licensed plumber at the Health Department, the following separate permits are required from this department to be applied for by and issuable only to the actual contractor or installer for each particular item:

1. Boiler and oil burning equipment including tanks and all connections.
Oil tanks may be set in the excavation and supports and anchorage provided, but no connections to the tanks are to be made until the permit has been secured. After connections have been made this permit must be given notice of readiness for inspection and approval must be given the work is covered from view.
Incinerator, whether alteration or a new one.
Ranges in kitchen and other heating appliances, whether in kitchen or elsewhere. In city, separate permits are required by installer. For the Electrical Department for the electrical work on fryers should get coordinated with ventilation con- s regards location and arrangement of range hood and ventila- wing range hood and ventilation system
All mechanical systems therefor.
Mechanical refrigeration other than merely the "plug-in" domestic type.
Automatic sprinkler system. With this application must be filed complete plans bearing upon them the stamp of approval of an authoritative fire insurance rating bureau such as New England. Rating engineers dislike approving such partial plans, but will do so after they understand that it does not guarantee any reduction of rates.
Elevators and dumbwaiters.
2. Gas-fitter is required to test all gas-piping as per Sect. 502 of the Code, and when all is found satisfactory, to file at this office a certificate to that effect on form or "tag" furnished by this office.
3. All welding operators performing work at the site or work for this job in shops within the Portland area are required to be certified from this office to show that they have qualified themselves according to the Procedure of The American Welding Society within one year prior to the time of doing welding, and they are required to bear

John A. Volpe Construction Co., Inc.-----2

the certificate from this department upon their person while welding 27, 1954

4. In case of welding being done in shops outside of the Portland area, as for steel joists, the manufacturer of the joists is required to file at this office through the general contractor, as follows:

✓ This is to certify that all welding performed by this Company in connection with the Maine Medical Center job at 2-32 Bramhall St. in Portland, Maine, has been designed and all shop welding has been performed according to the procedure established by The American Welding Society; and that all welding operators engaged in this work have been properly qualified within one year prior to the actual date of doing welding, according to the qualification procedure established by The American Welding Society.

OK
Letter
2-16-55
WJC

Bethlehem Steel Co.
(Name of manufacturer)

S. B. Brown (Title)
duly authorized thereto.

5. In accordance with Sect. 705 of our Code, before any of the elevators are put into regular operation, the elevator contractor shall have tests of all of the equipment made until found in a satisfactory condition; whereupon the installing contractor shall furnish to this office (on a form furnished by us and attached at the bottom of his copy of application for permit) a statement, sworn to by the person having charge of the job or supervising such tests, to the effect that the tests have been made and that the equipment has been found to comply with all requirements for safety.

Very truly yours,

WMcD/B

Warren McDonald
Inspector of Buildings

Enclosures:

Building permit and copy of application
Copy of letter to architects of even date

Voorhees Walker Foley & Smith

December 27, 1954

✓ with fire brick lining extends upwards, and whether the steel stack extends clear to concrete base.

7.53 ✓ New oil burner is termed semi-automatic, but indication of Underwriters' label has not been found. Unless a competent attendant will be constantly on duty in the room where this oil burner is burning oil, label of Underwriters' Lab. will be required on the oil burner assembly. If condition as to constant attendant is to obtain, please see to it that owners file written statement to that effect with separate application for installation by actual installer.

Very truly yours,

W McD/B

Warren McDonald
Inspector of Buildings

Enclosure to Mr. Mortenson:

Building permit and Copy
of Application

AIR MAIL

November 22, 1954

AP 2-32 Brashall St.--Maine Medical Center

Voorhes Walker Foley & Smith
Att: Mr. Alonso W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown &
Rosenberger

John A. Volpe Construction Co.
Att: Mr. Mortenson, Supt.
2-32 Brashall St.

Gentlemen:

We are just finding time to make the final check against the Building Code of the general construction permit of Maine Medical Center plans and specifications. The contractor has filed the application for general construction permit and with it a complete set of revised plans. However, he did not file anything by way of addenda to the specifications.

Perhaps the several minor alterations besides the major change of new stairway, which were covered in my six letters and our several conferences with Mr. Clark and Mr. Rosenberger, have been cared for on the plans. However, that is not the usual procedure, and, if these matters have been covered by addenda to the specifications, or special instructions to the contractor as a part of the final contract between owner and contractor, will Mr. Clark be good enough to let us have a copy of these items so that our record of compliance will be complete?

Superintendent Mortenson of the contractor says that they are nearing completion of the foundations and very shortly will be ready for the erection of the steel. Since nothing above the foundations is included in the advance permit, it will be in the interests of all concerned if we can have any additional information quickly.

Very truly yours,

Warren McDonald
Inspector of Buildings

WHD/B

October 21, 1954

61-20-32 Bramhall St.--Labelling of Elevator Shaftway Enclosure Fire Doors
Mains Medical Center

Voorhees Walker Foley & Smith
Att: Mr. Alonzo W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown and
Rosenberger

Otis Elevator Co.
Att: Mr. Williams
495 Fore St.

Gentlemen:

This letter is written at the request of Otis Elevator Company--evidently the installer of the elevators and enclosure doors.

