

WALMART

SUPERCENTER

KILLIAN, SC
STORE NO.: 4506-00

SF: (GROSS LEASABLE AREA) 203,710
DATE: 11/13/06
PROTO: C-195-SGR-OR

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BUILDING CODE SUMMARY

195/0010-CODE	NAME OF PROJECT: KILLIAN, SC STREET ADDRESS: I-77 & KILLIAN ROAD PROPOSED USE: RETAIL
APPLICABLE CODES:	BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE 2003 NFPA PER PROJECT MECHANICAL CODE: PER PROJECT PLUMBING CODE: PER PROJECT ELECTRIC CODE: PER PROJECT FIRE CODE: 2003 INTERNATIONAL FIRE CODE ACCESSIBILITY CODE: PER PROJECT
MIXED OCCUPANCIES:	THIS BUILDING HAS BEEN DESIGNED PER 2003 IBC SECTIONS 302.3, 302.3.1 AND 302.3.2 SECTION 302.3 (MIXED-USE) - ALLOWS FOR MIXED OCCUPANTS TO APPLY TO BOTH SECTIONS 302.3.1 AND 302.3.2 AT THE SAME TIME. SECTION 302.3.1 (NONSEPARATED USES) - APPLIES TO ALL OCCUPANCIES OF THE BUILDING FOR FIRE SEPARATION EXCEPT THE ASSEMBLY OCCUPANCIES. FOR NONSEPARATED USES - FIRE SEPARATIONS ARE NOT REQUIRED BETWEEN USES PER SECTION 302.3.1 EXCEPT AS REQUIRED BY OTHER PROVISIONS (NONE REQUIRED HERE). SECTION 302.3.2 (SEPARATED USES) - APPLIES TO THE ASSEMBLY AREAS, SINCE THE ASSEMBLY AREAS ARE LESS THAN 10% OF THE TOTAL FLOOR SPACE, SECTION 302.3 APPLIES. THE ASSEMBLY AREAS ARE ACCESSORY TO THE MAIN USE. PER SECTION 302.2 FIRE SEPARATION IS NOT REQUIRED BETWEEN THE ACCESSORY USE AND THE MAIN USE.
BUILDING OCCUPANCIES:	M-MERCANTILE - WHOLESALE OR RETAIL STORE (MAIN USE) - SECT. 309.1 S1-THE AREA - TIRE & LUBE EXPRESS SERVICES (MIXED USE) - SECT. 311.2 (SERVICES ARE LIMITED TO OIL CHANGES WITH LUBE, INSTALLATION OF TIRES AND/OR BATTERIES IF THERE IS NO FUEL, THERE ARE NO EXCHANGES OF PARTS.) S1-RECEIVING AND STOCKROOMS - STORAGE AREAS (MIXED USE) - SECT. 311.2 A2-BREAKROOMS AND FUTURE FOOD TENANT (ACCESSORY TO MAIN USE) - SECT. 303.2
ALLOWABLE AREA:	THIS BUILDING IS DESIGNED FOR UNLIMITED AREA PER SECTION 507.2 (2003 IBC) THIS BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM AND IS SURROUNDED ON ALL SIDES BY 60 FEET MINIMUM OF PERMANENT OPEN SPACE AND COMPLIES WITH SECTION 507.2
TYPE OF CONSTRUCTION:	TYPE 5B PER SECT. 602 AND TABLES 601 AND 602 (2003 IBC)
FIRE PROTECTION:	HOURLY FIRE-RESISTANCE RATING REQUIREMENT PER TABLE 601 STRUCTURAL FRAME: 0 HOURS / 0 HOURS ROOF CONSTRUCTION: 0 HOURS / 0 HOURS EXTERIOR NONBEARING WALLS: 0 HOURS / 0 HOURS EXTERIOR BEARING WALLS: 0 HOURS / 0 HOURS INTERIOR BEARING WALLS: 0 HOURS / 0 HOURS INTERIOR NONBEARING WALLS AND PARTITIONS: 0 HOURS / 0 HOURS FLOOR CONSTRUCTION: 0 HOURS / 0 HOURS
AUTO SERVICE CENTER:	NO FIRE SEPARATION REQUIRED BETWEEN AUTO SERVICE CENTER AND SALES PER SECTION 302.3.2 (NON SEPARATED USES APPLIES). ALSO PER NFPA 101 SECTION 6.1.1.4.2 EXCEPTION A, WHEN USE IS INCIDENTAL TO ANOTHER OCCUPANCY, IT SHALL BE CONSIDERED PART OF THE PREDOMINANT OCCUPANCY. A 1-HOUR FIRE SEPARATION IS PROVIDED AT STOCKROOMS FOR SEPARATION FROM TIRE SALES (HIGH HAZARD-HIGH PILE STORAGE) FOR COMPLIANCE TO SECTION 2306.3.2.2 OF 2003 IFC.

