

PERMIT ISSUED

Permit No: 01-087 JUL 27 2001	Issue Date: 27 JUL 2001
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City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

CBL: 033 K008001

Location of Construction: 341 Cumberland Ave	Owner Name: Wadsworth Corporation	Owner Address: Po Box 5490 CITY OF PORTLAND	Phone:
Business Name: n/a	Contractor Name: Reagon & Company	Contractor Address: 106 Merrill Road Gray	Phone: 2076576353
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Alterations - Commercial	Zone: B-3

Past Use: Commercial / Office & Apartments	Proposed Use: Commercial / Build Hall for fire exit	Permit Fee: \$294.00	Cost of Work: \$45,000.00	CEO District: 2
Proposed Project Description: Build Hall for fire exit		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied INSPECTION: Use Group: B/A-2 Type: <i>LOCAL PERMIT WITH REQUIREMENTS</i> Signature: <i>[Signature]</i> PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: gg	Date Applied For: 07/17/2001	Zoning Approval		
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> <i>shows within existing structure</i> Date: <i>7/26/01</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____	

PERMIT ISSUED WITH REQUIREMENTS

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

BUILDING PERMIT REPORT

DATE: 19 July 2001 ADDRESS: 341 Cumberland Ave. CBL: 033-K-008

REASON FOR PERMIT: To Construct a Fire exit

BUILDING OWNER: Wadsworth Corp.

PERMIT APPLICANT: CONTRACTOR Reagan & Company

USE GROUP: 0/R2 CONSTRUCTION TYPE: CONSTRUCTION COST: 45,000.00 PERMIT FEES: 294.00

The City's Adopted Building Code (The BOCA National Building Code/1999 with City Amendments)
The City's Adopted Mechanical Code (The BOCA National Mechanical Code/1993)

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions shall be met: *1, *11, *13, *22, *24, *28, *30, *33, *38

- 1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained.
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve.
4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' O.C. between bolts.
5. Waterproofing and dampproofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete and masonry.
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed.
8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating.
9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code.
10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
*11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level.
12. Headroom in habitable space is a minimum of 7'6".
*13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise.
14. The minimum headroom in all parts of a stairway shall not be less than 80 inches.
15. The Minimum required width of a corridor shall be determined by the most restrictive of the criteria under section 1011.3 but not less than 36".
16. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue.
17. Each apartment shall have access to two (2) separate, remote and approved means of egress.
18. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closure's.
19. The boiler shall be protected by enclosing with (1) hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment.

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20. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1999), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):

- In the immediate vicinity of bedrooms
- In all bedrooms
- In each story within a dwelling unit, including basements

21. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. (Section 921.0)

22. The Fire Alarm System shall be installed and maintained to NFPA #72 Standard.

23. The Sprinkler System shall be installed and maintained to NFPA #13 Standard.

* 24. All exit signs, lights and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023.0 & 1024.0 of the City's Building Code. (The BOCA National Building Code/1999)

25. Section 25 - 135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".

26. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.

27. Ventilation and access shall meet the requirements of Chapter 12 Sections 1210.0 and 1211.0 of the City's Building Code. (Crawl spaces & attics).

* 28. All electrical, plumbing and HVAC permits must be obtained by Master Licensed holders of their trade. No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.

29. All requirements must be met before a final Certificate of Occupancy is issued.

* 30. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (The BOCA National Building Code/1996).

31. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical code (The BOCA National Mechanical Code/1993). (Chapter M-16)

32. Please read and implement the attached Land Use Zoning report requirements.

* 33. Boring, cutting and notching shall be done in accordance with Sections 2305.3, 2305.3.1, 2305.4.4 and 2305.5.1 of the City's Building Code.

34. Bridging shall comply with Section 2305.16.

35. Glass and glazing shall meet the requirements of Chapter 24 of the building code. (Safety Glazing Section 2406.0)

36. All flashing shall comply with Section 1406.3.10.

37. All signage shall be done in accordance with Section 3102.0 signs of the City's Building Code, (The BOCA National Building Code/1999).

* 38. All penetrations of fire resistance rate wall assemblies shall comply with section 714.0. (see attached).

* 39. The hot water tank in an exit shall be enclosed -

Samuel Schuck, Building Inspector

Cc: L. McDougall, PFD

Marge Schmuckal, Zoning Administrator

Michael Nugent, Inspection Service Manager

PSH 10/1/00

**This permit is herewith issued, on the basis of plans submitted and conditions placed on these plans, any deviations shall require a separate approval.

***THIS PERMIT HAS BEEN ISSUED WITH THE UNDERSTANDING THAT ALL THE CONDITIONS OF THE APPROVAL SHALL BE COMPLETED. THEREFORE, BEFORE THE WORK IS COMPLETED A REVISED PLAN OR STATEMENT FROM THE PERMIT HOLDER SHALL BE SUBMITTED TO THIS OFFICE SHOWING OR EXPLAINING THAT THE CONDITIONS HAVE BEEN MET. IF THIS REQUIREMENT IS NOT RECEIVED YOUR CERTIFICATE OF OCCUPANCY SHALL BE WITHHELD. (You Shall Call for Inspections)

****ALL PLANS THAT REQUIRE A PROFESSIONAL DESIGNER'S SEAL, (AS PER SECTION 114.0 OF THE BUILDING CODE) SHALL ALSO BE PRESENTED TO THIS DIVISION ON AUTO CAD LT. 2000, DXF FORMAT OR EQUIVALENT.

*****CERTIFICATE OF OCCUPANCY FEE \$50.00

spaces and openings shall be *fireblocked* and *draftstopped* in accordance with Section 721.0.

713.3 Floor opening enclosure: All floor openings connecting two or more stories shall be protected by a *shaft* enclosure that complies with Section 710.0.