In conferences with Mr. Clark and in all letters referring to the details of the building and its equipment, the statement was made that the elevator enclosure doors must bear the label of Underwriters' Laboratories, Inc., identifying each door as Class B for use in a 2-hour fire separation. This statement was not inclusive enough. Our standards of material and design, as contained on page 167 of the Code, allows also the use of doors labeled and approved by Factory Mutual Laboratories, and, more important to Otis and to you, allows fire doors identified as approved by the Material Approval Committee of Building Officials Conference of America (BOCA) with the additional provision that "doors acceptable under this designation and marking to comply strictly with the description and limitations stipulated by the Committee, and a 1 1/2-hour protective so approved to be acceptable as a Class B fire door."

Very truly yours,

Warren McDonald
Inspector of Buildings

WMC/B

13

August 12, 1954

AP 2-34 Bramhall St.--Madison Medical Center--No. 6

Voorhes Walker Foley & Smith
Attn: Mr. Alonso W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown and
Rosenberger

Gentlemen:

This is the last of the series of letters concerning advance review of the plans exclusive of the boiler plant alterations. However, please note references to certain standards for ventilation, air-conditioning, refrigeration, elevators, etc., which are not a part of the text of our Building Code. No attempt has been made to check the plans and specifications against these standards at this time; but whatever check is necessary will be made after the actual application for the permit by the particular contractor involved. For instance, separate permits applied for and issuable only to the actual installers are required for ventilation, mechanical refrigeration, elevators etc. These are often applied for only after the job is well along. It is recommended that you have all of these specialties checked against the standards named as quickly as possible, so that things will not be found wrong so late in the operation.

- 6.29 With reference to our paragraph 2.11, reference is found in specifications Division 29-28n and to later bulletin regarding the same item, concerning locks of swing doors, including "cylinder dead-bolt" (keyed on both sides of pair doors and with thumb turn on inside for single door)". If any of these swing doors are a part of a required means of egress there should be no way of locking the door against egress, and, if any type of knob or releasing device on that side, it should be "usual" so that there would be no doubt on anyone's part how to operate it.
- 6.30 While this may not be the time to request it, we would like copies of all report forms of all concrete test cylinders after actual concreting has started on the job. These we would prefer direct from a Testing Engineer. We are not interested in all of the analysis of cement, aggregate etc.
- 6.31 We have not found where Div. 20 A 16 concerning fireproofing of steel beams using plaster, applies. It is noted that only one inch is prescribed from the steel to the back of the lath.
- 6.32 This item will be called to the attention of the general contractor when permit is issued with copy to you, but we have had difficulty in knowing that the general contractor would pass the information on to his structural steel sub-contractor. The specifications direct that all welding operators shall be certified under the procedure stipulated by American Welding Society, and our Code stipulates the same with the addition that each welding operator must bear a certificate from this department which shows that the operator has been qualified by tests within one year prior to the date on which he is doing the actual welding on the job. Our Code requires that welding operators be certified each year.
- 6.33 Though black iron is specified for gas pipe, malleable iron fittings galvanized is specified. Galvanizing is not permitted by Code 502a2. Upon checking with the local Gas Company to see if our Code might be out of line, we were advised

August 12, 1954

that they recommend against any galvanizing because the process may develop "pits", which later are inclined to leak.

- 6.34 Gas-fitter is required to file in this office certification of tests etc. when the gas-fitting is completed. "Section 502a5." When other than a local Gas Company do gas-fitting work we often have difficulty with this requirement.
- 6.35 Will there be any place for storage of oxygen, ether etc. in the new building? Any such spaces would be classified as hazardous rooms and protection required according to the best ASA or NFPA standards.
- 6.36 Ventilation of range hood in Hospitality Room kitchen and the other ventilation of the kitchen not understood. Of course, the range hood ventilation must be separate from any other ventilation system. While not stipulated in the Code, experience seems to indicate that all ventilation of the kitchen should be through the hood system or special means taken so that a quick fire under the hood would not be spread over the entire kitchen, either due to the hood fan not being in operation or the general ventilation system of the kitchen being stronger than the hood fan.
- 6.37 Standards for air-conditioning and ventilating systems are set up by reference as Pamphlet No. 90 of NFPA and NFPA pamphlet for the installation of blower and exhaust systems for dust, stock and vapor removal. Plans and specifications have not been checked against these standards. See initial paragraph of this letter.
- 6.38 Wherever refrigeration equipment and systems involve toxic, inflammable or explosive refrigerent, Safety Code for Mechanical Refrigeration approved by ASA is the established standard. See initial paragraph of this letter.
- 6.39 Details of elevator equipment have not been checked either against sections 702 of the Code. Please see initial paragraph of this letter and refer to the introductory paragraph of Section 702 of the Code. In all matters relating to elevators and elevator equipment, where the text of the Code is silent, ASA Code for elevators and dumbwaiters applies. Even where there are specific requirements in the text of the Code, provisions of the American Standard Safety Code or the Elevator Rules and Regulations of the State of Maine may be followed. The State Regulations are drawn with reference to the American Standard Safety Code, and a copy of the State Regulations may be secured from the Department of Labor and Industry at Augusta.
- 6.40 It seems likely that you are complying with Section 703a as regards the required area of thin glass (not more than 3/16 of an inch in thickness) in the skylights over the elevator shaftways, but we have been unable to find a specification for this glass, and the indication of "lights" on the plans seems to indicate them 16 inches wide but of such a length that one wonders if the thin glass specified by the Code will be strong enough.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMCB/B

