

STATE OF LOUISIANA
Department of Public Safety and Corrections
Office of State Fire Marshal Code Enforcement and Building Safety
8181 Independence Boulevard
Baton Rouge, Louisiana 70806
225-925-4920

PAUL SMITH
FIRE MARSHAL

NEW CONSTRUCTION

ROBERT SOLLBERGER
DAMMON ENGINEERING, INC
1095 FLORIDA AVE
SLIDELL, LA 70458-0000

RE: P0333770
ALDERSGATE UNITED METHODIST CHURCH
360 ROBERT ROAD
SLIDELL, LA 70458-0000

NFPA 101, 2003

EDUCATIONAL
ASSEMBLY OVER 300 OCCUPANTS
STORAGE

Dear Applicant:

This is to advise that we have reviewed the drawings and specifications for the subject proposed construction and have determined that they appear to satisfactorily comply with the adopted laws, codes, rules and regulations of The State Fire Marshal subject to the following requirements:

- 1. Review for compliance with the requirements of the Louisiana State Uniform Construction Code (LSUCC) in accordance with Act 12 of the 2005 First Extraordinary Session of the Louisiana Legislature has been performed on behalf of the jurisdiction in which this project is located. This project as submitted has been found in part to be INSUFFICIENTLY DOCUMENTED TO DETERMINE COMPLIANCE AT THIS TIME due to the conditions cited in this letter as item(s) 25, & 26.**

Additional documentation is required in order to indicate compliance with the noted item(s) PRIOR TO PERMITTING for construction of this project UNLESS the Building Official for the jurisdiction finds that the nature of the work applied for is such that compliance can be determined during inspection.

NOTE: The statement above indicating that this project "appears to satisfactorily comply" addresses the adopted laws, codes, rules and regulations promulgated by The State Fire Marshal only. Comments requiring the attention of the submitter for those conditions are indicated as APPARENT DEFICIENCIES in this letter and must be resolved prior to final inspection or as otherwise stated.

- 2. This letter voids and replaces our review of October 21, 2007, Project Number P0333770.**
- 3. This work entails the construction of a new building and the associated site development.**

The first floor of the building is reviewed as a Multiple / Mixed occupancy, consisting of Assembly and Business occupancies, in accordance with NFPA 101:6.1.14.3.

a) **101:6.1.14.3** Where two or more classes of occupancy occur in the same building or structure and are intermingled so that separate safeguards are impracticable, means of egress facilities, construction, protection, and other safeguards shall comply with the most restrictive life safety requirements of the occupancies involved.

The second floor of the building, labeled as "Future Build-out", is reviewed as Storage only as indicated by correspondence from the owners representative. Any other use requires submittal review and approval by this office prior to renovation or change of use.

NOTE: THE COMMENTS LISTED BELOW IDENTIFY APPARENT DEFICIENCIES DETECTED IN OUR REVIEW OF THE DOCUMENTS SUBMITTED.

4. **101:12.2.2.2** Doors in a required means of egress serving the Gym may be provided with a latch or lock only if it is panic hardware.
5. Section 36.102(e) of the Federal Register 28 CFR Part 36 states that "religious entities" are exempt from the requirements of title III of the Americans with Disabilities Act. Since it appears that the facility is operated by a "religious entity", a review for ADAAG compliance has not been performed on this submittal.

