CITY OF PORTLAND

DEPARTMENT OF PLANNING & URBAN DEVELOPMENT
INSPECTION SERVICES DIVISION

May 30, 1986

RE: 31 Diamond Street, Portland, ME

Portland Pump Company
Box 1180 Mussey Road Ext.
Scarboro, Maine 04074

Dear Sir:

Your application to remove 1-3000 gal. gasoline tank has been reviewed and a permit is herewith issued subject to the following requirements:

1. Your application states you have met D.E.P. requirements; and,
2. All work shall be done in compliance with N.F.P.A. Standards #30 and #327; also A.I.A. Fire Prevention Code 1970 Ed. Appendix B. (Please find copies attached).

If you have any questions, please call this office.

Sincerely,

P. Samuel Hoffses
Chief of Inspection Services

PSH/el

Enclosure

cc: LT. James Collins, Fire Prevention Bureau

BUILDING PERMIT REPORT

DATE: May 29, 1986

ADDRESS: 31 Diamond St.

REASON FOR PERMIT: Remove 1 - 3,000 gal Gasoline tank - Underground

BUILDING OWNER: Skotchley

CONTRACTOR: Portland Pump Co.

PERMIT APPLICANT: Roger Hubert

APPROVED: ✓ DENIED:

CONDITION OF APPROVAL or DENIAL:

1. All work to be in compliance with N.F.P.A. Standards #30 and #327 and A.I.A. Fire Prevention Code 1970 Ed. Appendix B

Copies of Above Standards enclosed

Lt. James P. Collins
by W.C.D.

APPROXIMATE WETTED AREAS FOR HORIZONTAL TANKS

(Wetted Area Equals 75 Percent Total Area)

Tank Diameter, Feet	5	4	5	6	7	8	9	10	11	12
Tank Length, Feet	APPROXIMATE WETTED AREA OF TANKS WITH FLAT HEADS									
3	32									
4	39	55								
5	46	65	88							
6	53	74	100	128						
7	60	84	112	142	175					
8	67	93	124	156	190	226				
9	74	102	136	170	206	245	286			
10	81	112	147	184	223	264	308	353		
11	88	121	159	198	239	283	329	377	428	
12	95	131	171	213	256	301	350	400	454	509
13	102	140	183	227	272	320	371	424	480	537
14	109	150	194	241	289	339	393	447	506	565
15	116	159	206	255	305	358	414	471	532	594
16	123	169	218	269	322	377	435	495	558	622
17	130	178	230	283	338	395	456	518	584	650
18	137	188	242	298	355	414	477	542	610	678
19		197	253	312	371	433	499	565	635	707
20		206	265	326	388	452	520	589	662	735
21		216	277	340	404	471	541	612	688	763
22		225	289	354	421	490	562	636	714	792
23		235	300	368	437	508	584	659	740	820
24		244	312	383	454	527	605	683	765	846
25			324	397	470	546	626	706	791	876
26			336	411	487	565	647	730	817	905
27			347	425	503	584	668	754	843	935
28			359	440	520	603	690	777	869	961
29			371	454	536	621	711	801	895	989
30			383	468	553	640	732	824	921	1018
31			395	482	569	659	753	848	947	1046
32				496	586	678	775	871	973	1074
33				510	602	697	796	895	999	1103
34				524	619	715	817	918	1025	1131
35				538	635	734	838	942	1051	1159
36				553	652	753	860	966	1077	1187
37				567	668	772	881	989	1103	1216
38								685	791	902	1013	1129	1244
39								701	810	923	1035	1155	1272
40								718	828	944	1060	1181	1301
41								734	847	966	1085	1207	1329
42								751	866	987	1107	1233	1357
43								767	885	1008	1130	1259	1385
44									904	1029	1154	1284	1414
45									923	1051	1178	1310	1442
46									941	1072	1201	1336	1470
47									960	1093	1225	1362	1498
48									979	1114	1248	1388	1527
49									998	1135	1272	1414	1555
50										1157	1295	1440	1583
51										1178	1319	1466	1612
52										1199	1342	1492	1640
53										1220	1366	1518	1669
54										1246	1389	1544	1698
55										1268	1413	1570	1726
56											1437	1595	1755
57											1460	1622	1781
58											1484	1648	1809
59											1507	1674	1839
60											1531	1700	1866
61												1726	1894
62												1752	1923
63												1778	1951
64												1803	1979
65												1829	2007
66												1855	2036
67													2064
68													2092
69													2120
70													2149
71													2177
72													2205

SI Units 1 ft = 0.30 m, 1 sq ft = 0.09 m²

Appendix B Abandonment or Removal of Underground Tanks

This Appendix is not a part of the requirements of this NFPA document . . . but is included for information purposes only

B-1 Introduction.

B-1-1 Care is required not only in the handling and use of flammable or combustible liquids but also in abandoning tanks which have held flammable or combustible liquids. This is particularly true of underground service station tanks which are most frequently used for the storage of motor fuel and occasionally for the storage of other flammable or combustible liquids, such as crankcase drainings (which may contain some gasoline). Through carelessness, explosions have occurred because flammable or combustible liquid tanks had not been properly conditioned before being abandoned.

B-1-2 In order to prevent accidents caused by improper conditioning, it is recommended that the procedures outlined below be followed when underground tanks are removed, abandoned or temporarily taken out of service.

B-1-3 Underground tanks taken out of service may be safeguarded or disposed of by any one of the three following means:

(a) Placed in a "temporarily out of service" condition. Tanks should be rendered "temporarily out of service" only when it is planned that they will be returned to active service within a reasonable period or pending removal or abandonment within 90 days.

(b) Abandoned in place, with proper safeguarding.

(c) Removed.

B-1-4 In cases where tanks are either rendered "temporarily out of service" or permanently abandoned, records should be kept of tank size, location, date of abandonment, and method used for placing the abandoned tank in a safe condition.

B-1-5 Procedures for carrying out each of the above methods of disposing of underground tanks are described in the following sections. No cutting torch or other flame or spark producing equipment shall be used until the tank has been completely purged or otherwise rendered safe. In each case, the numbered steps given shall be carried out successively.

B-2 Rendering Tanks "Temporarily Out of Service."

B-2-1 Cap or plug all lines such as fill line, gage opening, pump suction, and vapor return. Secure against tampering.

