

AP 215-239 Reg. 1 Street-1

June 11, 1948

American Flange & Manufacturing Co.  
30 Rockefeller Plaza  
New York City, N. Y.

Subject: Versatility of Ferro-Therm reflective  
steel insulation as to the possibility of  
fastening it to non-burnable materials

Gentlemen:

I am told that it is necessary to use wooden strapping, or sheathing or wooden studs in connection with the use of Ferro-Therm reflective steel insulation which you manufacture, and I shall appreciate your specifications as to this detail.

Your material is proposed for insulating ceilings, partitions and walls of fermentation rooms, and refrigerator rooms, etc. in an extensive building under construction in this city, and the height and floor areas of the building are such that our Building Code calls for non-burnable materials throughout, even though the building is sprinklered.

I shall appreciate information from you as soon as may be possible as to the use of your material where only non-burnable material is permitted and as to whether or not you have not worked out some method of fastening the material to other non-burnable supporting members or material.

The engineers on this job are perfectly capable of furnishing arguments as to why the combustible material should be used, but we are confronted with the proposition that our Building Code does not allow it. Thus, haste is of importance to avoid the need of the engineers casting about to find some substitute material for insulation which can be so fastened and supported.

Very truly yours,

Inspector of Buildings

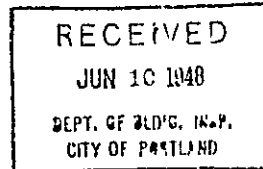
WMD/S

DANIEL G. O'CONNOR  
PRESIDENT  
AUSTIN J. O'CONNOR  
VICE PRES. & SEC'Y  
THOMAS D. O'CONNOR  
TREASURER  
THOMAS H. O'CONNOR, B. S.  
ENGINEER

*File*

**THOMAS O'CONNOR & Co., INC.**  
**BUILDERS & STRUCTURAL ENGINEERS**  
KENDALL SQUARE BUILDING  
CAMBRIDGE 42, MASS.  
TELEPHONE, KIRKLAND 1670-0616  
June 7, 1948

Mr. Warren Mc Donald,  
Inspector of Buildings,  
City of Portland,  
Portland, Maine.



Dear Sir:

Re: File A.P. 215-239  
Bead Street-I  
F.U. 6-10-48-M  
Superstructure of First National  
Stores Job -----

We certainly appreciate the courtesy and cooperation you have shown us since we have been working on the Portland Job and hope that you do not feel that we have taken advantage of this in any way.

We have been assured by Ganteaume & Mc Mullen that they are doing everything possible to expedite and get into your hands for approval, the changes that are necessary, this week.

As you know we have been working under serious difficulties, and the job is now considerably behind the progress schedule we are supposed to maintain, and having been advised by the Architect that the masonry work in the area we are working in does not require any changing, we feel that you, appreciating our difficulties, would make no serious objection to this minor violation.

We trust that you will allow us to continue on this basis for the rest of this week; and we are notifying the First National Stores, immediately, of the serious consequences of the job being shut down.

Very truly yours,

THOMAS O'CONNOR & CO INC

BY James L. MacDonald  
James L. MacDonald

JLM:G  
cc/Ganteaume & Mc Mullen,  
First National Stores, Inc., Mr. John Dexter  
Job Office

AP 215-239 Hood Street-I

6/10/1948

June 4, 1948

Thomas O'Connor & Co., Inc.  
239 Main Street  
Cambridge, Mass.

Subject: Construction of superstructure of warehouse, bakery, garage and office for First National Stores at 215-239 Hood Street.

Gentlemen:

While driving down Hood Street today, I noticed that an extensive amount of brickwork, apparently on the walls of the warehouse was underway, although the building permit which you now have is limited to excavation and foundation only. I tried to contact Mr. Norman, your superintendent, to get the story from him, but he was unavailable at that time.

While I can well appreciate the many important problems that surround such an extensive job as this, it is neither right nor is it our practice for work to proceed beyond the limits of a permit and without permit authorization. Perhaps this represents merely an oversight on the part of the architects and your company, but no reply whatever has been received from my two extensive letters as to compliance with the Building Code in certain features.

It seems imperative that you get these matters all straightened out immediately or else discontinue work on the superstructure.

Copy is enclosed for superintendent of construction on the job.

Very truly yours,

Inspector of Buildings

WHD/s

Encl: Copy of this letter

CC: Gantoume & McKullen  
59 Chauncy Street  
Boston 11, Mass.

First National Stores, Inc.  
Attn: Mr. John Dexter  
5 Hiddlesex Avenue  
Somerville, Mass.

At 215-239 Road Street-1  
(First Nat'l Stores ware  
houses, etc.)

May 13, 1949

Gentleman & Mcullen  
99 Chauncy Street  
Boston 11, Mass.  
Thomas O'Connor & Co., Inc.  
233 Main Street  
Cambridge, Mass.

Subject: Warehouse, Garage, Office and Bakery  
for First National Stores, Inc. at 215-239  
Road Street. CHECK AGAINST BUILDING CODE  
Letter No. 2

Gentlemen:

This letter, as distinguished from my letter of April 12, which gave special attention to the special and general requirements for the various classes of occupancy, is the result of a check of the job against provisions of the Code from Chapter III on, with a few references to special or general requirements as to occupancy which have turned up in the meantime. This letter should complete the check clear through the Code, and it will be helpful if the architects can adjust plans and specifications accordingly at an early date, so that we may be in position to issue the permit for the construction of the superstructure well in advance of the desirable time for starting that part of the work. Paragraphs in this letter are in the same series as and consecutively with those in my letter of April 12.

28. The wooden framing and wooden ceiling in the room on third floor of bakery (Sheet 6) are not allowable since the bakery is to be of First Class Construction, and such exceptions to incombustible material requirements do not appear in Section 302a.

29. While no reference is found in the specifications to the use of ferrotherm insulation on the bakery roof slab, and it seems evident that the use of wooden boards over the area of the roof is to protect the insulation, the use of wooden sheathing over the entire area of the roof is quite a departure from the usual practice for roofs on buildings required to be of fireproof construction, as the bakery is. I have sought advice from the Underwriters on this feature, but if some allowance can be worked out under the Code, it seems unnecessary to have this wooden sheathing exposed to and over the very wide air space between the outer walls and the lining tile walls of the bakery. No partitions or ceilings of wood or other combustible material are of course allowable anywhere in the bakery. Reference to allowances for combustible materials in First Class Construction--Section 302a.

30. With reference to Par. 30 in letter of April 12, the wood plates, rafters and facias will be acceptable in the main walls of the warehouse and main walls of the bakery, but all wood facias must be completely covered with metal and some type of fire resistive material must be introduced so that wood plates and facias will not be in direct contact with combustible roof insulation or combustible roof boarding (if latter is allowable). The face walls and side walls of sawtooth skylights on warehouse would not comply with Section 302d and 302e as to exterior wall construction and covering in Metal Frame Construction, the cement covered insulation covering (even though entirely incombustible of itself) relying on wooden framing for its local support and fastening. The matter of woodwork in walls of skylight, office building will be referred to later.

31. It must be evident to all concerned, the warehouse must be classified as Metal Frame Construction. With reference to Par. 19 of April 12 letter, no justification is found, either in Section 302a2 of our Code (as amended last fall) or in any other building regulations of Metal Frame Construction, for the extraordinary amount

May 13, 1913

of wood framing and ceilings shown to be exposed in banana rooms, rest room and perhaps the other accessory rooms at south end of warehouse, the details for the latter ceilings not having been found. The only extra allowance for combustible materials because of the sprinkler system is "interior partitions and ceilings, exclusive of langers, may have combustible frame if covered and encased with metal or equivalent in such manner as to practically exclude air from the combustible frame". The plans seem to show what amounts to two ceilings over banana rooms,—one above the other with concealed space between. The lower, made up of 6x11 timbers, 4' on centers (these constituting the supports for track hangers, in turn supported by steel beams in bearing partitions subdividing banana rooms, and it not being apparent how the metal-clad partitions would be made tight where the heavy beams pass through), and sheathed on top with 2-inch plank is not reconcilable with good fire prevention in a building of such a large area, likely to contain large quantities of combustible storage and with unprotected steel.

If use of so much wood is necessary because of the nature of the rooms, the only way I know of to meet the situation is to segregate the banana rooms by using 1-hour fire resistive walls around the outline, extending to the metal roof deck and providing double Class A fire doors at each opening from warehouse and from train shed to banana rooms.

The upper ceiling over banana rooms—2x10 joists, sheathed below with plank, Ferro-Therm and stainless steel—will meet the needs if upper side is sheathed with metal or equivalent.

Presumably ceilings over other accessory rooms at south end of warehouse are to be made as indicated on Spec. 11 for rest room. That detail, however, does not show the Ferro-Therm covering upper side as indicated on floor plan. If the Ferro-Therm, with which I am not familiar, is the equivalent of metal as to fire resistive and noncombustible qualities, this detail will meet the needs if the upper side of ceiling joists are sealed with metal or equivalent.

Naturally sprinkler heads must be supplied in all of these rooms and in all of these concealed spaces whether combustible material is used or not.

32. Section 3022 (amended) stipulates that only doors and frames where doors are not less than 21 square feet in area, may be of wood. A quick check shows that this means a change in at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60. This does not apply to 31 or 36 because they are sufficiently cut off from the main area.

33. With reference to Par. 21 of 4/12 letter, we do not yet have assurance as to all areas to be covered by sprinkler system. A closer consideration indicates that Par. 22, 23, 24 (1) and 25 (2) of 4/12 letter represent a correct interpretation of these matters pertaining to separations of various classes of construction and areas, but 23 (2) requires clarification, and it appears that single Class B fire doors could be used between the garage and warehouse, if desired, because only a 2-hour separation is required between the two classes of use (Sec. 212b2-Schedule A).

It appears that the office section requires 1-hour separation from the bakery (presumably by providing double Class A doors at door opening 112) unless you should make the office section straight First Class (fireproof) construction which would require fireproofing of all steel and elimination of practically all woodwork except the ordinary trim. If you desire to have the office section classified as Second Class (see Sec. 301c) wood strapping could be used on exterior walls, any or all interior partitions could be wooden frame, the wooden joists could remain in the roofs of the skylights, but the walls of the skylights would have to be of masonry. There is too much combustible material shown in the walls of skylights anyway. If you desire to classify the office section as Metal Frame, the wood joists could not be in the skylights roofs, the walls of skylights could be all metal or substantially so, no wood strapping could be used, no combustible ceilings and no combustible partitions unless covered with metal or equivalent.

May 13, 1943

Pertaining to the above, it is not clear of what materials the partitions between office and machine room and between office and women's toilet are intended, nor how transit is to be fastened to walls and ceiling in connection between office section and bakery. There will be a question about the wooden strapping mentioned on Page 127 of Specs. to support insulation on walls wherever insulation is combustible and anywhere in the bakery.

34. All required fire doors must bear the Underwriters Laboratories label identifying them as approved for the particular use intended, and are required to be either automatic-closing (normally open and capable of closing of itself in case of fire) or self-closing (normally closed and kept closed by a liquid door closer with or without fusible element).

35. With exceptions noted in Section 303d2.4(c) and 2.4(d), all steel supporting masonry walls requires 4-hour fireproofing, and 2-inch thickness of concrete is stipulated by Schedule C of 303d3 for that rating, instead of the 1 1/2-inch dimension on Sheet 7 of warehouse, Section 8/15, and perhaps in some other places. No reinforcement of fireproofing is shown in a number of places, but of course is required. In this connection note the provisions of Section 303d1.2, d1.4, d1.6, d1.7, d1.8 and d1.9.

On warehouse Sheet 107 thickness of fireproofing is not "figured", and no less than 2" is required in these cases. In some cases reinforcement is shown, in some not shown—needed in all.

While it is certainly the right detail to use, and it is noted that the owner will want to leave it that way, it is only fair to tell you that if the architect had not shown the fireproofed lally columns and fireproofed lintels and spandrel beams in the office section, we would not have questioned the omission, because we have interpreted the exception in Section 303d2.4(d) to measure the allowable 4' of height from the top of the main structural member on the same consistent basis on which we allow the angle supporting the 4-inch brick facing to be without fireproofing.

36. With reference to Section 306A10 please indicate on plan for what live load per square foot the third floor storage area in bakery is designed—which will be the same indicated as required on permanent floor-load sign before the floor is put to storage use.

37. Presumably concrete base of the brick stack is to extend to ledge, and it as well as the stack, itself, is to be designed by the contractor who builds it. This is a specialty, of course. When the design plans are completed and approved, will architects please furnish prints to complete our files of the job?