NUMBER OF EXITS OR EXIT ACCESS DOORS REQUIRED:	THIS BUILDING COMPLIES WITH TABLE 1014.1 (2003 IBC) TWO (2) EXITS ARE REQUIRED WHEN THE FOLLOWING OCCUPANT LOADS ARE EXCEEDED: FOR ASSEMBLY OCCUPANCIES GREATER THAN 50, TWO (2) EXITS ARE REQUIRED. FOR STORAGE OCCUPANCIES GREATER THAN 30, TWO (2) EXITS ARE REQUIRED. FOR MERCANTILE OCCUPANCIES GREATER THAN 50, TWO (2) EXITS ARE REQUIRED. NOTE: MERCANTILE OCCUPANT LOAD EXCEEDS 1,000 - MORE THAN FOUR (4) EXITS PROVIDED PER 1018.3.				
NOTE:	PER 2003 IBC & 2003 IFC, SECTION 1008.1.3.3, HORIZONTAL SLIDING DOORS ARE PERMITTED TO BE A COMPONENT OF A MEANS OF EGRESS IN ACCORDANCE WITH EXCEPTION #5 OF SECTION 1008.1.2 (BOTH CODES). SECTION 1008.1.2, EXCEPTION #5 STATES: "IN OTHER THAN H OCCUPANCIES, HORIZONTAL SLIDING DOORS COMPLYING WITH SECTION 1008.1.3.3 ARE PERMITTED IN A MEANS OF EGRESS." HORIZONTAL SLIDING "WON" DOORS SHOWN IN EGRESS CORRIDORS COMPLY WITH BOTH SECTIONS.				
EXIT ACCESS TRAVEL DISTANCE:	250' FOR M OCCUPANCY PER 2003 IBC TABLE 1015.1 FOR SPRINKLERED BUILDINGS. THIS BUILDING IS DESIGNED PER 2003 NFPA101 SEC. 36.2.6.2, WHICH ALLOWS 250' OF TRAVEL DISTANCE TO THE EXIT ACCESS OR THE "EXIT".				
COMMON PATH OF TRAVEL:	75' FOR M OCCUPANCY PER 2003 IBC SECTION 1013.3 AND NFPA TABLE A.7.6 (100' W/SPRINKLER). 100' FOR S OCCUPANCY (STORAGE) PER 2003 IBC AND IFC SECTION 1013.3 EXCEPTION #2.				
CORRIDOR FIRE-RESISTANCE:	CORRIDORS DO NOT REQUIRE FIRE SEPARATION PER 2003 IBC, TABLE 1004.3.2.1 (BUILDING IS FULLY SPRINKLERED), AND NFPA 101, TABLE 4.7.6. ALL EXITS ARE WITHIN THE ALLOWABLE TRAVEL DISTANCE OF 250'.				
SALES AREA ALLOWANCE PER OCCUPANT PER 2003 IBC TABLE 1014.1.2	30 GROSS 300 GROSS 15 NET				
SALES (MERCANTILE - GRADE FLOOR AREAS)	30 GROSS				
STORAGE (MERCANTILE - STORAGE, STOCK, SHIPPING AREAS)	300 GROSS				
TRAINING, BREAK AND DINING ROOMS (ASSEMBLY W/O/FIXED SEATING)	15 NET				
BAKERY AND MEAT PREP AREAS (COMMERCIAL KITCHEN)	200 GROSS				
AUTO SERVICE CENTER (INDUSTRIAL AREAS)	100 GROSS				
OFFICE AREA	100 GROSS				
HAIR CARE, FUTURE BANK (BUSINESS AREAS)	100 GROSS				
FOOD TENANT (ASSEMBLY AND KITCHEN)	SEE INDIVIDUAL FACTOR ABOVE				
VISION CENTER AND FRONT COURTESY DESK (SALES AND BUSINESS)	SEE INDIVIDUAL FACTOR ABOVE				
OCCUPANCY LOAD CALCULATIONS:	REQUIRED EGRESS WIDTH CALCULATIONS:				
AREA	AREA (S.F.)	OCCUPANCY LOAD	WIDTH FACTOR	REGO WIDTH	REGO WIDTH PROVIDED
GARDEN CENTER COMBINED:	3,831 S.F. / 30	= 128 OCCUPANTS	x 0.20 = 26"	33"	501A 1(3'-0") HINGED
OUTSIDE LIVE GOODS:	5,610 S.F. / 30	= 187 OCCUPANTS	x 0.20 = 38"	33"	502A 1(3'-0") HINGED
OUTSIDE BAG GOODS:	5,610 S.F. / 30	= 187 OCCUPANTS	x 0.20 = 38"	33"	502C 1(3'-0") HINGED