B-2-2 Disconnect piping at all tank openings.

B-3 Abandoning Underground Tanks in Place.

B-3-1 Remove all flammable or combustible liquid from the tank and from all connecting lines.

B-3-2 Disconnect the suction, inlet, gage, and vent lines.

B-3-3 Fill the tank completely with an inert solid material. Cap remaining undergound piping.

B-4 Removal of Underground Tanks.

B-4-1 Remove all flammable or combustible liquids from tank and from connecting lines.

B-4-2 Disconnect piping at all tank openings. Remove sections of connecting lines which are not to be used further and cap or plug all tank openings. After removal, the tank may be gas freed on the premises if it can be done safely at that location, or may be transported to an area not accessible to the public and the gas freeing completed at that location.

B-5 Disposal of Tanks.

B-5-1 If a tank is to be disposed of as junk, it should be retested for flammable vapors and, if necessary, rendered gas free. After junking and before releasing to junk dealer, a sufficient number of holes or openings should be made in it to render it unfit for further use. NFPA 327, *Standard Procedures for Cleaning or Safeguarding Small Tanks and Containers*, provides information on safe procedures for such operations.

Appendix C

This Appendix is not a part of the requirements of this NFPA document but is included for information purposes only

The following contains additional information and recommendations bearing the same number as the text of the *Flammable and Combustible Liquids Code* to which they apply:

C-4-4 The preferred method of storage of liquids in buildings is in cutoff rooms or in attached buildings rather than in inside rooms because of fire department accessibility and the advantages of providing explosion venting where needed.

C-4-6.2 (a) Sprinkler system densities and areas of application presented in this appendix are based upon limited test data and fire experience. Design criteria in this appendix do not apply to storage in plastic drums (*See Appendix D for additional information on this subject.*)

(b) For design criteria for specific installations, insurance engineers, fire protection consultants, and other knowledgeable persons should be consulted.

(c) Palletized and Solid Pile Storage. For protected storage of liquids, as specified in Table 4-6.1(a), automatic sprinkler protection should be provided in accordance with Table C-4-6.2(a).

(d) Rack Storage. In protected storage of liquids arranged, as specified in Table 4-6.1(b), automatic sprinkler protection should be provided in accordance with Tables C-4-6.2(b) and C-4 6.2(c), as applicable, except that racks with solid shelves should be provided with in-rack sprinklers at every tier or level.

C-4-6.2.1 (a) Automatic aqueous film forming foam (AFFF)-water sprinkler systems for container storage of liquids has been shown to be an acceptable method for providing fixed protection. (*See Appendix D for additional information on this subject.*)

(b) For design criteria for specific installations, insurance engineers, fire protection consultants and other knowledgeable persons should be consulted.

(c) Rack storage of liquids in containers [drums of 55 gal (208 L) capacity] stored on end on wood pallets on conventional double-row racks to a maximum height of storage of 25 ft (7.6 m) should be provided protection in accordance with Table C-4-6.2.1.

Standard Procedures for

Cleaning or Safeguarding Small Tanks and Containers

NFPA 327-1982

Chapter 1 General Provisions

1-1 Purpose. The procedures described herein are recommended for the safe removal of flammable vapors, liquids, gases, or solids from small tanks, drums or other containers, or safeguarding these vessels by other means. Such procedures are to permit hot work (welding or cutting) or other work which may create a potential fire or explosion hazard; and where necessary, for change of service or where desired for any other purpose.

1-2 Scope. These procedures are intended to apply only to the cleaning or safeguarding of small tanks or containers that cannot be entered, and that have contained flammable or combustible liquids, gases, or solids.

They are not intended to apply to the cleaning or safeguarding of tanks that may be entered, tank vehicles or tank cars; tanks, bunkers or compartments on ships or barges; gas plant equipment or gas distributing systems for natural or manufactured gas; nor to compressed and liquefied gas cylinders. Procedures for cleaning or safeguarding some of these vessels are covered separately in the following publications:

(a) *Cleaning Petroleum Storage Tanks*, RP 2015, published by the American Petroleum Institute, 2101 L St., N.W., Washington, DC 20037.

(b) *Cleaning Tank Vehicles Used for Transportation of Flammable Liquids*, RP 2013, published by the American Petroleum Institute, 2101 L St., N.W., Washington, DC 20037. This publication also includes procedures for cleaning tank vehicles and tank cars used for transporting liquefied petroleum gas.

(c) NFPA 306, *Control of Gas Hazards on Vessels to be Repaired*, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

(d) The standards of the American Gas Association, "Purging Principles and Practices, 1954," published by the American Gas Association, 1515 Wilson Blvd., Arlington, VA 22209.

1-3 Definitions. For the purpose of this standard, the following definitions shall apply:

Bonding. The electrical interconnection (metallic bond wire or metal to metal contact) between two conductors otherwise electrically insulated from or remotely electrically connected to each other.

Flammable gas. Any substance that exists in the gaseous stage at normal atmospheric temperature and pressure and which is capable of being ignited and rapidly oxidized when mixed with proper proportions of air, oxygen, or other oxidizers.

Hazardous work. Work involving a source of ignition which may include open flames, cutting and welding, electrical sparking equipment, grinding, buffing, drilling, chipping, sawing, or other similar operations which may create hot metal sparks or surfaces from friction or impact.

Inert gas. Any gas which is nonflammable, chemically inactive, and noncontaminating for the use intended.

Inerting. The use of an inert gas to reduce the oxygen content of the atmosphere in an enclosed space to a concentration at which combustion cannot take place.

Liquid. When not otherwise identified, means both flammable and combustible liquids.

(a) *Combustible Liquid.* Any liquid having a flash point at or above 100°F (37.8°C).

(b) *Flammable Liquid.* Any liquid having a flash point below 100°F (37.8°C) and a vapor pressure not exceeding 40 lb per sq in. absolute at 100°F (37.8°C).

Purging. The process of displacing the flammable vapors from an enclosure.

1-4 Purpose and Extent of Cleaning. Small tanks and containers may be cleaned in preparation for hazardous work, change in tank or container service, or for other purposes.

1-4.1 Cleaning in Preparation for Hazardous Work. Cleaning of a tank or container prior to hazardous work which may involve a potential source of ignition shall remove flammable vapors and liquid or solid residues which might release further flammable vapors

1-4.2 Cleaning for Change in Service. Cleaning of a tank or container shall remove residues which could contaminate or be incompatible with new material in the tank or container. Selection of a cleaning procedure shall take into consideration the chemical nature and characteristics of the known or suspected contaminating material.