38. Page 41 of the Specifications contains the statement that all masonry shall be laid in cement mortar, but then specifies one part cement, one part lime putty and six parts sand. The latter is termed "combination mortar" by our Code, and it is assumed that the working strength allowable to combination mortar have been used in design.

39. If walls of masonry in bakery extend more than 12' above the roof, they are required to be more than 9" thick. Section 309b6.

40. Since the exterior panel walls of bakery will receive no support against lateral loads except at the columns, it is assumed that the reinforcement in sides of spandrel beams has been designed to take the full wind load of an entire panel without relying upon the weight of the panel wall to offset any of the tension.

41. No positive means has been discovered of anchoring steel roof framing to

*Handwritten notes:*  
w/2  
w/3  
w/4  
w/5  
w/6  
w/7  
w/8  
w/9  
w/10  
w/11  
w/12  
w/13  
w/14  
w/15  
w/16  
w/17  
w/18  
w/19  
w/20  
w/21  
w/22  
w/23  
w/24  
w/25  
w/26  
w/27  
w/28  
w/29  
w/30  
w/31  
w/32  
w/33  
w/34  
w/35  
w/36  
w/37  
w/38  
w/39  
w/40  
w/41  
w/42  
w/43  
w/44  
w/45  
w/46  
w/47  
w/48  
w/49  
w/50  
w/51  
w/52  
w/53  
w/54  
w/55  
w/56  
w/57  
w/58  
w/59  
w/60  
w/61  
w/62  
w/63  
w/64  
w/65  
w/66  
w/67  
w/68  
w/69  
w/70  
w/71  
w/72  
w/73  
w/74  
w/75  
w/76  
w/77  
w/78  
w/79  
w/80  
w/81  
w/82  
w/83  
w/84  
w/85  
w/86  
w/87  
w/88  
w/89  
w/90  
w/91  
w/92  
w/93  
w/94  
w/95  
w/96  
w/97  
w/98  
w/99  
w/100

May 10, 1945

masonry walls at the top of the wall where steel roof deck is used, especially in certain parts of warehouse roof where no wall beams appear. The roof deck would be all right as to tension if fastened to the wall plate, but not in compression. Section 307bd.

42. With reference to Section 314a5.10 pertaining to steel inspection, please let us have copies of all laboratory reports or tests of welds, at least from this point onward.

43. Allowance is noted for welding both shop and field connections of structural steel. With reference to Section 311e, if welding is to be used in either shop or field connections involving rationally determined tension, compression or shear, welders, as individuals, must furnish to this office certification of the experience of each, and of the ability of each, bearing an effective date not more than one year before the welding is done. Preparation of test specimens, tests and reports by testing laboratory must be according to procedure of the American Welding Society, and none but that procedure will satisfy. Please notify both fabricating and erecting contractors of that requirement. If welding is not to be used in such rationally designed joints, please notify us of that fact.

44. If all are intended for ovens and doughnut machines, note from paragraph 25 of 4/12/43 letter that the metal stack is not allowable. Section 652a.

45. Refer to Section 602d4, and, if you are to lay claim that doughnut machines do not require a fire protective head because they are all enclosed, please do so. In any event, the vent pipe is not allowable in the concealed space over heat room ceiling.

46. Please be reminded of the contents of paragraphs 24, 25, 26 of 4/12/43 letter as regards separate permits for certain installations, and see to it that the installers are notified whether they are local people or not, and that they have the necessary qualification as to detailed plans when applications are filed. As you have been notified, our Health Dept. has a great deal of interest and control over food making equipment, and ventilation. It would be well to make sure that the Health Dept. requirements are satisfied before the various installation permits are applied for.

47. Separate permits are also required for installation of elevator and dumb waiter to be applied for by and issuable only to the actual installer. Please note reference to fire door at elevator machinery room in Par. 14 of 4/12/43 letter; also from Section 703 that glass in skylight over machinery room is required to be clear (not wire) glass, not more than 3/16 of an inch thick, and that a protective screen is required above the skylight.

Note first of a section that no less than 288 square inches of opening, suitably screened, must be provided in the machinery room floor--this to allow vent in case of fire to the thin glass skylight.

48. The following additional items under Special or General Requirements as to use are noted:

(1) One step to be obtained under outward swing of door #36 warehouse locker room.

(2) With reference to Par. 17 of 4/12/43 letter and to Section 2041 of the Code, the open gutter running along west side of garage floor will not be allowable.

Very truly yours,

MacB/6

Encl: Extra copy of this letter.

contractor, for use on the job. Inspector of Buildings

City of St. Paul, National Bank, Inc. Attn: Mr. John Dexter, 75 Middlesex Ave., Cambridge, Mass.



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT FOR HEATING, COOKING OR POWER EQUIPMENT

PERMIT ISSUED 00623 APR 30 1948

Portland, Maine, April 29, 1948

CITY of PORTLAND

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine the Building Code of the City of Portland, and the following specifications:

Location 215-259 Road Street Use of Building Office No. Stories Existing Building Name and address of owner of appliance Thomas O'Connor Construction Company 215-259 Road St. Installer's name and address Randall & McAllister, 84 Commercial St. Telephone 3-2941

General Description of Work

To install oil burning equipment in connection with existing steam heating system

IF HEATER, OR POWER BOILER

Location of appliance or source of heat Type of floor beneath appliance If wood, how protected? Kind of fuel Minimum distance to wood or combustible material, from top of appliance or casing top of furnace From top of smoke pipe From front of appliance From sides or back of appliance Size of chimney flue Other connections to same flue If gas fired, how vented? Rated maximum demand per hour

IF OIL BURNER

Name and type of burner Tinkon Labelled by underwriter's laboratories? YES Will operator be always in attendance? Does oil supply line feed from top or bottom of tank? bottom Type of floor beneath burner concrete Location of oil storage outside above ground Number and capacity of tanks 1-275 gal. If two 275-gallon tanks, will three-way valve be provided? Will all tanks be more than five feet from any flame? YES How many tanks fire proofed? Total capacity of any existing storage tanks for furnace burners none

IF COOKING APPLIANCE

Location of appliance Kind of fuel Type of floor beneath appliance If wood, how protected? Minimum distance to wood or combustible material from top of appliance From front of appliance From sides and back From top of smokepipe Size of chimney flue Other connections to same flue Is hood to be provided? If so, how vented? If gas fired, how vented? Rated maximum demand per hour

MISCELLANEOUS EQUIPMENT OR SPECIAL INFORMATION

Amount of fee enclosed? 1.00 (\$1.00 for one heater, etc. 50 cents additional for each additional heater, etc., in same building at same time.)

APPROVED:

Handwritten signature and date: H. 4-29-48

Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? YES

Randall & McAllister

Signature of Installer by:

Handwritten signature of installer

INSPECTION COPY



Permit No. 48/623

Location 215-839 Road St

Owner Thomas & Sons Const. Co.

Date of permit 4/20/48

Approved \_\_\_\_\_

NOTES

1 Fill Pipe

2 Vent Pipe

3 Kind of Heat

4 Burner Rating & Support

5 Name & Label

6 Stack Control

7 High Limit Control

8 Burner Control

9 Piping Support & Protection

10 Valves in Charge

11 Capacity of Tank

12 Tank Billed by Supplier

13 Tank LA Date

14 Oil Gauge

15 Inspection Card

16

AP 215-229 Main Street-1  
(First National Stores  
Warehouses etc.)

April 12, 1948

Cantelero & Mcullen  
99 Chauncy Street  
Boston, Mass.  
Thomas O'Connor & Company, Inc.  
238 Main Street  
Cambridge, Mass.

Subject: Warehouse, garage, office and bakery  
for First National Stores, Inc. at 215-229  
Main Street

Gentlemen:

In a job of this magnitude it seems best to report to you the results of our check of the Building Code requirements piecemeal. Accordingly this letter deals mainly with special requirements for use as set forth in Section 205 of the Building Code for warehouse, train shed, bakery and office portions, Section 204 for the garage, and general requirements as to all classes of use, Section 212. Some other aspects of the job will be discussed at the end of the letter based on questions which have arisen in the job so far, and subsequent letters will report on a check against detailed construction, installation of equipment and special features controlled by the Building Code.

1. Presumably, practically all of the persons in the building at one time will be employees and truck drivers employed indirectly by First National Stores. On account of the extensive floor areas use of the assignments of square feet per person in Section 212el of the Code seems to give fantastic capacities. In order that we may arrive at a rational conclusion with regard to requirements for width, location and number of exits, it will be helpful if the architect will secure from the owner an estimate of maximum number of persons which is likely to be present at one time in the warehouse including train shed, two various storage rooms, the battery charging room and the boiler room; in the garage; on each floor of the bakery including the bakery offices directly connected with the bakery; and in the office building portion. While the requirements for means of egress from the warehouse appear to be satisfied by doors on the north and the main entrance on the south end, which there are to be far more persons in the warehouse than anticipated, the long distance between them makes it important that the locks on the overhead doors along the sides of the warehouse be of such type that any of these doors may be quickly opened from the inside without requiring a key or any special knowledge. Section 212el.2(a).

2. While the matters of location and arrangement of means of egress with relation to each other and to the persons they are intended to serve, as dealt with by Section 212el.2(a) is a matter of judgment in every case, and I am not prepared to say that this clause requires additional means of egress from the general office space, it would certainly be in the line of safety if an emergency means of egress could be located somewhere in the west wall. It is not known what is to take place in the "tabulation area", but from the appearance of the west elevation there would be no possible way of getting out of the building on that side. If some unpredictable emergency arose on the east side of the office, exit through the west wall would be the only way out.

3. If men's locker and toilet room or women's locker, rest and toilet room in first story of bakery will be likely to accommodate more than 20 persons at one time, an emergency exit door is necessary well removed from the entrance door. Section 212el.3.

April 22, 1943

4. Means of egress from garage do not satisfy Section 21291.2 as to relative location in that no exit door of ordinary size is indicated to afford emergency exit into warehouse in case of trouble at the front of the garage. While the double steel rolling fire shutters at each opening between garage and warehouse apparently are to be of the most modern design and operation, a number of questions appear as to their being operable quick enough in case all of the doors should be shut and one or more men should be trapped in the adjacent area of the garage. It is not clear that the shutters could be opened instantly if the electric power should be off, nor whether or not the shutter on the warehouse side of a given opening could be operated from the garage side. Perhaps a type of wicket door can be devised in a given pair of shutters, preferably near the center of the long dimension of the garage and opposite one another in the pair of shutters with the wicket door on the garage side swinging into the garage and that on the warehouse side swinging into the warehouse with the shutter mechanism interlocked that shutters could not be opened unless the wicket door is in the closed position. Such emergency means of egress should be clearly indicated on the garage side by painting on the shutter or otherwise.

5. Exit signs properly illuminated in the dark hours and at least as effective as the standard exit signs specified in Section 21204 of the Code; directional or otherwise, are required to indicate all means of egress not habitually used for entrance, and these signs are to be so placed and numerous enough as to indicate unerringly the direction to be taken to reach a place of safety to all persons when the means of egress are designed to serve. In the cafeteria, however, the exits are to be marked with standard exit lights if there could be at any one time more than 50 persons assembled there—otherwise standard exit signs—this because the cafeteria is required to be designed as a Minor Assembly Hall as per Section 20314. White lights in both cafeteria stairways should be on the same circuit and controlled by the same switch as the exit lights. While means of egress which are habitually used for entrance are not required to be marked, all means of egress should be marked unless they are commonly recognized as entrances to the extent that they would be naturally used if necessary to leave the building in an emergency. For instance, it appears that in the warehouse doors No. 100, 117, 111 and No. 2 ought to be marked with directional signs also, also located and high enough that they will not be obscured by stacks of stored goods or otherwise; in the bakery it appears that the doorways from each floor to both stairways ought to be marked and at west end of first story doors No. 107, 103 and 102 with directional signs at all points necessary.

6. With reference to Section 21202.2 the single step-down beneath the outward swing of main entrance door to office building is to be eliminated and any other similar situations. There is some question as to whether or not this same condition is indicated at doors 37, 100, and 17 in the warehouse, at 101 and 102 in bakery, and there may be others—232 in dining room is noted in this connection.

7. With reference to Section 21202.3 doors 124, 126 and 120, men's and women's locker rooms in bakery should be no less than 3' wide instead of 2'-3" indicated. The same applies to doors 42, 44, 45 and 49 at warehouse locker room. If there might be more than 50 persons in the warehouse locker room at any one time, the latter four doors are required to swing outwards.

8. Handrails are required on both sides of four steps at entrance to warehouse and a center handrail also because the stairs are apparently more than 33" wide. It is noted that treads of these steps do not equal to be the minimum of 9" wide on Section 1/3, Sheet 8, the width of tread having to be measured from corresponding points in succeeding risers. Section 21205.2 c. 3.3.

