

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

LEAD DESIGN PROFESSIONAL:		DENNIS E. YATES, AIA				E-Mail
DESIGNER	FIRM	NAME	LICENSE	PHONE		
ARCHITECTURAL:	YCH ARCHITECTS	DENNIS E. YATES, AIA	10841	(704) 788-2000		
CIVIL/SITE DEVELOPMENT:	N/A					
ELECTRICAL:	STURGILL ENGINEERING	RANDALL W. STURGILL, PE	14676	(336) 238-1249		
FIRE ALARM:	N/A					
PLUMBING:	BOWERS CONSULTING	MICHAEL D. BOWERS, PE	41658	(704) 630-0075		
MECHANICAL:	BOWERS CONSULTING	MICHAEL D. BOWERS, PE	41658	(704) 630-0075		
SPRINKLER-STANDPIPE:	N/A					
STRUCTURAL:	ARP ENGINEERING	DEAN ARP, PE	29508	(704) 225-0079		
RETAINING WALLS >6" HIGH:	N/A					
OTHER:	N/A					

BASIC BUILDING DATA:			
CONSTRUCTION TYPE:			
(check all that apply)			
<input type="checkbox"/> I-A	<input type="checkbox"/> II-A	<input type="checkbox"/> III-A	<input type="checkbox"/> IV
<input type="checkbox"/> I-B	<input checked="" type="checkbox"/> II-B	<input type="checkbox"/> III-B	<input type="checkbox"/> V-A
			<input type="checkbox"/> V-B
SPRINKLERS:			
<input type="checkbox"/> NO	<input type="checkbox"/> PARTIAL	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NFPA 13
			<input type="checkbox"/> NFPA 13R
STANDPIPS:			
<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	CLASS <input type="checkbox"/> I	<input type="checkbox"/> II
		<input type="checkbox"/> III	<input type="checkbox"/> WET
			<input type="checkbox"/> DRY
FIRE DISTRICT:			
<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES (Primary)	FLOOD HAZARD AREA:	<input checked="" type="checkbox"/> NO
			<input type="checkbox"/> YES
BUILDING HEIGHT: (Feet) <u>32</u>			
GROSS BUILDING AREA:			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL (SQ FT)
6th FLOOR			
5th FLOOR			
4th FLOOR			
3rd FLOOR			
2nd FLOOR			
MEZZANINE			
1st FLOOR	38,158 SF		38,158 SF
BASEMENT			
TOTAL	38,158 SF		38,158 SF

INCIDENTAL USES: (Table 509)

☐ FURNACE ROOMS WHERE ANY PIECE IF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT

☐ ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER

☒ REFRIGERANT MACHINERY ROOM

☐ HYDROGEN FUEL GAS ROOMS, NOT CLASSIFIED AS GROUP H

☐ INGENERATOR ROOMS

☐ PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F

☐ IN GROUP E OCCUPANCIES, LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H

☐ IN GROUP I-2 OCCUPANCIES, LABORATORIES NOT CLASSIFIED AS GROUP H

☐ IN AMBULATORY CARE FACILITIES, LABORATORIES NOT CLASSIFIED AS GROUP H

☐ LAUNDRY ROOMS OVER 100 SQUARE FEET

☐ IN GROUP I-2, LAUNDRY ROOMS OVER 100 SQUARE FEET

☐ GROUP I-3 CELLS AND I-2 PATIENT ROOMS EQUIPPED WITH PADDED SURFACES

☐ GROUP I-2 PHYSICAL PLANT MAINTENANCE SHOPS

☐ IN AMBULATORY CARE FACILITIES AND GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS WITH CONTAINERS THAT HAVE AN AGGREGATE VOLUME OF 10 CUBIC FEET OR GREATER

☐ IN OTHER THAN AMBULATORY CARE FACILITIES AND GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET

☐ IN AMBULATORY CARE FACILITIES AND GROUP I-2 OCCUPANCIES, WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET

☐ STATIONARY STORAGE BATTERY SYSTEMS HAVING LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION LITHIUM-ION CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES ROOMS CONTAINING FIRE PUMPS