1-4.3 Cleaning for Other Purposes. In some cases, when empty containers are to be transported or stored, it may be necessary to clean them. Selection of a cleaning procedure shall take into consideration the intended use of the container, chemical and physical properties of the new material to be stored, and the known or suspected contaminating material.

Chapter 2 General Precautions

2-1 Work on tanks or containers that have held liquids or gases shall be done under the supervision of persons who understand the fire and explosion potential and the

workers shall be sufficiently skilled to safely carry out the operations necessary. The characteristics of the previous contents of the tank or container shall be determined.

2-1.1 Before cleaning work is started on tanks or containers that may be under pressure, the pressure shall be reduced to atmospheric. The tank or container contents shall be vented to a safe location.

2-1.2 Information on cleaning tanks or containers that have held nitrocellulose, pyroxylin solutions, nitrates, chlorates, perchlorates, peroxides, and other materials which may contain enough oxygen to support combustion in an otherwise inerted atmosphere shall be obtained before cleaning operations are started.

2-1.3 Tanks or containers which have contained reactive or unstable materials shall not be cleaned until information is obtained on safe cleaning procedures. Special precautions are required on the selection of nonreactive cleaning materials.

2-1.4 The cleaning procedure selected from Chapter 3 shall establish and maintain a safe atmosphere within the tank or container. The atmosphere shall be compatible with the intended purpose of the tank or container cleaning operation.

2-1.5 After cleaning, the tank or container shall be inspected internally to determine the effectiveness of such cleaning. Special precautions are required. Such inspection may be made with the aid of a flashlight or with an internal inspection lamp approved for Class I, Division 1 hazardous locations, or a mirror may be used to reflect light into the container. (*See 3-4.2.6*)

2-2 Any equipment which may provide a source of ignition shall not be permitted within the vicinity of a tank or container being cleaned until the area has been tested and found to be vapor free.

2-3 To ensure a safe condition within the tank or container, tests shall be made for flammable vapors, generally with the appropriate combustible gas indicator: (1) before commencing alterations or repairs; (2) immediately before and after starting any welding, cutting or heating operations; and (3) frequently during the course of the work. All work shall be stopped immediately when the presence of flammable vapors is indicated by tests with a combustible gas indicator. The source of the vapor release shall then be located and removed.

2-3.1 Tanks or containers which have held high flash point liquids may become hazardous during cutting or welding operations or when heated.

Chapter 3 Cleaning Procedures

3-1 General. Cleaning operations shall be conducted in the open if practicable. Where indoor cleaning is necessary, ventilation shall be sufficient to prevent the accumulation of flammable vapors.

3-1.1 Disconnect or remove sources of ignition from the vicinity of the tank or container before venting or cleaning operations are started. All electrical equipment in the vicinity shall be in accordance with NFPA 70, *National Electrical Code®*.

3-1.2 Take appropriate steps to protect personnel from harmful exposure to toxic or corrosive vapors or gases.

3-1.3 Empty and drain the tank or container of all contents. This should include removal of liquids or gases from any internal piping, traps, and standpipes. Flushing with a proper cleaning liquid may be necessary.

3-1.4 Disconnect, plug, or blank off all piping and other connections to the tank or container being cleaned. Reliance shall not be placed on valves to prevent a flow of material unless a double block valve and bleeder arrangement is available.

3-1.5 Safely dispose of all liquid or solid residue material.

3-2 Removal of Flammable Vapors.

3-2.1 Displacement with Water. Where the liquid or gas previously contained is known to be readily displaced by or easily soluble in water, it can be removed by completely filling the container with water and draining, repeating the operation several times. An example of a readily displaced gas is liquefied petroleum gas; examples of water soluble liquids are wood alcohol and ethyl alcohol. Under some circumstances hot work may be performed on tanks or containers completely filled with water. When this method is used, extreme care should be taken to eliminate any vapor spaces by providing proper venting or by positioning of container during the filling operation.

3-2.2 Displacement with Air. Gas freeing may be accomplished by purging with air, and a safe atmosphere may be sustained by continuing the ventilation. When openings of sufficient size are available, air movers that do not provide an ignition source may be attached so that air is drawn through one opening and discharged through another opening. When openings cannot accommodate an air mover the container may be purged by introducing air so that it will circulate through the tank or container and be discharged to the outside. In air purging, the concentration of vapor in air in the tank or container may go through the flammable range before a safe atmosphere is obtained; therefore, every precaution shall be taken to ensure that all ignition sources have been removed from the vicinity. An effective bond shall be maintained between the air mover and the tank or container being cleaned.

3-2.3 Displacement with Inert Gas. To minimize the hazards of passing through the flammable range, the tank or container can be first purged with an inert gas, and then ventilated with air.

3-2.4 Flammable vapors may be displaced by an ade-

quate supply of steam in accordance with 3-4.1.

3-3 Inerting of Vapor Space. If properly used, inerting is a means of safeguarding a container by reducing the oxygen content to the point where combustion cannot take place. However, individuals in direct charge of the work must be thoroughly familiar with the limitations and characteristics of the inert gas being used. The oxygen content shall be maintained at substantially zero during the entire period when work is in progress. Attempting such work without proper knowledge or equipment can be hazardous since it may create a false sense of security. Permissible inert gases commonly used are carbon dioxide and nitrogen. Both may be obtained in cylinders and in truck tanks, and carbon dioxide may be obtained in solid forms. Briefly, the procedure for inerting is as follows:

3-3.1 Close all openings in the tanks or containers with the exception of the filling connection and vent.

3-3.2 Cracks or other damaged sections should be plugged.

3-3.3 Introduce the inert gas into the tank or container through a pipe or hose extending to a point near the bottom of the tank or container so that the inert gas produces a substantially oxygen-free atmosphere in the container. Any metal components of the filling pipe or hose shall be bonded to the tank or container.

3-3.4 When using carbon dioxide, low pressure shall be used to avoid generation of static electricity. Portable carbon dioxide extinguishers shall not be used for this purpose.