April 12, 1913

9. It is noted that door hardware is to be supplied by owner under allowance. Note requirement of Section 212c2.5 that all doors serving as part of a means of egress intended for more than 20 persons, if the doors are to have any locks, are required to have vestibule latch sets—so devised that all fastenings which would keep the door from opening will be instantly released, without special knowledge or ability, merely by turning the customary knob or pressing on the usual thumb latch. Wherever there are double doors and each of the pair at least 3' wide, only the "backing door" need be so equipped, but if in any case of such a pair of doors involved in a means of egress a single door is less than 3' wide, the "standing door" would have to be equipped with anti-panic bolts with bar across the door. This provision would certainly apply to doors 17, 103, 41, 37, 202 and 205 in warehouse and also 36, 42, 44, 45 and 49 in locker room if there might be more than 20 persons in the locker room at one time; 310, 302, 210, 302, 142, 103, 112, 111, 102, 100 in the bakery and also 120, 124 and 126 in the bakery locker room if there might be more than 20 persons in each locker room at any one time; 22, 71 and necessary emergency door, to warehouse from garage if there might be more than 20 persons in the garage at any one time; 19 in office building and any emergency door provided in west wall, and there may be others overlooked in this list. Doors leading to or from stairway enclosures in the bakery require liquid door closers. Section 212c2.7.

10. The significance of the serving shaftways beside the stairway enclosures in the bakery is not fully known but doors 4 and 5 in the collar are required to be labelled fire doors the same as the others and all of these doors require liquid door closers or equivalent self-closing devices.

11. With reference to Section 205f3 at least one door or window no less than 2' wide nor 3' high is required in some exterior wall of third story of bakery, this opening or openings to be so located as to give quick access to the major part of the storage area in that story and so arranged that access to the storage area by firemen may be gained by breaking the glass or by hardware operated from the outside.

12. I understand that at least part of the plans of ventilation systems have been sent to our Health Department, but we shall need full plans of these systems when the application for separate permit for their installation is filed by the actual installer. Such a permit to be applied for by the actual installer and assignable only to him. Apparently most of the toilet and locker rooms will have to rely upon mechanical ventilation and no doubt the ventilation for these rooms will be separate from any other ventilation systems in the building. Control of light and air and ventilation in toilet rooms is within the jurisdiction of the Plumbing Inspector attached to the Health Department. The specific provisions for ventilation in the text of the Building Code are: first—these Sections 212f1 and 212f2—but as authorized under 6.6c, our Board of Standards has set up the Standards of the National Board of Fire Underwriters Pamphlet No. 10 which has the following:

13. What is the purpose of the round opening proposed now in second floor of bakery and the similar opening for the future and how will these openings be protected in the light of Section 212f2? As referred to later, it is understood that the bakery is to be fully sprinklered, in which case this section apparently requires no special protection for such openings, but we would like to know the purpose of these.

14. Doors 3 and 4 to elevator machinery room are required to be labelled fire doors, Class B, but are not marked in the schedule. Since the door enters from warehouse entrance to kitchen passes through only one floor, the equivalent of hatch doors at second floor, fitted on the corners and edges, satisfy the requirements of section

April 12, 1943

212F3.1. Since enclosure is to be used, it will be deemed equivalent to make the enclosure doors (No. 40 and 201) metal-clad, but the doors must be either self-closing or automatic-closing.

15. It is likely that the paper storage room in first story of bakery should be classified as a "hazardous room" as defined in Section 1128, in which case door No. 113 should be no less than a Class C (labelled) fire door made either self-closing or automatic-closing.

16. With reference to Section 204F3 note the requirements for separate fire resistive rooms in case operations hazardous in a garage, such as welding, spraying on finishes, fire actuated appliances etc. are to be carried on there, unless protection equivalent thereto, as determined by the Chief of the Fire Department, is provided.

17. No specification has been found for the inflexible liquids and grease trap at floor drains in garage as required by Section 20411 of the Code. It is to be of a type approved by the Chief of the Fire Department and included in the permit for plumbing secured by the Plumbing Contractor from the Health Department.

18. It is assumed that the garage as well as the warehouse is to be fully sprinklered, otherwise the floor area would exceed the maximum of 10,000 square feet allowed in an unsprinklered garage.

\* \* \* \* \*

A long time has elapsed since issuance of the advance permit for excavation and foundation only and our correspondence relating to that permit and to the matter of floor areas and classes and materials of construction, and a number of questions with regard to floor areas and materials of construction have come up in our check against special and general requirements as to use, so that it seems desirable to bring some of these matters to your attention before further and more detailed check has been completed.

19. With reference to the last sentence of paragraph 2 of my letter of November 6, which went with the advance permit, may I emphasize the requirements that the upper side as well as the underside of the ceiling joists of banana and refrigerator rooms be covered with metal or equivalent from the standpoint of fire resistance so as to form an enclosure and exclude air from the combustible frame. Also, please give attention to the last sentence of revised Section 30212 of the Code, copy of which you have, which reads: "In buildings fully protected by an automatic sprinkler system, the same exceptions as to combustible materials shall apply, and interior partitions and ceilings, exclusive of hangars, may have combustible frame if covered and encased with metal or equivalent in such manner as to practically exclude air from the combustible frame". This refers to Metal Frame Construction in which class the warehouse is established. It is my understanding that this sentence would still exclude wooden strapping on either exterior or interior masonry walls, and I feel that this sentence should be interpreted strictly as it reads.

20. A brief examination of the details indicates that you have been too liberal with the use of wooden fascia and plates at the top of exterior walls of the warehouse and perhaps in other places in view of the fact that these walls are required to be as for First Class or Fireproof Construction. For instance on Section B over 15 on Sheet 7 of 2073A. It appears that the wooden plate would be in direct contact

April 12, 1948

with what is probably combustible roof insulation. Granted that theoretically all of this combustible material will be sealed in to exclude air necessary to support combustion, but actually it will probably not be so. Also there is the question of so much woodwork and the combustible insulation board (though covered with asbestos) in the face walls of the sawtooth skylights, if the provisions of the Code as to Metal Frame Construction are to be complied with.

21. A number of questions already appear as to fire separations between the various classes of construction. I take it that the statement in Mr. Garcia's letter of October 27: "The building will be sprinklered throughout." certainly includes the main warehouse, banana rooms, refrigeration rooms etc., battery charging and garage; but it is not certain that the statement included the platform and train shed enclosed by brick and partially by Metal Frame walls, nor included the bakery and general office section.

22. It appears that the north warehouse wall would have to be extended as a 1-hour fire resistive separation a sufficient distance along the end of the enclosed platform to project at least 4" beyond the frame wall and the cornice of the existing frame building which is to be cut off. Also, it is my impression that the wire glass panels in one of the double fire doors at each of the openings 21 and 20 in this north wall will not meet the limitations of the Underwriters for a labelled Class A door which the Building Code requires.

23. The combination in this one extensive building with its various uses of Metal Frame Construction with exterior walls as required for First Class Construction (1-hour fire resistive Metal Frame Construction with ordinary metal frame walls, First Class or Fireproof Construction (bakery) and Second Class Construction (general office portion if so much wood is to be used in the roof of the skylights), raises some difficult questions as to fire separation of areas;

(1) In view of amended Section 302.1.2 of the Code and its provision that Metal Frame Construction having exterior walls as required for First Class Construction and sprinklered may have unrestricted area but must not be more than one story high, it appears that all openings between the bakery and the enclosed platform require double Class A (labelled) fire doors, all automatic-closing or self-closing instead of the Class B doors indicated and some of these with wire glass in them, because the bakery is more than one story high and is to be of First Class Construction as required.

(2) Under similar reasoning it seems necessary to cut off the general office space from the entrance to bakery by separations of 1-hour fire resistance with double fire doors. We are unable to classify the general office section as Metal Frame Construction with so much wooden framing in the skylights. Neither would wooden strapping be allowed on the masonry walls if that were intended. With 1-hour cut off from bakery, Second Class Construction, which permits this wooden framing, would be allowable whether that portion was sprinklered or not. It is to be hoped, however, that the general office portion as well as all other parts will be sprinklered.

(3) It appears that all of doorways between the warehouse and train shed platform require double Class A (labelled) fire doors, either self-closing or automatic-closing, because the greater part of

April 12, 1948

the exterior walls of train shed are proposed of straight metal frame construction instead of 1-hour fire separation walls as required by amended Section 302.1.2 if warehouse and shed areas are to be one unsubdivided area. Of course the "letter" of the Code could be satisfied by substituting masonry walls for the all-metal walls, but that would still leave the warehouse vulnerable to a fire developing quickly in a box car (which would not be sprinklered) and spreading beyond the capacity of the train-shed sprinklers to control.

24. I presume you are aware that separate permits from this department are required to cover installation of the sprinkler system, the heating system, mechanical ventilation systems and mechanical refrigeration systems. Applications for these permits are to be made by the actual installer and are issuable only to him. With each application we should receive the plans of that particular installation. The plans of the sprinkler system require on them the stamp of approval of the New England Fire Insurance Rating Association or equivalent authority. The permits for refrigeration and for mechanical ventilation require the approval of the Chief of the Fire Department (we secure it), and the plans of the former should show the type of refrigerant and all controls, these plans being turned over to the Fire Department for obvious reasons.

25. Separate permits are also required for the installation of bake ovens, fryers, and other appliances for cooking or heating hot water and oil burning equipment in connection therewith. If fuel oil tanks are to be connected directly to oil burning equipment, their installation is included with the permit for the installation of the oil burning equipment. If fuel oil storage tanks are not to be connected with oil burning equipment, separate permits are required as are also permits for the installation of storage tanks for gasoline. All of these permits are to be applied for by the actual installer and are issuable only to him.

26. I note on the Site Plan a 15,000 gallon tank underground marked "oven". From this I assume that the ovens are to be oil burning. The stacks for the ovens appear to be of copper, however, which will not satisfy the requirements of the Building Code. See Section 304 and Section 602a. The range and other cooking and hot water heating appliances in the kitchen of cafeteria require separate permits also to be applied for by the installer and issuable only to him.

27. Near the edge of enclosed platform at west end of bakery a property line appears which seems to separate First National land from American Gas Company land. Section 205b2 of our Code provides that exterior walls of such a Business & Industrial Class building shall have 2-hour fire resistance and parapet wall if closer than 3' to a property line dividing lots of private ownership. This would preclude the use of the metal wall closer than 3' to such a line, and would require a parapet wall 32" in height wherever the masonry platform enclosure wall would be closer than 3' to such a property line.

Very truly yours,

Inspector of Buildings

Encl: Extra copy of this letter to contractor for use on the job if desired.

CC: First National Stores, Inc.

Attn: Mr. John Dexter, Construction Engineer  
5 Middlesex Avenue, Somerville, Mass.

*Handwritten initials*

H. D. A. GANTEAUME  
E. W. McMULLEN  
1078  
K. B. RICH

GANTEAUME & McMULLEN  
ENGINEERS - ARCHITECTS  
99 CHAUNCY STREET  
BOSTON 11  
TELEPHONE HANCOCK 8970

INDUSTRIAL BUILDINGS  
COMMERCIAL BUILDINGS  
INVESTIGATIONS  
VALUATIONS  
REPORTS

March 5, 1948

Department of Building Inspection  
City of Portland  
Maine

RECEIVED  
MAR 6 1948  
DEPT. OF BLDG. INSP.  
CITY OF PORTLAND

Gentlemen:

In accordance with your notification dated March 2, we have sent the Health Department floor plans, sections and ventilation plans for the proposed bakery building for the First National Stores at 215-239 Read Street, Portland, Maine. We have also requested them to advise us if we could furnish them other data.

Yours very truly

*E. W. McMullen*

EWM/M





FILL IN AND SIGN WITH INK

# APPLICATION FOR PERMIT FOR HEATING, COOKING OR POWER EQUIPMENT

03162  
NOV 21 1947

Portland, Maine, November 20, 1947

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location 215-239 Read Street Use of Building Office No. Stories 1  New Building  Existing "

Name and address of owner of appliance Thomas O'Connor Construction Co., Reed St.