August 10, 1954

AP 2-34, Branchall St.--Maine Medical Center--No.5

Voornes Walker Foley & Smith
Attn: Mr. Alonzo W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown
and Rosenberger

Gentlemen:-

- 5.26 What is the nature of the wood finish exposed in G40 (elevator lobby)? Please indicate the location and extent of the "lead-lined wood partitions" and if there is a cross section of them somewhere? 302a1.
- 5.27 Spandrel and other wall beams and any lintels on spans of more than 10 feet, supporting masonry walls require 4-hour fireproofing, which means two inches thickness instead of the 1½ inches shown. With reference to Code Sect. 303d1,3 it may be possible to count the metal lath and plaster finish exposed on the interior to make up the 4-hour protection but the plaster would have to form a complete closure with the masonry around the beam, if it is to be so counted. 303d2 and d3.
- 5.28 Where suspended acoustic material is to be used for the ceiling over hospitality room, it is not clear how the required 1½-hour fire protection is to be provided for the steel joists and other steel work of the roof. 303d2,2.

Very truly yours,

Warren McDonald
Inspector of Buildings

WHCD/G

INTER-OFFICE CORRESPONDENCE

CITY OF PORTLAND, MAINE
FIRE DEPARTMENT

To: Mr. Warren McDonald, Building Inspector

DATE: Aug. 16, 1954

FROM: Harry W. Marr, Acting Chief

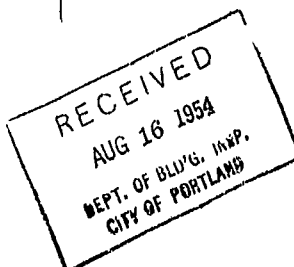
SUBJECT: Fire Alarm System - Maine ~~General Hospital~~

I have discussed with Mr. Clark, the plans for the fire alarm system in the new portion of the hospital.

The new system will connect the now existing system and fire alarm boxes installed at convenient locations, which meet with my approval.

The existing master fire alarm box will be relocated, and will be at the switch board in the new portion of the building.

This also has my approval.



August 4, 1954

AP 2-34 Bramhall St.—New wing—Maine Medical Center

Dr. Edward W. Colby, Director of Health

Warren McDonald, Inspector of Buildings

Plumbing, sanitary arrangements etc. at proposed new wing for Mo. Med. Center

We have the plans and specifications of the proposed new wing, and they are very extensive indeed.

If you would like to have Messrs. Winch and Welch go over them, they are available in this department. We could let you have the plumbing plans for an extended period but we are working quite steadily on the other plans and specifications, mostly in the early part of the mornings, but they would be available to take down stairs if you desire in the afternoon.

We have found some fairly extensive changes required by the Building Code. The bids are due in Thursday, August 5, and the architects plan to make whatever revisions are necessary and submit them to the lower bidders to get the final figure as soon as possible.

Naturally, they and the hospital authorities would like very much to have all required changes that can be found in their possession so that the re-figured bids may be on as complete a proposition as possible. If you have any criticisms or special requirements, I am sure they would appreciate having the benefit of them as quickly as possible.

Mr. Alonzo Clark of the New York firm of architects is in town frequently, and if you desire I feel sure he will be willing to go over your part of the work with your people, probably bringing their sanitation and plumbing specialists from New York to do that.

Mr. Clark is to be in town and in this office early tomorrow morning, but I doubt if he would have time to go over these matters then as he must be in attendance at the opening of bids later in the morning.

WMCD/B

Inspector of Buildings

August 3, 1954

AP 2-34 Bramhall St.--Maine Medical Center--No. 4

Voorhees Walker Foley & Smith
Attn: Mr. Alonzo H. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown
and Rosenberger

Gentlemen:

4.25 Reference to plans G1 to G9, inclusive, revised and received here August 2. May I express appreciation for the clever way in which you have introduced stairway No. 3, and it is noted that stairway No. 1 will extend full height, as originally planned. Only one criticism:

--please provide an exit door to main corridor from Teaching and Conference room on first floor, equipping it with a vestibule latchset as far as possible toward Bramhall St.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMD/B

August 2, 1954

AP 2-34, Brashall St.--Maine Medical Center--No. 3

Voorhees Walker Foley & Smith
Attn: Mr. Alonzo W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown and
Rosenberger

Gentlemen:

P.S. See 3.21 below. Your letter of 7/30/54 just received.
We shall need your help as to what the various rooms as
"manufacturing" etc. will actually be used for. Obviously all
of the "storage" rooms require sprinklers.