3-3.5 If solid carbon dioxide is to be used, it should be crushed and distributed evenly over the greatest possible area to secure rapid evaporation. Avoid skin contact with solid carbon dioxide since it may produce burns

3-3.6 In the case of a tank or container inerted with nitrogen, the oxygen content may be measured directly by an oxygen indicator. When carbon dioxide is used, the oxygen percentage can be calculated from the percentage of carbon dioxide in the container measured by means of a carbon dioxide indicator.

3-3.7 A sign shall be posted conspicuously warning of the hazard of inhalation of inert gas, if partial entry is possible.

3-4 Removal of Residual Liquids or Solids. In certain cases it may be impossible to remove all potentially hazardous liquid or solid residues that will produce flammable vapors when heated. Such residues may be trapped behind heavy scale or rust and may not easily be detected. Whenever examination after cleaning indicates that this hazardous condition exists, hot work shall not proceed without additional precautions being taken. As a minimum, an inert atmosphere shall be maintained in the tank or container while hot work is in progress.

3-4.1 Steam Cleaning. Steam may be introduced into the tank or container through a pipe inserted through an opening and bonded to the container, or by connecting a steam hose directly to one of the vessel nozzles. The rate of supply of steam should be sufficient to exceed the rate of condensation so that the whole tank or container is heated close to the boiling point of water. The vessel must be steamed long enough to vaporize the residues from all portions of the walls (shell and heads). When testing the atmosphere in the vessel with a combustible gas indicator, the sample should be drawn through a drying tube filled with calcium chloride or other drying agent to ensure that water vapor does not enter the instrument. If a drying agent is not available, the container must be allowed to cool off until excess water vapor has condensed.

3-4.2 Chemical Cleaning. The tank or container may be cleaned with a chemical solution. The use of goggles, gloves, and other necessary protective clothing should be considered when cleaning with chemicals in order to guard against possible injury to the skin or eyes. When using a proprietary cleaning solution, the manufacturer's instructions shall be followed. A typical cleaning procedure using trisodium phosphate is as follows:

3-4.2.1 Insert the hose through the filling connection or vent and fill the container with water until it overflows. Extend the hose to the bottom of the tank or container to get agitation from the bottom upward causing any remaining vapor, liquid, scum, or sludge to be carried upward and out of the tank or container where it may be removed to a safe location.

3-4.2.2 Drain the tank or container.

3-4.2.3 Dissolve sufficient trisodium phosphate in hot water so that the final concentration of the solution will be 2 to 4 oz per gal (60 to 120 ml/L) when the tank or container is liquid full. Pour the solution into the tank or container and fill with water.

3-4.2.4 Introduce steam to the bottom of the tank or container either through a bottom connection or through a pipe to the bottom which enters the vessel through the filling connection or through the vent. Maintain the solution at a temperature of 170° to 190°F (76.7° to 87.8°C), and at intervals during the steaming add enough water to allow discharge by overflowing of any volatile liquid, scum, or sludge that may have collected at the top. Ventilation of the area shall be provided for the removal of any flammable vapors and means provided for preventing potentially hazardous material from entering a public sewer system. It may be advisable in some cases to discharge the overflow water into another tank or container. Continue steaming at maximum temperature for at least 15 to 20 minutes and longer if necessary until the point is reached when no appreciable amount of volatile liquid, scum, or sludge appears at the top of the tank or container.

3-4.2.5 Drain the container.

3-4.2.6 Inspect the inside of the tank or container to see if it is clean. (*See 2-1.5.*) Care should be taken to avoid inhalation of harmful vapors or gases which may still be present. If examination shows that the tank or container is not clean, the cleaning procedure shall be repeated.

3-4.2.7 If the tank or container appears to be clean, the atmosphere within the tank or container should be tested with a combustible gas indicator. If the instrument indicates the presence of flammable vapor, this vapor shall be removed by one of the methods described in Section 3-2.

3-4.2.8 If steam is not available, a less effective method is the use of a cold water solution with the concentration of cleaning compounds such as trisodium phosphate increased to about 6 oz per gal (180 ml/L) of water. The solution should then be agitated. After the tank or container has been drained, it shall be inspected and tested for the presence of flammable vapors as above.

3-4.3 Nonflammable Solids. Occasionally, hard solid deposits will be found in tanks or containers which cannot be removed by the above method and which do not produce flammable vapors. In such cases, and in the absence of flammable vapors, cleaning may be supplemented by tumbling the container with a length of chain inside to assist in the removal of such solids.

Chapter 4 Testing Procedures

4-1 Testing for Flammability. The test for flammability is the most important phase of the cleaning procedure and determines whether or not the cleaning has been effective. These tests may be made with a combustible gas indicator. Readings from most combustible gas indicators give the percentage of the lower flammable limit of the vapors present in an atmosphere. The readings may be misleading where the atmosphere contains less than about 5 percent by volume of oxygen as in an inerted container although in general the readings in oxygen-lean atmospheres will be on the high or safe side. It is essential that the operator using the indicator be well-schooled in the use of the instrument and that he perform the checks recommended by the manufacturer to ensure that the instrument is in good operating condition. The vapor content of the gas leaving the tank or container should be tested periodically while ventilation or air purging is in progress. If an air mover is used to exhaust air from a tank or container the discharge from the air mover will be diluted with air used in the jet, but the results of the test at this point will still be indicative of the change of vapor concentration within the vessel and when the desired low concentration is reached, the condition of the tank or container itself may be checked by taking samples at appropriate points. When testing a tank or container for hot work, any indication of the presence of flammables by the combustible gas indicator shall require recleaning or further safeguarding of the vessel by one of the methods previously discussed prior to performing hot work.

4-2 Testing for Oxygen Content. When purging a tank or container with an inert gas, a combustible gas indicator may not indicate correctly the actual flammability of the sample. The concentration of oxygen should be determined by an appropriate oxygen indicator.

APPENDIX B

ABANDONMENT OR REMOVAL OF UNDERGROUND TANKS

1. Methods.

a. Underground tanks taken out of service shall be safeguarded or disposed of by any one of the three following means:

(1) Placed in a "temporarily out of service" condition. Tanks shall be rendered "temporarily out of service" only when it is planned that they will be returned to active service within a reasonable period or pending removal or abandonment within 90 days.

(2) Abandoned in place, with proper safeguarding.

(3) Removed.