Installer's name and address The Fels Co., 42 Union St. Telephone 2-1939

### General Description of Work

To install forced hot water heating system

### IF HEATER, OR POWER BOILER

Location of appliance or source of heat 1st Type of floor beneath appliance concrete

If wood, how protected? \_\_\_\_\_ Kind of fuel oil

Minimum distance to wood or combustible material, from top of appliance or casing top of furnace 3'

From top of smoke pipe 3' From front of appliance Over 4' From sides or back of appliance Over 3'

Size of chimney flue 8x12 Other connections to same flue \_\_\_\_\_

If gas fired, how vented? \_\_\_\_\_ Rated maximum demand per hour \_\_\_\_\_

### IF OIL BURNER

Name and type of burner \_\_\_\_\_ Labelled by underwriter's laboratories? \_\_\_\_\_

Will operator be always in attendance? \_\_\_\_\_ Does oil supply line feed from top or bottom of tank? \_\_\_\_\_

Type of floor beneath burner \_\_\_\_\_

Location of oil storage \_\_\_\_\_ Number and capacity of tanks \_\_\_\_\_

If two 275-gallon tanks, will three-way valve be provided? \_\_\_\_\_

Will all tanks be more than five feet from any flame? \_\_\_\_\_ How many tanks fire proofed? \_\_\_\_\_

Total capacity of any existing storage tanks for furnace burners \_\_\_\_\_

### IF COOKING APPLIANCE

Location of appliance \_\_\_\_\_ Kind of fuel \_\_\_\_\_ Type of floor beneath appliance \_\_\_\_\_

If wood, how protected? \_\_\_\_\_

Minimum distance to wood or combustible material from top of appliance \_\_\_\_\_

From front of appliance \_\_\_\_\_ From sides and back \_\_\_\_\_ From top of smoke pipe \_\_\_\_\_

Size of chimney flue \_\_\_\_\_ Other connections to same flue \_\_\_\_\_

Is hood to be provided? \_\_\_\_\_ If so, how vented? \_\_\_\_\_

If gas fired, how vented? \_\_\_\_\_ Rated maximum demand per hour \_\_\_\_\_

### CELLAR-EQUIPMENT OR SPECIAL INFORMATION

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Amount of fee enclosed? 1.00 (\$1.00 for one heater, etc., 50 cents additional for each additional heater, etc., in same building at same time.)

APPROVED:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes

The Fels Co.

Signature of Installer By: Charles H. Nelson

INSPECTION COPY





(1) INDUSTRIAL ZONE  
APPLICATION FOR PERMIT

PERMIT NO. 03020  
NOV 6 1947

Class of Building or Type of Structure Foundation

Portland, Maine, October 21, 1947

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

The undersigned hereby applies for a permit to erect ~~and construct~~ install the following building structure equipment in accordance with the Laws of the State of Maine, the Building Code as amended, Ordinance of the City of Portland, plans and specifications, if any, submitted herewith and the following specifications:

Location 215-233 Read Street Within Fire Limits? - NO 1st. No. \_\_\_\_\_

Owner's name and address First National Stores, Inc., Morrill St. Telephone \_\_\_\_\_

Lessee's name and address \_\_\_\_\_ Telephone \_\_\_\_\_

Contractor's name and address Thomas O'Connor & Co., Inc., 238 Main St. Telephone \_\_\_\_\_

Architect \_\_\_\_\_ Specifications Cambridge, Mass. Plans \_\_\_\_\_ No. of sheets \_\_\_\_\_

Proposed use of building Warehouse, office, bakery and garage No. families \_\_\_\_\_

Last use \_\_\_\_\_ No. families \_\_\_\_\_

Material \_\_\_\_\_ No. stories \_\_\_\_\_ Heat \_\_\_\_\_ Style of roof \_\_\_\_\_ Roofing \_\_\_\_\_

Other buildings on same lot \_\_\_\_\_

Estimated cost \$ \_\_\_\_\_ Fee \$ 1.00

General Description of New Work

To excavate and construct foundation only for 1 story brick building for warehouse; 3 story brick building for bakery; and 1 story brick building for garage as per plans.

CERTIFICATE OF OCCUPANCY  
REQUIREMENT IS WAIVED  
NOTIFICATION BEFORE LATHING  
OR CLOSING-IN IS WAIVED

Permit Issued with Letter

It is understood that this permit does not include installation of heating apparatus which is to be taken out separately by and in the name of the heating contractor. PERMIT TO BE ISSUED TO Thomas O'Connor & Co., Inc., Read Street

Details of New Work

Is any lumbering 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 \_\_\_\_\_ of \_\_\_\_\_

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 \_\_\_\_\_ Kind of heat \_\_\_\_\_ fuel \_\_\_\_\_

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 \_\_\_\_\_

If one story building with masonry walls, thickness of walls? \_\_\_\_\_ height? \_\_\_\_\_

If a Garage

No. cars now accommodated on same lot \_\_\_\_\_, to be accommodated \_\_\_\_\_ number commercial cars to be accommodated \_\_\_\_\_

Will automobile repairing be done other than minor repairs to cars habitually stored in the proposed building? \_\_\_\_\_

APPROVED: \_\_\_\_\_

Miscellaneous  
Will work require disturbing of any tree on a public street? no  
Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes

First National Stores, Inc.  
Thomas O'Connor & Co., Inc.

INSPECTION COPY

Signature of owner

By: Thomas O'Connor

Permit No. 47/3020  
Location Reed St.  
Owner First National Stores  
Date of permit 10/6/47  
Notif. closing-in \_\_\_\_\_  
Inspn. closing-in \_\_\_\_\_  
Final Notif. \_\_\_\_\_  
Final Inspn. 7/13/48. S.C.  
Cert. of Occupancy issued \_\_\_\_\_

~~Gen'l. Const. NOTES  
48/1184  
1/20/48. Concrete adjacent Reed  
St. removed, for imp. at 110 ft.  
and concrete removed. Part  
removed could be seen  
because of existing  
metallic deposits etc.~~

AP 215-239 Read Street-1  
(Advance permit)

November 6, 1947

Thomas O'Connor & Co., Inc.  
215-239 Read Street  
(First National Warehouse Job)  
Ganteauze & McHullen  
99 Chauncy Street  
Boston 11, Massachusetts

Subject: Advance permit for excavation and construction of foundation only for warehouse, office, bakery and garage building for First National Stores, Inc. at 215-239 Read Street.

Gentlemen:

Advance permit as above is issued to contractor at the job, subject to the following:

1. The matter of excessive floor areas will be taken care of by general amendment of the sections of the Building Code, somewhat as I talked over with Mr. Ganteauze the other day. These amendments were actually ordained on November 3, but according to the City Charter, such an ordinance does not become actually effective until 30 days from the date of ordaining. The advance permit is issued before that 30 days has passed on the basis that there is little likelihood of the amendment being upset, and the amendment would normally become effective before the general construction permit is issued and before there is need for it. However, this fairly slight discrepancy will have to be at the risk of the owner.

2. We were unable to take Mr. Ganteauze's excellent suggestion as to amendment fully but substantially so, and there is enclosed with the architects' copy of this letter the text of two amended sections as they should become effective on Dec. 3. Mr. Ganteauze will note that we found it necessary to classify the proposed warehouse as Metal Frame Construction having exterior walls as required for First Class Construction, not more than one story high and fully equipped with an automatic sprinkler system, having streets or equivalent open spaces adjoining the entire length of at least three sides of the building. Because of this extraordinary allowance of unlimited areas for Metal Frame Construction, it became necessary to change the stipulations in that class of construction which, until now, has allowed by implication rather unrestricted use of wooden frame partitions and ceilings when buildings of that type of construction were sprinklered. That is the reason for the amendment of Section 302d. Will he note particularly the new sentence added to paragraph d2 of Section 302. This sentence will require that the upper side as well as the under side of the ceiling joints of the banana and refrigerator rooms to be covered so as to form an encasement with metal or equivalent from the standpoint of fire resistance and excluding air from the combustible frame.

3. Mr. Ganteauze said that the driveway along northerly side will be made no less than 50' wide. Apparently at one point at the corner of boiler room the owner may not have quite land enough. We will not question this slight discrepancy as long as the balance of the driveway is made at least 50' wide, it being understood of course that this driveway will never be built upon. May we have the revised plat plan accordingly.

4. The advance permit is also issued on the basis of Ganteauze & McHullen's letter of October 27 as regards foundation details. We have received revised prints of Drawing 102, File 2778A and Drawing 2, File 2078C. A discrepancy still appears on Drawing 102 in that, while the square pedestal of Type 2 column foundation has been made 6" wider, the projection of footing has been left at 1' 9". Presumably this is merely an oversight and the intention is to make the projection 1' 6", thus checking with a footing 5' square.

Thomas O'Connor & Co., Inc.  
Ganteaux & McMillan — 2

November 3, 1947

5. If the so-called "grade beam" under wall of railro shed and under bakery platform canopy is actually nothing but a curb, I presume they are not intended to support any loads from above and will be well separated from a bond with the piers, otherwise frost action due to the curbs not being below frost would disrupt the structure.

6. If it should be decided to weld the structural steel, please note that welders both in shop and field require certification under the qualification procedure of the American Welding Society (none other acceptable). We would expect the welders in the field to furnish records of their experience and records of tests by some competent authority certifying that specimens were prepared and tests passed under the AWS procedure. If shop work were done outside of this area, we will accept a blanket certification from the steel company that all welders in their shop engaged on this work are certified under the procedure of AWS, and have been so certified within a year of the date in which they did the shop work on this job. This date applies to the certification of welders in the field also.

Very truly yours,

Inspector of Buildings

MCD/S

Enclosure to Ganteaux & McMillan: Copy of amendments of two sections of Portland Building Code

CC: Thomas O'Connor & Co., Inc.  
238 Main Street  
Cambridge, Mass.

First National Stores, Inc.  
Attn: Mr. Dentor  
5 Middlesex Avenue  
Saxtonville, Mass.

GANTEAUME & McMULLEN

ENGINEERS - ARCHITECTS

99 CHAUNCY STREET

BOSTON 11

TELEPHONE HANCOCK 8970

INDUSTRIAL BUILDINGS  
COMMERCIAL BUILDINGS  
INVESTIGATIONS  
VALUATIONS  
REPORTS

H D A GANTEAUME  
E W McMULLEN

2078  
JES DAY  
A B RICH

October 31, 1947

Mr. Warren McDonald  
Department of Building Inspection  
Portland, Maine

Dear Sir:

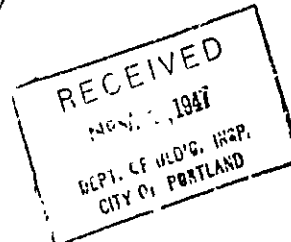
Referring to a copy of your letter of October 27 to the Thomas O'Connor Company, the sixty-nine drawings listed therein comprise the complete set, except for several sheets of minor details.

Referring to Paragraph 2 in your letter of October 25, our Dwg. 2078A-102 and 2078C-2 have been revised to comply. We are sending you two prints of each under separate cover.

Yours very truly



LED/M



AP 215-239 Read Street-I

October 27, 1947

Thomas O'Connor & Co., Inc.  
200 Main Street  
Cambridge, Mass.

Subject: Record of drawings received in Building  
Department with application for permit, October  
21, 1947, for warehouse, office, bakery and  
garage building for First National Stores, Inc.  
at 215-239 Read Street in Portland

Gentlemen:

The following is a list of drawings received with application for permit as  
above. They appear in the numerical order of drawings, and this letter is for  
the purpose of advising you what we have, so that if any of the missing numbers are  
pertinent to checking the construction work against the Building Code, they may be  
forwarded at once, as we are going ahead with the check:

File Number 2078A. B. C. (General Site Plans)

Drawings Number 1, 1A, 1B, (501-601 and 601)

File Number 2078A (Warehouse)

Drawings Number 2 to 8 (inclusive)  
" " 9 and 11  
" " 101 and 102  
" " 103  
" " 105 and 107  
" " 110  
" " 112 to 115 (inclusive)

File Number 2078B (Bakery)

Drawings Number 2 to 19 (inclusive)  
" " 21 to 31 (inclusive)  
" " 301 to 307 (inclusive)  
" " 301 to 307 (inclusive)  
" " 401 to 403 (inclusive)

File Number 2078C (Warehouse Office Building)

Drawings Number 2 to 6 (inclusive)

This represents a total of 69 drawings.

Very truly yours,

Inspector of Buildings

MCD/S

C. J. Gantowicz & McMillan  
59 Chauncy Street  
Boston, Mass.

First National Stores, Inc.  
Attention: Executive  
Cambridge, Mass.

First National Stores, Inc.  
Attention: Mr. James Kelley  
Kerrill Street



October 25, 1947

To: Lyman S. Moore  
City Manager

Subject: Building permits and  
question of floor areas in  
proposed First National Stores,  
Inc. warehouse

From: Warren McDonald  
Inspr. of Bldgs.

We talked about this question the other day, and I am  
attaching a copy of a letter to contractor and architect about  
the problem.

Architects are likely to make light of the question of  
fireproofing structural steel, and this question turns out to  
be the most important one in connection with the First National  
Stores warehouse.

One has only to take a look at the structural steel in  
the State Pier warehouse to see what can happen to such steel  
which is not fireproofed, even though the building is protected  
by automatic sprinklers.