- 3.18 With reference to paragraphs 2.5 to 2.10, special exit light arrangements to indicate stairway No. 2 from that branch of the double corridor nearer Brashall St. on ground floor and first floor. Most direct access to stairway No. 2 from that branch corridor on ground floor appears to be through Clinic (G15), using doors G12 and G13. Therefore, this route should be clearly marked, door G13 should swing toward the corridor and both doors should be equipped with no less than vestibule latches favorable to passage to the stairway.
- 3.19 All doors to elevator and dumbwaiter hoistways require upon them the label of Underwriters' Lab. or Factory Mutuals, identifying each door as Class C or better. 209F1, 303e3.
- 3.20 Please advise if there will be any other than "safety" film used or stored in the building. If so, where. Such spaces require 1-hour fire-resistive separations using no less than Class C (labelled) fire door with liquid door closer and suitable ventilation of the room provided direct to the outside air only. 209F5.
- 3.21 Please indicate which spaces in sub-basement and in the ground floor (the Code considers this as a basement) which will be used for storage or workshop, which under new section 209F7 require automatic sprinklers.
- 3.22 Consideration of the Fire Chief on the planned in-plant fire alarm system extension and also the question of any need for additional fire alarm box connected with the City system. You will be advised of his decision; or, there is no objection to your taking up those matters with him direct. He is Acting Chief Harry W. Harr, whose office is at Fire Headquarters not far from being opposite City Hall. 209F8.
- 3.23 Presumably tile partitions enclosing elevator and dumbwaiter shafts will be plastered on outside only. Please advise if hollow tile will be load-bearing; also, with reference to Code Section 303a3, Schedule A, whether tile will have two cells in wall thickness, or with reference to NFPA Standards for fire separations whether the tile will be "cored" not to exceed 25 per cent and plastered on the outside. 212F3.
- 3.24 Alcohol storage (E06) is undoubtedly a hazardous room as contemplated by the definition in Code Section 118. Therefore, doors E04 and E05 require the label, identifying them as Class C or better and require liquid door closers.
Please advise all other spaces which will come within this definition of Hazardous Rooms; and they must be treated similarly.

Very truly yours,

Warren McDonald
Inspector of Buildings

WEC:JH

July 28, 1954

AP 2-34, Bramhall St.--Maine Medical Center--No.2

Voorhies Walker Foley & Smith
Attn. Mr. Alonzo W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown and
Rosenberger

Gentlemen:

These letters may sound sort of peremptory, but that is only to save words, and no such attitude is intended.

- 2.X2 All windows in that part of wall toward Brackett St. which is closer than 25 feet at the ground level to property lines of dwelling at corner of Brackett and Bramhall--to be glazed with wire glass, it being assumed that those sash are all metal. 209bl.
- 2.X3 It is understood that plans are under revision to provide new stairway toward Bramhall St., full height of building, enclosed with walls or partitions no less than 1-hour fire-resistance and with self-closing fire door, labelled by Underwriters' Laboratories, Inc. or Factory Mutuals as Class C; and that a lateral corridor at least 3 feet wide is to be provided at the same end of the basement leading to an outside stairway to grade. The new stair tower will be referred to as stair No. 3. It is also understood that stair No. 1 is being revised so as to run only from the basement to the first floor (serving three levels).
A horizontal exit through a standard 2-hour separation is being provided at all occupied levels above the ground floor at the point where new building joins the present building; and that a similar horizontal exit will be provided in the "stem of the I" at first to fourth floor levels, inclusive.
- 2.X4 How many persons would be habitually in B 20, Surgical Procedures and how many habitually in B C7, Mechanical Equipment? If both figures add up to more than 5, difficulty appears in counting the ladder in area No. 1. How wide is the ladder and what type of fastening will be on the hinged grating over, so that persons on the inside can quickly open and escape?
- 2.X5 While not, of course, forbidden, it appears desirable to eliminate all exit lights in connection with stair No. 1. This stair is not required means of egress or a part of one, and the exit lights might lead persons into danger rather than away from it.
- 2.X6 Provide two-way directional exit light at intersection of main corridors to indicate stair No. 3 and horizontal exit at junction of two buildings, for the benefit of persons in the side corridor and another exit light at the same point, directional to indicate stair No. 2 to persons in main corridor.
- 2.X7 Consider two-way directional exit light in basement at intersection of corridor from A-ray 1 and 2 and main corridor to indicate stair No. 2; and another at the intersection of the main corridor to indicate the new outside stairway to grade; another to indicate the new lateral corridor and one over the door to outside stairway.
- 2.X8 Provide standard exit lights on ground floor where buildings join and exterior door now is--over horizontal exit on new building side and one on the other side facing toward present corridor. In this connection Mr. Clark has

July 28, 1954

mentioned probable alterations in the present building. It should be borne in mind that the new building will eliminate one direct exit to the outside air which now exists by way of entrance to the present wing. Thus, as direct exits to the outside from the ground floor there will be stairway No. 2, the main entrance in new building and stairway No. 3 in present wing. Thus, it appears that there would be nearly 100 feet between the two closer direct exits to the outside air in the connection of the two buildings. In view of the proposed horizontal exit at the junction of the two buildings, I do not know that this arrangement would be forbidden. However, if the alterations in the present building would permit, it would be in the interest of safety to provide an exit to the exterior somewhere in the vicinity of present stairway No. 2.

