

MAINE BUILDING CODE STUDY

PROJECT SUMMARY:

EXISTING 1 STORY MASONRY AND WOOD FRAMED RESTAURANT SPACE TO BE RENOVATED - EXISTING BUILDING AREA = 2,050± SF

IBC 2009 CODE REVIEW SUMMARY

CHAPTER 9 - USE AND OCCUPANCY CLASSIFICATION

SECTION 904.1 - BUSINESS (B) - EXISTING

CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 602 CONSTRUCTION CLASSIFICATION

SECTION 602.5 TYPE 5B (EXISTING)

CHAPTER 8 - INTERIOR FINISHES

TABLE 803.9 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (B) NON-SPRINKLERED:

EXIT ENCLOSURE AND PASSAGEWAYS - CLASS A
CORRIDORS - CLASS B
ROOMS AND ENCLOSED SPACES - CLASS C

SECTION 804.4 - INTERIOR FLOOR FINISH REQUIREMENTS:
INTERIOR FLOOR FINISH - NOT LESS THAN CLASS II IN GROUP B
COMPLY W/ DOCFF-1 "MILL TEST"

CHAPTER 9 - FIRE PROTECTIVE SYSTEMS (NEW BUILDINGS)

SECTION 906 PORTABLE FIRE EXTINGUISHERS

SECTION 906.1 WHERE REQUIRED:

- 1) USE GROUP B
- 2) WITHIN 50 FT OF COMMERCIAL COOKING EQUIPMENT

CHAPTER 10: MEANS OF EGRESS

TABLE 1004.1.1 - MAX FLOOR AREA ALLOWANCES PER OCCUPANCY (M);
GRADE FLOORS = 50 GROSS
STORAGE, STOCK AREAS = 300 GROSS

OCCUPANCY	AREA	MINIMUM OCCUPANT LOAD	OCCUPANTS
SALES & DINING AREAS (PUBLIC)	304	15 SF/PERSON	21
KITCHEN (NON-PUBLIC)	400	200 SF/PERSON	2
UTILITY/STORAGE AREA (NON-PUBLIC)	714	300 SF/PERSON	3
TOTAL			26
TOTAL OCCUPANTS INCREASED TO 27 DUE TO MORE STRINGENT REQUIREMENTS - SEE NFPA 101 SUMMARY			27

SECTION 1005:
DOORS AND CORRIDORS = 2" PER PERSON

OCCUPANCY	OCCUPANTS	WIDTH PER PERSON	WIDTH REQUIRED	WIDTH PROVIDED
SALES & DINING AREAS	21	2"	4.2"	72"
UTILITY, STORAGE & KITCHEN AREAS	6	2"	1.2"	36"

MAINE BUILDING CODE STUDY (CONTINUED)

SECTION 1005.2 - DOOR ENCROACHMENT:
DOORS SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WIDTH BY MORE THAN 1 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF.

SECTION 1006.2 - ILLUMINATION LEVEL:
MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.

SECTION 1006.3 - ILLUMINATION EMERGENCY POWER:
POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY PREMISES' ELECTRICAL POWER
IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING: CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS, INTERIOR EXIT DISCHARGE ELEMENTS, EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ONSITE GENERATOR.

SECTION 1007.1 - ACCESSIBLE MEANS OF EGRESS:
ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS.

SECTION 1008.1.1.1 - PROJECTIONS INTO CLEAR WIDTH:
THERE SHALL NOT BE PROJECTIONS INTO REQUIRED CLEAR WIDTH LOWER THAN 34" ABOVE FLOOR. PROJECTIONS ABOVE FLOOR SHALL NOT EXCEED 4 INCHES.
EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 18 INCHES MIN. ABOVE THE FLOOR.

SECTION 1008.1.2 - DOOR SWINGS:
DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS.

SECTION 1008.1.5 - FLOOR ELEVATION:
THERE SHALL BE A FLOOR LANDING ON EACH SIDE OF A DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE)

SECTION 1008.1.7 - THRESHOLDS:
THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT

SECTION 1014.2 EGRESS THROUGH INTERVENING SPACES:
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO AN EXIT THE OTHER AND PROVIDE A DISCRETE PATH OF EGRESS TRAVEL TO AN EXIT

EXCEPTIONS: 2. MEANS OF EGRESS ARE NOT PROHIBITED THROUGH STOCKROOMS IN GROUP M OCCUPANCIES WHEN ALL OF THE FOLLOWING ARE MET:

- 2.1. THE STOCK IS OF THE SAME HAZARD AS THAT FOUND IN THE MAIN RETAIL AREA, 2.2. NOT MORE THAN 50 PERCENT OF THE EXIT ACCESS IS THROUGH THE STOCKROOM
- 2.3. THE STOCKROOM IS NOT SUBJECT TO LOCKING FROM THE EGRESS SIDE, AND
- 2.4. THERE IS A DEMARCATED, MINIMUM 44-INCH-WIDE AISLE DEFINED BY FULL OR PARTIAL HEIGHT FIXED WALLS OR SIMILAR CONSTRUCTION THAT WILL MAINTAIN THE REQUIRED WIDTH AND LEAD DIRECTLY FROM THE RETAIL AREA TO THE EXIT WITHOUT OBSTRUCTIONS.