---

Inspector of Buildings

WMD/S

Encl: Copy of letter in connection with First National warehouse

GANTEAUME & McMULLEN

ENGINEERS - ARCHITECTS

89 CHAUNCY STREET

BOSTON 11

TELEPHONE HANCOCK 8970

INDUSTRIAL BUILDINGS  
COMMERCIAL BUILDINGS  
INVESTIGATIONS  
VALUATIONS  
REPORTS

H. G. A. GANTEAUME

E. W. McMULLEN

2078

A. B. RICH

*m o'connor at  
37 Kenmore St*

October 27, 1947

Mr. Warren McDonald  
Inspector of Buildings  
Department of Building Inspection  
Portland, Maine

RECEIVED

OCT 28 1947

DEPT. OF BLD'G. INSP.  
CITY OF PORTLAND

Dear Sir:

We have your letter of October 25 and thank you for the prompt attention that you have given to the plans for the First National Stores, Inc. We note that you would like a set of specifications and we will see that you are supplied immediately.

We will answer your comments in the order in which you have made them.

1. We were aware of the fact that the unrestricted floor area of the warehouse was greater than that allowed by your building code. We were in hopes, however, that because of the fact that any subdivision would affect the operating efficiency of this plant that the City of Portland would waive this requirement as to building area.

The building will be sprinklered throughout. The present 8" connection will be retained and looped with a new 8" connection in Read Street. Furthermore, we propose installing a 100,000-gal. tank on a 100 foot trestle as a secondary supply, all in accordance with the requirements of the Factory Insurance Association who will carry the risk.

2. All bakery foundations go to ledge rock. All other foundations under walls that do not go to ledge will extend no less than 4 feet below the finished surface of the ground. Account has been taken of the relative bearing of footings where part will bear on ledge and part on sand, as per Section 307-b-1. It is true that on Dwg. 2, File 2078C and Dwg. 102, File 2078A, the code has not been complied with as to projection of the footing not being more than 75% of the depth; these footings will be changed to comply. Incidentally, the depth of the footing should have been marked 24" rather than 4".

As to the grade beam under wall of railroad shed and a similar beam under bakery platform canopy, these are not grade beams in the proper sense of the word. They are nothing but curbs, as the structure including the side walls are carried on piers.

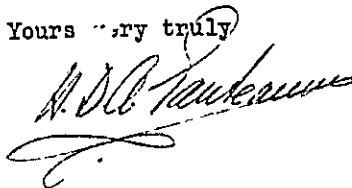
City of Portland, Maine - Building Department

-2-

3. We have attached to the specifications the designers statement of design, as per Section 104-b-3.

We do not believe that the structural steel will be welded, but should such be the case only certified welders will be used.

Yours very truly



HDAG/M

AP 215-239 Read Street-1

October 25, 1947

Gunteaux & McMullen  
99 Chauncy Street  
Boston, Mass.  
Thomas O'Connor & Co., Inc.  
234 Main Street  
Cambridge, Mass.

Subject: Application for advance permit for excavation and foundation only and application for general construction permit for construction of warehouse, garage, office and bakery building at 215-239 Read Street

Gentlemen:

Though no specifications were filed with the applications for the "advance" permit and the general construction permit on October 21, we have proceeded the best we could without that to check the features necessary prior to issuance of the "advance" permit with the following results:

1. The matter of floor areas unsubdivided by fire walls appears as the most important question. We have been unable to find any clear indication on the plans that the total multiple-use building is to be sprinklered, but it is my recollection from conversation with Messrs. McMullen and Dexter, several months ago, at which time the matter of floor areas was discussed, that all parts of the building are to be protected by a standard automatic sprinkler system. If that is not the case, there will be considerable difference from the conclusions reached below.

The unrestricted floor area of the warehouse portion is about 136,000 square feet. Reference to Schedule of Area (Section 302g of the Code) shows this area far in excess of the maximum specific area allowable without subdividing walls. Maximum areas are allowed for First Class or Metal Frame Construction, and allowing three streets or equivalent for access of the Fire Department, allowing that the warehouse is a one-story building (considering the small second story portion as a penthouse) and taking into account that the building is to be sprinklered, the total allowable area is 60,000 square feet.

It occurs to me that the designing engineers may be relying on the allowance of Section 302g.2 which reads: "Buildings of First Class Construction, not more than four stories high, sprinklered, and having streets or equivalent open spaces adjoining the entire length of at least two sides of the buildings shall have unrestricted area." We are unable to classify the warehouse as First Class Construction, however, because it is apparently not the intention to fireproof the steel columns and the steel roof framing, as would be necessary under Section 302a2 and 302d2, if a warehouse were to be counted as First Class Construction. We are compelled to classify it as Metal Frame Construction, as per Section 302d.

2. While this has not been taken for a detailed check, it is understood that all bakery foundations go to ledge rock, that all foundations under exterior walls not to go to ledge will extend no less than 4' below the finished surface of the ground, that full account is being taken of the relative bearing area of footings where part will bear on ledge, and part on some compressible type of soil, as per Section 307b1, and that no unreinforced footings will project beyond wall, column or pier above more than 75 percent of the depth of the footings. The latter condition does not appear in at least one place on Drawing #2, file 2073-C, where detail of interior columns of office section shows an unreinforced footing projecting beyond the column 21" with a depth of footing of only 4"; also typical interior column foundations of warehouse on Drawing 102, file 2073-A, and there may be other places.

Please explain about the grade beam under wall of railroad shed (Section 110/3, file 2073-A, Drawing 106) and a similar beam under bakery platform canopy on

Cantelmo & McAllen  
Thomas O'Connor & Co., Inc. — 2

October 25, 1947

Drawing #12, file 2073-3 as to extending at least 1' below the finished surface of the ground. There may be other similar situations.

3. It runs in my mind that I talked with Mr. McAllen about the designer's statement of design, as per Section 104b3, but we can find none on the plans. Will he furnish one to be attached to the plans? Also, I think I talked with him about the matter of possible welding of structural steel and certification of welders. While that has little to do with the advance permit, we would like to have that cleared up in connection with checking the general construction permit.

Very truly yours,

Inspector of Buildings

WMO/S

CC: First National Stores, Inc.

Attn: Mr. John Dexter

Construction Engineer

Horrill Street

*5 Midd. St. in  
Somerville, Mass.*

First National Stores, Inc.

Attn: Mr. James Kolloy

District Supervisor

Horrill Street

Lyman S. Moore

City Manager

*File*  
*New Folder*  
INQUIRY BLANK

ZONE I  
FIRE DIST. None

CITY OF PORTLAND, MAINE  
DEPARTMENT OF BUILDING INSPECTION

Date 10/17/47

Verbal  
By Telephone

LOCATION Answers' 150 C 3.  
215-239 Road & Owner Seering J. Corp.  
MADE BY Mr. McMullen of Gantmanet TEL. Hancock 8970  
ADDRESS 99 Chauncy St, Boston  
McMullen  
Chauncy St  
PRESENT USE OF BUILDING \_\_\_\_\_  
CLASS OF CONSTRUCTION \_\_\_\_\_ NO. OF STORIES \_\_\_\_\_  
REMARKS: \_\_\_\_\_

INQUIRY: Mr. McMullen an executive of First Nat'l Stores was in 2 or 3 months ago with general plans for 1st Nat'l new structure. Principal question was question of unenclosed floor areas which was very much excessive.

ANSWER: Told them we had no option but to apply requirements and that no variance appeal lies on such a question. Mr. McM. intimated they would seek amendment of the Code.

(Phoned Mr. Kelley, Dist Sup for 1st Nat. today (10/17/47) at Mr. Moore's suggestion, and he said they did not plan to start construction till March, 1948)  
DATE OF REPLY \_\_\_\_\_ REPLY BY WMB



(I) INDUSTRIAL ZONE  
APPLICATION FOR PERMIT

Class of Building or Type of Structure 500007 Class 1st

Portland, Maine, March 1, 1947

DEPT. OF ISSUES  
00329  
MAY 8 1947

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to ~~erect~~ alter ~~rebuild~~ ~~reconstruct~~ the following building structure ~~erect~~ in accordance with the Laws of the State of Maine, the Building Code and Zoning Ordinance of the City of Portland, plans and sections, if any, submitted herewith and the following specifications:

Location End of Morrill Street Within Fire Limits? no Dist. No. \_\_\_\_\_  
Owner's name and address First National Stores, Inc., Morrill Street Telephone \_\_\_\_\_  
Lessee's name and address \_\_\_\_\_ Telephone \_\_\_\_\_  
Contractor's name and address Clifford Fournier, 94 Seavey St., Westbrook Telephone 43  
Architect \_\_\_\_\_ Specifications \_\_\_\_\_ Plans yes No. of sheets 1  
Proposed use of building Warehouse No. families \_\_\_\_\_  
Last use \_\_\_\_\_ No. families \_\_\_\_\_  
Material BRICK No. stories 1 Heat \_\_\_\_\_ Style of roof flat Roofing \_\_\_\_\_  
Other buildings on same lot \_\_\_\_\_  
Estimated cost \$ 500. Fee \$ 1.00

General Description of New Work

To change former engine room to repair garage.  
To enlarge existing 8' wide garage door opening to 11' wide as per plan.  
3"x5" H-beam for support. This portion of building to be used for storage of tractors, and repair, in connection with trailer trucks.  
Existing opening in 8" brick wall dividing boiler room from garage to be provided with Class B Und. Lab. fire door. To provide 6" raised threshold at this opening.

INSPECTION NOT COMPLETED  
4/16/51

Permit Issued with Letter

It is understood that this permit does not include installation of heating apparatus which is to be taken out separately by and in the name of the heating contractor.

Details of New Work

Is any plumbing work 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 \_\_\_\_\_ Kind of heat \_\_\_\_\_ fuel \_\_\_\_\_  
Framing lumber—Kind \_\_\_\_\_ Dressed or full size? \_\_\_\_\_  
Corner posts \_\_\_\_\_ Gills \_\_\_\_\_ 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 \_\_\_\_\_  
If one story building with masonry walls, thickness of walls? \_\_\_\_\_ height? \_\_\_\_\_

If a Garage

No. cars now accommodated on same lot \_\_\_\_\_, to be accommodated \_\_\_\_\_ number commercial cars to be accommodated \_\_\_\_\_  
Will automobile repairing be done other than minor repairs to cars habitually stored in the proposed building? \_\_\_\_\_

APPROVED:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Miscellaneous

Will work require disturbing of any tree on a public street? no  
Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes

First National Stores, Inc.

Signature of owner By: Clifford Fournier

COPY





Frost Natl. Stores

Location End of Maxwell St.

Date 6-6-47

Permit \_\_\_\_\_  
Inquiry \_\_\_\_\_  
Complaint \_\_\_\_\_

✓ The fire doors, holding up the certificate of occupancy (i-temp. cert. risks id) are now in place and satisfactory. They are self-closing.

✓ The one to the boiler room was wired open at the time of this inspection. Man on duty said it had to be that way.

✓ The Dist. Supervisor of these stores should be notified that it is his responsibility that this door be permitted to function as it is intended to in an emergency.

O. G.

BP 47/329-1

7/1/47/A

June 7, 1947

Mr. J. J. Kelley  
Warehouse Superintendent  
First National Stores, Inc.  
Box 1661  
Portland, Maine

Subject: Operation of fire doors in connection with  
provision of Repair Garage at warehouse of First  
National Stores, Inc. at the end of Morrill Street

Dear Sir:

The required labelled fire doors have been provided in these openings as agreed in your letter of March 20, but we are still unable to issue the final required certificate of occupancy for the Repair Garage because the closing devices of the doors do not comply with the requirements.

You have chosen to make both doors self-closing which means that they would be normally closed and kept closed by <sup>STANDARD</sup> operating devices. As you will note from my letter of March 3, this decision to make at least the door between the Repair Garage and the boiler room self-closing is good safety, but on both doors you have installed self-closing devices by way of weights connected to the door by rope through pulleys and not the standard and usual liquid door closers. These devices are changing out to liquid door closers of suitable size to operate and if with door is too heavy to be controlled by the usual liquid door closer largest size you should submit some other proposal for approval before making.

While attempting to make final inspection, our inspector reports that the fire door between garage and boiler room was found wired open so that the self-closing device which you have installed would not operate to close the door if fire should occur. The man on duty said that the door had to be held open. Such tampering with and making ineffective the operating devices of fire doors is a violation of the Building Code, and the party in charge of the building and the one actually fastening the door open is liable therefor with the criminal law. I realize that none of you had any idea of violating the law or for making things unsafe, but you must proceed at once to make this door fully operative while you are procuring and applying approved closing devices.

