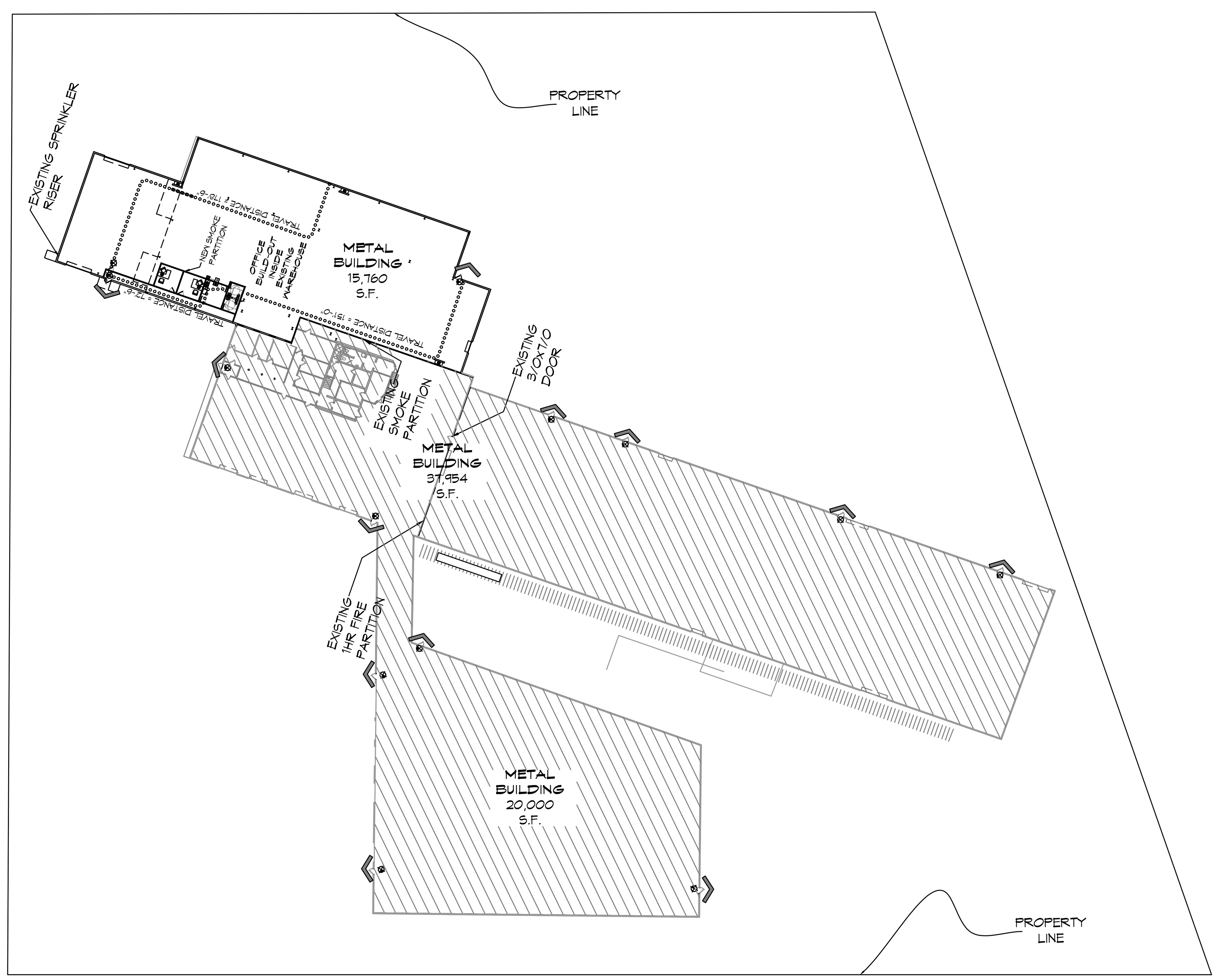
FILE NAME: J:\- Office Warehouse\2474 - Poncho - Carnation Dr\Drawings\Current\G102 Life Safety.dwg PLOT DATE & TIME: Friday, May 5, 2023 8:22:26 AM

LIFE-SAFETY LEGEND

SYMBOL	DESCRIPTION
〉	EXITS
⊗	EXIT LIGHT
FEC	FIRE EXTINGUISHER AND CABINET
○○○○○○○○○○	TRAVEL DISTANCE
- - - - - -	SMOKE PARTITION
—— - ——	ONE-HOUR FIRE RATED PARTITION