Exception: A *shaft* enclosure is not required for any of the following floor openings:

1. A floor opening serving and contained within a single *dwelling unit* and connecting four stories or less.
2. A floor opening which:
 - 2.1. Is not part of the required *means of egress*;
 - 2.2. Is not concealed within the building construction;
 - 2.3. Does not connect more than two stories;
 - 2.4. Is separated from other floor openings serving other floors by construction conforming to Section 710.3; and
 - 2.5. Is not open to a *corridor* in occupancies in Use Groups I and R, or is not open to a *corridor* on a floor not equipped throughout with an approved *automatic fire suppression system* in other use groups.
3. A floor opening between a *mezzanine* that complies with Section 505.0, and the floor below.
4. An atrium that complies with Section 404.0.
5. A floor opening in an open parking structure that complies with Section 406.0.
6. An approved concrete or masonry chimney where annular space protection is provided for in accordance with Section 721.6.4.
7. A floor opening containing an *escalator* and complying with Section 3011.2.
8. A floor opening that complies with Section 410.5 in an occupancy in Use Group I-3.
9. Noncombustible *shafts* connecting communicating floor levels in an occupancy in Use Group I-3 where the area complies with Section 410.5. Where additional stories are located above or below, the *shaft* shall be permitted to continue with fire and smoke damper protection provided at the fireresistance rated floor/ceiling assembly between the noncommunicating stories.
10. A single floor opening containing a *stairway* which is not a required *means of egress* in an occupancy in Use Group B and complying with the following parameters:
 - 10.1. The *stairway* does not connect more than six floor levels.
 - 10.2. The *stairway* does not connect with an *exit access corridor*.
 - 10.3. The *stairway* floor opening shall not exceed 160 square feet (15 m²).
 - 10.4. The *stairway* floor opening shall be protected in the same manner as an *escalator* floor opening complying with Section 3011.2.
 - 10.5. The building is equipped throughout with an approved *automatic sprinkler system* in accordance with Section 906.2.1.

713.4 Penetrations: All penetrations of a floor/ceiling assembly or the ceiling membrane of a roof/ceiling assembly shall be protected by a *shaft* enclosure that complies with Section 710.0. Where 1-hour fireresistance rated roof construction is required by Section 705.5, penetrations through the roof deck shall comply with Sections 714.2 through 714.2.7.5. Penetrations in other fireresistance rated roof decks are permitted to be unprotected, provided that the structural integrity of the roof construction is maintained.

Exceptions

1. Penetrations within and through a floor opening permitted to be unenclosed by Section 713.3.
2. Penetrations through assemblies required to be fire-resistance rated and complying with Sections 714.2 through 714.2.7.5.
3. Penetrations through assemblies without a required fireresistance rating and complying with Sections 714.3 through 714.3.2.

713.5 Joints: All materials utilized to protect *joints* in fire-resistance rated floor/ceiling and roof/ceiling assemblies shall comply with the requirements of Section 709.7. *Joints* made in or between fireresistance rated assemblies shall be protected by a *fireresistive joint system* designed and tested to resist the spread of fire for a time period not less than the required fireresistance rating of the adjacent assemblies.

Exception: *Fireresistive joint systems* are not required for *joints* in:

1. Floors within a single *dwelling unit*.
2. Floors where the *joint* is protected by a shaft enclosure that complies with Section 710.0.
3. Floors within an atrium that complies with Section 404.0 where the space adjacent to the atrium is included in the volume of the atrium for smoke control purposes.
4. Floors within a mall that complies with Section 402.0.
5. Floors within an open parking structure that complies with Section 406.0.
6. *Mezzanine* floors that comply with Section 505.0.
7. Roof decks, other than those required to have a 1-hour fireresistance rating in accordance with Section 705.5, provided that the structural integrity of the roof construction is maintained.

SECTION 714.0 PENETRATIONS

714.1 Fireresistance rated wall assemblies: Penetrations of wall assemblies required to be fireresistance rated in accordance with Sections 707.0, 709.0 or 711.0 shall comply with Sections 714.1.1 through 714.1.6.2. Penetrations of an *exit* enclosure shall also comply with Section 1014.11.2. The required fireresistance rating of the wall assembly shall be determined in accordance with Section 704.1.1.

714.1.1 Noncombustible penetrations: Cables and wires without combustible jackets and noncombustible pipes, tubes, conduits and vents which penetrate a fireresistance rated wall assembly shall be tested in accordance with ASTM E119 listed in Chapter 35 as part of a fireresistance rated assembly, or shall be protected by an approved through-penetration firestop system in accordance with Section 714.1.3, or the

annular space around the penetrating item shall be protected in accordance with Sections 714.1.4 and 714.1.4.1.

714.1.2 Combustible penetrations: Cables and wires with combustible jackets and combustible pipes, tubes, conduits and vents which penetrate an assembly shall be tested in accordance with ASTM E119 listed in Chapter 35 as part of a fire-resistance rated assembly, or shall be protected with a through-penetration firestop system in accordance with Section 714.1.3.

714.1.2.1 Sleeves: Where sleeves are installed, the sleeves shall be noncombustible and shall be securely fastened to the assembly penetrated. All space around the combustible items contained in the sleeve and the sleeve itself shall be filled with materials that comply with Section 714.1.2 or 714.1.3.

714.1.2.2 Insulation: Combustible insulation and coverings on the penetrating item shall not pass through the assembly unless these materials are protected in accordance with Section 714.1.2 or 714.1.3.

714.1.3 Through-penetration firestop system: The through-penetration firestop system shall be tested in accordance with ASTM E814 listed in Chapter 35 with a minimum positive pressure differential of 0.01 inch of water column (3 Pa). The penetration firestop system shall have an "F" rating of not less than the required rating of the assembly penetrated.

714.1.4 Annular space protection: Where permitted by Section 714.1.1 for noncombustible penetrating items, the annular space between the penetrating item and the fire-resistance rated assembly being penetrated shall be protected with a material capable of preventing the passage of flame and hot gases sufficient to ignite cotton waste when subjected to the time-temperature fire conditions of ASTM E119 listed in Chapter 35, under a minimum positive pressure differential of 0.01-inch water column (3 Pa) at the location of the penetration for the time period equivalent to the required fire-resistance rating of the assembly penetrated or shall be protected in accordance with Section 714.1.4.1.