- 2.17 Provide exit light over the vestibule door from Lobby--ground floor; a white light on the exit circuits outside Hospitality Shop exterior door. 209e9.
- 2.18 Wherever doors to stairway enclosures are in such relation to the corridor that the door cannot be seen by the person standing in the corridor, the exit light should be projected at right angles to the partition in which the door is, so that the light can be seen by persons in the corridor--for instance, at stair No. 2, third floor.
- 2.19 All doors in required systems of means of egress require what we have termed "vestibule latches" as described in 212e2.5 for places where any anti-panic hardware is not required. We are unable to identify the catalog numbers of hardware types in the specifications, so this should be thoroughly cleared up before the contract is let. The principle is that any person on the inside can at any time open a door in required means of egress in the exit direction merely by turning the usual knob or pressing on the usual thumb-piece with no other fastenings to keep the door from opening. Of course, if a door has no latch and is kept closed by a door closer, this requirement is fulfilled.
- 2.20 Difficulties are likely to arise with the double doors at entrance vestibule and exterior doorway on ground floor. Since each leaf is less than 3 feet wide, in fact the entire width of doorway is required as a means of egress, we interpret the Code to mean that both doors must be released in the same manner without delay which obviates the use of top and bottom bolts unless they are actuated by a "crash" bar. The usual solution is to provide anti-panic hardware with crash bar the full width of each door. Anti-panic bolts with crash bar the full width of door on one door of a pair and a vestibule latch on the other door, or anti-panic bolts on one door and anti-panic latch on the other would be acceptable; but there must be no way of locking the door against persons on the inside getting out. Perhaps the vestibule doors would not require even latches.
- 2.21 Presumably on occasion patients will be in X-ray rooms 1 & 2 in the basement. These rooms are about 40 feet from stair No. 1, which is not a good exit and if a hazard should arise in the main corridor near stairway No. 1, persons in the side corridor would have no way to escape. This problem as related to the means of escape from Mechanical Equipment and Surgical Procedures, but it is doubtful if any cross connections could be made and that the total number involved would then be too large to accept a ladder as a means of egress. Perhaps a stairway could be worked out in area No. 2 and a cross connection made through Mechanical Equipment room or otherwise, or a stairway worked out in area No. 2. 212e1.2(a).

Worries Walker Foley & Smith-----3

July 28, 1954

- 2.18/4 Doors may be omitted in the corridors where horizontal exits are required, if the opening in the 2-hour separation is equipped with a labeled Class B rolling steel shutter with edges of shutter suitably enclosed, of the type that can be pulled down manually, and still so arranged that, if the fusible element lets go, the shutter will descend gradually—not with a crash.
- 2.18/5 The 2-hour fire separations if of cinder block plastered on both sides must have a thickness from face to face of plaster of at least 5 inches—on second floor at proposed location of horizontal exit near Formula Kitchen for instance, the partition appears to show a thickness of only 4 inches.
- 2.18/6 If Conference Room in basement exceeds 300 square feet, swing doors into corridor.
- 2.18/7 Door 340 from Hospitality Shop should swing into corridor with a 180 degree swing.
21202.1.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMC/2

July 26, 1954

AP 2-34 Bramhall St.--Mains Medical Center

Voorhees Walker Foley & Smith
Attn: Mr. Alonzo W. Clark
101 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown
and Rosenberger

Gentlemen:

Enclosed are two copies of amendments of four separate paragraphs of our Building Code, these referring to requirements for hospitals and having been ordained on July 19. Although these amendments do not actually become effective until thirty days from July 19, there is little likelihood of any challenge of them, so that you are safe in treating them as effective now.

Please note particularly the provisions of the new 209f7 requiring sprinklers in cellar or basement. In your case it is taken to apply to what you have termed the sub-basement and also to what you call ground floor, which is the basement under the Code.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMcD/B

Enc: Two copies of amended paragraphs

July 23, 1954

49 20-32 Broadhall Street
Maimo Medical Center
No. 1

Weather's Walker Foley & Smith
Attn. Mr. Henry W. Clark
151 Park Ave.
New York 17, New York

Copies to: Messrs. Bradley, Brown
and Rosenberger

Gentlemen:

This is the first of a series of letters resulting from check of plans and specifications against the Building Code. The items relating to the enclosure of front stairway in the lobby and to the use of concealed wooden framing in the "railings" or dwarf "partitions" in the ground floor administrative space are taken up out of the normal order.

1.1 Stairway proposed in lobby requires enclosure in the lobby, and further study indicates that the enclosure must have an exterior door leading directly out of doors, though, of course, a fire door from lobby to enclosure is allowable.

209e5 requires an enclosure "for safe egress" and provides that all but one of such enclosed stairs may discharge into a public "corridor" on first floor. 212e5.8 calls for a stairway enclosure designed for safe egress to have an "outside" exit door. If the lobby were to be partitioned off from the extensive ground floor space to be used for admitting and office purposes, there would be no difficulty in calling the lobby a corridor, but that is not the intention. 212e5.9, relating to monumental stairways, is mildly in conflict with 209e5; and 201b provides that in case of conflict the requirements providing greatest safety shall apply.

1.2. Since starting this dictation I have talked with Mr. Clark over the phone and with Mr. Bradley. Mr. Bradley says that a scheme has been worked out whereby the front stairway will be at the front corner of the lobby very close to the entrance doors. If that is the case, while the enclosure would still be necessary the exterior doorway from the enclosure would not be

Allowances of 302a1 pertaining to First Class Construction does not permit the use of the extensive wooden frame railings or dwarf partitions in the space back of the lobby on ground floor. An examination of several other modern Codes indicates that our Code is not out of line with common practice in this connection. Thin dwarf partitions of masonry would be acceptable with the plywood planted on each side without the use of wooden strapping unless all void spaces were filled; or a metal stud partition covered with plaster or the like on both sides with the plywood planted on the plaster would be acceptable. If Mr. Bradley's suggestion of a paneled railing with single plywood or double plywood back to back between posts, is practicable, it is likely that it would be acceptable also if the void spaces in the woodwork could be eliminated.

