

**PROJECT INFORMATION:**

THE BUILDING IS IN COMPLIANCE WITH THE:  
 2012 NORTH CAROLINA BUILDING CODE  
 2012 NORTH CAROLINA FIRE CODE  
 2012 NORTH CAROLINA MECHANICAL CODE  
 2012 NORTH CAROLINA PLUMBING CODE  
 2012 NORTH CAROLINA ENERGY CONSERVATION CODE  
 2012 NORTH CAROLINA FUEL GAS CODE  
 2014 NATIONAL ELECTRIC CODE  
 ICC ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDING AND FACILITIES

BUILDING PLANNING (CHAPTER 3.4.5.6):		
OCCUPANCY CLASSIFICATION (302.0 - 312.0)	MIXED OCCUPANCY GROUP M & S-1	
	(ALLOWABLE)	(ACTUAL)
NUMBER OF STORIES (TABLE 503):	1	1
BUILDING HEIGHT (TABLE 503):	40'-0"	24'-8"
BUILDING AREA (TABLE 503):	9,000	
STREET FRONTAGE INCREASE (A <sub>1</sub> ) (504.2):	3240	
AUTOMATIC SPRINKLER SYSTEM INCREASE (A <sub>1</sub> ) (506.3):	27,000	
MAXIMUM ALLOWABLE SQUARE FOOTAGE (A <sub>1</sub> ):	39,240	22,978

**AREA MODIFICATIONS (506):**  
 AUTOMATIC SPRINKLER SYSTEM: YES - (300% INCREASE)  
 STREET FRONTAGE INCREASE:  
 • BUILDING PERIMETER: 36.005  
 • BUILDING PERIMETER FRONTING ON A STREET OR UNOCCUPIED SPACE: 380'-8"  
 • INCREASE TO MAX. ALLOWABLE AREA (I<sub>1</sub>): 36.005

AREA INCREASE CALCULATOR			
	BASE AREA	AREA INCREASE	SPRINKLER INCREASE
A <sub>1</sub>	A <sub>1</sub>	(A <sub>1</sub> * I <sub>1</sub> ) / 100	(A <sub>1</sub> * I <sub>1</sub> ) / 100
A <sub>1</sub>	9,000	3,240	27,000

**TYPES OF CONSTRUCTION (CHAPTER 6):**  
 CONSTRUCTION CLASSIFICATION: VB

**FIRE RESISTANT REQUIREMENTS: (TABLES 601 & 602)**  
 STRUCTURAL FRAME: 0 HR.  
 BEARING WALLS:  
 EXTERIOR: 0 HR.  
 INTERIOR: 0 HR.  
 NONBEARING WALLS AND PARTITIONS:  
 EXTERIOR: SEE TABLE 602  
 INTERIOR: 0 HR.  
 FLOOR CONSTRUCTION: 0 HR.  
 ROOF CONSTRUCTION: 0 HR.

**FIRE SEPARATION DISTANCE = X (feet)**  
 LESS THAN 5': 2 HR.  
 MORE THAN 5', LESS THAN 10': 1 HR.  
 MORE THAN 10', LESS THAN 30': 0 HR.  
 GREATER THAN 30': 0 HR.

**FIRE AND SMOKE PROTECTION FEATURES: (CHAPTER 7)**  
 FIRE-RESISTANT RATING OF STRUCTURAL MEMBERS (704): NOT REQUIRED  
 EXTERIOR WALLS (705): NOT REQUIRED  
 FIRE WALLS (706): NOT REQUIRED  
 FIRE BARRIERS (707): NOT REQUIRED  
 FIRE PARTITIONS (708): NOT REQUIRED  
 SMOKE BARRIERS (709): NOT REQUIRED  
 SMOKE PARTITIONS (710): NOT REQUIRED  
 HORIZONTAL ASSEMBLIES (711): NOT REQUIRED  
 VERTICAL OPENINGS (712): NOT REQUIRED  
 SHAFT ENCLOSURES (713): NOT REQUIRED  
 PENETRATIONS (714): NOT REQUIRED  
 FIRE-RESISTANT JOINT SYSTEMS (715): NOT REQUIRED  
 OPENING PROTECTIVES (716): NOT REQUIRED  
 DUCTS AND AIR TRANSFER OPENINGS (717): NOT REQUIRED  
 CONCEALED SPACES (718): NOT REQUIRED  
 FIRE-RESISTANT REQUIREMENTS FOR PLASTER (719): NOT REQUIRED  
 THERMAL- AND SOUND-INSULATING MATERIALS (720): NOT REQUIRED

