

LIFE SAFETY CODE SUMMARY

APPLICABLE CODES & STANDARDS

INTERNATIONAL BUILDING CODE, 2018 EDITION (IBC)
INTERNATIONAL EXISTING BUILDING CODE, 2018 EDITION (IEBC)
INTERNATIONAL FIRE CODE, 2018 EDITION (IFC)
INTERNATIONAL PLUMBING CODE, 2018 EDITION (IPC)
INTERNATIONAL MECHANICAL CODE, 2018 EDITION (IMC)
NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2016 EDITION
NFPA 70, NATIONAL ELECTRICAL CODE, 2017 EDITION (NEC)

OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION		REFERENCE	
MIXED-USE	NONSEPARATED	IBC §508.3	
OCCUPANCIES		~AREA (SF)	
BUSINESS GROUP B	OFFICES	1,426	IBC §304.1
MERCANTILE GROUP M	STORE	2,429	IBC §309.1
STORAGE GROUP S-2	WAREHOUSE & FREEZERS/COOLERS	6,746	IBC §311.3
ACCESSORY OCCUPANCIES		IBC §508.2	
ASSEMBLY GROUP A-2	KITCHEN	237	IBC §303.3
ASSEMBLY GROUP A-3	RECEPTION	335	IBC §303.4

CONSTRUCTION

CONSTRUCTION CLASSIFICATION		REFERENCE	
CONSTRUCTION TYPE IIB		IBC TABLE 601 & §602.2	
BUILDING ELEMENT	FR	REFERENCE	
PRIMARY STRUCTURAL FRAME	0-HOUR	IBC TABLE 601 & 602	
BEARING WALLS (INTERIOR & EXTERIOR)	0-HOUR	IBC TABLE 601 & 602	
NONBEARING WALLS (INTERIOR & EXTERIOR)	0-HOUR	IBC TABLE 601 & 602	
FLOOR CONSTRUCTION	0-HOUR	IBC TABLE 601 & 602	
ROOF CONSTRUCTION	0-HOUR	IBC TABLE 601 & 602	

BUILDING HEIGHT, STORIES, & AREA

LIMITATION/ACTUAL	HEIGHT	STORIES	AREA PER STORY	REFERENCE
MAXIMUM	55 FEET	2	12,500 SQUARE FEET	IBC §§ 504 & 506
ACTUAL	30 FEET	1	~11,173 SF (NEW 4,646 SF)	

INTERIOR FINISH

		CLASS	REFERENCE
COMPONENT			
EXIT ACCESS CORRIDORS		B	IBC TABLE 803.13
ALL OTHER COMPONENTS		C	IBC TABLE 803.13

MEANS OF EGRESS

EGRESS CAPACITY		FACTOR	REFERENCE
LEVEL EGRESS COMPONENT		0.20 IN/PERSON	IBC §1009.3

OCCUPANT LOAD

		FACTOR	REFERENCE
COMPONENT			
ASSEMBLY, UNCONCENTRATED		15 SF/PERSON (NET)	IBC TABLE 1004.1.2
BUSINESS AREAS (INCLUDING CIRCULATION)		150 SF/PERSON (GROSS)	IBC TABLE 1004.1.2
KITCHENS		200 SF/PERSON (GROSS)	IBC TABLE 1004.1.2
MERCANTILE		60 SF/PERSON (GROSS)	IBC TABLE 1004.1.2
MERCANTILE - STORAGE AREAS		300 SF/PERSON (GROSS)	IBC TABLE 1004.1.2

NUMBER OF EXITS

		MIN. # OF EXITS	REFERENCE
APPLICATION			
GROUP A - OCCUPANT LOAD < 50 COMMON PATH < 75 FT		1	IBC TABLE 1006.2.1
GROUP B - OCCUPANT LOAD < 50 COMMON PATH < 75 FT		1	IBC TABLE 1006.2.1
GROUP M - OCCUPANT LOAD < 50 COMMON PATH < 75 FT		1	IBC TABLE 1006.2.1
GROUP S-2 - OCCUPANT LOAD < 30 COMMON PATH < 75 FT		1	IBC TABLE 1006.2.1
OCCUPANT LOAD < 500 PER STORY		2	IBC §1006.3.1

