

MEZZANINE:
721 SF

OCCUPANCY LEGEND

MEZZANINE AREA EQUALS LESS THAN 33% OF FLOOR AREA BELOW PER IBC 505.2.1

MEZZANINE (WAREHOUSE)

2 MEZZANINE LIFE SAFETY PLAN

1/8" = 1'-0"

FIRE DETECTION SYSTEM PER I.F.C. 3206.6 - OPTION 2

DRAFT CURTAINS I.F.C. 3206.2 I.B.C. TABLE 910.3 HIGH PILED STORAGE HIGH HAZARD COMMODITIES (OPTION 2) 6,000 SQ FT MAX AREA FORMED BY DRAFT CURTAINS, THIS NONE REQUIRED SINCE AREA IS 37'-4" X 88'-8" = 3,310 SQ FT

I.F.C. 3206.9.1.2 AISLES AT NON SPRINKLED BUILDING 96" MIN AISLE WIDTH (102" PROVIDED)

SMOKE & HEAT REMOVAL PER I.F.C. 3206.7 I.B.C. TABLE 910.3 HIGH HAZARD COMMODITIES (OPTION 2) VENT TO FLOOR AREA 1-50 37'-4" X 88'-8" = 3,310 SQ FT / 50 = 66.2 SQ FT. (2) 63" X 93" AUTOMATIC FIRE VENTS ARE PROVIDED (SHOWN DASHED) FOR TOTAL PROVIDED FIRE VENT AREA OF 81.38 SQ FT.

AREA OF HIGH PILED STORAGE (RACKS & 96" MIN AISLE) EQUALS LESS THAN 2,500 SQ FT PER I.F.C. TABLE 3206.2 HIGH HAZARD - NON-PUBLIC ACCESS (OPTION 2) INTERIOR AREA 37'-4" X 62'-0" = 2,315.6 SQ FT.

VOLUME OF BUILT TIRE STORAGE EQUALS LESS THAN 20,000 CU. FT. I.B.C. 903.2.9.2

4'-0" DEEP X 24'-9" LONG X 15'-6" TALL = 1,534.5 CU. FT.
X 3 ROWS
4,603.5 CU. FT.

4'-0" DEEP X 24'-6" LONG X 15'-6" TALL = 1,519.0 CU. FT.
X 3 ROWS
4,557.0 CU. FT.

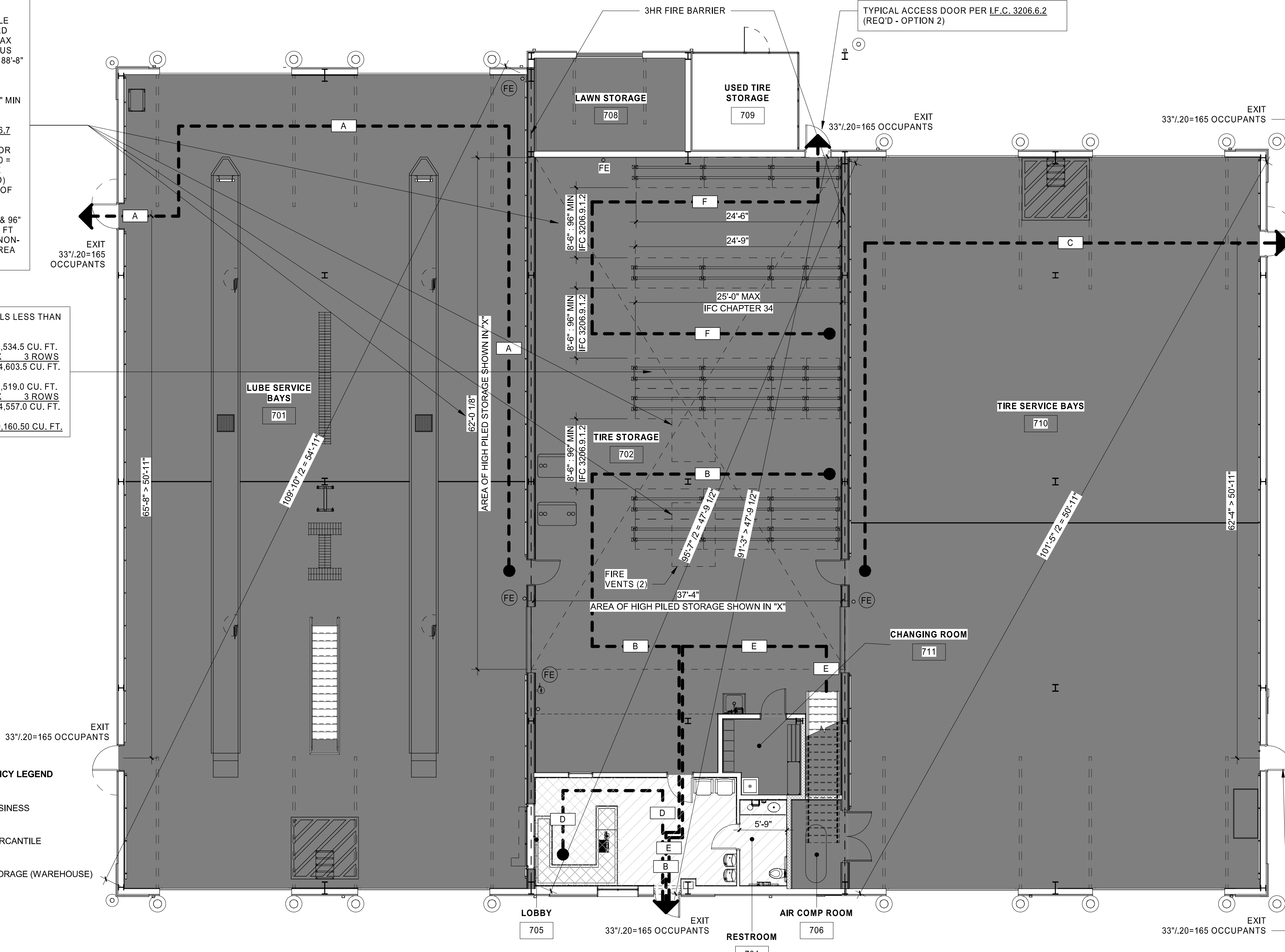
TOTAL 9,160.50 CU. FT.