Please return ALL reviewed documents with a written request for full ADAAG compliance review, if the exemption does NOT apply. A separate plan review application and fee will NOT be necessary.
6. **101:7.2.2.4.4.10** Where a stair handrail is not continuous between landings, it shall continue to slope for a depth of one tread beyond the bottom riser and shall extend 12" level with the landing at the top riser. THE PROPOSED DETAIL INDICATING CONTINUATION OF THE RAIL FOR ONLY 3.5 INCHES AT THE SAME SLOPE AS THE STAIRS DOES NOT COMPLY. (SHEET A3)
7. **101:12.3.1** Protect vertical openings in accordance with 101:8.6 or comply with ALL requirements of 101:8.6.6. DOCUMENT THE METHOD OF ENCLOSURE, THE ROUTING, AND IDENTIFY THE LISTED TESTED 1 HOUR ASSEMBLY ENCLOSING THE KITCHEN EXHAUST AND SUPPLY DUCTS WHERE THEY PASS THROUGH THE SECOND FLOOR TO THE ROOF. THE REQUIRED CHASES ARE NOT INDICATED IN THE SUBMITTAL.
8. **101:12.3.1** Protect vertical openings in accordance with 101:8.6 or comply with ALL requirements of 101:8.6.6. PROVIDE SMOKE BARRIER SEPARATION, CONSTRUCTED IN ACCORDANCE WITH 8.5, BETWEEN THE 2 STORY GYM AND THE REST OF THE BUILDING.
9. **96:7.7.1.1** Provide protection In all buildings where vertical fire barriers (floors) are penetrated; the ducts shall be enclosed in a continuous enclosure extending from the first penetrated fire barrier and any subsequent fire barriers or concealed spaces to the exterior, maintaining the rating of the highest fire barrier. DOCUMENT THE METHOD USED TO PROTECT THE PENETRATION OF THE HOOD DUCTS AT THE 1 HOUR FLOOR/CEILING ASSEMBLY AT THE SECOND FLOOR.
10. **70:430.102(b)** Provide a disconnecting means for all rooftop (or sidewall) exhaust fans. This disconnect shall be located within sight of the exhaust fan. The disconnecting means shall be appropriately sized/rated for the exhaust fan motor. NEITHER THE FAN NOR THE REQUIRED DISCONNECTING DEVICE IS LOCATED IN THE SUBMITTAL
11. **LAC 55:V:303.D** Provide listed portable fire extinguishers in accordance with NFPA 10. (Refer to Appendix E for distribution information.) IDENTIFY SIZE, TYPE AND LOCATION ON PLANS

a) **96:10.10.1** Provide portable fire extinguishers in all kitchen cooking areas in accordance with NFPA 10. Class B "gas type" portables, such as carbon dioxide and halon, shall NOT be permitted in kitchen cooking areas.

NFPA 10 requires fire extinguishers provided for the protection of cooking appliances that use combustible cooking media (vegetable or animal oils and fats) to be listed and labeled for "Class K" fires.

NOTE: THE FOLLOWING COMMENTS IDENTIFY ISSUES FOR INFORMATIONAL AND CAUTIONARY PURPOSES OR ISSUES THAT COULD NOT BE VERIFIED IN THE SUBMITTED DOCUMENTS.

12. This project was submitted as a single assembly occupancy, however classroom use is indicated to be for "Sunday School", and must be considered as Business occupancy with classroom occupant loads calculated at 20 sf/person. none of the classrooms reach the 50 occupant level required to be classed as assembly use.

Documentation from the owner indicates that no simultaneous occupancy of the two areas will occur, and that all uses will be for church related events

13. **101:8.3.5** Penetrations through rated construction shall be sealed by approved firestop systems or devices tested in accordance with ASTM E-814 or ANSI/UL 1479 or by assemblies of firestopping materials capable of preventing the passage of flames and hot gases when tested and rated in accordance with NFPA 251. (This requirement applies for elevator controls on shaft walls, electrical outlets, light switches, etc.).

a) Notify the District Office identified at the end of this letter for inspection of all completed fire and/or smoke barrier walls before any construction is installed that would conceal such construction and prevent a proper inspection. Access to randomly selected areas may be required by the inspector at time of final inspection if this notification is not given.

b) Provide detailed instructive cut sheets of the fire penetration sealing system used to the inspector at time of inspection. Random selective sampling by the contractor will be observed by the inspector.

14. **101:9.2.1** Install smoke detectors to automatically stop the fan in HVAC duct systems over 2000 cfm in accordance with NFPA 90A:6.4.2(1). Where fire alarm system is required, duct detectors shall be connected to building alarm system.

15. **96:10.1.2 and 96:10.2.1** Provide fixed automatic fire extinguishing equipment systems as primary protection for all cooking equipment that produces grease laden vapors (such as, but not limited to, deep fat fryers, ranges, griddles, broilers, woks, tilting skillets, braising pans, etc.) and portable fire extinguishers as secondary back-up. Only certain type portables are acceptable.

