Second Floor 2271 SF	1004.1.1	Residential Areas 6173 SF 200 gross 31 occupants
Third Floor 2271 SF TOTAL 6857 SF	2009 NFPA	101
OCCO IDC Code Overview	3.3.32.5	Existing Building
2009 IBC Code Overview Existing Proposed	6.1.8.1.5	Residential Occupancy – Apartment Building
Use R-2 R-2 Sprinkled No No	6.2.2.3	Ordinary Hazard Contents
Occupancy Load 31 31	7.1.3.2.1	Stairs connecting 3 or fewer stories shall have a 1-hour fire rating.
Construction Type VB VB Number of exits per occupancy Varies 1	7.1.5.1 7.2.1.2.3.2	Min headroom in existing buildings: 7'-0" Egress door min clear width: 32"
Number of exits per occupancy valles	7.2.1.2.3.2 7.2.1.4	Door swing and force to open shall comply with this section
NFPA 101 Code Overview  Existing Proposed	7.2.1.5	Door locks, latches and alarms shall comply with this section  Min. clear width: 36 in.
Use Apartment Apartment	1.2.2.2.1.1(D)	Max riser height: 8"
Sprinkled No No Fire Alarm No Yes		Min Tread depth: 9" Min headroom: 6'-8"
Supervised - Yes	7.2.2.2.4.3	Existing winders shall be permitted to be continued in use, provided that they
Occupancy Load 31 31 Construction Type IIIB IIIB		have a tread depth of not less than 6 in and a tread depth of not less than 9 in at a point 12 in from the narrowest edge.
Number of exits per occupancy Varies 1	7.2.2.3.2.3	Min landing depth: stair width
MAINE HUMAN RIGHTS ACT	7.2.2.2.1.2	Min stair width clear of all obstructions, except projection not more than 4 1/2 in at or below handrail height on each side is: 36" (for occupancy under 50)
BUILDING IS EXISTING AND ACCESSIBILITY REGULATIONS OF MHRA DO NOT APPLY	7.2.2.4.1.2	For existing stairs, handrails shall:
COST OF RENOVATION IS LESS THAN 75% OF BUILDING REPLACEMENT COST		<ul> <li>a. Shall be provided within 44 inches of all portions of required egress width</li> <li>b. Stairs shall not have their egress capacity adjusted to a higher occupant load</li> </ul>
IEBC 2009 - Classification of Work Method		than permitted by the capacity factor if the stair's clear width between handles
404.1 Level 2 Alteration - Comply with Chapter 6 and 7	7.2.2.4.1.6	exceeds 60 in. Existing stairs shall be permitted to have a handrail on only one side.
405.1 Level 3 alteration does not apply because the work area does not exceed 50% of the	7.2.2.4.4.1	Handrail height: 36"
aggregate area of the building. Floor by floor area calculations:	7.2.2.4.4.2	Existing required handrails shall be not less than 30 in, and not more than 38 in above the surface of the tread.
First floor:	7.2.2.4.5.2	Existing guards on existing stairs shall be permitted not less than 30 inches high.
Total area of the floor :2085 sft Total work area on the floor (as indicated in the drawings) : 692 sft	7.2.2.4.4.6 7.2.2.4.4.9	Handrail shape: 1 ½" circular cross section Handrails shall return to wall or newel post
% of work area in first floor: (692/2085)x100=33.19%<50%	7.2.2.4.4.10	Handrails shall extend 12" at top of stair and one tread length at bottom
<u>Second floor:</u> Total area of the floor :2044 sft	7.2.2.4.5.3 7.2.2.5.4	Open guards shall not allow the passage of a 4" sphere Stairway identification shall comply with this section.
Total work area on the floor (as indicated in the drawings): 792 sft	7.2.8	Fire escape stairs shall conform with this section.
% of work area in second floor: (792/2044)x100=38.74%<50% Third floor:	7.3.1.2	Occupancy Load Residential Areas 6173SF 200 gross 31 occupants
Total area of the floor :2044 sft	7.3.4.1	Min Egress width: 36"
Total work area on the floor (as indicated in the drawings) :186.40 sft % of work area in third floor: (186.40/2044)x100=9.11%<50%	7.3.4.1.2 7.8	In existing buildings egress width: 28" Egress Illumination shall be in accordance with this section.
Total Building area : 6173 Sft	7.9	Emergency Lighting shall be in accordance with this section.
Total Building area : 6173 Sft Total work area of the building : 1670 Sft	7.10	Marking for means of egress shall comply with this section.
% of work area of the entire building: (1670/6173)x100= 27.05%	9.6	Fire detection, alarm, and communication system shall comply with this section.
	10.2	Interior finishes shall comply with this section.
601.2 Conformance – An existing building shall not be altered to become less safe.  Exception: Where the current level of safety is proposed to be reduced, the portion altered shall		
conform with IBC.	31.1.1.1 31.1.5	Option 1, buildings without fire suppression or detection systems.  Ordinary hazard content classification.
602.1 Elements and Materials - Comply with Chp 8 of IBC 603.1 Fire Protection - Maintain level of fire protection	31.1.6	No minimum construction requirements.
604.1 Egress - Maintain level of protection for means of egress	31.2.1.2	Means of escape within the dwelling unit shall comply with the provision of Section 24.2 for one-and two-family dwellings.