SECTION 1014.3 - COMMON PATH OF EGRESS TRAVEL:
OCCUPANCY M = EGRESS TRAVEL OF 75 FEET MAXIMUM

SECTION 1015.2.1 - TWO EXITS OR EXIT ACCESS DOORWAYS:
THE EXIT DOORS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS.

SECTION 1016.1 - TRAVEL DISTANCE LIMITATIONS:
OCCUPANCY M = 200 FEET (WITHOUT SPRINKLER SYSTEM)

2009 NFPA 101 LIFE SAFETY CODE REVIEW SUMMARY

CHAPTER 7 MEANS OF EGRESS

SECTION 7.2.1.4.3 - DOOR LEAF ENCROACHMENT:

DURING ITS SWING ANY DOOR LEAF IN A MEANS OF EGRESS SHALL LEAVE NOT LESS THAN ONE-HALF OF THE REQUIRED WIDTH OF AN AISLE, A CORRIDOR, A PASSAGEWAY, OR A LANDING UNOBSTRUCTED AND SHALL PROJECT NOT MORE THAN 1 IN. INTO THE REQUIRED WIDTH OF AN AISLE, A CORRIDOR, A PASSAGEWAY, OR A LANDING, WHEN FULLY OPEN

SECTION 7.3.1.2 - OCCUPANT LOAD FACTOR

STORAGE USE:
IN OTHER THAN STORAGE & MERCANTILE OCCUPANCIES = 500SF/PERSON
714 SF / 500 SF = 2 OCCUPANTS

ASSEMBLY USE (SALES & DINING AREAS):
LESS CONCENTRATED USE, WITHOUT FIXED SEATING = 15 SF/PERSON
304 / 15 SF = 21 OCCUPANTS

KITCHENS: 100 SF/PERSON
400 / 100 SF = 4 OCCUPANTS

TOTAL OCCUPANTS = 27

CHAPTER 24 - EXISTING BUSINESS OCCUPANCIES

SECTION 24.2.3 CAPACITY OF MEANS OF EGRESS: PER SECTION 7.3

TABLE 7.3.3.1 CAPACITY FACTORS: LEVEL COMPONENTS;
ALL OTHER AREAS = 0.2" WIDTH/PERSON
27 PERSONS X 0.2" PERSON = 5.4" OF EGRESS WIDTH REQUIRED, 106" PROVIDED

SECTION 24.2.4 - NUMBER OF EXITS

NOT LESS THAN 2 EXITS SHALL BE PROVIDED FROM EVERY STORY: 2 EXISTING EXITS

SECTION 24.2.5.3.3 COMMON PATH OF TRAVEL SHALL NOT EXCEED 75 FEET

SECTION 24.2.6.2 TRAVEL DISTANCE TO AN EXIT SHALL NOT EXCEED 200 FT

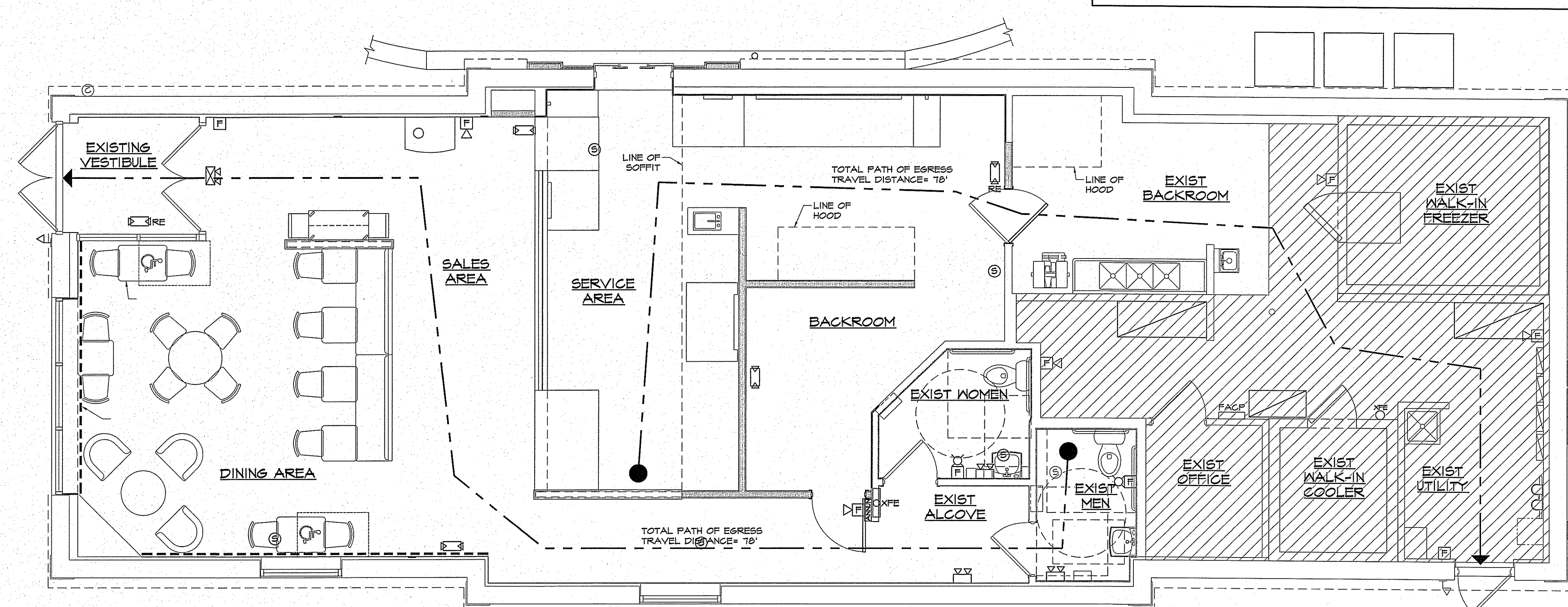
SECTION 24.3.5.2 INTERIOR WALL AND CEILING FINISH
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASS A OR CLASS B.