LRS 40:1651 Submit chemical fire suppression system shop drawings with plan review application and fee prior to installation of any work of this section. Such work shall not commence until shop drawings have been found to be in compliance with applicable codes by this office. Submittal shall include a copy of this letter and shall be in accordance with the rules for such by this office. (Systems include hoods, halon, wet or dry chemical systems, etc.)

16. **101:12.3.4** Provide a fire alarm system in accordance with 101:9.6. In facilities required to be fully accessible, alarm notification shall be by both audible and visual means in accordance with NFPA 72.

a) **LRS 40:1651** Submit fire alarm system shop drawings with plan review application and fee prior to installation of any work of this section. Such work shall not commence until shop drawings have been found to be in compliance with applicable codes by this office. The submittal shall include a copy of this letter and shall be in accordance with the submittal requirements outlined in the memorandum dated June 24, 1993 which was distributed from this office to all state licensed fire alarm contractors, architects and engineers. Specify the "Type of Signaling System" to be utilized, identify the monitoring station, describe the evacuation system ("zoned" or "general"), and include information concerning the means of protecting fire command centers, circuitry, and other essential equipment, such as may be required for high-rise buildings, as applicable.

17. 101:12.3.5 Provide supervised automatic sprinkler protection in accordance with 101:9.7.2.

a) **LRS 40:1625** Submit automatic sprinkler system shop drawings with plan review application and fee prior to installation of any work to this system. Such work shall not commence until the shop drawings are reviewed and appear to satisfactorily comply with the laws, codes, rules, and regulations enforced by this office.

Be advised that a sprinkler system that satisfies the requirements of NFPA 101 Life Safety Code, NFPA 13, NFPA 13R and/or NFPA 13D may not necessarily be considered by the building insurance underwriters as "full coverage" or "fully sprinklered", for insurance purposes.

18. LRS 40:1653 and 40:1628 All work and inspections of fire alarm, fire suppression, automatic sprinkler and fire extinguishing systems or portable fire extinguishers shall be performed by a State of Louisiana certified agent.

19. Shop drawings for fire protection systems, such as Fire Alarm, Sprinklers, and Suppression Systems, that are required to be submitted to this office for review, shall be routed through the "Professional of Record's" (Architect / Engineer) office, and shall be stamped with his "Shop Drawing Review Stamp" or equivalent, indicating that shop drawings have been reviewed by him for conformance with plans, specifications, and appropriate codes.

20. LAC 55:V:307 Periodic observation of construction shall be made by a licensed architect or civil engineer. The enclosed Certificate of Completion containing the signature(s) of the responsible design professional(s) shall be presented to the Inspector at time of final inspection for occupancy.

NOTE: THE FOLLOWING IS A REVIEW FOR COMPLIANCE WITH THE REQUIREMENTS OF THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE IN ACCORDANCE WITH ACT 12 OF THE 2005 FIRST EXTRAORDINARY SESSION OF THE LOUISIANA LEGISLATURE. THIS REVIEW IS PERFORMED AT THE REQUEST OF, AND ON BEHALF OF THE JURISDICTION IN WHICH THIS PROPOSED PROJECT IS LOCATED.

This office will not be responsible for inspections to certify compliance with applicable requirements. Contact the local Building Official or a Louisiana State Uniform Construction Code Council certified third-party provider to arrange for inspections.