2. Records.

a. In cases where tanks are either rendered "temporarily out of service" or permanently abandoned, records shall be kept of tank size, location, date of abandonment, and method used for placing the abandoned tank in a safe condition. With any of the methods described in section 1, no cutting torch or other flame or spark producing equipment shall be used until the tank has been completely purged or otherwise rendered safe. In each case, the steps given shall be carried out successively.

3. Tanks Rendered Temporarily Out of Service.

a. With tanks rendered "temporarily out of service",

(1) The fill line, gage opening, and pump suction shall be capped and secured against tampering.

(2) The vent line shall be left open.

4. Tanks Abandoned in Place.

a. With underground tanks abandoned in place,

(1) All flammable or combustible liquid shall be removed from the tank and from all connecting lines.

(2) The suction, inlet, gage, and vent lines shall be disconnected.

(3) The tank shall be filled completely with an inert solid material.

(4) The remaining underground piping shall be capped.

5. Tanks Removed.

a. When underground tanks are removed,

(1) All flammable or combustible liquids in the tank and connecting lines shall be removed.

(2) The suction, inlet, gage and vent lines shall be disconnected. Sections of connecting lines which are not to be used shall be removed. Inlets, outlets, and leaks, if any, shall be capped or plugged

(3) After removal, the tank shall be gas freed, on the premises if it can be done safely at that location, or transported to an area not accessible to the public and the tank gas freed at that location.

6. Tanks That Are Junked.

a. If a tank is to be disposed of as junk, it shall be retested for flammable vapors, and, if necessary, rendered gas free. After junking and before releasing to junk dealer, a sufficient number of holes or openings shall be made in it to render it unfit for further use.

7. Tanks That Are Reused.

a. Used tanks which are to be reused for flammable or combustible liquid service shall meet all the provisions of article 16 for the installation of underground tanks.

APPLICATION FOR PERMIT

PERMIT ISSUED
JUN 2 1986
City Of Portland

B.O.C.A. USE GROUP .....

B.O.C.A. TYPE OF CONSTRUCTION ..... 684 .....

ZONING LOCATION ..... PORTLAND, MAINE ...May 28, 1986

To the CHIEF OF BUILDING & INSPECTION SERVICES, PORTLAND, MAINE

The undersigned hereby applies for a permit to erect, alter, repair, demolish, move or install the following building, structure, equipment or change use in accordance with the Laws of the State of Maine, the Portland B.O.C.A. Building Code and Zoning Ordinance of the City of Portland with plans and specifications, if any, submitted herewith and the following specifications:

LOCATION .....31 Diamond St..... Fire District #1 ☐, #2 ☐

1. Owner's name and address ..... Telephone .....
2. Lessee's name and address ..... Telephone .....
3. Contractor's name and address Portland Pump Co. - Box 1180 Mussey Rd. Ext Telephone 883-4217
Scarboro No. of sheets .....

Proposed use of building ..... No. families .....

Last use .....underground tanks..... No. families .....

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

Other buildings on same lot .....

Estimated contractural cost $.....

FIELD INSPECTOR—Mr. .....
@ 775-5451

Appeal Fees	$ .....
Base Fee	...10.00.....
Late Fee	.....
TOTAL	$ .....

PERMIT ISSUED
With Letter of Special Conditions

To remove 1 3,000 gal. gasoline tank DEP requirements meet.

send permit to # 3 04074

NOTE TO APPLICANT: *Separate permits are required by the installers and subcontractors of heating, plumbing, electrical and mechanicals.*

DETAILS OF NEW WORK

Is any plumbing involved in this work? ..... Is any electrical work involved in this work? .....

Is connection to be made to public sewer? ..... If not, what is proposed for sewage? .....

Has septic tank notice been sent? ..... Form notice sent? .....

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 ....

Kind of roof ..... Rise per foot ..... Roof covering .....

No. of chimneys ..... Material of chimneys ..... Heating ..... Kind of heat ..... fuel .....

Framing Lumber—Kind ..... Dressed or full size? ..... Corner posts ..... Sills .....

Size Girder ..... 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? .....

APPROVALS BY: *DATE*

BUILDING INSPECTION—PLAN EXAMINER .....

ZONING: .....

BUILDING CODE: .....

Fire Dept.: Lt. Lt. James P. Collins 6/2/86

Health Dept.: .....

Others. .....

MISCELLANEOUS

Will work require disturbing of any tree on a public street? .....

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

Signature of Applicant Roger Hubert ..... Phone # ...same.....

Type Name of above ...Roger Hubert for Portland Portland Pump Co. ..... 1☐ 2☐ 3☒ 4☐

Other .....

and Address .....

PERMIT ISSUED
WITH LETTER

FIELD INSPECTOR'S COPY — APPLICANT'S COPY — OFFICE FILE COPY

NOTES

6-5-86 - Complete when permit received. [illegible]

6-6-86 - OK. [illegible]

Permit No	86/684
Location	31 Osmond St.
Owner	Sketchley
Date of permit	5/28/86
Approved	6/6/86
Dwelling	Remove 300 gal.
Garage	✓ Gas tank DEP reg.
Alteration	

CITY OF PORTLAND, MAINE
389 CONGRESS STREET
PORTLAND, MAINE 04101
(207) 874-8300

P. SAMUEL HOFFSES, CHIEF
INSPECTION SERVICES DIVISION

DEPARTMENT OF PLANNING & URBAN DEVELOPMENT

September 15, 1989

RE: 31 Diamond Street
Permit #89-1888

Associates Textile Rental Services, Inc.
31 Diamond Street
Portland, Maine 0410
c/o William Hill, Jr.

Dear Sir:

As per our telephone conversation of September 15, 1989 and your request for a time extention for Permit #89-1888 for work contemplated at the above address:

Whereas, due to certain delays on your plans, a 90 day extention is granted. Expiration date for the extention is December 15, 1989. Please keep us advised of any changes that might occur which would reflect on the permit outlined in this letter.