OCCUPANCY LEGEND

BUSINESS

MERCANTILE

STORAGE (WAREHOUSE)



OCCUPANT LOAD			
OCCUPANCY	AREA	AREA PER OCCUPANT	OCCUPANT LOAD
BUSINESS	148 SF	100 SF	2
MERCANTILE	266 SF	30 SF	8
MEZZANINE (WAREHOUSE)	788 SF	500 SF	2
STORAGE (WAREHOUSE)	12591 SF	500 SF	26
	13794 SF		38

THE ACTUAL NUMBER OF STAFF PER SHIFT IS 3.
*ACTUAL OCCUPANCY IS 13.

SPEEDCO EGRESS			
DISTANCE OF TRAVEL - TABLE 1016.2 IBC		200'-0" MAX	
EGRESS WIDTH REQUIRED PER IBC - SECTION 1005.3		0.20 INCHES PER PERSON SERVED	
EGRESS WIDTH REQUIRED (INCHES) EQUALS: (AREA OCCUPANT LOAD) x (EGRESS WIDTH PER PERSON SERVED)			
38 OCCUPANTS	X .20	=	7.6 INCHES REQUIRED
(6) 3'-0" DOORS	X 33	=	198 INCHES
TOTAL INCHES PROVIDED:		198 INCHES	

EGRESS PATH DISTANCE	
EXIT PATH	DISTANCE
A	115'-4"
B	91'-10"
C	88'-10"
D	32'-5"
E	108'-9"
F	77'-11"

PLUMBING FIXTURE COUNTS	
TOTAL BUILDING OCCUPANT LOAD:	38
LOAD DISTRIBUTION:	50% MALE AND 50% FEMALE
DISTRIBUTION COUNT:	19 MALE AND 19 FEMALE
LAVATORIES REQUIRED (PER CHAPTER 4 IPC AND CHAPTER 29 IBC):	
MALE LAVATORIES:	19 / 750 = 1
FEMALE LAVATORIES:	19 / 750 = 1
LAVATORIES PROVIDED:	
MALE LAVATORIES:	0
FEMALE LAVATORIES:	0
UNISEX LAVATORIES:	1
WATER CLOSETS REQUIRED (PER CHAPTER 4 IPC AND CHAPTER 29 IBC):	
MALE WATER CLOSETS:	19 / 500 = 1
FEMALE WATER CLOSETS:	19 / 500 = 1
WATER CLOSETS PROVIDED:	
MALE WATER CLOSETS:	0 WATER CLOSETS
FEMALE WATER CLOSETS:	0 WATER CLOSETS
UNISEX WATER CLOSETS:	1 WATER CLOSETS
DRINKING FOUNTAINS REQUIRED:	1/400 = 1
(PER CHAPTER 4 IPC)	

FIRE EXTINGUISHER LOCATIONS (FE) = FIRE EXTINGUISHER

FIRE EXTINGUISHERS: PER TABLE 906.3(1) = INSTALL ONE 3A-40B-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.

TIRE STORAGE

BULK TIRE STORAGE (903.2.9.2): AUTOMATIC FIRE SPRINKLER REQUIRED IF THE ACTUAL VOLUME OF TIRES EXCEEDS 20,000 CU. FT.

INDOOR STORAGE ARRANGEMENT (IFC 3409.1): TIRES STORED ON TREAD SHALL NOT BE MORE THAN 25 LIN. FT. LONG

AREA MODIFICATION CALCULATION

FRONTAGE INCREASE AREA MODIFICATION (IBC 506.3) IF REQUIRED BY AHJ:

P = 434'-0"
F = 434'-0"
W = (102.5')(30') + (114.5')(30') + (102.5')(30') + (114.5')(30') = 13,020'
434'-0"

THEREFORE: W = 30'
If = [(F/P) - 0.25] / (W/30) = If = [(434'/434') - 0.25] / (30'/30) = 0.75
If = 0.75

Aa = [A + (AtxIf) + (AtxIs)]

S-1 - STORAGE Aa = [9,000SQFT + (9,000SQFT x 0.75) + (9,000SQFT x 0)]
Aa = 19,000SQFT + 6,750SQFT + 0 = 15,750 SF

MAX ALLOWABLE BUILDING AREA PER AREA MODIFICATION: 15,750 SF

1 LIFE SAFETY PLAN

1/8" = 1'-0"

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Love's

STORE NUMBER: 860
I-59, EXIT 1
NICHOLSON, MS 39466

JOB NUMBER: 03-23-30009

ISSUE BLOCK

NO.	DESCRIPTION	DATE

CHECKED BY: MAP
DRAWN BY: ASE
DOCUMENT DATE: 02/06/23
PROTO: SPEEDCO_4 BAY
PROTO CYCLE: Q4 - 2022

REGISTERED ARCHITECT
BOGUE L. EBBRECHT

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LIFE SAFETY PLAN

SHEET:
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