☐ ELECTRICAL INSTALLATIONS AND TRANSFORMERS

SPECIAL USES:

<input type="checkbox"/> 402	<input type="checkbox"/> 403	<input type="checkbox"/> 404	<input type="checkbox"/> 405	<input type="checkbox"/> 406	<input type="checkbox"/> 407	<input type="checkbox"/> 408	<input type="checkbox"/> 409	<input type="checkbox"/> 410	<input type="checkbox"/> 411	<input type="checkbox"/> 412	<input type="checkbox"/> 413	<input type="checkbox"/> 414	
<input type="checkbox"/> 415	<input type="checkbox"/> 416	<input type="checkbox"/> 417	<input type="checkbox"/> 418	<input type="checkbox"/> 419	<input type="checkbox"/> 420	<input type="checkbox"/> 421	<input type="checkbox"/> 422	<input type="checkbox"/> 423	<input type="checkbox"/> 424	<input type="checkbox"/> 425	<input type="checkbox"/> 426	<input type="checkbox"/> 427	<input type="checkbox"/> 428

SPECIAL PROVISIONS: ☐ NO ☐ YES
MIXED OCCUPANCY: ☒ NO ☐ YES
☐ INCIDENTAL USE SEPARATION (508.2.5) ☐ ACCESSORY OCCUPANCY (508.2)

SEPARATION: _____ **HR.** _____ **EXCEPTION:** _____

☐ NON-SEPARATED MIXED OCCUPANCY (508.3)
 THE REQUIRED TYPE OF SEPARATION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

☐ SEPARATED MIXED OCCUPANCY (508.4) - SEE BELOW FOR AREA CALCULATIONS. FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1. (508.4.2)

<u>ACTUAL AREA OF OCCUPANCY A</u>		<u>ACTUAL AREA OF OCCUPANCY B</u>		≤ 1
ALLOWABLE AREA OF OCCUPANCY A	+	ALLOWABLE AREA OF OCCUPANCY B	=	≤ 1
N/A	+	N/A	=	≤ 1

1 FRONTAGE AREA INCREASES FROM SECTION 506.3 ARE COMPUTED THUS:

A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = _____ (F)

B. TOTAL BUILDING PERIMETER = _____ (P)

C. RATIO (F/P) = _____

D. W = MINIMUM WIDTH OF PUBLIC WAY = _____ (W)

E. PERCENT OF FRONTAGE INCREASE $I_F = 100(F/P - 0.25) \times W$ = _____ (%)

2 UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.

3 MAX BLDG AREA = TOTAL NUMBER OF STORES IN THE BUILDING \times 406.5.4 (SECTION 506.2.3).

4 THE MAXIMUM AREA OF OPEN TRAFFIC GARAGES MUST COMPLY WITH 406.5.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH 412.2.

FIRE PROTECTION REQUIREMENTS:

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
EXIT SIGNS:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
FIRE ALARM:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
SMOKE DETECTION SYSTEMS:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
PANIC HARDWARE:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES

☐ PARTIAL _____

LIFE SAFETY PLAN SHEET #: SEE SHEET G1.03 FOR EXISTING CONDITIONS (PER 2018 INTERNATIONAL BUILDING CODE)

N/A	<input type="checkbox"/> Fire and/or smoke rated wall locations (Chapter 7)
N/A	<input type="checkbox"/> Assumed and real property line locations
N/A	<input type="checkbox"/> Exterior wall opening area with respect to distance to assumed property line (705.8)
NONE	<input type="checkbox"/> Existing structures within 30' of the proposed building
	<input checked="" type="checkbox"/> Occupancy types for each area as it relates to occupant load calculation (Table 1004.5)
	<input checked="" type="checkbox"/> Occupant load for each area
	<input checked="" type="checkbox"/> Exit access travel distances (1017)
	<input checked="" type="checkbox"/> Common path of travel distances (Table 1006.2.1)
	<input checked="" type="checkbox"/> Door and lengths (1020.4)
	<input checked="" type="checkbox"/> Clear exit widths for each exit door
	<input checked="" type="checkbox"/> Maximum calculated occupant load capacity each door can accommodate based on egress width (1010.1.1)
	<input checked="" type="checkbox"/> Actual occupant load for each door
N/A	A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
	<input checked="" type="checkbox"/> Location of doors with panic hardware (1010.1.10)
	<input checked="" type="checkbox"/> Location of doors with delayed egress locks and the amount of delay (1010.1.9.8.1)
N/A	<input checked="" type="checkbox"/> Location of doors with electrically locked egress (1010.1.9.9 & 1010.1.9.10)
N/A	<input checked="" type="checkbox"/> Location of doors equipped with hold-open devices
N/A	<input checked="" type="checkbox"/> Location of emergency escape windows (1030)
N/A	<input checked="" type="checkbox"/> The square footage of each fire area (903)
N/A	<input checked="" type="checkbox"/> The square footage of each smoke compartment (709)
N/A	<input type="checkbox"/> Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS							
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