Very truly yours,

Warren McDonald
Inspector of Buildings

P. S. Mr. Bradley says over the phone that the need of extending the railing to the fifth story had been

July 22, 1956

AP 20-32 Bramhall Street
Maine Medical Center

Air Mail
Special Delivery

Copies to: Mr. George Bradley
Co-Chairman Building Committee

Mr. Simmons Brown
Co-Chairman Building Committee

Forrest Walker Foley & Smith
Attn. Mr. Alonso W. Clark
161 Park Ave.
New York 17, N. Y.

Mr. Donald M. Rosenberger
Dir. Maine General Hospital
22 Arsenal St.

Corporation Counsel

Gentlemen:-

If I am interpreting and scaling the plans correctly, the front of the solarium and the front wall of the building above the solarium are proposed about four feet closer to the street line of Bramhall St. than the figures granted by the zoning board of Appeals.

This setback is further complicated by the tentative proposal to extend the solarium upwards to include the fifth story. Thus, the front of solarium scales 10 feet from the street line of Bramhall instead of the 14 feet granted, and on the basis of that scaling the main front wall of the building above the solarium would be 23 feet from the street line instead of the 27 granted. From former attitudes of the committee, I feel sure that they would want this discrepancy cleared up beyond any possibility of some sort of restraint which some disgruntled person might attempt later.

Please see if these critical figures as to location of the front are correct. If they are, I suggest that you phone Mr. Rosenberger or Mr. Bradley immediately so that they may file a new appeal before Monday noon, July 26th, with prospect of decision on July 30th. If these figures are not substantially correct, please let me know and we can forget it.

Front of solarium 10 or 11 feet from Bramhall.
Height above grade of solarium roof if extended to fifth story 71 feet.
The main front wall above solarium 23 or 24 feet from Bramhall.
Height above grade of main roof 81 feet 6 inches.

I believe Mr. Clark has a copy of the portion of our Zoning Ordinance which applies in this case, and will be able to check our reasoning as set forth in the certification clause for an appeal as follows:

Building permit to authorize construction of new building for Maine Medical Center is not issuable under the Zoning Ordinance because the front wall of the

Footings: Walker Peley & Smith - - - - - 12

July 22, 1954

solarium would be 10 feet from the street line (inside edge of public sidewalk) of
Brookhall St. instead of the 21 feet required by Sect. 80 and F of the Ordinance
(five feet normal setback plus 10 feet increment where height exceeds 65 feet plus
6 feet for excess height over 65 feet); and because the main front wall above so-
larium would be 23 feet from the street line instead of the 31 feet 6 inches re-
quired (five feet normal setback plus 10 feet for excess height plus 16 1/2 feet for
excess height over 65 feet

Very truly yours,

Warren McDonald
Inspector of Buildings

WMB/c

File GL 22 Arsenal St. with letter of May 28th from Alonzo Clark.

22 Arsenal St.

June 10, 1954

Mr. Alonzo Clark
Voorhees, Walker, Foley & Smith
101 Park Ave.
New York 17, N. Y.

Dear Mr. Clark:-

Further in reply to your letter of May 28th relating to Maine Medical Center new building, advice from AISC discloses that while they have not yet incorporated the use of high tensile steel bolts in their standard specifications, they have endorsed their use as approved by Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation, January, 1951. On this basis the use of these bolts will be acceptable under our Building Code.

I am told that AISC has not formerly incorporated this data in their specifications because it is hoped and expected that the high tensile bolts will be established as stronger than rivets.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMcd/G

STATEMENT OF ELEVATOR TESTS

PORTLAND, MAINE, June 15, 1956

I, George L. Ward

as an employee of OTIS ELEVATOR COMPANY, have personally supervised the installation or alterations to the elevator 2, hatchways and enclosures at 20-34 Bramhall Street as permitted under Building Permit 2-11-55, and have personally supervised tests of loading capacity and of all brakes, interlocking and all other safety devices, and I do here state that, according to my best knowledge and belief, the elevator will safely carry the maximum rated loading and all brakes, interlocking and other safety devices are in satisfactory condition.

George L. Ward
(Signature)

PORTLAND, MAINE

STATE OF MAINE

CUMBERLAND, SS.

Personally appeared the above named George L. Ward and made oath the statements by him subscribed are true.

APPLICANT'S COPY

Thomas D. Gaudette
Notary Public Justice of the Peace

OTIS ELEVATOR COMPANY

1000 FIRST STREET
HARRISON, N. J.

August 29th, 1955

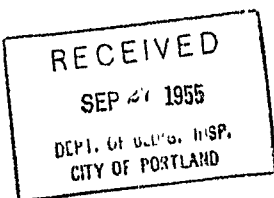
CERTIFICATE OF INSPECTION

Elevator Opening Protectives
MAINE MEDICAL CENTER
Portland, Maine
Contract 242485-7

Elevator Opening Protectives and Hangers for
this building have been inspected and
approved for labeling per BOCA Reports 51-7
and 51-9.