EXIT SEPARATION

		SEPARATION	REFERENCE
APPLICATION			
MINIMUM 2 EXITS OR EXIT ACCESS REQUIRE	1/2 OVERALL DIAGONAL DIM. OF SPACE		IBC §1007.1.1

MAXIMUM EXIT ACCESS TRAVEL DISTANCES

OCCUPANCY	DEAD-END CORRIDOR	TRAVEL	COMMON PATH	REFERENCE
GROUP A	20 FT	200 FT	75 FT	IBC §§ 1006.2, 1017.2, 1020.4
GROUP B	20 FT	200 FT	75 FT	IBC §§ 1006.2, 1017.2, 1020.4
GROUP M	20 FT	200 FT	100 FT	IBC §§ 1006.2, 1017.2, 1020.4
GROUP S-2	20 FT	300 FT	100 FT	IBC §§ 1006.2, 1017.2, 1020.4

MINIMUM EGRESS WIDTHS

		MINIMUM WIDTH ¹	REFERENCE
COMPONENT			
DOOR		32 INCHES	IBC §1010.1.1
CORRIDOR - OCCUPANT LOAD ≥ 50		44 INCHES	IBC TABLE 1020.2
CORRIDOR - OCCUPANT LOAD < 50		36 INCHES	IBC TABLE 1020.2

¹THE MINIMUM WIDTH SHALL NOT BE LESS THAN THE CALCULATED MINIMUM EGRESS CAPACITY FOR THE RESPECTIVE SPACE

DOOR SWING & PANIC HARDWARE

		REQUIREMENT	REFERENCE
APPLICATION			
OCCUPANT LOAD > 50	SWING IN DIRECTION OF EGRESS TRAVEL		IBC §1010.1.2.1
OCCUPANT LOAD > 50	PANIC OR FIRE EXIT HARDWARE REQUIRED		IBC §1010.1.10

MEANS OF EGRESS ILLUMINATION

		LOCATION	REFERENCE
APPLICATION			
NORMAL POWER	MEANS OF EGRESS SERVING AN OCCUPIED ROOM/SPACE		IBC §1008.2
NORMAL POWER	EXIT DISCHARGE TO PUBLIC WAY		IBC §1008.2.3
EMERGENCY POWER	EXIT ACCESS SERVING SPACE REQUIRING ≥ 2 EXITS		IBC §1008.3.1
EMERGENCY POWER	EXIT DISCHARGE EXTERIOR LANDING & VESTIBULES		IBC §1008.3.2
EMERGENCY POWER	ELECTRICAL & RESTROOMS > 300 SF		IBC §1008.3.3

EXIT SIGNS

		LOCATION	REFERENCE
TYPE			
ILLUMINATED	ROOM OR SPACE REQUIRING ≥ 2 EXITS		IBC §1013.1
ILLUMINATED	PATH TO EXITS & WITHIN EXITS		IBC §1013.1
ILLUMINATED	WHERE THE PATH OF TRAVEL IS NOT IMMEDIATELY VISIBLE		IBC §1013.1
ILLUMINATED	AT INTERVENING MEANS OF EGRESS DOORS WITHIN EXITS		IBC §1013.1
ILLUMINATED	NO GREATER THAN 100 FT WITHIN A CORRIDOR/PASSAGE		IBC §1013.1