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.9)						
OCCUPANCY / GROUP	SPRINKLERED			NONSPRINKLERED		
	INTERIOR EXTERIOR CEILING	INTERIOR EXTERIOR CEILING	INTERIOR EXTERIOR CEILING	INTERIOR EXTERIOR CEILING	INTERIOR EXTERIOR CEILING	INTERIOR EXTERIOR CEILING
B, M	B	C	C	A	B	C
S	C	C	C	B	B	C

**FIRE PROTECTION SYSTEMS (CHAPTER 9)**  
 AUTOMATIC SPRINKLER SYSTEMS (905): (REQUIRED) YES (PROVIDED) YES  
 STANDPIPE SYSTEM (905): (REQUIRED) NO (PROVIDED) NO  
 PORTABLE FIRE EXTINGUISHERS (906): (REQUIRED) YES (PROVIDED) YES  
 FIRE ALARM AND DETECTION SYSTEMS (907): (REQUIRED) NO (PROVIDED) YES  
 EMERGENCY ALARM SYSTEMS (908): (REQUIRED) NO (PROVIDED) NO  
 SMOKE CONTROL SYSTEMS (909): (REQUIRED) NO (PROVIDED) NO  
 SMOKE AND HEAT EXHAUSTION (910): (REQUIRED) NO (PROVIDED) NO  
 FIRE COMMAND CENTER (911): (REQUIRED) NO (PROVIDED) NO  
 DEPARTMENT CONNECTIONS (912): (REQUIRED) YES (PROVIDED) YES

**MEANS OF EGRESS (CHAPTER 10)  
 OCCUPANT LOAD (1004):**

OCCUPANCY LOADS (1004.0 TABLE 1004.1.2)			
OCCUPANCY USE	SQUARE FEET / OCCUPANT	TOTAL OCCUPANCY SQUARE FOOTAGE	OCCUPANTS
MERCANTILE	30	15,103	504
BUSINESS	100	708	8
STORAGE / STOCK	300	5,345	18
TOTAL OCCUPANT LOAD			530

**EGRESS WIDTH (1005):**

USE GROUP OR SPACE DESCRIPTION	OCCUPANT LOAD BY USE	(B) EGRESS WIDTH PER OCCUPANT (SECTION 1005.1)		REQUIRED WIDTH (SECTION 1005) [A X B]				EXIT WIDTH (IN.)*	
		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL	ACTUAL WIDTH SHOWN ON PLANS	
MERCANTILE	504	.3	.2	151.2	100.8				
BUSINESS	8	.3	.2	2.4	1.6				SEE G-002 LIFE SAFETY PLAN FOR ACTUAL WIDTHS
STORAGE	18	.3	.2	5.4	3.6				
TOTAL:	530	.3	.2	159.0	106.0				

\* Where more than one exit, or access to more than one exit, is required, the means of egress shall be configured such that the loss of one exit or access to one exit shall not reduce the available capacity to less than 50 percent of the total required capacity (Section 1005.5)

