## PARTITION LEGEND

| | |
|---|---|
| | INDICATES STUD WALL X 20 GA AT 16" OC (NON RATED) |
| | INDICATES STUD WALL X 20 GA AT 16" OC WITH BATT INSULATION (NON RATED) |
| | INDICATES STUD WALL X 20 GA AT 16" OC (1 HOUR FIRE RATED A.N.S.I. / UL U419) OR OTHER PER PARTITION TYPE LEGEND |
| | INDICATES STUD WALL X 20 GA AT 16" OC (2 HOUR FIRE RATED A.N.S.I. / UL U419) OR OTHER PER PARITION TYPE LEGEND |
| | INDICATES STUD WALL WITH BLOCKING BETWEEN STUDS |
| | INDICATES FREEZER OR COOLER PANEL |

## FIRE EXTINGUISHER LOCATIONS

(FE) = FIRE EXTINGUISHER

FIRE EXTINGUISHERS: PER IFC TABLE 906.3(1) = INSTALL ONE 3A-4OB:C EXTINGUISHER EVERY 4,500 SQFT WITH A MAXIMUM TRAVEL DISTANCE OF 75'-0". (30'-0" IN COOKING AREAS)

FIRE EXTINGUISHERS HAVING A GROSS WEIGHT NOT EXCEEDING 40LBS SHALL BE INSTALLED SO THAT THEIR TOPS ARE NOT MORE THAN 5'-0" AFF.

FIRE EXTINGUISHERS HAVING A GROSS WEIGHT EXCEEDING 40LBS SHALL BE INSTALLED SO THAT THEIR TOPS ARE NOT MORE THAN 3'-6" AFF.

CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF INSTALLED HAND HELD PORTABLE FIRE EXTINGUISHERS SHALL BE NOT LESS THAN 4 INCHES. COORDINATE LOCATIONS WITH LOCAL FIRE MARSHALL.

AREA MODIFICATION (SECTION 506.1)

P = 558'-0" F = 558'-0" W = 30'-0"

$I_f$ = [ (558/558) - 0.25 ] (30/30) = $I_f$ = [ (558'/558') - 0.25 ] = .75 x (30'/30') = 75%

M-1 - MERCANTILE

$A_a$ = [ $A_t$ + (NS x $I_f$) ]

$A_a$ = [ 12500 + (12500 x .75) ]

$A_a$ = [ 12500 + 10,193 ] = 22,693 SQUARE FEET

A-2 - ASSEMBLY

$A_a$ = [ $A_t$ + (NS x $I_f$) ]

$A_a$ = [ 9500 + (9500 x .75) ]

$A_a$ = [ 9500 + 3,661= 13,661 SQUARE FEET

REQUIRED SEPARATION OF OCCUPANCIES PER TABLE 508.4
M & A-2 = 2 HOUR FIRE BARRIER

SEPARATED OCCUPANCIES (SECTION 508.4)

$$\frac{\text{ACTUAL AREA}}{\text{ALLOWABLE AREA}} \leq 1$$

$$\frac{10{,}193 \text{ SQUARE FEET}}{22{,}693 \text{ SQUARE FEET (M)}} + \frac{3{,}661 \text{ SQUARE FEET}}{13{,}661 \text{ SQUARE FEET (A-2)}} \leq 1$$

(M) 0.45 + (A-2) .26 = 0.71 ≤ 1

## C-STORE - OCCUPANT LOAD

| OCCUPANCY | AREA | AREA PER OCCUPANT | OCCUPANT LOAD |
|---|---|---|---|
| BUSINESS | 152 SF | 100 SF | 2 |
| ELECTRICAL | 302 SF | 300 SF | 1 |
| KITCHEN | 698 SF | 200 SF | 4 |
| MECHANICAL | 188 SF | 300 SF | 1 |
| MERCANTILE | 6464 SF | 30 SF | 216 |
| STORAGE | 2389 SF | 300 SF | 12 |
| | 10193 SF | | 237 |