714.1.4.1 Concrete or masonry wall assemblies: Penetration of concrete or masonry wall assemblies by a maximum 6-inch nominal diameter copper, iron or steel pipe, tube, conduit or wires and cables with steel jackets shall be permitted provided that the maximum opening size is 144 square inches (0.09 m²) and the penetration is protected with concrete, grout or mortar for the full thickness of the assembly or the thickness required to provide a fire-resistance rating equivalent to the required fire-resistance rating of the assembly penetrated.

714.1.4.2 Sleeves: Where sleeves are installed, the sleeves shall be noncombustible and shall be securely fastened to the assembly penetrated. All space between the item contained in the sleeve and the sleeve itself and any space between the sleeves and the assembly penetrated shall be filled with materials that comply with Section 714.1.4 or 714.1.4.1.

714.1.4.3 Insulation: Insulation and coverings on the penetrating item shall not pass through the assembly unless

these materials maintain the required fire-resistance rating of the assembly.

714.1.5 Ducts: Ducts that penetrate a wall assembly shall be provided with approved *fire dampers* that comply with Section 718.0.

Exceptions

1. *Fire dampers* are not required at penetrations of *fire separation assembly walls* or *fire partitions* where:

1.1. Steel exhaust air subducts extend at least 22 inches (559 mm) vertically in an exhaust shaft in which there is a continuous air flow upward to the outside.

1.2. Penetrations are tested in accordance with ASTM E119 listed in Chapter 35 as a part of the fire-resistance rated assembly.

1.3. Such walls are penetrated by ducted HVAC systems, have a required fire-resistance rating of 1 hour or less, are in areas of other than Use Group H and are in buildings equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1.

1.4. The penetrations are in garage exhaust or supply shafts which are separated from all other building shafts by not less than a 2-hour fire-resistance rated *fire separation assembly*.

2. In occupancies in other than Use Group H, *fire dampers* are not required at the penetration of *fire partitions* where:

2.1. The partitions are tenant separation and corridor walls in buildings equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1.

2.2. The partitions are *corridor* walls and the ducts are constructed of steel and do not have openings which communicate the *corridor* with adjacent spaces or rooms.

714.1.5.1 Smoke barriers: Ducts which penetrate smoke barriers shall comply with Section 712.5.

714.1.5.2 Access: Access shall be provided to all dampers for inspection and servicing. The access shall not reduce the rating of any fire-resistance rated assembly. Access shall comply with the requirements of the mechanical code listed in Chapter 35.

714.1.6 Single membrane penetrations: Openings to accommodate noncombustible conduits, pipes and tubes through a single membrane that is an integral component of a fire-resistance rated wall assembly shall be permitted, provided that the aggregate area of all such openings does not exceed 100 square inches (0.064 m²) in any 100 square feet (9 m²) of wall area and the openings are *fireblocked* with approved noncombustible materials.

714.1.6.1 Electrical outlet boxes: Openings for steel electrical outlet boxes that do not exceed 16 square inches (10323 mm²) in area are permitted. Outlet boxes on opposite sides of the assembly shall be separated by a horizontal distance of not less than 24 inches (610 mm). These

limitations shall not apply to openings for electrical boxes of any material, provided that such boxes are tested for installation in fireresistance rated assemblies and installed in accordance with the tested assembly.

714.1.6.2 Fire sprinkler penetrations: Where sprinklers penetrate a single membrane of a fireresistance rated assembly in buildings equipped throughout with an approved automatic fire sprinkler system, noncombustible escutcheon plates shall be allowed as a means of *fireblocking* such penetrations, provided that the annular space around each sprinkler penetration does not exceed $\frac{1}{2}$ inch (13 mm) measured between the edge of the membrane and the sprinkler.

714.2 Fireresistance rated floor/ceiling and roof/ceiling assemblies: Where permitted as an alternative to a shaft enclosure in accordance with Section 713.4, penetrations of fireresistance rated floor/ceiling and roof/ceiling assemblies shall comply with Sections 714.2.1 through 714.2.7.5. The required fireresistance rating of floor/ceiling and roof/ceiling assemblies shall be determined in accordance with ASTM E119 listed in Chapter 35.

714.2.1 Noncombustible penetrations: Cables and wires without combustible jackets and noncombustible pipes, tubes, conduits, chimneys and vents which penetrate a fireresistance rated floor/ceiling or roof/ceiling assembly shall be installed in accordance with the approved ASTM E119 rated assembly or shall be protected in accordance with Section 714.2.3.

Exceptions

1. Penetrations by noncombustible vents, chimneys, conduits, pipes and tubes through a fireresistance rated floor assembly which connect not more than two stories are permitted. The annular space between the penetrating item and the assembly shall be protected in accordance with Section 714.2.3 or 714.2.4.
2. Penetrations by noncombustible conduit, pipe and tubes through fireresistance rated floor assemblies which connect more than two stories are permitted, provided that the aggregate area of the penetrating items shall not exceed 1 square foot (0.09 m²) in any 100 square feet (9 m²) of floor area. The annular space between the penetrating item and the assembly shall be protected in accordance with Section 714.2.3 or 714.2.4.

714.2.2 Combustible penetrations: Cables and wires with combustible jackets and combustible pipes, tubes, conduits and vents which penetrate an assembly shall be tested in accordance with ASTM E119 listed in Chapter 35 as part of a fireresistance rated assembly, or shall be protected with a through-penetration firestop system in accordance with Section 714.2.3.

714.2.2.1 Sleeves: Where sleeves are installed, the sleeves shall be noncombustible and shall be securely fastened to the assembly penetrated. All space around combustible items contained in the sleeve and the sleeve itself shall be filled with materials that comply with Section 714.2.2 or 714.2.3.

714.2.2.2 Insulation: Combustible insulation and coverings on the penetrating item shall be protected in accordance with Section 714.2.2 or 714.2.3.

714.2.3 Through-penetration firestop system: Where cables, cable trays, conduits, tubes or pipes penetrate a floor assembly, such penetrations shall be protected by an approved through-penetration firestop system. Through-penetration firestop systems shall be tested in accordance with ASTM E814 listed in Chapter 35 with a minimum positive pressure differential of 0.01 inch of water column (3 Pa). Through-penetration firestop systems shall have an "F" rating and a "T" rating of not less than 1 hour but not less than the required rating of the assembly penetrated.