**ACCESSIBLE MEANS OF EGRESS (1007):** (REQUIRED) YES (PROVIDED) YES  
**DOOR WIDTH (1008):**  
 MINIMUM: 32"  
 MAXIMUM: 48"  
**PANIC HARDWARE (1008.1.9):** (REQUIRED) NO (PROVIDED) YES  
**EXIT SIGNS (1011):** (REQUIRED) YES (PROVIDED) YES  
**HANDRAILS (1012):** 34" H. MIN., 38" H. MAX.  
**GUARDS (1013):** 42" H. IF ADJACENT GRADE IS GREATER THAN 30"  
**COMMON PATH OF EGRESS TRAVEL (1014.3):** 75' MERCANTILE 100' STORAGE  
**MINIMUM # OF EXITS REQ. ON 1ST FLOOR (1015):** (REQUIRED) 4 (PROVIDED) 4  
**MAXIMUM TRAVEL DISTANCE TO AN EXIT (TABLE 1016.1):** 250'  
**MINIMUM CORRIDOR WIDTH (1018.2):** 44" / 60" FOR H.C. TURN AROUND (AT 200' INTERVAL)  
**MAXIMUM DEAD END CORRIDOR DISTANCE (1018.4):** 50' IF SPRINKLERED

**ACCESSIBILITY (CHAPTER 11)**

**CHECK-OUT AISLES (TABLE 1109.12.2):** (REQUIRED) 2 (PROVIDED) 5

**PLUMBING FIXTURE REQUIREMENTS:**

OCCUPANCY / GROUP	MINIMUM NO. OF REQUIRED PLUMBING FIXTURES (IBC/PC TABLE 403.1)					
	WATER CLOSETS (LUBINALS)		LAVATORIES		BATHUBS / SHOWERS	DRINKING FOUNTAINS
MERCANTILE (REQUIRED)	1 PER 500		1 PER 750		--	1 PER 1,000
MERCANTILE (PROVIDED)	1+1	2	1	1	--	1 SINK

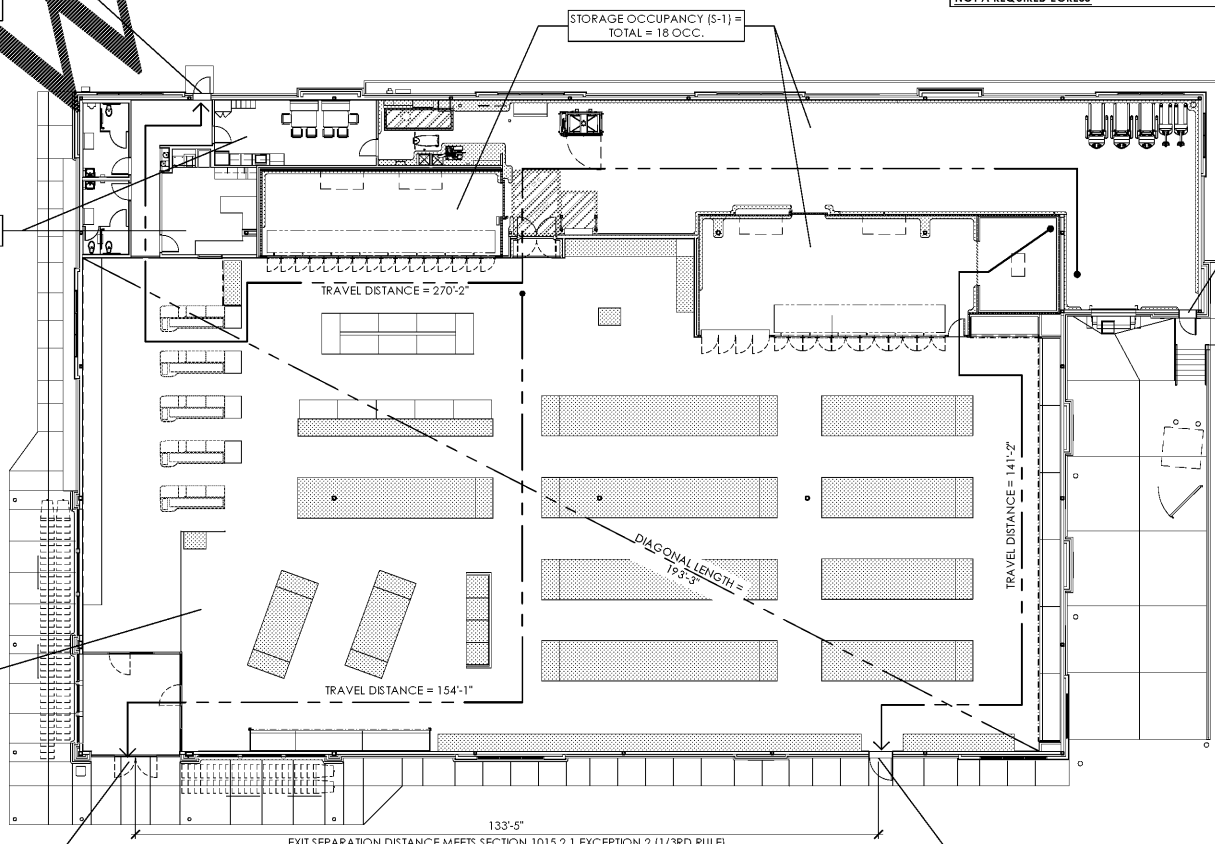
EGRESS WIDTH @ LEVEL PER OCCUPANT = 0.2"  
 TOTAL REQUIRED WIDTH AT THIS EXIT = 18 OCC @ 0.2 = 3.6" CLEAR  
 PROVIDED AT THIS EXIT: 33" CLEAR