## C-STORE EGRESS

**DISTANCE OF TRAVEL - TABLE 1016.2**
IBC 200'-0" MAX

EGRESS WIDTH REQUIRED PER IBC - SECTION 1005.3
EGRESS INCHES REQUIRED: 0.20 INCHES PER PERSON SERVED

EGRESS WIDTH REQUIRED (INCHES) EQUALS:
(AREA OCCUPANT LOAD) x (EGRESS WIDTH PER PERSON SERVED)

237 OCCUPANTS X .20 = **47.4 INCHES REQUIRED**

(0) 3'-0" DOORS X 33 = 0 INCHES

(1) 3'-6" DOORS X 39 = 39 INCHES

(2) 6'-0" DOORS X 38 = 76 INCHES

**TOTAL INCHES PROVIDED: 115 INCHES**

## OCCUPANT LOAD - FOOD TENANT

| OCCUPANCY | AREA | AREA PER OCCUPANT | OCCUPANT LOAD |
|---|---|---|---|
| ASSEMBLY - UNCONCENTRATED | 1290 SF | 15 SF | 86 |
| BUSINESS | 77 SF | 150 SF | 1 |
| KITCHEN | 1485 SF | 200 SF | 8 |
| STORAGE | 519 SF | 300 SF | 3 |
| | 3370 SF | | 98 |

## FOOD TENANT EGRESS

**DISTANCE OF TRAVEL - TABLE 1017.2**
IBC 200'-0" MAX

EGRESS WIDTH REQUIRED PER IBC - SECTION 1005.3
EGRESS INCHES REQUIRED: 0.20 INCHES PER PERSON SERVED

EGRESS WIDTH REQUIRED (INCHES) EQUALS:
(AREA OCCUPANT LOAD) x (EGRESS WIDTH PER PERSON SERVED)

98 OCCUPANTS X .20 = 19.6 INCHES REQUIRED

**TOTAL INCHES REQUIRED: 19.6 INCHES REQUIRED**

(1) 4'-0" DOORS X 43 = 43 INCHES
(2) 3'-0" DOORS X 33 = 66 INCHES

**TOTAL INCHES PROVIDED: 129 INCHES**

## EGRESS PATH DISTANCE

| EXIT PATH | DISTANCE |
|---|---|
| A | 135'-8" |
| B | 43'-6" |
| C | 95'-7" |
| D | 64'-6" |
| E | 32'-1" |
| F | 82'-9" |
| G | 70'-1" |
| H | 81'-11" |
| J | 40'-0" |