Sincerely,

Arthur Addato
Code Enforcement Officer

P. Samuel Hoffses
Chief of Building Inspections

/el

APPLICATION FOR AMENDMENT TO PERMIT

PERMIT ISSUED
MAR 26 1990
City Of Portland

Amendment No. 1

Portland, Maine, Feb. 28, 1990

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

The undersigned hereby applies for amendment to Permit No. 89/1888 *pertaining to the building or structure comprised in the original application in accordance with the Laws of the State of Maine, the Building Code and Zoning Ordinance of the City of Portland, plans and specifications, if any, submitted herewith, and the following specifications:*

Location Associated Textile Rental Service, Inc. Within Fire Limits? ______ Dist. No. ______

Owner's name and address 31 Diamond Street Portland 04101 - 773-1701 Telephone ______

Lessee's name and address ______ Telephone ______

Contractor's name and address The Thaxter Co., P.O. Box 7231, DTS, Portland, Maine 04112 Telephone 774-5553

Architect ______ Plans filed ______ No. of sheets ______

Proposed use of building Commercial No. families ______

Last use same No. families ______

Increased cost of work $30,000.00 Additional fee 175.00

Description of Proposed Work

Original permit amended to change plans, as per plans. Amended cost of work.

Details of New Work

Is any plumbing involved in this work? ______ Is any electrical work involved in this work? ______

Height average grade to top of plate ______ Height average grade to highest point of roof ______

Size, front ______ depth ______ No. stories ______ solid or filled land? ______ earth or rock? ______

Material of foundation ______ Thickness, top ______ bottom ______ cellar ______

Material of underpinning ______ Height ______ Thickness ______

Kind of roof ______ Rise per foot ______ Roof covering ______

No. of chimneys ______ Material of chimneys ______ of lining ______

Framing lumber — Kind ______ Dressed or full size? ______

Corner posts ______ Sills ______ Girt or ledger board? ______ Size ______

Girders ______ Size ______ Columns under girders ______ Size ______ Max. on centers ______

Studs (outside walls and carrying partitions) 2x4-16" O.C. Bridging in every floor and flat roof span over 8 feet.

Joints and rafters: 1st floor ______, 2nd ______, 3rd ______, roof ______

On centers: 1st floor ______, 2nd ______, 3rd ______, roof ______

Maximum span: 1st floor ______, 2nd ______, 3rd ______, roof ______

Approved:
OK WNH 3-26-90

Signature of Owner [signature] Agent

Approved [signature] Inspector of Buildings

INSPECTION COPY — WHITE
APPLICANT'S COPY — YELLOW
FILE COPY — PINK
ASSESSOR'S COPY — GOLDEN

PERMIT # 001888 CITY OF Portland BUILDING PERMIT APPLICATION MAP # _____ LOT # _____

Please fill out any part which applies to job. Proper plans must accompany form.

Owner: Associated Textile Rental Services, Inc.

Address: 31 Diamond St., Portland, 04101 - Willina Hill, Jr. - 773-1701

LOCATION OF CONSTRUCTION 31 Diamond Street

CONTRACTOR: owner SUBCONTRACTORS: _____

ADDRESS: _____

Est. Construction Cost: $30,000 Type of Use: 2 buildings/commercial

Past Use: _____

Building Dimensions: L ___ W ___ Sq. Ft. ___ # Stories: ___ Lot Size: ___

Is Proposed Use: ___ Seasonal ___ Condominium ___ Apartment

Conversion - Explain To construct passageway to connect the two buildings. Two sets of plans submitted.

COMPLETE ONLY IF THE NUMBER OF UNITS WILL CHANGE

Residential Buildings Only:

Of Dwelling Units ___ # Of New Dwelling Units ___

For Official Use Only

Date March 3, 1989
Inside Fire Limits
Bldg Code
Time Limit
Estimated Cost $30,000
Value/Structure
Fee $170.00

Subdivision: Yes / No
Name
Lot
Block
Permit Expiration:
Ownership: Public / Private

PERMIT ISSUED
APR 7 1989
City Of Portland

Foundation:
1. Type of Soil:
2. Set Backs - Front ___ Rear ___ Side(s) ___
3. Footings Size:
4. Foundation Size:
5. Other

Floor:
1. Sills Size: ___ Sills must be anchored.
2. Girder Size:
3. Lally Column Spacing: ___ Size:
4. Joists Size: ___ Spacing 16" O.C.
5. Bridging Type: ___ Size
6. Floor Sheathing Type: ___ Size
7. Other Material:

Exterior Walls:
1. Studding Size ___ Spacing
2. No windows
3. No Doors
4. Header Sizes ___ Span(s)
5. Bracing: Yes ___ No.
6. Corner Posts Size
7. Insulation Type ___ Size
8. Sheathing Type ___ Size
9. Siding Type ___ Weather Exposure
10. Masonry Materials
11. Metal Materials

Interior Walls:
1. Studding Size ___ Spacing
2. Header Sizes ___ Span(s)
3. Wall Covering Type
4. Fire Wall if required
5. Other Materials

Ceiling:
1. Ceiling Joists Size:
2. Ceiling Strapping Size ___ Spacing
3. Type Ceilings:
4. Insulation Type ___ Size
5. Ceiling Height:

Roof:
1. Truss or Rafter Size ___ Spacing
2. Sheathing Type ___ Size
3. Roof Covering Type
4. Other

Chimneys:
Type: ___ Number of Fire Places

Heating:
Type of Heat:

Electrical:
Service Entrance Size: ___ Smoke Detector Required Yes ___ No ___

Plumbing:
1. Approval of soil test if required Yes ___ No ___
2. No. of Tubs or Showers
3. No. of Flushes
4. No. of Lavatories
5. No of Other Fixtures 00 PAT

Swimming Pools:
1. Type:
2. Pool Size: ___ x ___ Square Footage
3. Must conform to National Electrical Code and State Law.

