CODE STUDY Fire protection/exit

Project Name:	Whole Foods Market Pub Development and Department Relocations	**Date:**	August 21, 2015
Location:	2 Somerset Street, Portland, ME		
Scope:	New ___ Addition ___ Renovation _X_	**Project #:**	15103
Occupancy Classification	Mercantile	**Construction Type**	IIB
Building Area	46,253 of Ground Floor 9,804 of Mezzanine	**Building Height**	1-story/19'-8"

Code Heading	NFUSEC / IBC-2009	NFPA 101-2009	Remarks
Use Group	M - Mercantile	M - Mercantile	
Height Limitations	(Table 503/NA) 2story/92'		Height complies
Area Limitations	(Table 503) 12,500 sf		Area = See Area Modifications
Area Modifications	(503) Unlimited Area Buildings = (107.3) Sprinklered, one story		Complies
Fire Resistance • Exterior Walls • Structure • Exit Enclosures	(Tables 601 & 602) NR (Table 601) NR NA	NA	
Occupant Load	(Table 1004.1.1) Sales: 30 sf/person Warehouse: 300 sf/person Business: 100 sf/person Lounge: 15 sf/person Kitchens/Service Areas: 200 sf/person Seating: Actual Count	(7.1.7) & (Table (7.3.1.2) Same as for IBC except as below Kitchens/Service Areas: 100 sf/person	31,261 s.f./30 = 1,042 13,213 s.f./300 = 45 4,111 s.f./100 = 42 367 s.f./15 = 25 5,815 s.f./100 = 59 Seat Count = 187 Total = 1,500
Number of Exits • Occupant Load total • Sales • Sales > 1000	(1015.1.1) 4 exits (1015.1.1) 4 exits	(7.4.1.2) (2) 4 exits (7.4.1.2) (2) 4 exits	5 – exits provided 4 – exits provided
Egress Width • Doors • Stairs	(1005.1) 0.2"/occupant (1005.1) 0.3"/occupant	(table 7.3.3.1) 0.2"/occupant 70"x0.2"=151" 0.3"/occupant	200" provided total allowing a capacity of 1,000 occ. 296" provided from the Sales Area allowing a capacity 1,480 occ. Stairs 54" wide clear /including handrails.
Arrangement of Means of Egress Sales	(1015.2.1 Exception 1 sprinklered) as remote as practicable = d = .333 x diagonal	(7.2.5.7) 1/2 of required out width (7.2.5.7) 1/2 of exits located as to be reached w/o passing through checkouts	249'/318' = .783 160" provided 4 exits provided(1 passes through checkouts
Length of Travel	(Table 1016.1) w/ Sprinkler – 250'	(table 7.3.3.1) w/ Sprinkler Sprl. – 250'	Less than 250' – complies
Dead End Corridors	(1018.4 exception 2) Sprinklered - 50'	(7.2.5.2) - 50'	Less than 50' – complies
Common Path of Travel	(1014.3) 75'	(7.2.5.3.1) w/ Sprinkler Sprl. – 100'	Less than 100' – complies
Extinguishment Requirements	(903.2.7) Full Sprinkler System required when > 12,000 sq. ft.	(7.3.5.1/2)) Full Sprinkler System req. > 15,000 sq. ft.	Automatic supervised fire sprinkler system provided
Accessibility • Areas of Refuge	(Chapter 11 & ADA) (1007.1 Exception 1) – NR		Complies

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 12/03/15

HARRIMAN

AUBURN PORTLAND MANCHESTER

WHOLE FOODS MARKET

PUB DEVELOPMENT AND DEPARTMENT RELOCATIONS
2 SOMERSET ST
PORTLAND, ME

Harriman Project No.	15103

Key Plan

Proj North

Issues and Revisions

Mark	Date	Description
--	12-02-15	ISSUED FOR FIRE DEPT REVIEW

REGISTERED ARCHITECT DANIEL L. JEWELL 4,006 STATE OF MAINE

Drawing Scales
1/8" = 1'-0"

0 4' 8' 12'

PA / PE: DLJ
Drawn By: SJD

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LIFE SAFETY PLAN

LS10.1