Exceptions

1. A "T" rating shall not be required for floor penetrations that are contained and located within the cavity of a wall.
2. A "T" rating shall not be required for floor penetration by pipe, tube and conduit that are not in direct contact with combustible material.

714.2.4 Annular space protection: Where permitted in accordance with the exceptions to Section 714.2.1 for noncombustible penetrating items, the annular space between the penetrating item and the fireresistance rated assembly being penetrated shall be protected with a material capable of preventing the passage of flame and hot gases sufficient to ignite cotton waste when subjected to the time-temperature fire conditions of ASTM E119 listed in Chapter 35, under a minimum positive pressure differential of 0.01-inch water column (3 Pa) at the location of the penetration for the time period equivalent to the required fireresistance rating of the assembly penetrated or shall be protected in accordance with Section 714.2.4.1.

714.2.4.1 Concrete floor assemblies: Penetrations of concrete floor assemblies by a maximum 6-inch nominal diameter copper, iron or steel pipe, tube, conduit or wires and cables with steel jackets shall be permitted provided that the maximum opening size is 144 square inches (0.09 m²) and the penetration is protected with concrete, grout or mortar for the full thickness of the assembly or the thickness required to provide a fireresistance rating equivalent to the required fireresistance rating of the assembly penetrated.

714.2.4.2 Sleeves: Where sleeves are installed, the sleeves shall be noncombustible and shall be securely fastened to the assembly penetrated. All space between the item contained in the sleeve and the sleeve itself and any space between the sleeve and the assembly penetrated shall be filled with materials that comply with Section 714.2.4 or 714.2.4.1.

714.2.4.3 Insulation: Insulation and coverings on the penetrating item shall not pass through the assembly unless these materials maintain the required fireresistance rating of the assembly.

714.2.5 Ducts: Penetrations by an air duct or plenum through a fireresistance rated floor assembly, which connect not more

than two stories, are permitted where a *fire damper* that complies with Section 718.0 is installed at the floor line. A *fire damper* is not required at penetrations of a roof/ceiling assembly where the ducts are open to the atmosphere.

714.2.6 Floor fire doors: Floor fire doors used to protect openings in fire-resistance rated floors shall be tested in the horizontal position in accordance with ASTM E119 listed in Chapter 35, and shall achieve a fire-resistance rating not less than the assembly being penetrated. Floor fire doors shall be labeled by an approved agency.

714.2.7 Ceilings: Penetrations through a ceiling that is an integral component of a fire-resistance rated floor/ceiling or roof/ceiling assembly shall be installed in accordance with the approved ASTM E119 rated assembly or shall comply with Sections 714.2.7.1 through 714.2.7.5.

714.2.7.1 Noncombustible penetrations: Openings to accommodate noncombustible conduits, pipes and tubes through a single membrane that is an integral component of a fire-resistance rated floor/ceiling or roof/ceiling assembly shall be permitted, provided that the aggregate area of all such openings does not exceed 100 square inches (0.064 m²) in any 100 square feet (9 m²) of ceiling area and the openings are *fireblocked* in accordance with Section 721.6.4, or are protected in accordance with Section 714.2.3 or 714.2.4.

714.2.7.2 Combustible penetrations: Combustible penetrations shall comply with Section 714.2.2 or 714.2.3.

714.2.7.3 Noncombustible air duct ceiling penetrations: Where noncombustible ducts penetrate a ceiling of a fire-resistance rated assembly, the aggregate area of all such penetrations shall not exceed 100 square inches (0.065 m²) in any 100 square feet (9 m²) of ceiling area and an approved ceiling damper shall be installed at the ceiling line. Ceiling dampers shall be constructed in accordance with the details listed in a fire-resistance rated design or shall be *labeled* to function as a heat barrier for air-handling outlet/inlet penetrations in the ceiling of a fire-resistance rated assembly. Ceiling dampers shall not be required where fire tests have shown that ceiling dampers are not necessary in order to maintain the fire-resistance rating of the assembly.

714.2.7.4 Electrical outlet boxes: Where noncombustible electrical outlet boxes penetrate a ceiling of a fire-resistance rated assembly, the aggregate area of all such penetrations shall not exceed 100 square inches (0.065 m²) in any 100 square feet (9 m²) of ceiling area and the openings at such penetrations shall be *fireblocked* in accordance with Section 721.6.4 or shall be protected in accordance with Sections 714.2.3 through 714.2.4.1.

Exception: Openings for electrical boxes and fittings that are listed for installation in fire-resistance rated assemblies shall be installed in accordance with such listing.

714.2.7.5 Fire sprinkler penetrations: Where sprinklers penetrate a single membrane of a fire-resistance rated assembly in buildings equipped throughout with an approved

automatic fire sprinkler system, noncombustible escutcheon plates shall be allowed as a means of *fireblocking* such penetrations provided that the annular space around each sprinkler penetration does not exceed 1/2 inch (12.7 mm) measured between the edge of the membrane and the sprinkler.

714.3 Nonfire-resistance rated floor/ceiling assemblies: Where permitted as an alternative to a shaft enclosure in accordance with Section 713.4, penetrations of floor assemblies without a required fire-resistance rating shall comply with Sections 714.3.1 through 714.3.2. All penetrations through the ceiling membrane of a roof assembly without a required fire-resistance rating shall be *fireblocked* in accordance with Section 721.6.4.

714.3.1 Noncombustible penetrations: Penetrations by noncombustible vents, chimneys, conduits, pipes, and tubes through unprotected floor assemblies which connect not more than three stories are permitted, provided that the annular space between the penetrating item and the floor is *fireblocked* in accordance with Section 721.6.4.

714.3.1.1 Ducts: Penetrations by noncombustible air ducts through unprotected floor assemblies which connect not more than three stories are permitted, provided that a *fire damper* complying with Section 718.0 is installed at each floor line.

714.3.2 Noncombustible or combustible penetrations: Penetrations by noncombustible or combustible vents, chimneys, cables, wires, air ducts, conduits, pipes and tubes through unprotected floor assemblies which connect not more than two stories are permitted, provided that the annular space is *fireblocked* in accordance with Section 721.6.4.