NUMBER OF OPENINGS - 24

TYPE OF DOORS - Hollow Metal
2/speed



OTIS ELEVATOR COMPANY
F. J. Stolting
F. J. Stolting
Works' Engineer

INSPECTED AND APPROVED BY *Emil Fiedler* AUTHORIZED BOCA INSPECTED

DATE INSPECTED *Aug 25, 1955*

cc: Mr. D. T. Soule, Sales Engineer, BOSTON ZONE
Mr. G. Havstad, Supervisor of Inspection, Harrison Works

OTIS ELEVATOR COMPANY

495 FORE STREET
PORTLAND 3, MAINE

*W.F.C.
to note and
have filed copy
with file copy
W 9/27/55*

September 26, 1955

Warren McDonald, Bldg. Inspector
City of Portland
Portland City Hall
Portland, Maine

Dear Sir:

Attached herewith please find Certificate of Inspection for
the Maine Medical Center.

RECEIVED
SEP 27 1955
DEPT. OF BLDG. INSP.
CITY OF PORTLAND

Very truly yours,

OTIS ELEVATOR COMPANY
Portland, Maine District

I.J.A. Williams

By: I.J.A. Williams, Local Mgr.

IJAW:G

2170

February 12, 1955

AP - 20-1/2, Bramhall Street

Copies to: John A. Volpe Const. Co.
Att: Mr. Hortenson, Supt.
20-3/4 Bramhall St.
Vocrhess Walker Foley & Smith
Att: Mr. Alonzo W. Clark
101 Park Ave.
New York 17, N. Y.
Maine Medical Center
c/o Mr. George Bradley, Co-Chairman
Building Committee
Portland Company
58 Fore St.

Otis Elevator Co.
495 Fore St.

Gentlemen:-

Permit for installation of three passenger elevators in building under construction at the above location is issued herewith. We note that you are to furnish the doors for openings in shaftway enclosure. Presumably these are doors bearing your name which have been approved by the Materials Approval Committee of the Building Officials Conference of America. These doors to be acceptable must bear the label "BOCA 51-7" indicating that they are of the approved type.

Very truly yours,

Warren McDonald
Inspector of Buildings

AJS/D



APPLICATION FOR ELEVATOR PERMIT

Portland, Maine, February 8, 1955

PERMIT ISSUED FEB 08 1955 CITY OF PORTLAND

To the INSPECTOR OF BUILDINGS, Portland, Me.

The undersigned hereby applies for a permit to install ~~one~~ 3 elevator in accordance with the Laws of the State of Maine, the Building Code of the City of Portland, plans and specifications submitted herewith, and the following specifications:

Location 20-34 Bramhall Street Ward Within Fire Limits? yes Dist. No. 3
Owner's name and address Maine Medical Center, Bramhall St.
Elevator contractor's name and address Otis Elevator Co., 495 Fore Street Telephone
Plans filed as part of application yes No. sheets 2
Last use of building Medical Center No. families
Proposed use of building " No. families
Material of outside walls of building brick, interior frame
No. of stories 6 Style of roof flat No. of existing elevators in building none
Remarks Fee \$ 4.00

To install 3 passenger elevators

Details of Proposed Work Permit Issued with Letter

Extent of work by elevator contractor installing elevators
Extent of work by owner
Type of Elevator electric, in new or existing shaftway new
Shaftway enclosed or open enclosed No. elevator stops 8
Capacity of elevator 2-4000; 1-5000, Speed in feet per minute 250 feet
Material of cables steel No. and size of hoisting cables 2-6-5/8; 1-8-5/8
Location of machinery overhead Material of supports steel, of guides steel
Minimum diameter of sheaves 32" Minimum clearance counterweights and overhead beams 6'1" 18" to bumper
Minimum clearance above car at topmost floor level 6'1"
Minimum clearance buffer plates and springs when car is at lowest floor level 7 1/2"
Type of power electric Type of machine SWt
Will elevator be equipped with the following safety devices: governor? yes, car safety? yes, electric brakes? yes, automatic terminal stops at top and bottom? yes, slack cable stops? no, safety floor stops? yes

If Passenger Elevator

Passenger capacity? Area of platform 2-5'8" x 8'4" Material of enclosure steel
No. of entrances 1 Type of gates car doors, interlocked yes automatic closing, ice? yes
Will elevator be automatic or will operator be in attendance? both
Will doors in shaftway enclosure be interlocked? yes

If Freight Elevator

Area of platform No. of sides enclosed Height of enclosure
Will shaftway be enclosed? Self-closing hatch gates? Height? Bi-parting doors?
No. outside entrances to shaftway? Self-closing slatted gates? Height?

Signature of elevator contractor BY: George P. Ward, Supt. Otis Elevator Co.

STATEMENT OF ELEVATOR TESTS

PORTLAND, MAINE,

I, _____, as an employee of _____, have personally supervised the installation or alterations to the elevator, hatchways and enclosures at _____ as permitted under Building Permit _____, and have personally supervised tests of loading capacity and of all brakes, interlocking and all other safety devices, and I do here state that, according to my best knowledge and belief, the elevator will safely carry the maximum rated loading and all brakes, interlocking and other safety devices are in satisfactory condition.

(Signature)

PORTLAND, MAINE,

STATE OF MAINE

CUMBERLAND, SS: Personally appeared the above named _____ and made oath the statements by him subscribed are true.

SECTION COPY

Notary Public Justice of the Peace

MAINE GENERAL HOSPITAL
22 ARSENAL STREET
PORTLAND 4, MAINE

Donald M. Rosenberger
Director

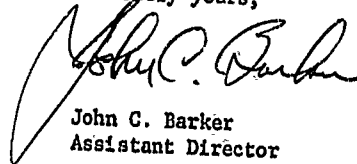
July 10, 1956.