FIRE & LIFE SAFETY SYSTEMS

FIRE ALARM SYSTEM	NOT REQUIRED	IBC §907.2
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AUTOMATIC SPRINKLER PROTECTION	NOT REQUIRED	IBC §903.2
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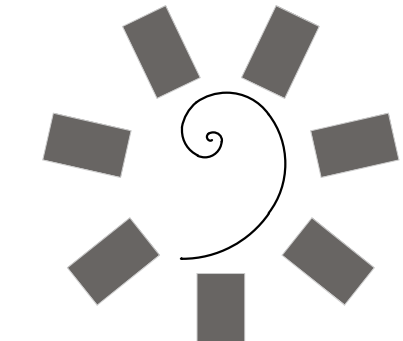
REQUIREMENT		REFERENCE
GROUP M - NOT REQUIRED, FIRE AREA LESS THAN 12,000 SF		IBC §903.2.7
GROUP S-2 - NOT REQUIRED, FIRE AREA LESS THAN 12,000 SF		IBC §903.2
STORAGE HEIGHT - CLASS I-IV COMMODITIES < 12 FT HIGH-HAZARD COMMODITIES < 5 F IFC TABLE 3206.2		

PORTABLE FIRE EXTINGUISHERS

		THROUGHOUT THE BUILDING		IBC §906
HAZARD TYPE	APPLICATION	REFERENCE		
CLASS A	INVOLVING ORDINARY COMBUSTIBLES			NFPA 10 §§ 2.1
CLASS B	INVOLVING FLAMMABLE & COMBUSTIBLE LIQUIDS			NFPA 10 §§ 2.2
CLASS C	INVOLVING ENERGIZED ELECTRICAL EQUIPMENT			NFPA 10 §§ 2.2
PRIMARY BUILDING HAZARD	PFE TYPE	MAX. AREA	MAX. TRAVEL DISTANCE	REFERENCE
CLASS A	ABC	11,250 SF	75 FT TO PFE	NFPA 10 TABLE 6.2.1.1

PLUMBING FIXTURE COUNT

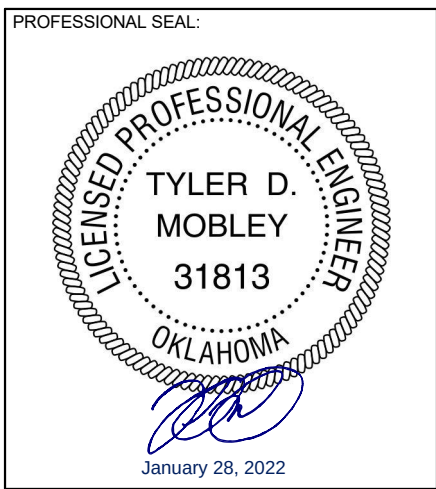
Use	Occupant Load	Water Closet		Lavatory		Bathtub/ Shower	Drinking Fountain	Service Sink
		Male	Female	Male	Female			
Business	33	2	2	1	1	-	1	1
Mercantile	40	1	1	1	1	-	1	1
Storage	22	1	1	1	1	-	1	1
Total	96	2	2	1	1	-	1	1



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PROFESSIONAL SEAL:



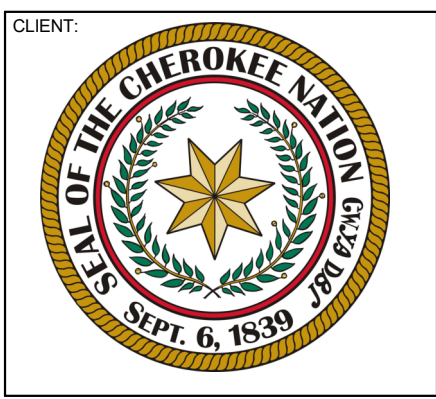
CONSULTANT LOGO



Mobley Fire Protection Engineering, LLC
6242 Llano Avenue
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mobley@com