I suspect that the reason for wiring the door in the open position is that it is considered necessary to keep this door open in order to furnish sufficient air to the boiler to support combustion. Examination of paragraph 4 of my letter of March 3 will show that we foresaw such a difficulty and suggested the remedy.

It is necessary at any rate that you proceed at once to provide approved closing devices on both of these doors, see to it that provisions are made for supplying sufficient fresh air to the boiler room to support combustion in the fires, and notify this office when all of this has been done for another final inspection so that we may be in position to issue the necessary final certificate of occupancy covering the use of the Repair Garage.

Very truly yours,

Inspector of Buildings

McD/S

# FIRST NATIONAL STORES INC.

5 MIDDLESEX AVENUE • SOMERVILLE 45, MASSACHUSETTS

Reply To:

BOX 1661  
PORTLAND, ME.



March 20, 1947

Building Inspector  
389 Congress Street  
Portland, Maine

Dear Sir:

Contractor has informed us - 2 Fire Doors from Hutchins  
Eng. Co. are to be installed at First National Stores Garage,  
Morrill Street, Portland, Maine.

Very truly yours,

FIRST NATIONAL STORES INC.

*J. J. Kelley*  
J. J. Kelley  
Whse. Supt.

These plans (1 sheet) and the specifications accompanying the same, covering construction work on  
Floor Lintel - First National Store Warehouse, Morrill St.  
(11-0)  
have been designed and drawn up by the undersigned according to the latest rules of engineering practice and to comply with the allowable working stresses, floor loads, etc. required by the Building Code of the City of Portland.

(Signature) *Mezzmer Jones Co.*

By *F. Leroy Crane*

(This statement is to be signed by the individual responsible for the design, and is should indicate in the blank provided the particular work to which the statement applies.)

S.F. ROOF

2-~~8~~" I

CUT 3

NE

2-4x6' I D.F.E.M. 9' LONG

DOOR AS SHOWN

CUT OUTS

RECEIVED

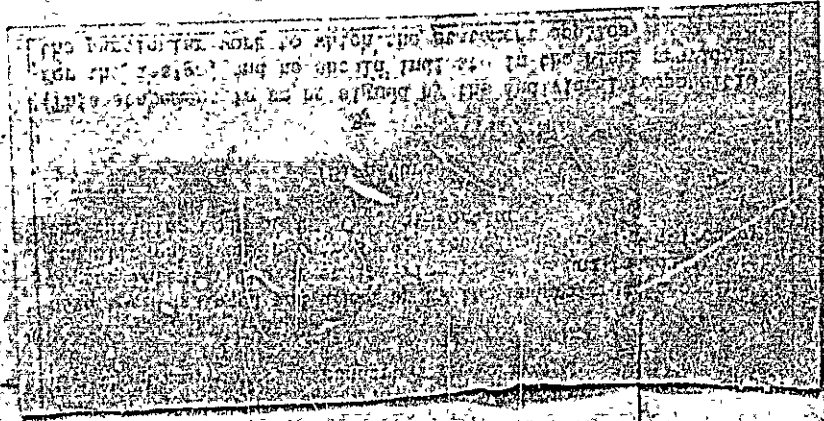
MAR - 1 1947

DEPT. OF BLD'G. INS'P.  
CITY OF PORTLAND

1/2 BOLT  
3'

FOR FIRST NATIONAL STORES WAREHOUSE

MORRILL ST. PORTLAND



8' x 8' ROOF

ROOF  
CONCRETE ROOF

2 - 6" I BEEN 10' LONG  
NEW DOOR OPENING 11'

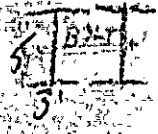
CUTS

2 - 4x6" I OPEN 9' LONG  
DOOR 4' x 6' 6"

CUT CUTS

RECEIVED  
MAR - 1 1947  
DEPT. OF BLD'G. INSP.  
CITY OF PORTLAND

FOR FIRST NATIONAL STORES WAREHOUSE  
MORRILL ST., PORTLAND



AP End of Morrill Street-1  
(First National Stores)

MR  
ESS  
BMT  
AJS  
LPH  
DC  
XDJ  
VBS

March 25, 1947

First National Stores, Inc.  
Attn: District Supervisor  
Morrill Street  
Portland, Maine

Subject: Temporary and conditional  
certificate of occupancy to cover  
the use of room to be used for  
Repair Garage in warehouse occupied  
by First National Stores, Inc. at  
the end of Morrill Street

Gentlemen:

This letter is to be considered a temporary and conditional  
certificate of occupancy to cover the use of the Repair Garage part  
of the above building, the conditions being that:

1. The required labelled fire doors being on order but not  
received on account of the materials situation, solid doors of wood  
have been supplied in place of the fire doors, and as soon as the  
fire doors can be procured, they will be installed at the earliest  
possible time together with the suitable operating devices of the  
doors.

2. As soon as the job is fully completed by installing the  
required labelled fire doors and the necessary operating hardware,  
this office will be notified for final inspection at which time if  
everything is found in order, the final certificate will be issued.

Very truly yours,

Inspector of Buildings

WHed/S

End of Morrill St  
(First National  
Inc.)-1

March 3, 1947

WTH  
CSS  
BMT  
AJS  
JH  
DO  
Dy  
BS

Mr. Clifford Bourcier  
94 Seavey Street  
Westbrook, Maine  
First National Stores, Inc.  
Morrill Street  
Actn: District Supervisor

Subject: Building permit for alterations at warehouse of First National Stores, Inc. at end of Morrill Street to convert former engine room and joining heater room to a Repair Garage

Gentlemen:

Application and sketch are short a great deal of information to establish full compliance with Building Code requirements for a Repair Garage attached to a Business & Industrial building, but the permit is issued to the contractor herewith subject to the following and on the basis that if the conditions are not clearly understood or if the owner is not willing to abide by them, you will refrain from starting the work and furnish detailed architectural plans of the proposition to show compliance with Building Code requirements fully and return the permit until such time as the plans can be checked and the permit re-issued.

1. Sec. 303d1, d2 & d3. If there will be more than four feet from the top of the new steel lintel over the widened doorway to the top of the masonry wall, the new lintel requires fireproofing of 2-inch thickness of concrete all around the beam, filling all spaces between the flanges and between the beams and reinforcing the fireproofing with suitable mesh, held away from the beam during the pouring process.
2. Sec. 204b4. If enlarged exterior doorway or any existing or proposed window openings in proposed garage part would be closer than 30 feet to any of line dividing privately owned lots or closer than 30 feet to an unprotected opening in another building, or closer than 30 feet to any part of any wooden frame building (the latter would include the main warehouse which is of wood), the openings require standard fire resistive doors set in structural metal frames or standard fire resistive windows. See Sec. 303c4 and c5.
3. Sec. 212b2 Schedule A. It is understood that there is existing between the connections to the main warehouse and the proposed garage part masonry walls no less than eight inches in thickness, that the doorway in this wall either is or will be made a standard Class B (labelled) fire door, set in structural metal frame and made either automatic-closing or self-closing by standard hardware, and that all other openings which exist in these dividing walls will be filled in with masonry no less than eight inches thick.
4. Sec. 204f4. Application calls for existing opening in 8-inch brick wall dividing boiler room from proposed garage part to be equipped with Class B (labelled by Underwriters Laboratories) fire door with threshold of incombustible material raised at least six inches above the floor of the garage part. The door should preferably be self-closing and is required to be either self-closing or automatic-closing using standard hardware, and is required to be set in a structural metal frame if any frame is necessary. If there is any reliance at present upon air coming through this opening from the engine room to assist in combustion, this supply will have to be supplemented from outside doors if the fire door is made self-closing. An automatic-closing fire door, since it would normally be open, is not a safe proposition between a garage and a heater room because in case of accumulation of gasoline fumes at the floor level of the garage, strong air currents are likely to blow the gas over the raised threshold and thus reach the fire—flashing back to the source to complete the disaster.

March 3, 1947

5. Sec. 204c. It is understood that the roof over the garage portion is entirely of non-burnable material, that this part of the building is not equipped with automatic sprinkler system, that there are no partitions and no ceiling containing burnable material in parts proposed for garage and that none are contemplated. It should be borne in mind that, unless the sprinkler system is to be extended to cover the garage (this is strongly recommended), any existing partitions in the garage part or ceiling containing combustible material are not allowable and the construction of such partitions or ceiling in the future would not be allowable either.
6. Sec. 204e. The garage part requires no less than two exit doorways at least two feet in width and not more than four feet in width and no less than six feet four inches high. Thus the new large exterior doorway and no other door more than four feet wide can be counted, but a "wicket" door no less than two feet wide and no less than six feet four inches high could be provided in the large doors. These two required means of egress need not both lead out-of-doors but, according to Sec. 212e1,2(a) of the Code, they must be so located and arranged with respect to each other and to men in the garage that a hazard involving one of them would not be likely to make the other one impassable or inaccessible to those in the garage. If there is any doubt about the adequacy of the arrangement of means of egress proposed, the best way to proceed is to file a plan of the garage part here, showing the relative location, the width and the height of the two means of egress proposed.
7. Sec. 204f3. If electrical equipment tending to produce sparks is intended, unless of the totally enclosed type and at least four feet above the floor level of the garage, or forges, welding equipment, vulcanizing or other heat generating apparatus or apparatus for spraying on finishes, note the requirements of this section for enclosure of the appliances in fire resistive boxes.
8. Sec. 204i1 & 12. Note that any floor drains contemplated in the garage part must be equipped with trap or separator competent to prevent inflammable liquids and greases from passing into the drainage system--to be of a type approved by the Chief of the Fire Department and the Plumbing Inspector.  
Any tanks, pumps and other equipment, the storing or handling of gasoline are required to be covered as to installation by a separate permit to be applied for here by the installer and issuable only to him.
9. Sec. 108a. Because the proposed use of the former engine room as a Repair Garage would constitute a change of class of use, this section requires that notice of readiness for final inspection be given to this office when all features controlled by the Building Code are completed and that the proposed garage is not to be occupied for the new use until the inspection has found everything in order <sup>and</sup> until the certificate of occupancy has been issued from this office.

Very truly yours,

Inspector of Buildings

W McD/S



NT FOX  
MILL

185 FT

50 FT  
HIRTLAND  
BILLARD BALL CO.

DEPT. OF  
PUB. WORKS  
CITY OF PORTLAND



266 FT

VENTS ON POLE  
POLE FOR WIDING

185 FT

RECEIVED  
FEB 26 1947  
DEPT. OF P.W.  
CITY OF PORTLAND

FIRST NAT. STORES  
WAREHOUSE

139 W 12



(1) INDUSTRIAL ZONE  
APPLICATION FOR PERMIT

PERMIT ISSUED  
00305  
FEB 27 1947

Class of Building or Type of Structure Installation

Portland, Maine, February 26, 1947

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to ~~put~~ ~~erect~~ ~~construct~~ install the following building structure equipment 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 End of Worrill Street Within Fire Limits? no Dist. No. \_\_\_\_\_  
 Owner's name and address Warehouse Transportation Co., Worrill St. Telephone \_\_\_\_\_  
 Lessee's name and address \_\_\_\_\_ Telephone \_\_\_\_\_  
 Contractor's name and address E. H. Stokes, 355 Pride Street, Westbrook Telephone 3-5179  
 Architect \_\_\_\_\_ Specifications \_\_\_\_\_ Fire Dept. Plans yes No. of sheets 1  
 Proposed use of building \_\_\_\_\_ No. families \_\_\_\_\_  
 Last use \_\_\_\_\_ No. families \_\_\_\_\_  
 Material \_\_\_\_\_ No. stories \_\_\_\_\_ Heat \_\_\_\_\_ Style of roof \_\_\_\_\_ Roofing \_\_\_\_\_  
 Other buildings on same lot \_\_\_\_\_  
 Estimated cost \$ \_\_\_\_\_ Fee \$ 1.00

General Description of New Work

To install 2-2000 gallon gasoline tanks for private use. Tanks will be underground 2' and coated with asphaltum. Tanks bear Und. label. Piping from tanks to pumps 1 1/2". To install 1 electric pump. New installation.

2/26/47  
Approved by Fire Dept. 2/26/47  
COMMISSIONER OF URGENCY  
REQUIREMENT IS WAIVED

It is understood that this permit does not include installation of heating apparatus which is to be taken out separately by and in the name of the heating contractor.