2 LIFE-SAFETY PLAN
SCALE: 1" = 50'-0"

LIFE-SAFETY INFORMATION

APPLICABLE CODES
NFPA 101 LIFE-SAFETY CODE 2015

OCCUPANCY TYPE(S) AND CHAPTER(S)
STORAGE (CHAPTER 42)

MULTIPLE, MIXED, OR SEPARATE OCCUPANCY *(REFERENCE CHAPTER 6)*
N/A

CLASSIFICATION OF HAZARD OF CONTENTS
ORDINARY HAZARD *(SECTION 6.2.2)*
(REFERENCE: OCCUPANCY CHAPTER AND 6.2.2: SPECIFY LOW, ORDINARY, OR HIGH)

CONSTRUCTION TYPE(S) *(REFERENCE: CHAPTER8, TABLE A.8.2.1.2 AND COMMENTARY TABLE 8.1 IN HANDBOOK)*
III(200)

MINIMUM CONSTRUCTION REQUIREMENTS *(REFERENCE OCCUPANCY CHAPTER)*
N/A

APPLICABLE DEFINITIONS *(REFERENCE: CHAPTER 2)*
N/A

OCCUPANCY
OCCUPANCY LOAD CALCULATIONS *(REFERENCE: TABLE 7.3.1.2)*
FIRST FLOOR

OCC/FUNCTION OF SPACE	FLOOR AREA PER OCC (SF) X	ACTUAL SF	OCCUPANT LOAD
STORAGE	500	16,539	33

INCIDENTAL USE AREAS AND REQUIRED SEPARATION

ROOM OR AREA	SEPARATION
OFFICE	SMOKE

MEANS OF EGRESS
NUMBER OF EXITS (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
2

MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS
(REFERENCE: SECTION 7.5; SPECIFY 1/2 OR 1/3 DIAGONAL DISTANCE OF AREA SERVED)
1/3 DIAGONAL = 216' / 3 = 72'-0"

MAXIMUM DEAD-END CORRIDORS *(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)*
NR

MAXIMUM COMMON PATH OF TRAVEL DISTANCE *(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)*
NR

MAXIMUM TRAVEL DISTANCE TO EXITS *(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)*
NR

AREA OF REFUGE REQUIREMENTS *(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.2.12)*
N/A

CORRIDOR OR PASSAGEWAY WIDTH REQUIREMENTS
(REFERENCE: OCCUPANCY CHAPTER, TABLE 7.2.2.2.1.1(A) OR (B), AND TABLE 7.2.2.2.1.2(B))
36"

STAIR WIDTH REQUIREMENTS
(REFERENCE: OCCUPANCY CHAPTER, TABLE 7.2.2.2.1.1(A) OR (B), AND TABLE 7.2.2.2.1.2(B))
36"

ACCESSIBILITY REQUIREMENTS FOR EGRESS COMPONENTS *(7.5.4)*
N/A

CAPACITY OF MEANS OF EGRESS *(REFERENCE: 7.3 AND TABLE 7.3.3.1)*

COMPONENT	OCCUPANT LOAD	X CAPACITY FACTOR	MINIMUM WIDTH
EXITS	NR	N/A	NR

FIRE RESISTANCE RATING REQUIREMENTS
CHAPTER 8

EXTERIOR BEARING WALLS	(REFERENCE TABLE A.8.2.1.2	2 HOURS
INTERIOR BEARING WALLS	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
COLUMNS	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
BEAMS, GIRDERS, TRUSSES, AND ARCHES	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
FLOOR-CEILING ASSEMBLIES	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
ROOF-CEILING ASSEMBLIES	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
INTERIOR NON-BEARING WALLS	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
EXTERIOR NON-BEARING WALLS	(REFERENCE TABLE A.8.2.1.2)	0 HOURS
SHAFT ENCLOSURE	(SECTION 8.6.5)	0 HOURS
EXIT ENCLOSURE		1 HOUR
EXIT PASSAGEWAY / EXIT ACCESS CORRIDORS		N/A
HORIZONTAL EXIT		2 HOURS
ATRIUMS		N/A
MEZZANINES		
CONCEALED SPACES AND DRAFTSTOPS		N/A
STORAGE, BOILER, OR FURNACE ROOMS		N/A
COMMUNICATING SPACES	(SECTION 8.6.6)	N/A

OPENING PROTECTIVES *(CHAPTER 8, TABLE 8.3.4.2)*

COMPONENT	WALLS & PART FIRE RATING (HR)	FIRE DOOR ASSEMBLIES	FIRE WINDOW ASSEMBLIES (HR)
SMOKE PARTITION	1/2 HR	1/3 HR	1/3 HR