SECTION 715.0 ROOF CONSTRUCTION

715.1 General: Roofs shall be constructed of materials or assemblies of materials designed to afford the fire-resistance rating required by Table 602 as herein modified.

715.2 Stadiums: The roof construction, including beams, trusses, framing, arches and roof decks, enclosing stadiums of Type 1 or Type 2 construction, shall be of approved noncombustible materials without a specified fire-resistance rating or of Type 4 construction.

715.3 Roofs 20 feet or higher: Where every part of the structural framework of roofs in buildings of Type 1 or Type 2 construction is 20 feet (6096 mm) or more above the floor immediately below, omission of all fire *protection* of the structural members is permitted, including the *protection* of trusses, roof framing and decking.

715.4 Roof slabs, arches and decking: Where the omission of fire *protection* from roof trusses, roof framing and decking is permitted, roofs in buildings of Types 1 and 2 construction shall be constructed of noncombustible materials, or of fire-retardant-treated wood as permitted in Table 602, without a specified fire-resistance rating, or of Type 4 construction in buildings not over five stories or 65 feet (19812 mm) in *height*.

715.5 Fireblocking: *Fireblocking* of ceiling and attic spaces shall be provided as required by Section 721.0.

All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 341 Cumberland Ave.

Total Square Footage of Proposed Structure	Square Footage of Lot
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Tax Assessor's Chart, Block & Lot Chart# <u>033</u> Block# <u>K</u> Lot# <u>008</u>	Owner: E. Gordon Hunter Jr. <u>Wards Worth Corp.</u>	Telephone:
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Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: <u>Reagan & Company</u> <u>106 Merrill Rd Gray ME 04039</u>	Cost Of Work: \$ <u>45,000</u> Fee: \$ <u>294.00</u>
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Current use: Com / Retail / apartments + business

If the location is currently vacant, what was prior use: _____

Approximately how long has it been vacant: _____

Proposed use: Same Fire

Project description: Build Hall as Existing for building
Fire

Contractor's name, address & telephone: Reagan & Company
106 Merrill Rd Gray ME. 04039 657-6353