OCCUPANCY LOAD CALCULATIONS:	REQUIRED EGRESS WIDTH CALCULATIONS:				
OCCUPANCY LOAD = (SQUARE FOOTAGE) / (OCCUPANCY LOAD FACTOR)	REQUIRED EGRESS WIDTH = (OCCUPANCY LOAD) x (EGRESS WIDTH FACTOR)				
OCCUPANCY LOAD FACTOR = REFER TO OCCUPANCY LOAD FACTOR TABLE	EGRESS WIDTH FACTOR = 0.20 INCHES				
AREA (S.F.)	OCCUPANCY LOAD	WIDTH FACTOR	REQUIRED WIDTH	WIDTH PROVIDED	DOORS NUMBERS AND SIZES
INDOOR SALES AREA:	COMBINED: 19,015 S.F.	= 630 OCCUPANTS	x 0.20 = 126"	126"	246" CLEAR SPACE GM "ENTRY" GR "ENTRY"
MAIN SALES AREA:	147,333 S.F.	SF/30 = 4,912 OCCUPANTS	x 0.20 = 983"	983"	228" CLEAR SPACE
AUTO SALES AREA:	2,682 S.F.	SF/30 = 90 OCCUPANTS	x 0.20 = 18"	18"	90"
STORAGE:	COMBINED: 20,721 S.F.	= 72 OCCUPANTS	= 14"	14"	100M 2(4'-0") HINGED
ST RM 917:	533 S.F.	SF/300 = 2 OCCUPANTS	x 0.20 = 1"	1"	100N 2(4'-0") HINGED
ST RM 919:	283 S.F.	SF/300 = 1 OCCUPANT	x 0.20 = 1"	1"	100N 2(4'-0") HINGED
ST RM 923:	647 S.F.	SF/300 = 3 OCCUPANTS	x 0.20 = 1"	1"	96"
STOCKROOM 179:	3,483 S.F.	SF/300 = 12 OCCUPANTS	x 0.20 = 3"	3"	179B 1(3'-0") HINGED
RECEIVING 178:	15,118 S.F.	SF/300 = 51 OCCUPANTS	x 0.20 = 11"	11"	110B 1(3'-0") HINGED
AUTO SERVICE STORAGE:	707 S.F.	SF/300 = 3 OCCUPANTS	x 0.20 = 1"	1"	150A 2(3'-0") HINGED
					162F 1(4'-0") HINGED
					181A 2(3'-0") HINGED
					181A 2(3'-0") HINGED SLIDERS
					45"
ANNULLARY:	COMBINED: 23,061 S.F.	= 583 OCCUPANTS	= 124"	124"	918B 6(8'-0") HORIZ SLIDER
TRAINING ROOM:	483 S.F.	SF/15 = 33 OCCUPANTS	x 0.20 = 7"	7"	918C 6(8'-0") HORIZ SLIDER
BREAKROOMS:	1,142 S.F.	SF/15 = 77 OCCUPANTS	x 0.20 = 16"	16"	150C 6(8'-0") HORIZ SLIDER
BAKERY AND DELI:	2,459 S.F.	SF/200 = 13 OCCUPANTS	x 0.20 = 3"	3"	179B 1(3'-0") HINGED
INVOICING AND UPC/UPS:	280 S.F.	SF/100 = 3 OCCUPANTS	x 0.20 = 1"	1"	178A 1(3'-0") HINGED
MANAGEMENT:	284 S.F.	SF/100 = 3 OCCUPANTS	x 0.20 = 1"	1"	805A 1(3'-0") HINGED
LUBE AND TIRE MOUNTING:	3,656 S.F.	SF/100 = 37 OCCUPANTS	x 0.20 = 8"	8"	805C 1(3'-0") HINGED
ILE PIT:	1,971 S.F.	SF/100 = 19 OCCUPANTS	x 0.20 = 4"	4"	172A 1(3'-0") HINGED
LP OFFICE:	138 S.F.	SF/100 = 2 OCCUPANTS	x 0.20 = 1"	1"	151B 1(4'-0") HINGED
PHARMACY OFFICE:	605 S.F.	SF/100 = 7 OCCUPANTS	x 0.20 = 2"	2"	151C 1(3'-0") HINGED
LAYAWAY:	319 S.F.	SF/30 = 11 OCCUPANTS	x 0.20 = 3"	3"	119A 1(3'-0") HINGED
FRONT COURTESY DESK:					600L 1(3'-0") HINGED
SALES AREA:	772 S.F.	SF/30 = 26 OCCUPANTS	x 0.20 = 6"	6"	800W 1(3'-0") HINGED
OFFICE AREA:	5,822 S.F.	SF/30 = 194 OCCUPANTS	x 0.20 = 39"	39"	119A 1(3'-0") HINGED
INDOOR SALES:	10,724 S.F.	SF/30 = 358 OCCUPANTS	x 0.20 = 71"	71"	300G 1(3'-0") HINGED
(GARDEN CENTER)					OPEN TO SALES AREA
					OPEN TO SALES AREA
					500J 1(3'-0") HINGED
					500L 12'-0" (ALL) HINGED SLIDERS
					500M 12'-0" (ALL) HINGED SLIDERS
TENANT AREAS COMBINED:	6,407 S.F.	= 155 OCCUPANTS	= 30"	30"	402A 1(3'-0") HINGED
FOOD TENANT AREA:	844 S.F.	SF/200 = 8 OCCUPANTS	x 0.20 = 16"	16"	OPEN TO SALES AREA
KITCHEN AREA:	1,044 S.F.	SF/15 = 70 OCCUPANTS	x 0.20 = 14"	14"	OPEN TO SALES AREA
DINING AREA:					802B 10'-0" OPEN TO SALES
HAIR CARE AREA:	726 S.F.	SF/100 = 8 OCCUPANTS	x 0.20 = 2"	2"	130B 1(3'-0") HINGED
TENANT AREA:	897 S.F.	SF/100 = 9 OCCUPANTS	x 0.20 = 2"	2"	802A 1(3'-0") HINGED
					802C 1(3'-0") HINGED
					803A 1(3'-0") HINGED
					323"
					323"
FUTURE TENANT AREA:	608 S.F.	SF/100 = 7 OCCUPANTS	x 0.20 = 2"	2"	321"
TENANT AREA:	425 S.F.	SF/100 = 5 OCCUPANTS	x 0.20 = 1"	1"	
VISION CENTER AREA:	1,388 S.F.	SF/30 = 47 OCCUPANTS	x 0.20 = 10"	10"	
SALES AREA:	375 S.F.	SF/100 = 4 OCCUPANTS	x 0.20 = 1"	1"	
OFFICE AREA:					
TOTAL NET FLOOR AREA PER 2003 IBC, SECTION 1002.1 = 200,254 S.F.	= 5,822 OCCUPANTS	= 117"	= 3,912"		