EGRESS WIDTH @ LEVEL PER OCCUPANT = 0.2"  
 TOTAL REQUIRED WIDTH AT THIS EXIT = 18 OCC @ 0.2 = 3.6" CLEAR  
 TOTAL PROVIDED AT THIS EXIT: 33" CLEAR  
 NOT A REQUIRED EGRESS

NOTE: ALL REQUIRED EXITS SHALL HAVE TACTILE EXIT SIGNS PER NCBC 1011.3

MERCANTILE OCCUPANCY (M) = 504 OCC.  
 ADDITIONAL OCCUPANTS FROM BACKROOM & BUSINESS = 26 OCC  
 TOTAL = 530 OCC

DASHED LINE SHOWS SWING OF BREAK OUT EGRESS PANEL  
 EGRESS WIDTH @ LEVEL PER OCCUPANT = 0.2"  
 TOTAL REQUIRED WIDTH AT THIS EXIT = 318 OCC @ 0.2 = 63.6" CLEAR  
 TOTAL PROVIDED AT THIS EXIT: 90.75" CLEAR



1 Egress Plan  
 SCALE: 1/16" = 1'-0"

**AREA SUMMARY (FOR REFERENCE ONLY)**

SIDE DOCK AREA SUMMARY		
OCCUPANCY USE	ROOM NAME	SQUARE FOOTAGE
MERCANTILE (M)	SALES / VESTIBULE	14,738
	MEN'S ROOM	107
	WOMEN'S ROOM	107
	HALL	151
SUBTOTAL (MERCANTILE)		15,103
BUSINESS (B)	OFFICE	289
	BREAK ROOM	419
SUBTOTAL (BUSINESS)		708
STORAGE / STOCK (S-1)	BACKROOM	3,380
	COOLER	1,317
	FREEZER	648
SUBTOTAL (STORAGE / STOCK)		5,345
SUBTOTAL (OCCUPANCIES)		156
EXTERIOR / INTERIOR WALLS / UNOCCUPIED SPACE		89
BUILDING SQUARE FOOTAGE		22,978
EXTERIOR CANOPY		72
TOTAL SQUARE FOOTAGE (INCLUDING CANOPY)		22,978

Issued:	Date:
A Permit Set	12/05/17
B Client Review Set	05/03/18
C Bid Set	05/11/18
D	

Revisions: \_\_\_\_\_ Date: \_\_\_\_\_  
 1 \_\_\_\_\_  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_  
 4 \_\_\_\_\_  
 5 \_\_\_\_\_  
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 9 \_\_\_\_\_

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Code Review  
 Drawing Name:  
 Prototype Rls. 09/07/17 Project No. 40452-13  
 Type: LHSD-V8  
 XXX G-002  
 Scale: As Noted Drawing No.