Who should we contact when the permit is ready: Reagan & Company

Mailing address: 106 Merrill Rd
Gray ME. 04039

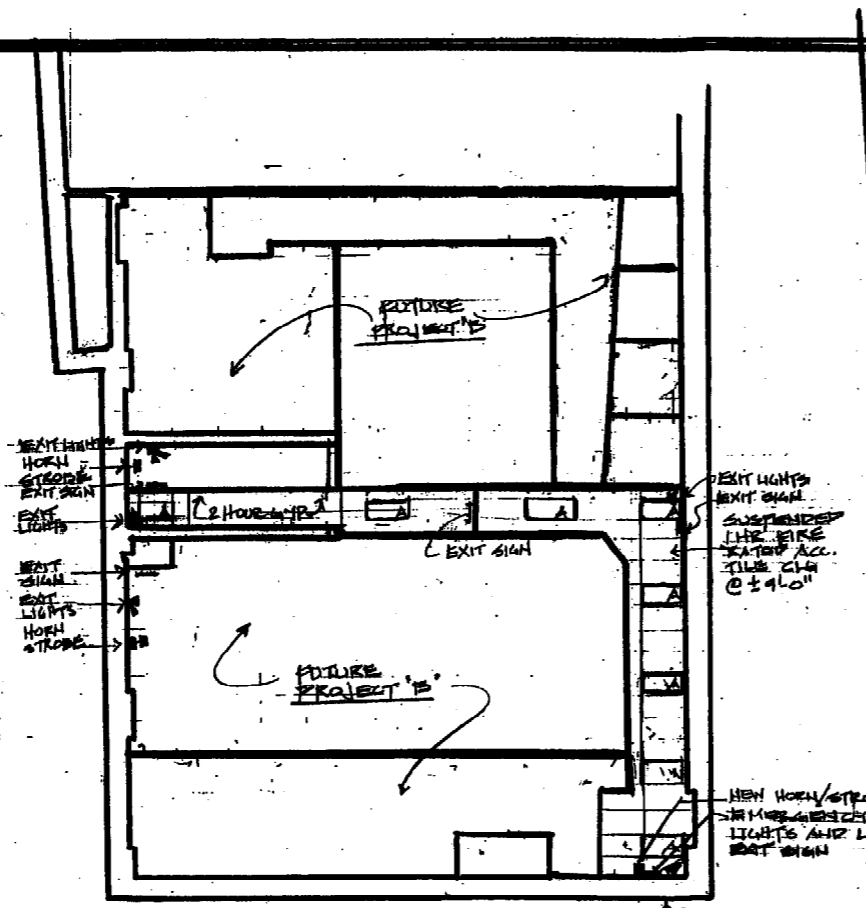
Phone: 657-6353

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

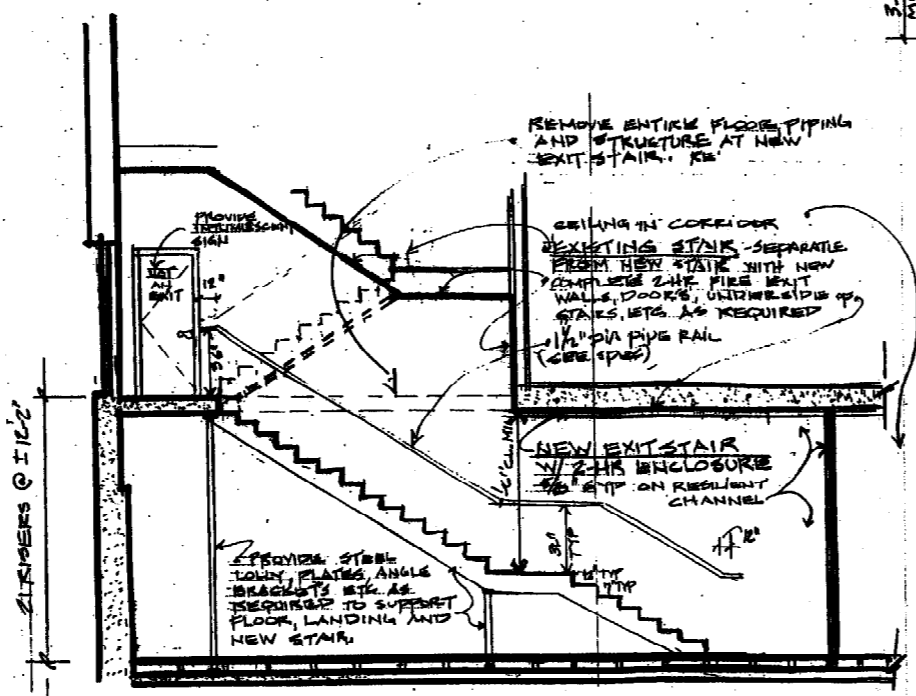
I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>Carl Reagan</u>	Date: <u>7/17/01</u>
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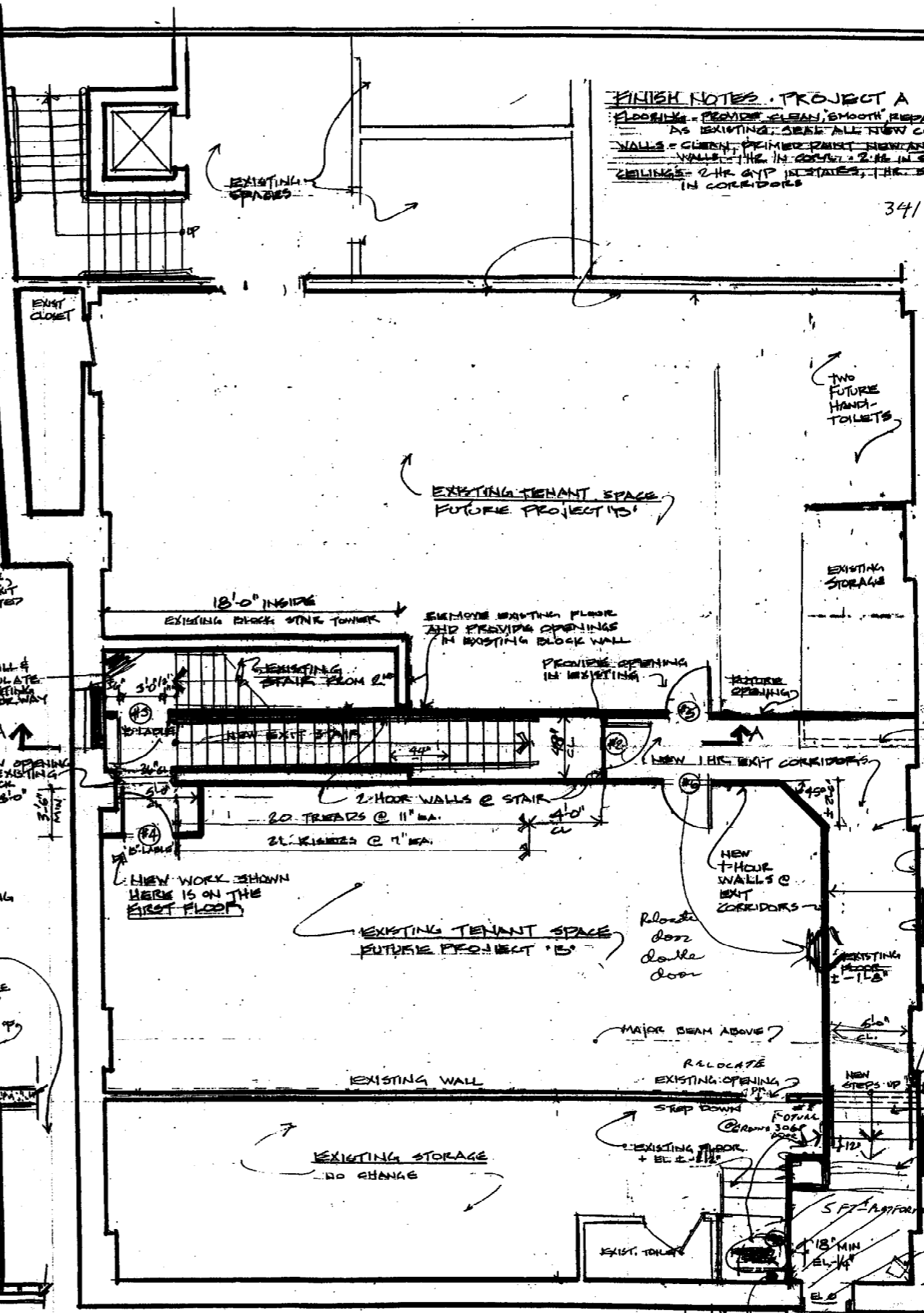
This is not a permit, you may not commence ANY work until the permit is issued CH
7/17



REFLECTED CLG. PLAN
SCALE 1/8" = 1'-0"



STAIR SECTION 'A'
SCALE 1/4" = 1'-0"



FLOOR PLAN - PARTIAL BSMT PLAN
SCALE 1/4" = 1'-0"

**THE EARL APARTMENTS
LOWER LEVEL RENOVATIONS**

FINISH NOTES - PROJECT A
 FLOORING - PROVIDE CLEAN, SMOOTH, REPAIRED FLOORS AS EXISTING. SEE ALL NEW CONCRETE WORK.
 WALLS - CLEAN, PRIME, PAINT NEW AND EXISTING WALLS. 2 HR IN STAIRWAY.
 CEILING - 2 HR GYP IN STAIRS, 1 HR GYP ACoustICAL IN CORRIDORS

341 Cumberland Ave.
F. Gordon Hamlin Jr.

Fishman Realty Group
 Prongin & Company
 106 Main St
 Gray, ME 04139
 657-6353
 New walls Rotted
 New mold/steps

REMOVE ALL EXISTING PARTITIONS EQUIPMENT, PIPING, UTILITIES, ETC. WIRING TO REMAIN UNTOUCHED EXCEPT AS REQUIRED FOR THE PROPER CONSTRUCTION OF THE NEW STAIRS.

