



| REV | DATE       | REVISION / ISSUE NAME |
|-----|------------|-----------------------|
| -   | 04/14/2023 | PERMIT                |

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| PROJECT NO<br>2220380 | DRAWN BY<br>JB |
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| PERMIT SUB DATE<br>04/14/2023 | CHECKED BY<br>RD |
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| PROJECT<br><b>FOOD LION STORE #2594</b>              |
| 3260 RAY ROAD<br>SPRING LAKE, NC 28390<br>2594FLMK23 |

|   |
|---|
| CLIENT<br><b>FOOD LION</b>  |
| 2110 EXECUTIVE DRIVE<br>SALISBURY, NC 28145<br>PH: 704-633-8250 F: 704-636-5940 |

|   |
|---|
| SHEET TITLE<br><b>LIFE SAFETY EGRESS PLAN</b> |
|---|

|                          |              |
|--------------------------|--------------|
| SHEET NO<br>2594G1.03_00 | REV<br>G1.03 |
|--------------------------|--------------|

**LEGEND AND NOTES**

|  |   |
|--|---|
|  | PREP/STORAGE (AREA) (OCC. LOAD)                               |
|  | ACCESSORY (AREA) (OCC. LOAD)                                  |
|  | SALES AREAS (AREA) (OCC. LOAD)                                |
|  | EXISTING EXIT LIGHT W/ BATTERY BACKUP RE: ELECTRICAL          |
|  | NEW AND RELOCATED EXIT LIGHT W/ BATTERY BACKUP RE: ELECTRICAL |
|  | EGRESS ROUTE & FURTHEST POINT TRAVEL DISTANCE                 |
|  | TRAVEL DISTANCE   |
|  | FIRE EXTINGUISHER, WALL MOUNTED (F.E.) RE: NFPA-101           |
|  | EXISTING EMERGENCY LIGHTS                                     |
|  | NEW EMERGENCY LIGHTS  |
|  | DOOR CLEAR WIDTH DOOR OCC. LOAD                               |
|  | EXIT 33" [165]  |

**AREA CALCULATION**

|   |                       |
|---|-----------------------|
| GENERAL SALES, CIRCULATION, RESTROOMS:                    | 24,679 SQ. FT.        |
| STORAGE, RECVG, COOLERS, FREEZERS, PREP AREAS, BOH AREAS: | 8,585 SQ. FT.         |
| OFFICES:  | 1,025 SQ. FT.         |
| <b>GROSS TOTAL</b>  | <b>34,289 SQ. FT.</b> |

**CODE STUDY** (NC. BUILDING CODE 2018)

**EXIT ANALYSIS**

MAXIMUM OCCUPANT LOAD: (CHAPTER 10 TABLE 1004.1.1)

MERCANTILE (GRADE FLOOR - AREAS OPEN TO PUBLIC): 60 SQ.FT. / PERSON  
GENERAL SALES AREA, CIRCULATION, RESTROOMS: 24,679 SQ.FT. / 60 SQ. FT. = 411 OCC.

ACCESSORY AREAS (OFFICE USE): 100 SQ.FT. / PERSON  
OFFICES: 1,025 SQ.FT. / 100 S.F. = 10 OCC.

STORAGE, STOCK AND SHIPPING AREAS (AREAS NOT OPEN TO PUBLIC): 300 SQ.FT./PERSON  
STORAGE, RECEIVING, COOLERS, FREEZERS, PREP AREAS, BACK OF HOUSE AREAS: 8,585 SQ. FT. / 300 SQ.FT. = 29 OCC.

