

# 1 General Information

## PROJECT INFORMATION

Name of Project: Service Building (Hurricane)  
 Client: Express Oil Change & Tire Engineers  
 Location: Baton Rouge, Louisiana  
 Authority Having Jurisdiction (AHJ): City: Baton Rouge County: East Baton Rouge Parish State: N/A  
 Square Footage / Stories / Height: Main Level G.S.F. = 3,293 Stories = 1 Height = 31'-9 1/4"

## PROJECT TYPE

New Construction  Addition  Other

Alteration  Change of Occupancy

## BUILDING USE

Single Use  Mixed Use (Separated)  Mixed Use (Non-Separated)

Description: Automotive repair garage used for general service on automobiles.

## SPRINKLERED

Yes  Partial  No

# 4 Special Detailed Requirements Based On Use and Occupancy (2015 IBC)

## 406.6 Repair Garages

Project complies with 406.6.8 through 406.8.6

## 413 Combustible Storage

413.1 High-piled storage of combustible materials over 12'-0" or high-hazard commodities over 6'-0"

Yes  No

413.2 Storage of combustible materials in attics, under-floor, and concealed spaces

Yes  No

## 414 Hazardous Materials

Project complies with 414.2 Control Areas

Number of Control Areas Provided: Entire Building is one control area

## Location

Inside  Outside

## Use

Open  Closed  Storage Only

## Types of Hazardous Materials (Table 307.1.1(1) of IBC and 3206.2 of IFC)

- Class III B Liquids  Actual Storage per control area: 28.13 gallons
- Class IA Flammable Liquids  Actual Storage per control area: 0.0 gallons
- Class IB Flammable Liquids  Actual Storage per control area: 5.44 gallons
- High-Hazard Commodities per IFC 2015 3203.6 / 3206.2 (Rubber Tires)
- Allowable Quantity: 0-500 s.f.  Actual Quantity: X<500 s.f.

# 7 Fire And Smoke Protection Systems (2015 IBC)

## 718.4 Draftstopping in Attics

Yes  No  Not Required

Openings in the partitions shall be protected by self-closing doors with automatic latches constructed as required for the partitions.

Installed in attics and concealed roof spaces such that any horizontal area does not exceed 3,000 s.f.

# 10 Means of Egress (2015 IBC)

Table 1004.1.2 Maximum Floor Area Allowance Per Occupant

Occupancy Classification	Specific Use	Square Footage	SF Per Occupant	# of Occupants
S-1	Service	2188	200 gross	10.94
S-1	Toilet	47	100 gross	0.47
S-1	Tire Storage	431	300 gross	1.44
S-1	Storage	419	300 gross	1.40
Subtotal		3085		14.25
Grand Total		3085		14.25

Table 1005 Egress Width

Occupancy	Specific Use	Occupant Load	Stairways	Other Egress Components	Required Capacity in Inches	Egress Width Provided
S-1	Service	10.94	N/A	0.2	2.19"	
S-1	Toilet	0.47	N/A	0.2	0.09"	
S-1	Tire Storage	1.44	N/A	0.2	0.28"	
S-1	Storage	1.40	N/A	0.2	0.28"	
TOTAL					2.85"	64" (2 doors @ 32" each)

Table 1016.2.1 Spaces with One Exit Or Exit Access Doorway

Occupancy	Max Occupant Load	Number of Exits Required	Max Occupant Load Provided	Number of Exits Provided
S-1	29	1	14.25	2

# 2 Codes

## APPLICABLE CODES

- 2015 International Building Code with Louisiana Amendments
- ASHRAE Standard 90.1-2007
- 2015 International Fire Code
- 2015 International Fuel Gas Code
- 2015 International Mechanical Code
- 2015 International Plumbing Code
- 2010 ADA Standards for Accessible Design
- 2014 National Electrical Code

# 5 General Building Heights and Areas (2015 IBC)

## 504 Building Height and Areas (Per Table 504.3 and 504.4)

- Allowable Building Height = 40'-0"  Actual Building Height = 31'-9 1/4"
- Allowable Number of Stories Above Grade Plane = 1  Actual Number of Stories Above Grade Plane = 1
- Allowable Area Factor = 9,000 s.f.  Actual Area = 3293 g.s.f.

## 505.3 Equipment Platforms

Project complies with 505.3 through 505.3.3  Not Applicable

## 508 Mixed Use and Occupancy

- Mixed Use Occupancy (Separated)  Mixed Use Occupancy (Non-Separated)  Does not apply

# 8 Interior Finishes (2015 IBC)

Table 803.11 Interior Wall and Ceiling Finish Requirements by Occupancy

Group	Exit Enclosures and Exit Passageways	Corridors	Rooms and Enclosed Spaces
S-1		B	C

## 804.4.2 Minimum Critical Radiant Flux

Class I  Class II

# 3 Use and Occupancy Classification(s)

- Assembly Group A-1  High-Hazard Group H-2  Residential Group R-2
- Assembly Group A-2  High-Hazard Group H-3  Residential Group R-3
- Assembly Group A-3  High-Hazard Group H-4  Residential Group R-4
- Assembly Group A-4  High-Hazard Group H-5  Storage Group S-1
- Assembly Group A-5  Institutional Group I-1  Storage Group S-2
- Business Group B  Institutional Group I-2  Utility Group U
- Educational Group E  Institutional Group I-3
- Factory Group F-1  Institutional Group I-4
- Factory Group F-2  Mercantile Group M
- High-Hazard Group H-1  Residential Group R-1

# 6 Types of Construction (2015 IBC)

## 601 General and 602 Construction Classification

- Type IA  Type IB  Type IIA  Type IIB  Type IIIA
- Type IIIB  Type IV  Type VA  Type VB

Table 601 Fire Resistance Rating Requirements for Building Elements

Building Elements	Hours Required	Hours Provided
Primary Structural Frame	0	0
Bearing Walls (Exterior)	0	0
Bearing Walls (Interior)	0	N/A
Nonbearing Walls & Partitions (Exterior)	0	0
Nonbearing Walls & Partitions (Interior)	0	0
Floor Construction & Associated Secondary Members	0	0
Roof Construction & Associated Secondary Members	0	0

Table 602 Fire Resistance Requirements for Exterior Walls Based on Fire Separation Distance

Fire Separation Distance	Rear	Right	Front	Left
X < 5				
5 ≤ X < 10				
10 ≤ X < 30				
X ≥ 30	>30'	>30'	>30'	>30'

# 9 Fire Protection Systems (2015 IBC)

## 903 Automatic Sprinkler Systems

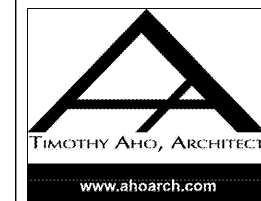
Yes  Partial  Not Required

## 906 Portable Fire Extinguishers

- Yes  No
- Project complies with 906.1 through 906.10
- Project complies NFPA 10

## 907 Fire Alarm and Detection System

Yes  Not Required



Express Oil Change & Tire Engineers  
 Service Building (Hurricane)  
 2265 O'Neal Lane  
 Baton Rouge, LA 70816

No.	Description	Date

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## Life Safety / Code Summary

Project number: 20025  
 Date: 08/27/2020  
 Drawn by: ARC  
 Checked by: TAA  
**SV-LS100**  
 Scale: 12" = 1'-0"