REMOVE ALL EXISTING CONCRETE BLOCK TOTAL FLOOR W/ EXISTING CONCRETE FLOOR - INCL AS REQ'D CLEAN & REPAIR EXIST FLOOR FINISHES

CLEAN, SCRAPE, REPAIR AND PAINT EXISTING WALLS PAINT - PRIMER COAT

WELL & INSULATE EXISTING WINDOW OPENING

PROVIDE REMOVAL OF EXISTING NEW CORRIDOR

1 1/2" MAX DIA. PIPE RAIL EXTEND 12" MIN CONCRETE FILLER STEEL FISH STEPS 7/11

NEW FLOOR PLANING TO BE REMOVED EXISTING GRANITE SILL @ 11'-0"

PROVIDE 4" AIR ALTS @ PROJECT 'B' DOOR

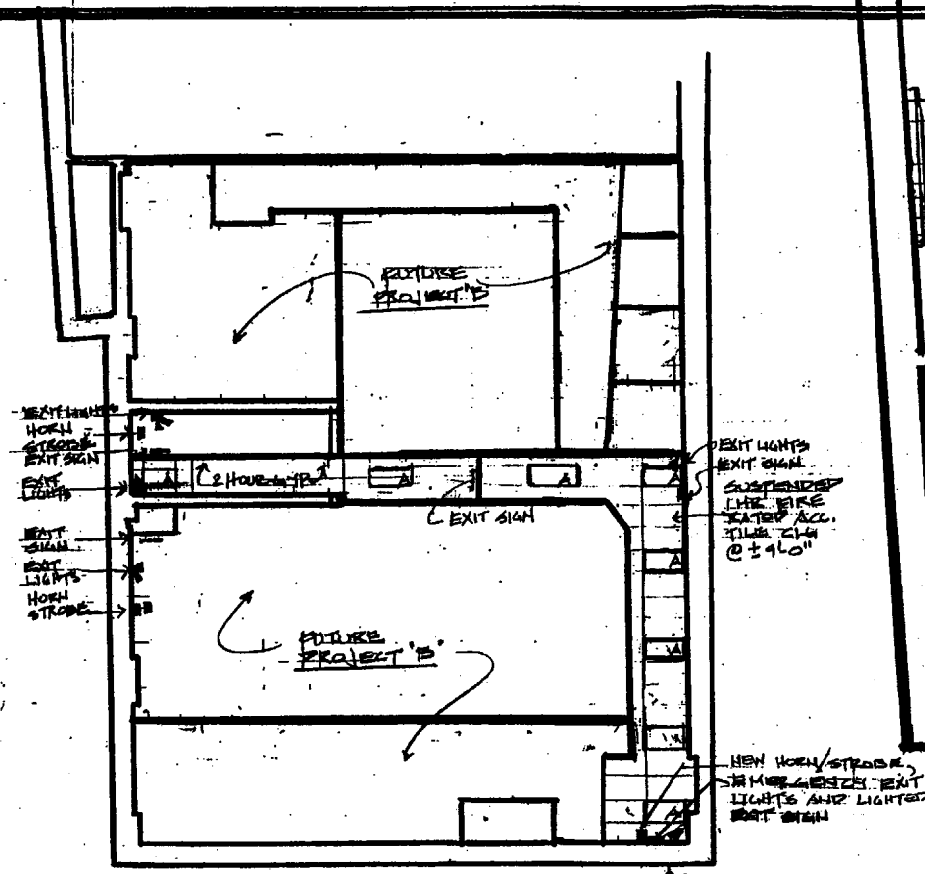
2'-0" RAMP @ 1:12 MAX

ADD DOOR # 8

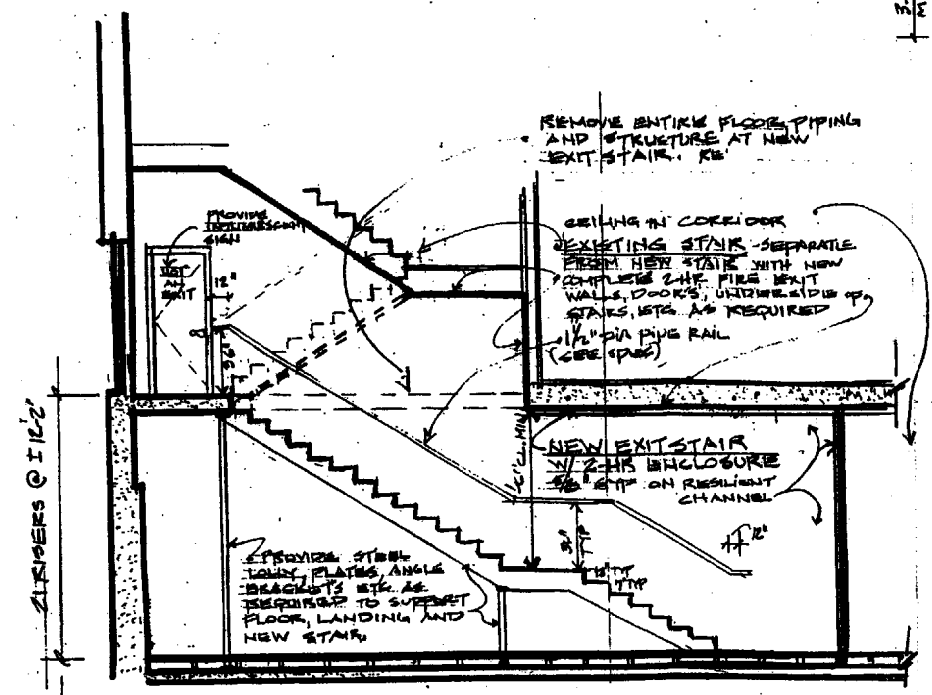
3'-0" ADD. 4" BENT RAMP

EXISTING HOT WATER UNIT HEATER TO REMAIN

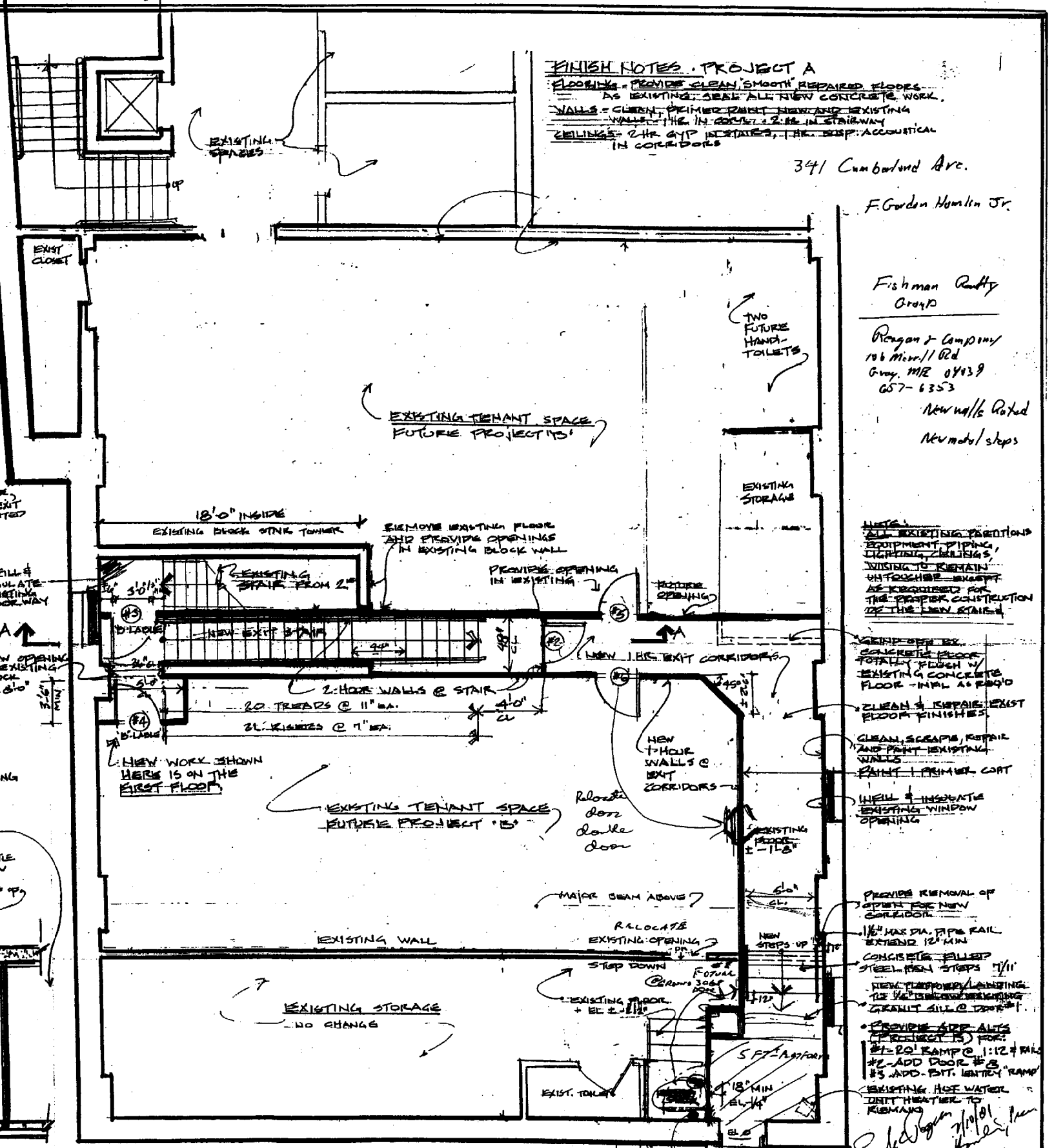
FINAL FOR PRICING PROJECT 'A' + APP APPS



REFLECTED CLG. PLAN
SCALE 1/8" = 1'-0"



STAIR SECTION 'A' SCALE 1/4" = 1'-0"



FLOOR PLAN - PARTIAL EXMT PLAN
SCALE 1/4" = 1'-0"

FINISH NOTES - PROJECT A
FLOORING - PROVIDE CLEAN, SMOOTH REPAIRED FLOORS AS EXISTING. SEAL ALL NEW CONCRETE WORK.
WALLS - CLEAN, PRIMER PAINT NEW AND EXISTING WALLS. 1/2" IN CORRIDORS. 2-HR IN STAIRWAY.