## PLUMBING FIXTURE COUNTS

**TOTAL BUILDING OCCUPANT LOAD:** 335

**LOAD DISTRIBUTION:** 50% MALE AND 50% FEMALE

**DISTRIBUTION COUNT:** 168 MALE AND 167 FEMALE

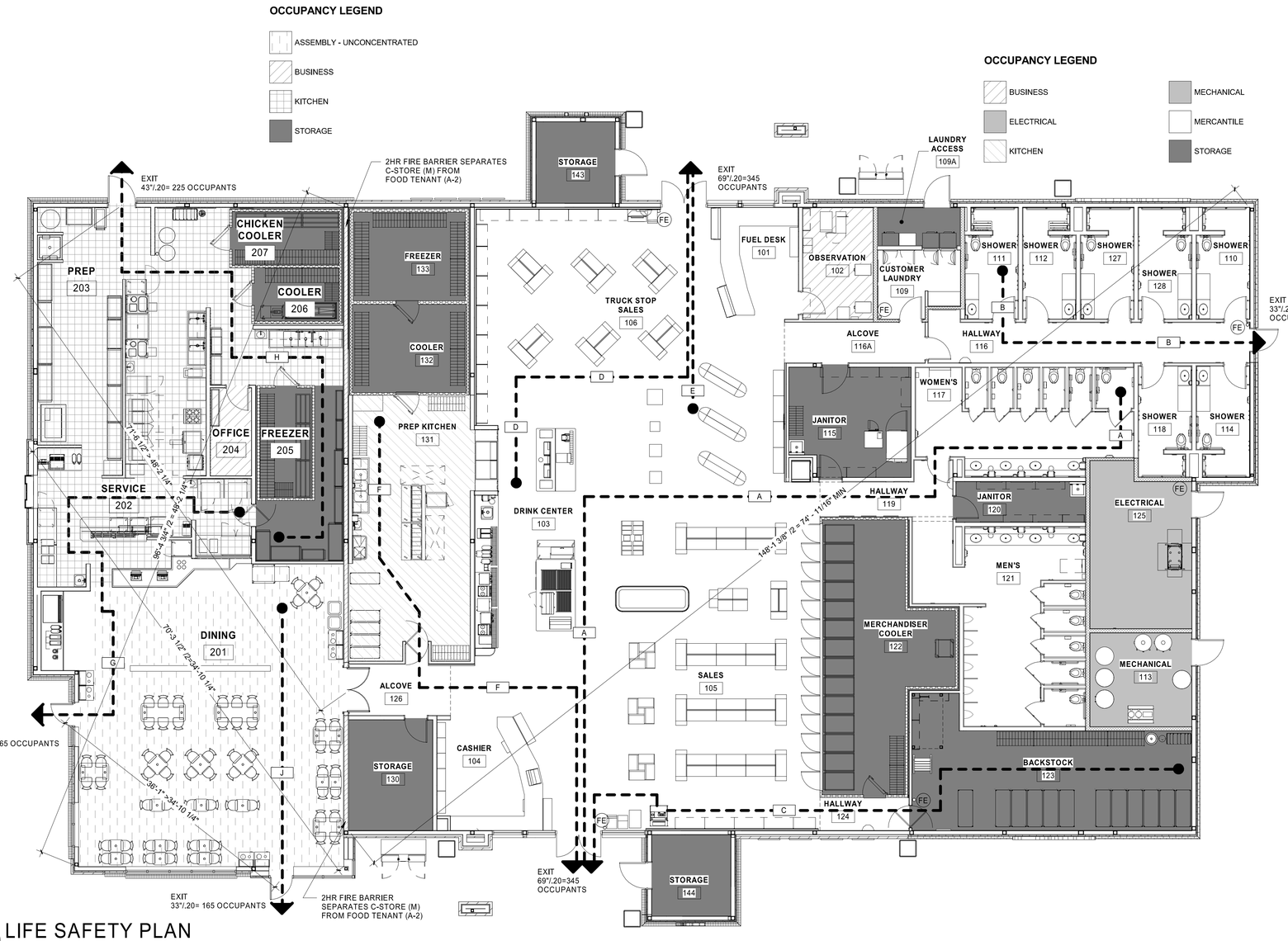
**LAVATORIES REQUIRED (PER CHAPTER 4 IPC AND CHAPTER 29 IBC):**
MALE LAVATORIES: 168/ 750 = 1
FEMALE LAVATORIES: 167/ 750 = 1

**LAVATORIES PROVIDED:**
MALE LAVATORIES: 4
FEMALE LAVATORIES: 4
UNISEX LAVATORIES: 7

**WATER CLOSETS REQUIRED (PER CHAPTER 4 IPC AND CHAPTER 29 IBC):**
MALE WATER CLOSETS: 168/ 500 = 1
FEMALE WATER CLOSETS: 167/ 500 = 1

**WATER CLOSETS PROVIDED:**
MALE WATER CLOSETS: 5 WATER CLOSETS
5 URINALS
FEMALE WATER CLOSETS: 6 WATER CLOSETS
UNISEX WATER CLOSETS: 7 WATER CLOSETS

**DRINKING FOUNTAINS REQUIRED:** (PER CHAPTER 4 IPC) WATER WILL BE PROVIDED TO OCCUPANTS IN BOTH THE C-STORE AND FOOD TENANT AT THE FOUNTAIN DRINK DISPENSERS




1 LIFE SAFETY PLAN
1/8" = 1'-0"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