Details of New Work

Is any plumbing work 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 living \_\_\_\_\_ Kind of heat \_\_\_\_\_ fuel \_\_\_\_\_  
 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 \_\_\_\_\_  
 If one story building with masonry walls, thickness of walls? \_\_\_\_\_ height? \_\_\_\_\_

If a Garage

No. cars now accommodated on same lot \_\_\_\_\_, to be accommodated \_\_\_\_\_ number commercial cars to be accommodated \_\_\_\_\_  
Will automobile repairing be done other than minor repairs to cars habitually stored in the proposed building? \_\_\_\_\_

Miscellaneous

Will work require disturbing of any tree on a public street? no  
Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes

APPROVED: Alvin A. Johnson  
CHIEF OF FIRE DEPT.

Signature of owner E. H. Stokes

Permit No. 47/305

Location Ream-in-nill St

Owner Warehouse Transp. Co.

Date of permit 2/27/47

Notif. closing-in

Inspn. closing-in

Final Notif

Final Inspn. 2/28/47

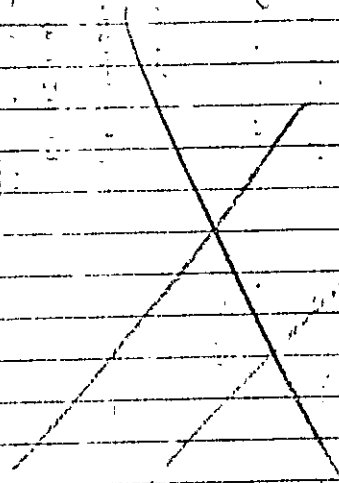
Cert. of Occupancy issued None.

NOTES

157-1-3

157-1-3

2/28/47 P.I.T. (2)





# APPLICATION FOR PERMIT

Class of Building or Type of Structure Third Class

Portland, Maine, July 1, 1946

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to ~~erect~~ demolish ~~and~~ the following building structure equipment 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 Foot of Morrill Street (Rear 59) Within Fire Limits? no Dist. No. \_\_\_\_\_

Owner's name and address Deering Junction Corp., 75 Federal St., Boston Telephone \_\_\_\_\_

Lessee's name and address \_\_\_\_\_ Telephone \_\_\_\_\_

Contractor's name and address Oxford Wrecking Co., 105 Main St., So. Portland Telephone none

Architect \_\_\_\_\_ Specifications \_\_\_\_\_ Plans no No. of sheets \_\_\_\_\_

Proposed use of building \_\_\_\_\_ No. families \_\_\_\_\_

Last use Barn No. families \_\_\_\_\_

Material frame No. stories 2 Heat \_\_\_\_\_ Style of roof \_\_\_\_\_ Roofing \_\_\_\_\_

Other buildings on same lot garage, storage of sawdust, warehouse, etc.

Estimated cost \$ \_\_\_\_\_ Fee \$ 1.00

## General Description of New Work

To demolish 2 story frame building used for barn;  
 To demolish 1 story 20'x100' garage;  
 To demolish 3 story metal-clad sawdust storage building with loading platform attached  
 40'x30'; No sewer connection.

It is understood that this permit does not include installation of heating apparatus which is to be taken out separately by and in the name of the heating contractor.

## Details of New Work

Is any plumbing work 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 \_\_\_\_\_ Kind of heat \_\_\_\_\_ fuel \_\_\_\_\_

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 \_\_\_\_\_

If one story building with masonry walls, thickness of walls? \_\_\_\_\_ height? \_\_\_\_\_

## If a Garage

No. cars now accommodated on same lot \_\_\_\_\_, to be accommodated \_\_\_\_\_ number commercial cars to be accommodated \_\_\_\_\_

Will automobile repairing be done other than minor repairs to cars habitually stored in the proposed building? \_\_\_\_\_

## Miscellaneous

Will work require disturbing of any tree on a public street? no

Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes

APPROVED:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Deering Junction  
 Oxford Wrecking Co.

Signature of owner by: H. P. Stapleton

INSPECTION COPY

PERMIT ISSUED  
 01152  
 JUL 1 1946

Permit No. 46/1152

Location Reas 59 Morrell St

Owner Deering Junction

Date of permit 7/1/46

Notif. closing-in

Inspn. closing-in

Final Notif

Final Inspn. 12/18/46

Cert of Occupancy issued none

NOTES

12/18/46 - wind done  
5/2

AP Foot of Morrill St.-I

ATH  
EM  
PH  
AJS  
HL  
BS

March 18, 1946

Simonds Construction Company  
12 Monument Square  
Portland 3, Maine

Subject: Construction of loading  
platform for First National Stores  
at the foot of Morrill Street

Gentlemen:

Will Mr. Bowdoin file to be attached to the plans the signed statement of design called for by Section 194b3 of the Building Code to cover design of the reinforced concrete curtain wall which evidently has retaining wall action?

it seems that it must be taken as a simple slab since the reinforcement is outside of the wall, with reactions at the floor slab and at the ground or perhaps partially at the existing concrete pier--the wall not being thick enough for a gravity wall.

Very truly yours,

Inspector of Buildings

W McD/S

CC: First National Stores, Inc.  
5 Middlesex Avenue  
Somerville, Mass.



(B) INDUSTRIAL ZONE

APPLICATION FOR PERMIT

Class of Building or Type of Structure Loading Platform

Portland, Maine, March 13, 1946

PERMIT ISSUED  
00376  
MAR 18 1946

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to ~~erect~~ alter ~~or~~ ~~reconstruct~~ all the following building, structure, equipment, 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 Foot of Morrill Street Within Fire Limits? no Dist. No. \_\_\_\_\_  
 Owner's name and address First National Stores Co., 5 Middlesex Ave., Somerville, Mass. Telephone \_\_\_\_\_  
 Lessee's name and address \_\_\_\_\_ Telephone \_\_\_\_\_  
 Contractor's name and address Simonds Construction Co., 12 Monument Sq. Telephone 3-5123  
 Architect \_\_\_\_\_ Specifications \_\_\_\_\_ Plans Yes No. of sheets 1  
 Proposed use of building Warehouse No. families \_\_\_\_\_  
 Last use \_\_\_\_\_ No. families \_\_\_\_\_  
 Material Frame No. stories \_\_\_\_\_ Height \_\_\_\_\_ Style of roof \_\_\_\_\_ Roofing \_\_\_\_\_  
 Other buildings on same lot \_\_\_\_\_  
 Estimated cost \$ 4000. Fee \$ 4.50

General Description of New Work

To replace existing loading platform now of frame construction with concrete as per plan. No change in size.

Issued with letter.

CERTIFICATE OF OCCUPANCY  
REQUIREMENT IS WAIVED

It is understood that this permit does not include installation of heating apparatus which is to be taken out separately by and in the name of the heating contractor.

Details of New Work

Is any plumbing work 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 \_\_\_\_\_ bottom \_\_\_\_\_ cellar \_\_\_\_\_  
 Material of underpinning \_\_\_\_\_ Thickness \_\_\_\_\_  
 Kind of roof \_\_\_\_\_ Rise per foot \_\_\_\_\_ Roof covering \_\_\_\_\_  
 No. of chimneys \_\_\_\_\_ Material of chimneys \_\_\_\_\_ of lining \_\_\_\_\_ Kind of heat \_\_\_\_\_ fuel \_\_\_\_\_  
 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 \_\_\_\_\_  
 If one story building with masonry walls, thickness of walls? \_\_\_\_\_ height? \_\_\_\_\_

If a Garage

No. cars now accommodated on same lot \_\_\_\_\_, to be accommodated \_\_\_\_\_ number commercial cars to be accommodated \_\_\_\_\_  
 Will automobile repairing be done other than minor repairs to cars habitually stored in the proposed building? \_\_\_\_\_

Miscellaneous

Will work require disturbing of any tree on a public street? no  
 Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes

APPROVED:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

First National Stores, Inc.  
Simonds Construction Co.

*Signature of owner*

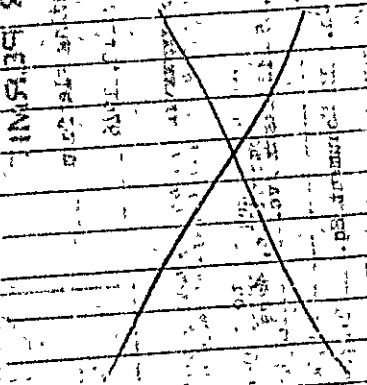
Signature of owner by:

INSPECTION COPY

Permit No. 40/375  
 Location Monell St  
 Owner Fural National Store  
 Date of permit 3/18/46  
 Notif. closing-in  
 Inspn. closing-in  
 Final Notif.  
 Final Inspn. 7/23/46  
 Cert. of Occupancy issued None

NOTES  
4/8/46 Work under  
7/20/46 Work done

FOR INSPECTION



DIRECTOR OF PUBLIC WORKS

CITY OF PHOENIX

APPROVED

DATE



151-E-3  
158-A-3-75

J. W. Allen  
P.H.  
at

Rept. 4654D-I

7/5/44/R

June 21, 1944

The Portland Company  
Attn: Mr. A. W. Grote  
58 Fore Street  
Portland 3, Maine

Subject: Deficiency of safety devices in connection with freight elevator installed for First National Stores, Inc. at their warehouse on Morrill Street

Gentlemen:

No substantial metal cover, hinged to lift upward, at sides where entrances occur, has been provided over the car. I realize that this is a hydraulic elevator, and you may have concluded that no cover is necessary on that account. If that is the case, please demonstrate that the Standard Code for elevators and equipment does not require such a cover in such a case. This because in details not covered by the Portland Code, requirements of the Standard Code (American Standard Safety Code for elevators, dumb waiters and escalators, approved by American Standards Association) apply. If you cannot so demonstrate, please provide the cover without further ado.

Hatch gates are not "self-closing" in the sense that they close automatically when the elevator leaves the floor where the gates are intended to protect the opening. See Section 703-d of the Building Code. Also there is no low rail on the gate as required, the underside of the gate being 18 inches above the floor when in its lowest position. I realize the difficulties of sufficient headroom when the gates are up, but this problem will have to be met in some other way than leaving off the required low rail.

I am willing to concede that installation of this elevator without first securing the permit therefor was a plain oversight without intent to ignore the law. Since that is the case, however, it is necessary that you make good these deficiencies, have your installation foreman certify to the statement of elevator tests (blank is enclosed which ordinarily would go to the applicant for a permit with the applicant's copy of the application), and return to this office without delay.

Very truly yours,

WMCD/S

Inspector of Buildings

CC: First National Stores  
Construction Department  
3 Middlesex Avenue  
Somerville, Mass.

G.N.  
202  
DMW

Inquiry First Nat'l Stores  
Merrill Street

May 23, 1944

Mr. Norman L. Foer  
27 School Street  
Boston, Massachusetts

Subject: Inquiry as to compliance with Building  
Code of plans for change in floor for First  
National Stores at their warehouse on Merrill  
Street

Dear Sir:

Since these plans include the design of reinforced concrete, it is necessary to have attached to them an application for building permit is made a statement of design designed by the individual actually responsible for the design of the work as per Section 104-3 of the Building Code.

I have just talked over the telephone to Mr. Dexter of the First National Stores in connection with this job and he said that the Simonds Company is to do the work. I told him that the contractor should apply for the building permit to cover the work, filing the plans and specification, if any, with the application for the building permit. Thus the plan which the contractor files should bear upon it the above statement of design.

There is on the plan an indication of an existing elevator, but our inspector on the job says that there was none installed the last time he was there but there was a hole in the floor. If this existing elevator has already been installed, it must have been installed before securing a building permit as required. If the elevator has thus been installed without a permit, please take necessary steps to get the matter straightened out. Such a permit must be applied for by and is issuable only to the actual installer, and the superintendent in charge of the installation must swear to a statement of safety test provided at this office and attached to the application for the building permit. With the application for such an elevator must be filed full detailed plans explaining the situation so that the details may be checked against Building Code requirements.

In checking over the plan there seems to be some question as to where the drainage lines empty. While this is not a particular responsibility of this office, probably our Health Department is vitally concerned as regards it. If the matter is not fully straightened out, it should be taken up with the Health Department.

Very truly yours,

Inspector of Buildings

EXCL/S

CO: J. F. Dexter  
M. J. of Warehouse  
First National Stores  
P. O. Box  
Post Office  
312 1/2 Construction Co. Inc.  
100 West Square



HERMAN L. FEER  
Architect  
27 SCHOOL STREET BOSTON MASS

TELEPHONE  
CAPITOL 2991

RECEIVED  
MAY 15 1944  
DEPT. OF PUB. WORKS  
CITY OF BOSTON

Mr. McDonald  
Building Commissioner  
Portland Maine

I.M.W.  
Photo made  
reprinting of the  
as to your request  
I understand no  
no effort to  
forwarded  
May 13, 1944

Dear Sir,

I am enclosing print of proposed cement area to be installed on part of present floor in First National Stores Warehouse at foot of Morrill St.