**TOTAL OCCUPANT LOAD: 411 + 10 + 29 = 450 OCC**

EXITS AND MEANS OF EGRESS: (CHAPTER 10 SEC. 1005.1 AND TABLE 1021.1)  
TOTAL EGRESS WIDTH REQUIRED: (0.2" PER OCCUPANT)  
450 OCC x 0.2 = 90" MIN EGRESS WIDTH REQUIRED AND 2 EXITS REQUIRED.  
TOTAL EGRESS WIDTH PROVIDED: 471" (5 EXITS PROVIDED)

EXIT CAPACITY: (NFPA 101-CHAPTER 36.2.5.7)  
CUSTOMER ENTRANCE AT FRONT OF STORE MUST PROVIDE 1/2 OF TOTAL EGRESS WIDTH REQUIRED. 1/2 x 90" = 45" (303" PROVIDED)

EGRESS THROUGH CHECKSTANDS: (NFPA 101-CHAPTER 36.2.5.8)  
LESS THAN 1/2 OF REQUIRED EXITS ALLOWED THROUGH CHECKSTANDS: 0 EXIT THRU CHECKSTANDS < 1 EXITS (HALF OF 3 REQUIRED EXITS)

**TOTAL EXIT WIDTHS PROVIDED = 471"**  
(2) 109" = 218" (THRU FRONT WALL)  
(1) 85" = 85" (THRU FRONT WALL)  
(1) 45" = 45" (SALES AREA SIDE EXIT)  
(1) 33" = 33" (SALES AREA SIDE EXIT)  
(2) 45" = 90" (BACK AREA)

MAXIMUM TRAVEL DISTANCE TO EXIT IN SPRINKLERED BUILDING: 250 FT (TABLE 1016.1)  
MAXIMUM LENGTH OF DEAD END CORRIDOR: 90 FT (SEC. 1018.4 - EXCEPTION 2)  
MIN. CORRIDOR WIDTH: 44" (SEC. 1018.2)  
MIN. AISLE WIDTH: 36" (SEC. 1017.2)

**PLUMBING FACILITIES:** (2018 NC. PLUMB. TABLE 403.1- NO. 6)

|   | REQUIRED | PROVIDED                   |
|---|----------|----------------------------|
| TOTAL OCCUPANT LOAD: 450<br>OCCUPANTS EA. SEX : 225 |          |                            |
| WATER CLOSETS (MALE): 1/500                         | 1        | 2 WATER CLOSET<br>1 URINAL |
| WATER CLOSETS (FEMALE): 1/500                       | 1        | 3 WATER CLOSET             |
| LAVATORIES (MALE): 1/750                            | 1        | 2                          |
| LAVATORIES (FEMALE): 1/750                          | 1        | 2                          |
| DRINKING FOUNTAINS: 1/1000                          | 1        | 2 (1 HIGH / 1 LOW)         |
| SERVICE SINK:                                       | 1        | 3                          |

**LIFE SAFETY GENERAL NOTES:**

- MERCANTILE OFFICE ALTERATION DESIGNED UNDER LIST CODE.
- THIS BUILDING IS TYPE II-B CONSTRUCTION, MERCANTILE OCCUPANCY, SPRINKLER.
- MAXIMUM ALLOWABLE EXIT ACCESS DISTANCE = 250' (MERCANTILE)
- MAXIMUM ALLOWABLE COMMON PATH OF TRAVEL DISTANCE = 75'
- MAXIMUM ALLOWABLE DEAD END TRAVEL DISTANCE IN CORRIDORS = 20'
- CLEAR OPENING WIDTH FOR A SINGLE 36" WIDE DOOR SHOULD BE CONSIDERED 33" TO COMPENSATE FOR STOP, DOOR THICKNESS AND HINGE THROW.
- SEE SHEET A1.03 GENERAL NOTE #10 FOR FIRE EXTINGUISHER REQUIREMENTS.
- FIRE EXTINGUISHER SIGNS FOR CURVED SURFACES (INCLUDING ROUND AND SQUARE COLUMNS) - PROVIDE 18" X 4" W GLOW-IN-THE-DARK ADHESIVE SIGN EQUAL TO BRADY SY184G (GRAINGER ITEM #32MD69).
- FIRE EXTINGUISHER SIGNS FOR FLAT WALL SURFACES - PROVIDE 18" X 4" W GLOW-IN-THE-DARK PLASTIC SIGN EQUAL TO ACCUFORM SIGNS MFXG551GP (GRAINGER ITEM #8ZWO).
- ALL EXITS ARE TO EXISTING TO REMAIN UNCHANGED UNLESS NOTED OTHERWISE.