ADDITIONAL CODE REQUIREMENTS	*(OCCUPANCY CHAPTER 36)*
EXTINGUISHMENT REQUIREMENTS	**SPRINKLER (REQUIRED)**
SUBDIVISION OF BUILDING SPACE	N/A
DETECTION, ALARM, AND COMMUNICATION SYSTEMS	N/A (42.3.4.1.2)
EMERGENCY LIGHTING	PER 42.2.9
OTHER	N/A
ALLOWABLE HEIGHT AND BUILDING AREA	PER IBC EQUIVALENT CONSTRUCTION TYPE
CONSTRUCTION TYPE (NFPA)	III(200)
CONSTRUCTION TYPE (IBC)	IIIB (UNLIMITED AREA BUILDING - SECTION 507)
MAXIMUM HEIGHT IN STORIES *(REFERENCE: IBC TABLE 503)*	1 PER IBC SECTION 507
MAXIMUM HEIGHT IN FEET *(REFERENCE: IBC TABLE 503)*	N/A
MAXIMUM AREA IN SQUARE FEET *(REFERENCE: IBC TABLE 503)*	96,250 S.F. PER SECTION 506

BUILDING CODE INFORMATION

APPLICABLE CODES
IBC 2021

OCCUPANCY TYPE OF GROUP(S) *(IBC 2009 CHAPTER 13)*
STORAGE S-1 (MODERATE HAZARD)

CONSTRUCTION TYPE(S) *(TABLE 503)*
IIIB FULLY SPRINKLED = S1

ALOWABLE HEIGHT AND BUILDING AREA LIMITED BY TYPE OF CONSTRUCTION

MAXIMUM HEIGHT IN STORIES *(SECTION 503 & 504, TABLE 504.4)*		4	
MAXIMUM AREA IN SQUARE FEET FOR S1 *(SECTION 503, 506 & 507, TABLE 506.2)*			70,000
ALLOWABLE AREA	SEE CALCULATIONS BELOW	96,250 s.f.	EXISTING = 73,714 s.f.

MIXED USED OCCUPANCY
SECTION 508
INCIDENTAL ACCESSORY OCCUPANCIES (HR) *(TABLE 508.2.5)*

OFFICE	SEPARATION
900 S.F.	N/A

REQUIRED SEPARATION OF OCCUPANCIES (HR) *(TABLE 508.4)*
NONE REQUIRED

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS
CHAPTER 6, TABLE 601

STRUCTURAL FRAMES	0 HOURS
EXTERIOR BEARING WALLS	2 HOURS
INTERIOR BEARING WALLS	0 HOURS
EXTERIOR NON-BEARING WALLS	0 HOURS
INTERIOR NON-BEARING WALLS	0 HOURS
FLOOR CONSTRUCTION (INC SUPPORTING BEAMS & JOISTS)	0 HOURS
ROOF CONSTRUCTION (INC SUPPORTING BEAMS & JOISTS)	0 HOURS
FIRE-RESISTANCE RATING FOR EXT WALLS BASED ON FIRE-SEPARATION DISTANCE *(TABLE 705.5)*	0 HOURS

MAXIMUM AREA OF EXTERIOR WALL OPENINGS *(TABLE 705.8)*

NOTES ON SPECIFIC, PERTINENT PLAN ISSUES
20' SEPARATION UNLIMITED (UNPROTECTED, SPRINKLERED)

FIRE WALLS
SECTION 706, TABLE 706.4
REQUIRED? NO
IF YES THEN NOTE REQUIRED RATING

FIRE BARRIERS
SECTION 707

CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.2)	0 HRS WITH SPRINKLER SYSTEM
EXIT ENCLOSURE - NOTE REQUIRED RATING *(SECTION 1022.1)*	1 HOUR
EXIT PASSAGEWAY - NOTE REQUIRED RATING *(SECTION1023.3)*	1 HOUR
HORIZONTAL EXIT - NOTE REQUIRED RATING *(SECTION 1025.1)*	2 HOURS
ATRIUMS - NOTE REQUIRED RATING *(SECTION 404.6)*	N/A
SEPARATION FROM STAGE *(SECTION 410.5)*	N/A

OCCUPANT LOADS
IBC 2021. SECTION 1004, TABLE 1004.1.1)

OCCUPANCY/FUNCTION SPACE	FOOR AREA/OCCUPANT (SF)	X ACTUAL SF	OCCUPANT LOAD
S - WAREHOUSE	500	16,539	33

EXIT REQUIREMENTS
(IBC 2021 SECTION 1005)
NUMBER OF ACCESSIBLE MEANS OF EGRESS REQUIRED PER FLOOR *(TABLE 1015.1 & 1021.1)*