The first floor girders and columns have a capacity of 250# per square foot of loading. The cement area to be installed is for vegetables only and will not exceed 90# / sq. ft. of actual loading.

If there are any question you may have I will come to see you at your convenience.

Very truly yours

Herman L. Feer, Architect

*Pls attach  
to all letters  
out of the office  
to me  
Wm. J. Feer*

HERMAN L. FEER  
Architect  
27 SCHOOL STREET, BOSTON, MASS.

TELEPHONE  
CAPITOL 2991

May 24, 1944.

Mr. Warren McDonald  
Inspector of Buildings  
Portland, Maine

Dear Sir:

Re: Concrete slab installation  
First National Stores Warehouse  
Morrill St., Portland, Maine

I have made design for concrete slab on above  
building, and the accompanying design calculations were  
made by me for this work.

Very truly yours,  
*Herman L. Feer*  
HERMAN L. FEER

HLF:G  
Enc.

RECEIVED  
MAY 25 1944  
DEPT. OF BLD'G. INSP.  
CITY OF PORTLAND

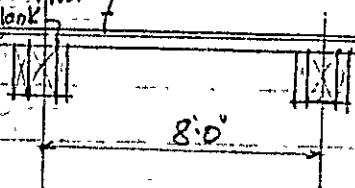
First National Stores Inc. Warehouse. Merrill St. Portland Me.

Present Construction 1st Floor. Girders  $10'' \times 14''$  } - Floor  $2\frac{5}{8}''$  Plank  
 $\phi 2-4'' \times 14''$  } Fibre Stress  $10 \times 14 = 1200''$

Girder Span  $16'-0''$  cen. to cen. Posts. " "  $4 \times 14 = 1600''$

$2\frac{5}{8}''$  Plank Span  $8'-0''$  centre to centre Girders.

$\frac{7}{8}''$  Fin. Floor 7  
 $2\frac{5}{8}''$  Plank



Girder Capacity  $W. pfs$   
 $\frac{span \times 12}{16 \times 12}$

$10'' \times 14''$  Capacity  $\frac{8 \times 1200 \times 325}{16 \times 12} = 16500$

$2-4'' \times 14''$  "  $\frac{2 \times 8 \times 1600 \times 130}{16 \times 12} = 17400$

Total Capacity  $33900$

Cap / Square foot of floor  $\frac{33900}{1260} = 26.9'' / Sq. Ft.$

Deduct Dead wt. of  $16 \times 8$  Girder  $\frac{7}{257}'' / Sq. Ft.$

Con. Slab design for  $250''$  Live Load.

Average thickness of Slab  $5'' = 60''$

$310''$  Total.

Slab Span  $7'-0''$

$f_c = 16000''$   $f_s = 715''$

$M = \frac{wL^2}{10}$ ,  $\frac{310 \times 7^2 \times 12}{10} = 18200$   $M_c = \frac{1}{2} f_c j K b d^2$

$18200 = \frac{1}{2} \times 715 \times 866 \times 401 \times 12 d^2$

$18200 = 1480 d^2$

$d = 12.3$

effective  $d = 3.5$

use Min Slab  $4\frac{1}{2}''$  thick ok

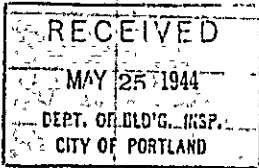
Area of Steel: As. pld.  $009 \times 12 \times 3.5 = .376 / sq. ft.$

$\frac{1}{2}'' \phi$  Rods  $6'' c.c. = .39 / sq. ft.$  ok

Note Slab designed for total Live Load of  $250''/sq.$

Actual Maximum wt. of Vegetables stored on this area do not exceed  $100'' / square foot$  by actual weight of maximum height of material stored.

William L. Veer, Architect, 27 School St. Boston, Mass.







# INDUSTRIAL WORKS APPLICATION FOR PERMIT

**PERMIT ISSUED**  
0465

Permit No. \_\_\_\_\_  
MAY 27 1944

Class of Building or Type of Structure third class

Portland, Maine, May 24, 1944

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to erect alter install the following building structure equipment in accordance with the Laws of the State of Maine, the Building Code of the City of Portland, plans and specifications, if any, submitted herewith and the following specifications:

Location Porritt Street Within Fire Limits? no Dist. No. \_\_\_\_\_  
 Owner's or Lessee's name and address Deering Junction Corp. Telephone \_\_\_\_\_  
 Contractor's name and address Lessee First National Stores Telephone 2-5123  
Simonds Construction Co., Inc. 12 Monument Sq.  
 Architect Herman L. Peer, 27 School St. Boston Plans filed yes No. of sheets 2  
 Proposed use of building Warehouse No. families \_\_\_\_\_  
 Other buildings on same lot \_\_\_\_\_  
 Estimated cost \$ 1,500. Fee \$ 2.75

### Description of Present Building to be Altered

Material wood No. stories 1 Heat \_\_\_\_\_ Style of roof \_\_\_\_\_ Roofing \_\_\_\_\_  
 Last use Warehouse No. families \_\_\_\_\_

### General Description of New Work

To provide reinforced concrete floor in section of building as per plans

It is understood that this permit does not include installation of heating apparatus which is to be taken out separately by and in the name of the heating contractor.

### Details of New Work

**PERMISSION TO PROCEED LATER  
ON INSTALLATION OF HEATING  
REQUIREMENT IS WAIVED**

Is any plumbing work involved in this work? \_\_\_\_\_  
 Is any electrical work involved in this work? \_\_\_\_\_ Height average grade to top of plate \_\_\_\_\_  
 Size, front \_\_\_\_\_ depth \_\_\_\_\_ No. stories \_\_\_\_\_ Height average grade to highest point of roof \_\_\_\_\_  
 To be erected on 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 \_\_\_\_\_  
 Kind of heat \_\_\_\_\_ Type of fuel \_\_\_\_\_ Is gas fitting involved? \_\_\_\_\_  
 Framing lumber—Kind \_\_\_\_\_ Dressed or full size? \_\_\_\_\_  
 Corner posts \_\_\_\_\_ Sills \_\_\_\_\_ Girt or ledger board? \_\_\_\_\_ Size \_\_\_\_\_  
 Material columns under girders \_\_\_\_\_ Size \_\_\_\_\_ Max. or centers \_\_\_\_\_  
 Studs (outside walls and carrying partitions) 2x4-16" O. C. Girders 6x8 or larger. Bridging in every floor and flat roof span over 8 feet. Sills and corner posts all one piece in cross section.  
 Joists and rafters: 1st floor \_\_\_\_\_, 2nd \_\_\_\_\_, 3rd \_\_\_\_\_, roof \_\_\_\_\_  
 On centers: 1st floor \_\_\_\_\_, 2nd \_\_\_\_\_, 3rd \_\_\_\_\_, roof \_\_\_\_\_  
 Maximum span 1st floor \_\_\_\_\_, 2nd \_\_\_\_\_, 3rd \_\_\_\_\_, roof \_\_\_\_\_  
 If one story banding with masonry walls, thickness of walls? \_\_\_\_\_ height? \_\_\_\_\_

### If a Garage

No. cars now accommodated on same lot \_\_\_\_\_ to be accommodated \_\_\_\_\_  
 Total number commercial cars to be accommodated \_\_\_\_\_  
 Will automobile repairing be done other than minor repairs to cars habitually stored in the proposed building? \_\_\_\_\_

### Miscellaneous

Will above work require removal or disturbing of any shade tree on a public street? no  
 Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are observed? yes  
 Signature of owner By First National Stores, Inc.  
Simonds Construction Co., Inc.  
By William H. Carleton, Chief Engineer

INSPECTION COPY







Permit No. \_\_\_\_\_

# APPLICATION FOR ELEVATOR PERMIT

Portland, Maine, May 25, 1944

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.  
The undersigned hereby applies for a permit to install alter Install elevator one 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 Morrill Street Ward 9 Within Fire Limits? Yes Dist. No. \_\_\_\_\_  
 Owner's name and address First National Stores Somerville, Mass.  
 Elevator contractor's name and address The Portland Co. Portland, Maine Telephone 2-7491  
 Last use of building Factory No. families \_\_\_\_\_  
 Proposed use of building Warehouse No. families \_\_\_\_\_  
 Material of outside walls of building Wood Frame, interior frame Wood  
 No. of stories One Style of roof \_\_\_\_\_ No. of existing elevators in building None

### Remarks

### Details of Proposed Work

Extent of work by elevator contractor Installing new elevator  
 Extent of work by owner Cut out floor for elevator and enclose shaftway  
 Type of elevator Elec. Oil Hydraulic Plunger new or existing shaftway New  
 Shaftway enclosed or open Open No. elevator stops 2  
 Capacity of elevator 10,000 Speed in feet per minute 25  
 Material of cables None No. and size of hoisting cables None  
 Location of machinery Basement Material of supports Hard Pine, of guides Steel  
 Minimum diameter of sheaves None Minimum clearance counterweights and overhead beams None  
 Minimum clearance above car at topmost floor level 6 feet  
 Minimum clearance buffer plates and springs when car is at lowest floor level 3 ft.  
 Type of power Electric Type of machine Rotary Pump  
 Will elevator be equipped with the following safety devices?—governor? No, car safety? No, electric brakes? No, automatic terminal stops at top and bottom? Yes, slack cable stops? No, safety floor stops? Yes

### If Passenger Elevator

Passenger capacity? \_\_\_\_\_ Area of platform \_\_\_\_\_ Material of enclosure \_\_\_\_\_  
 No. of entrances \_\_\_\_\_ Type of gates \_\_\_\_\_, interlocked? \_\_\_\_\_, automatic closing device? \_\_\_\_\_  
 Will elevator be automatic or will operator be in attendance? \_\_\_\_\_  
 Will doors in shaftway enclosure be interlocked? \_\_\_\_\_

### If Freight Elevator

Area of platform 8 ft. x 10 ft. No. of sides enclosed Three Height of enclosure 6 ft.  
 Will shaftway be enclosed? Yes Self-closing hatch gates? No, height? \_\_\_\_\_  
 No. outside entrances to shaftway? 2 Self-closing slatted gates? No, height? \_\_\_\_\_

### Miscellaneous

Plans filed as part of this application? \_\_\_\_\_ No. of sheets \_\_\_\_\_  
 Estimated cost of work by elevator contractor? \$ 3600 Fee \$ \_\_\_\_\_ 4654-D  
 Signature of elevator contractor The Portland Co. A. W. White

### STATEMENT OF ELEVATOR TESTS

PORTLAND, MAINE, \_\_\_\_\_

I, \_\_\_\_\_, as an employee of \_\_\_\_\_, have personally supervised the installation of 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 subscribed are true.

INSPECTION COPY

Notary Public Justice of the Peace

Ward \_\_\_\_\_ Permit No. \_\_\_\_\_  
Location \_\_\_\_\_  
Owner \_\_\_\_\_  
Date of permit \_\_\_\_\_  
Elev. Cont. \_\_\_\_\_  
Statement of tests rec'd 6/22/44  
Final Nctif. \_\_\_\_\_  
Final Inspn. \_\_\_\_\_  
Certificate issued \_\_\_\_\_

NOTES

First Natl. Starbuck - Merrill St.  
Freight elevator installation. (Part 1)

6-13-44  
106

This freight elevator runs from basement to first floor only. Sect. 702.6.27 calls for 6' enclosure on sides not used for entrance and has been done. Last part of this par. calls for metal cover. Assume this is to provide overhead protection and may not be necessary for this short travel, at least it has not been provided.

Sect. 703d Hatch gates are not self-closing but elevator will not operate if either gate is open. The gate at the basement level seems questionable to me although it may satisfy this part of the code. The underside of this gate is 18" above the floor when in its lowest position. This is a concrete floor and slippery when wet. A person could readily slip so their leg might go under the descending elevator. This may be a bit far fetched but it would be far better for gate to extend to the floor as it does at the first block level. The reason for that is to give a sufficient headroom when gate is up. This is also no use any of course. Other than this, the installation seems O.K.  
The doors does not have anything hanging on their j.t.

STATEMENT OF ELEVATOR TESTS

PORTLAND, MAINE, 6/22/44

I, Alfred W. Grote  
as an employee of The Portland Co., have personally supervised the  
installation of alterations to the elevator, hatchways and enclosures at 71st Street Block as permitted  
under Building Permit \_\_\_\_\_, and have personally supervised tests of loading capacity and of all brakes, inter-  
locking 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.

Alfred W. Grote  
(Signature)

PORTLAND, MAINE, \_\_\_\_\_

STATE OF MAINE

CUMBERLAND, SS:

Personally appeared the above named Alfred W. Grote and made oath the statements by him  
subscribed are true.

APPLICANT'S COPY

Wm. H. Nicoll  
Notary Public Justice of the Peace