Zoning:
District ___ Street Frontage Req: ___ Provided ___
Required Setbacks: Front ___ Back ___ Side ___ Side ___

Review Required:
Zoning Board Approval: Yes ___ No ___ Date:
Planning Board Approval: Yes ___ No ___ Date:
Conditional Use: ___ Variance ___ Site Plan ___ Subdivision ___
Shore and Floodplain Mgmt. ___ Special Exception ___
Other ___ (Explain) ___
Date Approved

OK WD Rec 3-15-89

Permit Received By Nancy Grossman

Signature of Applicant [signature] Date 3/8/89

Signature of CEO For City Planner [signature] Date 4-6-89

Inspection Dates

28/E/E

White-Tax Assessor Yellow-GPCOG White Tag-CEO

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PLOT PLAN

N

FEES (Breakdown From Front)

Base Fee $ 25.00

Subdivision Fee $

Site Plan Review Fee $

Other Fees $ 145.00

(Explain)

Late Fee $

Inspection Record

Type	Date
	/ /
	/ /
	/ /
	/ /
	/ /
	/ /

COMMENTS 4-19-89 - Checked Site. OK

5-1-89 - NP

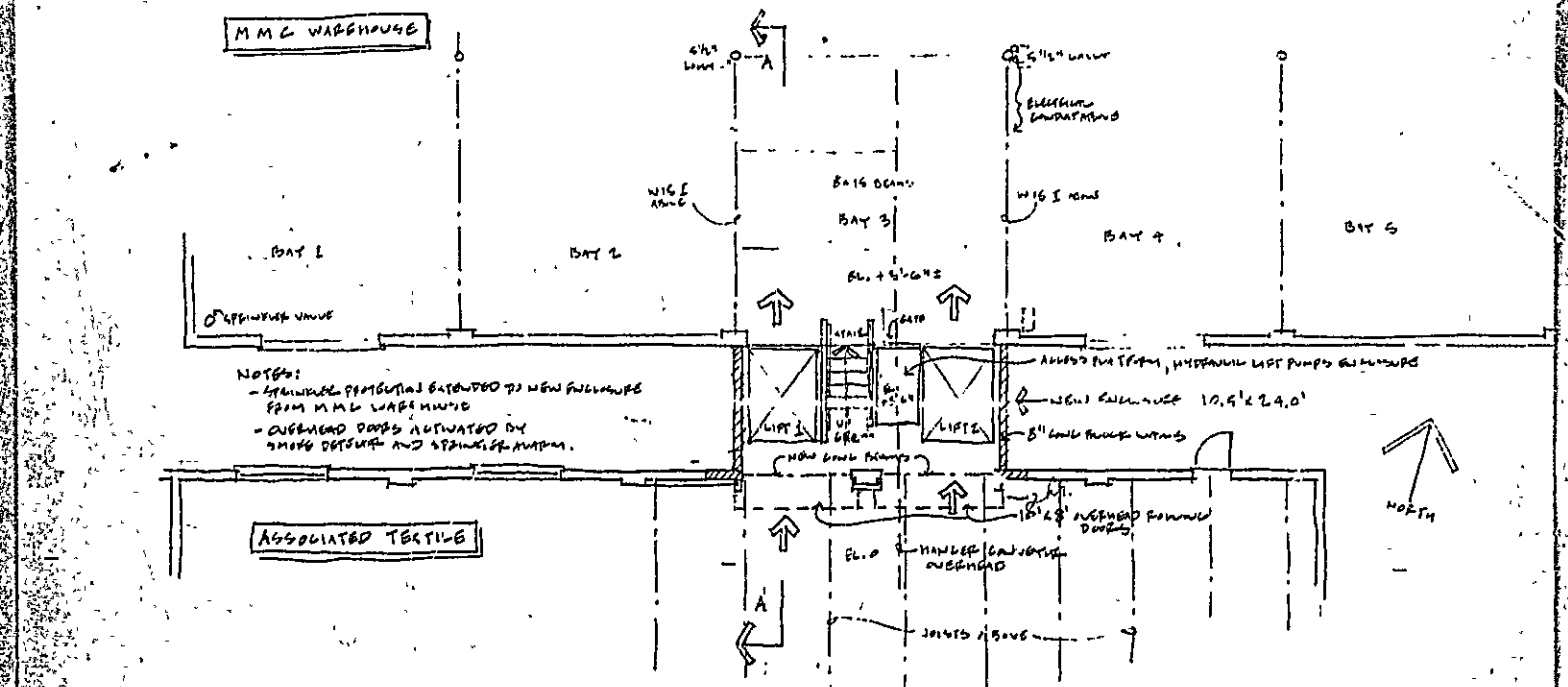
9-25-89 - Conflict on obtain permission from Abutter M.M.C. 90 day extention granted. [illegible]

4-6-90 - Amend ext. WIP/OK [illegible]

4-9-90 - WIP/OK on masonry. Footing and carrying beams in place OK [illegible]

5-15-90 - Completed OK. [illegible]

Signature of Applicant [signature] (As Agent of Owner) Date 3/3/89



PROPOSED EXPANSION - ASSOCIATED TEXTILE PLANT
TRANSFER ENCLOSURE - CONCEPT DESIGN 2-27-89

Buell Hemingway and Associates
ARCHITECTURE • PLANNING
94 Commercial Street
Portland, Maine 04101

RECEIVED
MAR 0 3 1989
DEPT OF BUILDING INSPECTIONS
CITY OF PORTLAND

CITY OF PORTLAND, MAINE
Department of Building Inspection

Certificate of Occupancy

LOCATION 41 Diamond St.

Issued to Associated Textile Rental Date of Issue 7/2/90

This is to certify that the building, premises, or part thereof, at the above location, built — altered — changed as to use under Building Permit No. 89/1888, I is had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES	APPROVED OCCUPANCY
Entire	Linen-supply Storage

Limiting Conditions:

This certificate supersedes certificate issued

Approved:

7-2-90 (Date) Inspector

Inspector of Buildings

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar

Associated Textile Rental

3.26.90

Arthur Addato

89/1888

NO.

CITY OF PORTLAND, MAINE

Department of Building Inspection

Amendment costs + construction

2-28 19 90

Received from The Thayer Co., Inc. a fee

of One Hundred Seventy Five /100 Dollars $ 175.00

install
erect
alter
for permit to amend to permit to amend plans + cost of work
move
demolish

commercial

at 31 Diamond Est Cost $ 34,000.00

[illegible] Inspector of Buildings

Ck. # 16153 Per JMR

THIS IS NOT A PERMIT

No work is to be stated until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less $5.00 or 10% whichever is greater.