OK Registered PE Firm 8650

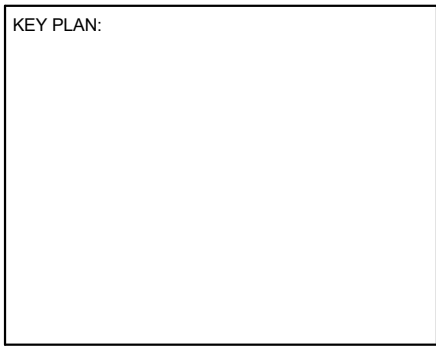
CLIENT:



CHEROKEE NATION FOOD DISTRIBUTION CENTER

STILWELL, OK

KEY PLAN:



PROJECT PHASE:

100% CONSTRUCTION DOCUMENTS

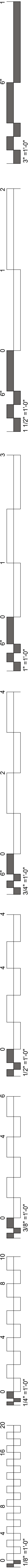
#	DATE	REVISIONS DESCRIPTION

DATE: 01-28-2022

JOB NUMBER: 18-01.19K

SHEET NUMBER: LS.00

LIFE SAFETY CODE SUMMARY



OCCUPANT LOAD

Use/ Function	Floor Area (ft ²)	Gross/Net	Factor (ft ² /person)	Occupant Load
Assembly - Unconcentrated	335	Net	15	22
Business	1,426	Gross	150	10
Kitchens (Commercial)	237	Gross	200	1
Mercantile	2,429	Gross	60	40
Mercantile - Storage, Stock, Shipping	6,746	Gross	300	22
Total Floor Area	11,173	Total Occupant Load		96

EGRESS CAPACITY

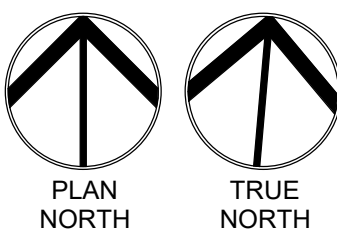
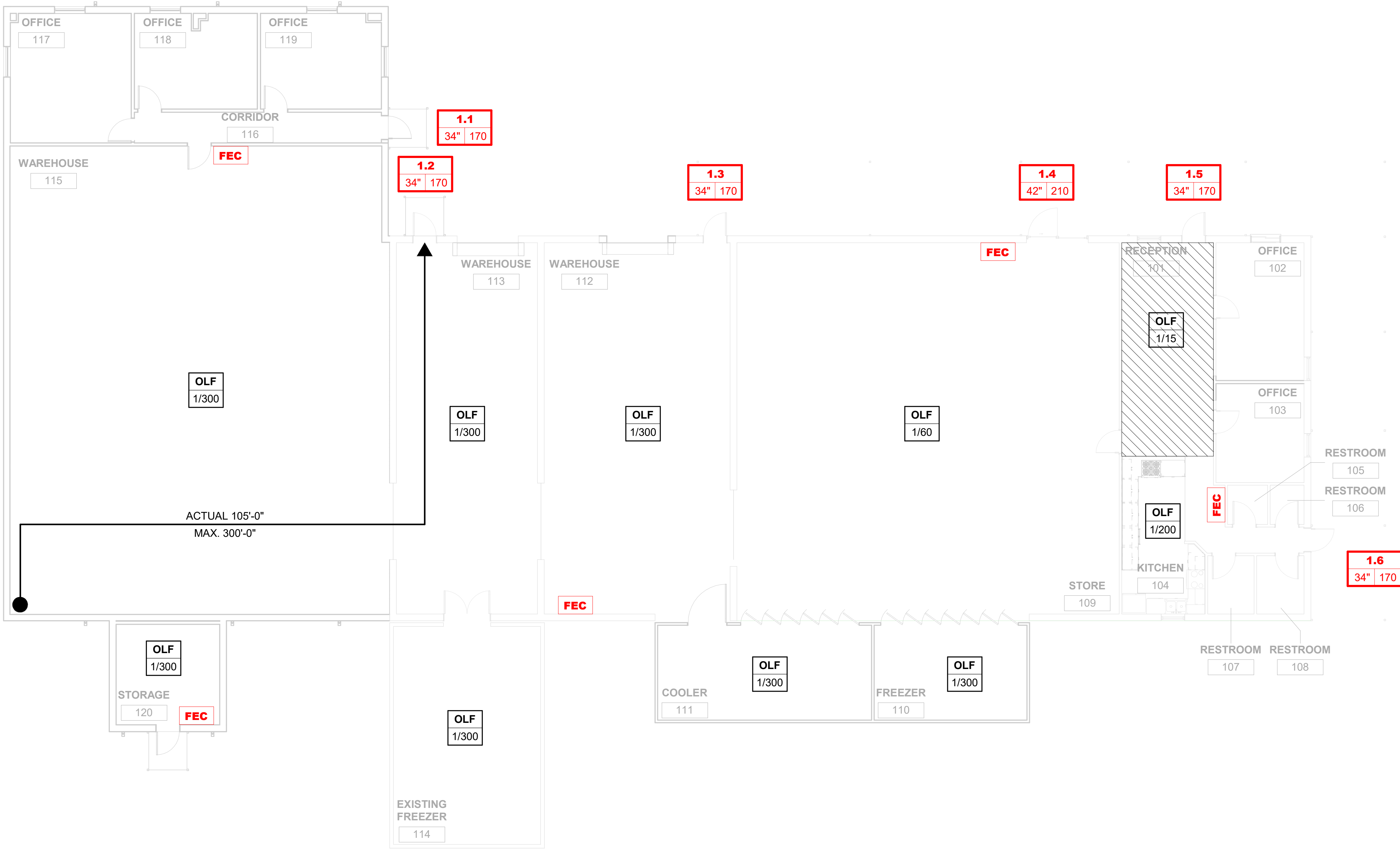
Exit	Limiting Component	Exit Width (in)	Factor (in/person)	Egress Capacity
1. 1	Door	34.0	0.2	170
1. 2	Door	34.0	0.2	170
1. 3	Door	34.0	0.2	170
1. 4	Door	42.0	0.2	210
1. 5	Door	34.0	0.2	170
1. 6	Door	34.0	0.2	170
Total Egress Capacity				1,060