SECTION 24.3.4 DETECTION, ALARM & COMMUNICATIONS SYSTEMS: N/A

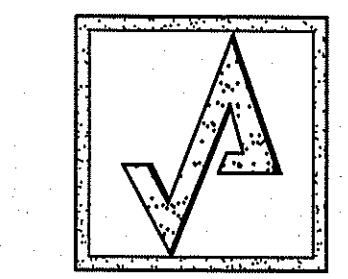
SECTION 24.3.5 - EXTINGUISHMENT REQUIREMENTS
PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED

LEGEND

- [F] REINSTALLED EXISTING MANUAL FULL STATION
- [F] ETR MANUAL FULL STATION
- [V] REINSTALLED EXISTING FIRE ALARM HORN/STROBE UNIT
- [V] ETR HORN/STROBE UNIT
- [F] REINSTALLED EXISTING FIRE ALARM STROBE UNIT ONLY
- [ANNUN] REINSTALLED EXISTING ANNUNCIATOR
- [S] REINSTALLED EXISTING SMOKE DETECTOR
- [S] RELOCATED EXISTING SMOKE DETECTOR
- [Δ] REINSTALLED EXISTING WALL MTD EMERG LIGHT
- [E] ETR CL6 MTD EMERG LIGHT
- [RE] REINSTALLED EXISTING CL6 MTD EMERG LIGHT
- [E] RELOCATED EXISTING CL6 MTD EMERG LIGHT
- [E] ETR EXIT SIGN
- [J] REINSTALLED EXISTING EMERGENCY LIGHT REMOTE HEAD
- [OXFE] EXISTING FIRE EXTINGUISHER
- [X] NOT IN SCOPE

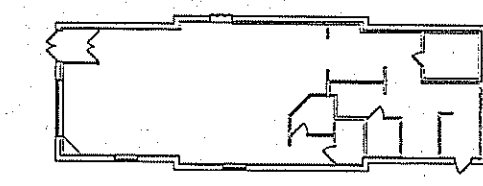


1 FLOOR PLAN
SCALE: 1/4" = 1'-0"
PLAN



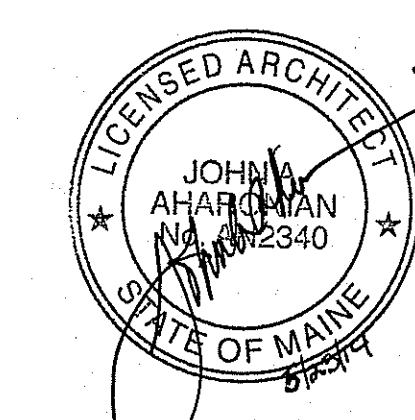
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KEYPLAN

REVISIONS	NUMBER	REMARKS	DATE
Δ			



FOR CONSTRUCTION

PROJECT TITLE
DUNKIN' BRANDS
[eatdrinkthink]
PC# NEW
FRESH BREW IMAGE:
CAPPUCCINO BLEND
1412 CONGRESS STREET
PORTLAND, ME
Cumberland County

DRAWING TITLE
LIFE SAFETY PLAN & CODE SUMMARY

DATE MAY 23, 2014	PROJ NO 14016
DRAWN BY MH	CHECKED BY MH

DRAWING NUMBER
LS1.1