A/O storage linen supply entire

C/O owner 04/01

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Audit Copy

PERMIT ISSUED
MAR 26 1990
City Of Portland

APPLICATION FOR AMENDMENT TO PERMIT

Amendment No. 1

Portland, Maine, Feb. 28, 1990

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

The undersigned hereby applies for amendment to Permit No. 89/1888 *pertaining to the building or structure comprised in the original application in accordance with the Laws of the State of Maine, the Building Code and Zoning Ordinance of the City of Portland, plans and specifications, if any, submitted herewith, and the following specifications:*

Location Associated Textile Rental Servic es, Inc. Within Fire Limits? ______ Dist. No. ______

Owner's name and address 231 Diamond St., Portland, 04101 - 773-1701 Telephone ______

Lessee's name and address ______ Telephone ______

Contractor's name and address XXXXX The Thaxter Co., P.O. Box 7231,DTS, Portland, Maine 04112 Telephone 774-5553

Architect ______ Plans filed ______ No. of sheets ______

Proposed use of building Commercial No. families ______

Last use same No. families ______

Increased cost of work $31,000.00 Additional fee 175.00

Description of Proposed Work

Original permit amended to change plans, as per plans. Amended cost of work.

Details of New Work

Is any plumbing involved in this work? ______ Is any electrical work involved in this work? ______

Height average grade to top of plate ______ Height average grade to highest point of roof ______

Size, front ______ depth ______ No. stories ______ solid or filled land? ______ earth or rock? ______

Material of foundation ______ Thickness, top ______ bottom ______ cellar ______

Material of underpinning ______ Height ______ Thickness ______

Kind of roof ______ Rise per foot ______ Roof covering ______

No. of chimneys ______ Material of chimneys ______ of lining ______

Framing lumber — Kind ______ Dressed or full size? ______

Corner posts ______ Sills ______ Girt or ledger board? ______ Size ______

Girders ______ Size ______ Columns under girders ______ Size ______ Max. on centers ______

Studs (outside walls and carrying partitions) 2x4-16" O.C. Bridging in every floor and flat roof span over 8 feet.

Joints and rafters:	1st floor ______	2nd ______	3rd ______	roof ______
On centers:	1st floor ______	2nd ______	3rd ______	roof ______
Maximum span:	1st floor ______	2nd ______	3rd ______	roof ______

Approved:
[signature] 3-13-90
OK W.N. 3-26-90

Signature of Owner [signature] Agent for Owner

Approved [signature] Inspector of Buildings

INSPECTION COPY — WHITE
APPLICANT'S COPY — YELLOW
FILE COPY — PINK
ASSESSOR'S COPY — GOLDEN

D

PERMIT # 001888 CITY OF Portland BUILDING PERMIT APPLICATION MAP # _____ LOT# _____

Please fill out any part which applies to job. Proper plans must accompany form.

Owner: Associated Textile Rental Services, Inc.

Address: 31 Diamond St., Portland, 04101 - William Hill, Jr.- 773-1701

LOCATION OF CONSTRUCTION 31 Diamond Street

CONTRACTOR: owner SUBCONTRACTORS: _____

ADDRESS: _____

Est. Construction Cost: $30,000 Type of Use: 2 buildings/commercial

Past Use: _____

Building Dimensions L ____ W ____ Sq. Ft. ____ # Stories: ____ Lot Size: ____

Is Proposed Use: ____ Seasonal ____ Condominium ____ Apartment

____ Conversion - Explain To construct passageway to connect the two buildings. Two sets of plans submitted.

COMPLETE ONLY IF THE NUMBER OF UNITS WILL CHANGE

Residential Buildings Only:

Of Dwelling Units ____ # Of New Dwelling Units ____

Foundation:

1. Type of Soil: _____
2. Set Backs - Front _____ Rear _____ Side(s) _____
3. Footings Size: _____
4. Foundation Size: _____
5. Other _____

Floor:

1. Sills Size: _____ Sills must be anchored.
2. Girder Size: _____
3. Lally Column Spacing. _____ Size: _____
4. Joists Size: _____ Spacing 16" O.C.
5. Bridging Type: _____ Size: _____
6. Floor Sheathing Type: _____ Size: _____
7. Other Material: _____

Exterior Walls:

1. Studding Size _____ Spacing _____
2. No. windows _____
3. No. Doors _____
4. Header Sizes _____ Span(s) _____
5. Bracing: Yes _____ No. _____
6. Corner Posts Size _____
7. Insulation Type _____ Size _____
8. Sheathing Type _____ Size _____
9. Siding Type _____ Weather Exposure _____
10. Masonry Materials _____
11. Metal Materials _____

Interior Walls:

1. Studding Size _____ Spacing _____
2. Header Sizes _____ Span(s) _____
3. Wall Covering Type _____
4. Fire Wall if required _____
5. Other Materials _____

For Official Use Only

Date March 3, 1989
Inside Fire Limits _____
Bldg Code _____
Time Limit _____
Estimated Cost $30,000
Value/Structure _____
Fee $170.00

Subdivision: Yes / No
Name _____
Lot _____
Block _____
Permit Expiration: _____
Owner Occ: _____ Public _____ Private

PERMIT ISSUED
APR 7 1989
City of Portland

Ceiling:

1. Ceiling Joists Size: _____
2. Ceiling Strapping Size _____ Spacing _____
3. Type Ceilings: _____
4. Insulation Type _____ Size _____
5. Ceiling Height: _____

Roof:

1. Truss or Rafter Size _____ Span _____
2. Sheathing Type _____ Size _____
3. Roof Covering Type _____
4. Other _____

Chimneys:

Type: _____ Number of Fire Places _____

Heating:

Type of Heat: _____

Electrical:

Service Entrance Size: _____ Smoke Detector Required Yes ____ No ____

Plumbing:

1. Approval of soil test if required Yes _____ No _____
2. No. of Tubs or Showers _____
3. No. of Flushes _____
4. No. of Lavatories _____
5. No. of Other Fixtures _____

Swimming Pools:

1. Type: _____
2. Pool Size: _____ x _____ Square Footage _____
3. Must conform to National Electrical Code and State Law.

Zoning:

District _____ Street Frontage Req.: _____ Provided _____
Required Setbacks: Front _____ Back _____ Side _____ Side _____

Review Required:

Zoning Board Approval: Yes _____ No _____ Date: _____
Planning Board Approval: Yes _____ No _____ Date: _____
Conditional Use: _____ Variance _____ Site Plan _____ Subdivision _____
Shore and Floodplain Mgmt _____ Special Exception _____
Other _____ (Explain) _____
Date Approved _____

Permit Received By Nancy Grossman

Signature of Applicant William Hill (AS AGENT OF OWNER) Date 3/3/89

Signature of CEO _____ Date _____

Inspection Dates (1) aa

White-Tax Assesor Yellow-GPCOG White Tag -CEO

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