Mr. Warren McDonald
Building Inspector
City Hall
Portland, Maine

Dear Mr. McDonald:

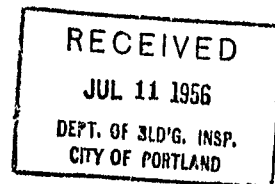
This letter constitutes our assurance to you that a competent attendant will at all times be present in the boiler room of the Maine Medical Center when any of the boilers are in operation.

Sincerely yours,


John C. Barker
Assistant Director

JCB:EHH

*Refer:
To note & file with
me. Med. papers.
7/17/56*



Memorandum from Department of Building Inspection, Portland, Maine
22-34 Bramhall St.--Installation of fuel oil tanks for Maine Medical
Center by The Mahoney Company--

Before tank and piping is covered from view, installer is re-
quired to notify Fire Department Headquarters of readiness for inspec-
tion and to refrain from covering up until approved by the Fire De-
partment.

These tanks of 10,000 gallons capacity are required to be of
steel or wrought iron no less in thickness than $\frac{1}{2}$ inch; and before
installation are required to be protected against corrosion, even
though galvanized, by two preliminary coats of red lead and heavy
coat of hot asphalt or equivalent.

Pipe lines connected to underground tanks, other than tubing
and except fill lines and test wells, must be provided with double
swing joints arranged to permit the tank to settle without impairing
the efficiency of the pipe connections.

Owner and installer will have to bear the responsibility for
the structural capacity of the tank to support loads from above such
as heavy motor trucks.

If tanks will be so located as to be subjected to the action
of tide water or "ground" water, adequate anchorage or weighting must
be provided to prevent "floating" when tank is empty or nearly so.

S

CC: Maine Medical Center, 22 Arsenal St.

Harry W. Marr, Chief of the Fire Department (Signed) Warren McDonald
Inspector of Buildings



APPLICATION FOR AMENDMENT TO PERMIT

Amendment No. 1

Portland, Maine, May 10, 1955

PERMIT ISSUED

MAY 16 1955

CITY OF PORTLAND

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

The undersigned hereby applies for amendment to Permit No. 55/272, pertaining to the building or structure comprised in the original application in accordance with the Laws of the State of Maine, the Building Code and Zoning Ordinance of the City of Portland, plans and specifications, if any, submitted herewith, and the following specifications:

Location 22-34 Bramhall St. Within Fire Limits? No Dist. No.
Owner's name and address Maine Medical Center, 22 Ar. Hall St. Telephone
Lessee's name and address Telephone
Contractor's name and address The Mahaney Company, 62 Alfred St., Biddeford Telephone
Architect Plans filed No. No. of sheets
Proposed use of building Hospital No. families
Last use No. families
Increased cost of work Additional fee \$50

Description of Proposed Work

To install 2-10,000 gallon fuel oil tanks, 16' x 10' long in diameter. Top of tanks will be 4' underground. Tanks bear the Underwriters label. 2" vent pipe.

DEPT. OF FIRE
DEPT. Required.

Permit Issued with Memo

Mail to 22 Bramhall St.
Details of New Work

5/10/55
5/12/55

Is any plumbing involved in this work? Is any electrical work involved in this work?
Height average grade to top of plate Height average grade to highest point of roof
Size, front depth No. stories solid or filled land? earth or rock?
Material of foundation Thickness, top bottom cellar
Material of underpinning Height Thickness
Kind of roof Rise per foot Roof covering
No. of chimneys Material of chimneys of lining
Framing lumber—Kind Dressed or full size?
Corner posts Sills Girt or ledger board? Size
Girders Size Columns under girders Size Max. on centers
Studs (outside walls and carrying partitions) 2x4-16" O. C. Bridging in every floor and flat roof span over 8 feet.
Joists and rafters: 1st floor, 2nd, 3rd, roof
On centers: 1st floor, 2nd, 3rd, roof
Maximum span: 1st floor, 2nd, 3rd, roof

Approved:
CHIEF OF FIRE DEPT.

Permit Issued with Memo
Maine Medical Center
The Mahaney Company
Signature of Owner by:
Approved: 5/16/55

INSPECTION COPY

C-10-154-SC-alarke

Inspector of Buildings

March 4, 1955

AP - 22-54 Branchall St.
Installation of new steam boiler and oil burning equipment

The Mahaney Company
62 Alfred St.
Biddeford, Maine

Copies to: John A. Volpe Const. Co.
and Messrs. Bradley and
Mortenson

Vernon Walker Smith & Smith
Att: Mr. Alonzo W. Clark
101 Park Ave.
New York 17, N. Y.

Gentlemen:-

Actually the Building Code provides that no more than one heating furnace or boiler shall be connected to a single flue unless specifically permitted by this department. The application for the installation of the new boiler at Faine Medical Center states that there will be three boilers connected to the same flue, which of course is very large - 50 inches in diameter.

The permit includes the right to make the extra connections, it being realized that the whole system is under adequate engineering control and design. However, should any difficulty arise due to this number of connections, it will be the owner's responsibility to look after the situation.

Very truly yours,

Warren McDonald
Inspector of Buildings

WMC/D

P. S. Actual connection of the fuel supply lines to the fuel oil tanks, which we consider to constitute installation of the tanks, is to be covered by a separate permit, or amendment to this one, filed by the actual installer.