SHEET NOTES

- ALL AREAS ARE BUSINESS USE AREAS WITH AN OCCUPANT LOAD FACTOR OF 1 OCCUPANT PER 150 SQUARE FEET, UNLESS INDICATED OTHERWISE.
- REFER TO THE CODE SUMMARY ON SHEET LS.00 FOR FURTHER INFORMATION.

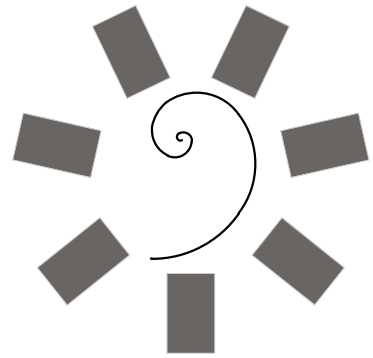
LIFE SAFETY LEGEND

- ACTUAL X'-X" MAX. X'-X" → EXIT ACCESS TRAVEL DISTANCE
- ▨ NET AREA (OCCUPANT LOAD)
- X.X**
X' XX" EXIT ID (ACTUAL WIDTH & EGRESS CAPACITY)
- OLF
1/X OCCUPANT LOAD FACTOR
- FEC** PORTABLE FIRE EXTINGUISHER



01 LIFE SAFETY PLAN

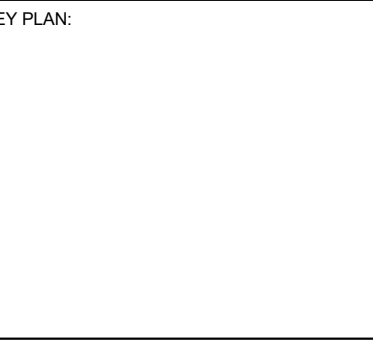
1/8" = 1'-0"



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LIFE SAFETY PLAN