ACCESSORY EGRESS WIDTH CALCULATIONS:	ACCESSORY SPACES EXITING THROUGH THE PRIMARY SPACES
EXTINGUISHING WITH 2003 IBC SECTION 1003.2.2.3	EXTINGUISHING WITH 2003 IBC SECTION 1003.2.2.3
ACCESSORY OCCUPANT LOAD	% EXITING THROUGH SALES
AUTO SALES	90
STOCKROOM 917	2
STOCKROOM 919	1
STOCKROOM 923	3
RECEIVING 178	51
TRAINING ROOM	33
BREAKROOMS	77
BAKERY AND DELI	13
INVOICING-UPC-UPS	3
MANAGEMENT	3
LP OFFICE	2
PHARMACY	7
LAYAWAY	11
FRONT COURTESY DESK	30
FOOD TENANT	75
HAIR CARE	8
TENANT AREA	9
FUTURE TENANT AREA	7
PORTRAIT STUDIO	5
VISION CENTER	51
TOTAL ACCESSORY OCCUPANT LOAD = 481	
ACCESSORY LOAD EXITING THRU MAIN SALES:	311
OCCUPANT LOAD MAIN SALES:	4,312
TOTAL OCCUPANT LOAD MAIN SALES:	5,223
EGRESS WIDTH FACTOR:	X 0.20
TOTAL EGRESS WIDTH REQD FROM MAIN SALES: 1,045	
TOTAL EGRESS WIDTH PROVIDED FROM MAIN SALES = 1,026 INCHES	
TOTAL EGRESS WIDTH PROVIDED AT MAIN ENTRANCES = 432 INCHES	
TOTAL EGRESS WIDTH PROVIDED AT FRONT WALL = 228 INCHES	
GREATER THAN TWO-THIRDS OF REQUIRED EGRESS PASS THROUGH FRONT WALL OF BUILDING AND COMPLIES WITH NFPA 101 SECTION 36.2.5.7.	
NOTE: ALL AREAS WITH 50% EGRESS EXITING THROUGH MAIN SALES ARE PROVIDED WITH SECONDARY MEANS OF EXITING THAT DOES NOT PASS THROUGH SALES AREA.	
NOTE: BUILDING EGRESS DOES NOT INCLUDE THE GARDEN CENTER AREAS. THE AREA DESIGNATED AS OUTSIDE LIVE GOODS AND OUTSIDE BAG GOODS ARE OPEN TO THE SKY. THERE IS NO ROOF OVERHEAD.	
OUTDOOR SALES EGRESS WIDTH REQUIREMENT:	OUTDOOR EXTINGUISHING WITH SECTION 1004.8 EXTINGUISHING DOES NOT PASS THROUGH BUILDING.
BUILDING SQUARE FOOTAGE:	TOTAL GROSS SQUARE FOOTAGE IS 217,211 PER DEFINITION OF GROSS FLOOR AREA (IBC 1002.1)