NOT APPLICABLE - NO DWELLING UNITS

PLUMBING FIXTURE REQUIREMENTS									
USE		WATERCLOSETS 1:500		URINALS	LAVATORIES 1:750		SHOWERS /TUBS	DRINKING FOUNTAINS 1:1000	
502 TOTAL OCCUPANCY /2 = 251 FEH TABLE 1004.1.1, 2018 IBC		MALE	FEMALE	67% MAX.	MALE	FEMALE		REGULAR	ACCESSIBLE
SPACE	EXISTING / PROVIDED	2	3	1	2	2	N/A	1	1
	NEW	--	--	--	--	--	N/A	0	0
	REQUIRED	1	1	0	1	1	N/A	1	1

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT										MECHANICAL SUMMARY									
THERMAL ZONE:																			
WINTER DRY BULB: _____																			
SUMMER DRY BULB: _____																			
INTERIOR DESIGN CONDITIONS:																			
WINTER DRY BULB: _____																			
SUMMER DRY BULB: _____																			
RELATIVE HUMIDITY: _____																			
BUILDING HEATING LOAD: _____																			
BUILDING COOLING LOAD: _____																			
MECHANICAL SPACING CONDITIONING SYSTEM:																			
UNIT TAG: _____																			
DESCRIPTION OF UNIT: _____																			
HEATING EFFICIENCY (HSPF): _____																			
COOLING EFFICIENCY (SEER): _____																			
SIZE CATEGORY OF UNIT: _____																			
BOILER: SIZE CATEGORY OR OVERSIZED, STATE REASON: _____ CHILLER: SIZE CATEGORY OR OVERSIZED, STATE REASON: _____																			
LIST EQUIPMENT EFFICIENCIES: _____																			

ENERGY SYSTEM AND EQUIPMENT:

METHOD OF COMPLIANCE:

ENERGY CODE: ☐ PERMISSIVE ☐ PERFORMANCE

ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE):

LAMP TYPE REQUIRED IN FIXTURE:

NUMBER OF LAMPS IN FIXTURE:

BALLAST TYPE USED IN THE FIXTURE:

NUMBER OF BALLASTS IN FIXTURE:

TOTAL WATTAGE PER FIXTURE:

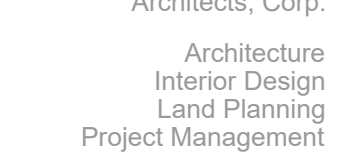
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (BUILDING AREA METHOD OR SPACE BY SPACE METHOD):

TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED:

ADDITIONAL PRESCRIPTIVE COMPLIANCE (PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE)

- ☐ C403.3.2 HVAC EQUIPMENT PERFORMANCE REQUIREMENTS
- ☐ C406.3 REDUCED LIGHTING POWER
- ☐ C403.7.4 ENERGY RECOVERY VENTILATION SYSTEMS
- ☐ C404 SERVICE WATER HEATING
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C405.2.3 DAYLIGHT-RESPONSIVE CONTROLS

SEE ELECTRICAL DRAWINGS



Professional Seals

I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland, license number 10841, expiration date 08-30-2020."



Interior Alteration For:

FOOD LION

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Revisions:

Revisions:

APPENDIX B

Architectural
G1.02
YCH Commission Number

19032.00

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