FLOOR	# MEANS OF EGRESS REQUIRED
WAREHOUSE	2

TOTAL WIDTH OF EXITS
(OCCUPANT LOAD/# OF MEANS OF EGRESS) X (FACTOR IN SECTION 1005)

OCCUPANT LOAD	# OF EXITS PROVIDED	MULTIPLIER *(SECTION 1005.3.2)*	MINIMUM EXIT WIDTH (INCHES)
33	2	0.2	13.2

MAXIMUM EXIT ACCESS TRAVEL DISTANCE	*(TABLE 1017.2)*	250'
MINIMUM CORRIDOR WIDTH	*(TABLE 1020.3)*	44"
MAXIMUM DEAD END CORRIDOR	*(SECTION 1020.5)*	50'
MAXIMUM COMMON PATH OF TRAVEL	*(SECTION 1030.7)*	400'

WIND SPEED DESIGN REQUIREMENTS

THIS BUILDING SHALL BE DESIGNED WITH IBC SEC 1609 AS A FULLY ENCLOSED BLDG USING THE FOLLOWING INFORMATION:

WIND DESIGN DATA:

DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.3

WIND SPEED V Basic =		142MPH	
NOMINAL DESIGN WIND SPEED Vasd =		110 MPH ($V \times (0.6)^{\frac{1}{2}}$)	
RISK CATEGORY:	CATEGORY II BLDG	SURFACE ROUGHNESS =	B
TOPOGRAPHIC FACTOR =	1	EXPOSURE =	B
INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 TABLE 26.11-1):		± 0.18	
COMPONENTS & CLADDING PRESURE		p(+) = 19.0 psf	p(-) = 23.6 psf

LIVE LOADS (IBC SEC 1607)

OFFICE LOBBIES & CORRIDORS 1ST FLOOR	100 PSF UNIFORM & 2,000 LB CONCENTRATED
OFFICES (IBC TABLE 1607.1):	50 PSF UNIFORM & 2,000 LB CONCENTRATED
STORAGE WAREHOUSE	125 PSF UNIFORM
ROOF LIVE LOADS (IBC TABLE 1607.1):	20 PSF UNIFORM & 300 LB CONCENTRATED

SNOW LOADS (IBC SEC 1608):

GROUND SNOW LOAD (IBC FIG 1608.2):	5 PSF
RAIN LOAD DATA	6 in/hr
SEISMIC DESIGN CRITERIA	a

FLOOD ZONE INFORMATION

BASED ON THE SURVEY OF THIS PROPERTY BY J.V. BURKES AND ASSOCIATES, INC. THIS PROPERTY IS IN A SPECIAL FLOOD HAZARD AREA. F.I.R.M. COMMUNITY MAP NO 220204 0010 C; REVISED 4/21/99

FLOOD ZONE: AE BASE FLOOD ELEVATION 11.0 NGVD

ELEVATIONS REFER TO NGVD 1929 DATUM

CONTRACTOR NOTE:

EACH CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-FORCE-RESISTING COMPONENT SYSTEM OF THIS BUILDING. EACH CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK THAT THE CONTRACTOR SHALL PROVIDE PERIODIC INSPECTIONS AS REQUIRED BY SEC 1705.

ALLOWABLE BLDG AREA INCREASE

IBC 2021 506.2 & TABLES 506.3.3 AND 506.3.3.1
85% OF THE BUILDING(S)ARE UP TO 60 FT TO THE INSIDE PROPERTY LINES OR DISTANCE OF PUBLIC RIGHT OF WAY. TABLE 506.3.3.1 STATES FOR BUILDINGS THAT ARE 55 FT TO 60 FT WITH 75 TO 100% SHALL HAVE IF = 1.50
THESE BUILDINGS HAVE 85% OF THEIR PERIMETER WITH 55FT TO 60FT OF CLEAR AREA. IF = 1.50

Eqn 5-2
At = 70,000 s.f.
NS = 17,500 s.f.
Aa = [At + (NS X If)]
Aa = [70,000 + (17,500 X 1.50)]
Aa = 96,250 s.f.

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REVISIONS

#	DESCRIPTION	DATE

SEAL: STATE OF LOUISIANA BRIAN A. MISTICH License No. 30187 PROFESSIONAL ENGINEER 5/5/2023

OFFICE BUILD-OUT INSIDE WAREHOUSE
CARNATION PROPERTIES, L.L.C.
646 CARNATION ST
SLIDELL, LA

JOB No:	2474	DATE:	3/28/2023
DRAWN BY:	DPD	CHECKED BY:	CD

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SHEET TITLE:
LIFE-SAFETY AND CODE INFORMATION

DRAWING NUMBER:
G102

SHEET No: 2 of 8