Ceilings - 2-HR GYP IN STAIRS, 1-HR GYP ACCUSTICAL IN CORRIDORS

341 Cumberland Ave.
F. Gordon Hamlin Jr.

Fishman Realty Group
 Oregon & Company
 106 Main St
 Gray, ME 04139
 657-6353
 New walls noted
 New metal steps

NOTES
 1. EXISTING PARTITIONS, EQUIPMENT PIPING, ELECTRICAL, ETC. TO REMAIN UNLESS OTHERWISE NOTED.
 2. ALL NEW CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE IBC AND IBCS.

3. REMOVE EXISTING FLOOR FINISHES.
 4. CLEAN, SCRAPE, ROTARY AND PRIME EXISTING WALLS.
 5. PAINT PRIMER COAT.
 6. WELL & INSULATE EXISTING WINDOW OPENING.

7. PROVIDE REMOVAL OF OPEN FOR NEW CORRIDOR.
 8. 1 1/2" DIA. PIPE RAIL EXTEND 12" MIN.
 9. CONCRETE FILLER STEEL RAIL STEPS 1/4" MIN.
 10. NEW FLOORING/LANDING TO BE INSTALLED OVER EXISTING GRANITE SILL & DOOR.
 11. PROVIDE APP. ALTS (PER IBC) FOR:
 #1 - 20' RAMP @ 1:12 + RAIL
 #2 - ADD DOOR #3
 #3 - ADD PART. WENTY RAMP
 EXISTING HOT WATER UNIT HEATER TO REMAIN

Paul J. ... 7/10/01
 ... 7/10/01
 FINAL FOR PRICING PROJECT 'A' + APP. A/B'S

**THE EARL APARTMENTS
LOWER LEVEL RENOVATIONS**

Plans reviewed on larger set. 19/July/01