SHEET NOTES

- BUILDING WILL BE FULLY SPRINKLERED AS REQUIRED BY CONTRACT DOCUMENTS. SUBMIT FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS TO AUTHORITIES HAVING JURISDICTION (FIRE DEPARTMENT, FIRE MARSHAL, ETC). OBTAIN ALL APPROVALS PRIOR TO FABRICATION OR INSTALLATION.
- OWNER WILL PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. AUTHORITY HAVING JURISDICTION WILL APPROVE FINAL FIRE EXTINGUISHER LOCATIONS.
- WAL-MART'S ALARM CENTRALS ENGINEERING TEAM HAS CONTACTED THE AUTHORITY HAVING JURISDICTION FOR PRE-PLAN DATA ABOUT STATE AND LOCAL REQUIREMENTS THAT DIFFER FROM THE NATIONALLY PUBLISHED CODES AND STANDARDS. A COMPLETE SITE SPECIFIC SUBMITTAL IS BEING MADE DIRECTLY TO THE AUTHORITY HAVING JURISDICTION. QUESTIONS SHOULD BE DIRECTED TO 1-800-530-9924, OPTION 3.
- THE MAXIMUM STORAGE HEIGHT IS TWELVE FEET EXCEPT IN ROOM 178, 179, 502, AND 611. ROOM 178 WILL HAVE A STACKING HEIGHT OF 16 FEET, AND STOCKROOM 179, 502, AND 611 WILL HAVE A STACKING HEIGHT OF 15 FEET OF CLASS I-IV COMMODITIES IN FIXED, SINGLE AND DOUBLE ROW RACKS. THE STACKING HEIGHT OF THE ROLLING RACK AREA WILL NOT EXCEED 12 FEET.
- REFER TO SPECIFICATION 01640 - OWNER FURNISHED PRODUCT; THIS SECTION INCLUDES SPECIFIC INFORMATION REGARDING ITEMS AND SERVICES TO BE FURNISHED AND INSTALLED BY INDIVIDUALS OTHER THAN THE GENERAL CONTRACTOR. ALL ITEMS SHOWN DASHED REFER TO SPECIFICATIONS.

PLUMBING FIXTURE COUNTS:	SEE TABLE 403.1 (2003 IBC) AND CHAPTER 29 (2003 IBC)
TOTAL BUILDING OCCUPANT LOAD IS 5,822	TOTAL BUILDING OCCUPANT LOAD IS 5,822
LOAD DISTRIBUTION:	50% MALE AND 50% FEMALE
DISTRIBUTION COUNT:	2,911 MALE AND 2,911 FEMALE
LAVATORIES REQUIRED:	1,750 MALE & 1,750 FEMALE
MALE LAVATORIES:	2,911/750 = 4 (8 PROVIDED)
FEMALE LAVATORIES:	2,911/750 = 4 (8 PROVIDED)
WATER CLOSETS REQUIRED:	1,500 MALE & 1,500 FEMALE
MALE WATER CLOSETS:	2,911/500 = 6 (11 PROVIDED)