605.1 Accessible means of egress are not required to be provided in existing buildings. 605.1.13 Max height of doorway threshold: 3/4 inch.	31.2.2.3.4	Winders complying with 7.2.2.2.4 shall be permitted.
	31.2.4.1	Every dwelling unit shall have access to not less than two separate exits remotely located from each other.
701.3 Compliance - New construction shall comply with requirements of IBC. 703.2.1 Existing vertical openings: All existing interior vertical openings connecting two or more	31.2.5.3.1	No common path shall exceed 35 ft in buildings not protected with an automatic
floors shall be enclosed with approved assembles having a fire-resistance rating of not less		sprinkler system. Travel within a dwelling unit shall not be included with calculating the common path of travel.
than 1-hr w/ approved opening protectives. Exceptions:	31.2.5.4	Dead-end corridors shall not exceed 50 ft.
Where vertical opening enclosures are not required by IBC.      In Group P. 2 cocupancies, a min. 20 min analogure shall be provided to protect all vertical.	31.2.6.1	Travel distance within a dwelling unit to a corridor door shall not exceed:  (1) For buildings using Option 1, 75 ft.
<ol><li>In Group R-2 occupancies, a min. 30-min enclosure shall be provided to protect all vertical openings not exceeding three stories.</li></ol>	31.2.6.2	The travel distance from a dwelling unit entrance door to the nearest exceed
703.4 Interior finishes comply with IBC. 704.4.3 Smoke Alarms - Individual sleeping units and dwelling units in any work area in Group		shall not exceed: (1) For buildings using Option 1, 100 ft.
R shall be provided with smoke alarms in accordable with IFC.	31.2.6.3	Travel distance to exits shall not exceed 200 ft for exterior ways of exit access.
705.2 Egress – The means of egress shall comply with this section.	31.3.1.1.1 31.3.1.2	Vertical openings shall be enclosed or protected in accordance with section 8.6.  No floor below the exit of discharge used only for storage, heating equipment, or
Exception #2 - Egress conforming to requirements under code in which building was		purposes other than residential occupancy and open to the building shall have
constructed shall be considered compliant if in the opinion of code official they do not constitute a distinct hazard to life.	31.3.3.2	unprotected openings to floors used for residential purposes. Interior wall and ceiling finishes:
705.3.1 - Minimum Exists - Based on accordance with IBC.		(1) Exit enclosures (Class A or B)
705.3.1.2 Where more than one exit is required, an existing or newly constructed fire escape shall be accepted as providing one of the required means of egress.		<ul><li>(2) Lobbies and corridors (Class A or B)</li><li>(3) Other Spaces (Class A, B, or C)</li></ul>
705.4.3 In any work area, all doors opening onto an exit passageway at grade or an exit	31.3.3.3	In buildings utilizing option 1, newly installed interior floor finish in exits and access corridors shall be not less than Class II.
stairwell shall be self-closing or automatic closing. 705.11 - Guards - If existing guards are judged to be in danger of collapsing shall be provided		
with guards.	31.3.4.5.1	Smoke alarms shall be installed outside of every sleeping area in the immediate vicinity of the bedrooms.
	31.3.4.5.3	Smoke alarms shall be installed in every sleeping area.
	31.3.5.13 31.3.6.1	Portable fire extinguishers shall be provided in hazardous areas.  Exit access corridor walls shall consist of fire barriers having a min. 1/2-hr rating.
IBC 2009	31.3.6.2.1	Doors that open onto exit access corridors, shall have not less than a 20-minute
420.2 Separation Walls - Walls between dwelling units comply with 709.  420.3 Horizontal Separation - Floor assemblies separating units comply with 712.	31.3.6.2.3	fire protection rating.  Doors that open onto exit access corridors shall be self-closing and self-latching.
· · · · · · · · · · · · · · · · · · ·	31.3.6.4	Transoms, louvers, or transfer grilles shall be prohibited in walls or doors of exit
709.3 Fire partitions shall have a fire-resistance rating of not less than 1-hour.  712.3 Horizontal assemblies separating dwelling units in same building shall be a min of 1	31.3.7	access corridors. Smoke partitions
hour rated construction.		
	43.1.2.1 43.2.2.1.3	Chapter 31 shall apply Modification

Exit enclosure Class B materials

Corridors Class B materials

Rooms Class C materials

Table 803.9 R-2 (nonsprinklered) =

Capacity means of egress: Determined by Section 7.3 43.4.2 43.4.3 New interior finish materials shall meet requirements for new construction. Newly constructed elements shall comply with the requirements of other 43.5.1.3 sections of this code applicable to new construction.

> HIGHLIGHTED ITEMS ARE NOT MET, BUT IT IS TECHNICALLY INFEASIBLE TO CORRECT THE STAIR DIMENSIONS

CONGRES

REVISIONS

1 10/25/2017
2 11/02/2017
3 4 -

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REVIEW



2.0