Codes Referenced:

2006 International Building Code (IBC) not including Chapters 1, 11, 27, and 29;
2006 International Existing Building Code (IEBC) not including Chapter 1;
2006 International Mechanical Code (IMC);
2000 Louisiana State Plumbing Code (LSPC);
2006 International Fuel Gas Code (IFGC);
2005 National Electric Code (NEC)

21. **Building Planning:**
- a) **Proposed Occupancy/Use Group Classification:**
The building is reviewed as a Mixed / Non-Separated occupancy (See discussion in NFPA review sections above.) consisting of ASSEMBLY (Gym), Group A-3 per IBC Section(s) 303; BUSINESS (Sunday School), Group B per Section 304 and STORAGE (Second floor), Group S-1, per Section 311.
 - b) **Special Occupancy Areas:**
There are no special detailed requirements for this building per IBC Chapter 4.
 - c) **Incidental/Accessory Use Areas:**
There is an incidental STORAGE (Second Floor) use area and an accessory INDUSTRIAL (Kitchen) occupancy per IBC Section 508.
 - d) **Construction Type/Building Limitations:**
The construction type is indicated to be Type II (B) per IBC Section 602.
- The proposed construction meets the allowable height and area limitations of Table 503.
22. **Fire-Resistance-Rated Construction:**
No deficiencies noted.
- Interior Finishes:**
Interior walls and ceiling finishes shall be Class A: Flame spread 0-25; smoke-developed 0-450, at exit enclosure from the second floor. (MAY BE CLASS B IF BUILDING IS SPRINKLERED)
- Interior walls and ceiling finishes shall be Class B: Flame spread 0-75; smoke-developed 0-450 at corridors in the Buisness occupancy.(MAY BE CLASS C IF BUILDING IS SPRINKLERED)
- Interior walls and ceiling finishes shall be Class C: Flame spread 0-200; smoke-developed 0-450 at corridors in the Buisness occupancy.
23. **Fire Protection Systems:**
- 903.2.1.3 An automatic sprinkler system shall be provided for Group A-3 occupancies where the fire area has an occupant load of 300 or more. SEE NFPA REVIEW SECTION ABOVE FOR SUBMITTAL REQUIREMENTS.
- 904.2.1 Each Type I hood shall be protected with an approved automatic fire-extinguishing system installed in accordance with this code. PROVIDE THE REQUIRED SYSTEM AT THE KITCHEN EXHAUST HOOD. SEE NFPA REVIEW SECTION ABOVE FOR SUBMITTAL REQUIREMENTS.
- 907.2.1 A manual fire alarm system shall be installed in Group A occupancies having an occupant load of 300 or more. PROVIDE THE REQUIRED FIRE ALARM SYSTEM. SEE NFPA REVIEW SECTION ABOVE FOR SUBMITTAL REQUIREMENTS.
- 912.1 Fire department connections shall be installed in accordance with the NFPA standard applicable to the system design and shall comply with Sections 912.2 through 912.5.
24. **Means of Egress:**
- a) Refer to Life Safety Code review above for means of egress requirements.
25. **Structural:**

The manual used for structural design of this project is IBC SECTION 1609, the method used is NOT IDENTIFIED.

a) Gravity Load Data:

Minimum live loads shall be in accordance with IBC Table 1607.1 or ASCE 7-05 Table 4-1

Minimum Snow loads shall be in accordance with IBC Fig. 1608.2 or ASCE 7-05 Fig. 7.1.

First Floor live loads are NOT indicated.

Floor live loads above the first floor are NOT indicated.

Corridor live loads are NOT indicated..

Roof live loads are NOT indicated.

Ground Snow loads are CORRECTLY indicated as 5 psf.

b) Wind Design Data:

Wind loads on every building or structure shall be determined in accordance with Chapter 6 of ASCE 7-05. The following information related to wind loads shall be shown on the construction drawings, regardless of whether wind loads govern the design of the lateral-force-resisting system of the building, per IBC Sections 1603.1.4 and 1609.1.1:

Basic Wind Speed (3-second gust) - 130 MPH, per IBC 1609.3 and/or ASCE 7-05 Figure 6-1.

Wind importance factor, I, is 1.0, per ASCE Table 6-1.

Occupancy category is II, per IBC Table 1604.5 or ASCE 7-05 Table 1-1.

Wind exposure category is B, per IBC Section 1609.4.3.

The internal pressure coefficient is NOT INDICATED, per ASCE 7-05 Figure 6-5. THE BUILDING IS INCORRECTLY INDICATED TO BE DESIGNED AS PARTIALLY ENCLOSED

Design wind pressures used for the design of exterior components and cladding ARE NOT INDICATED

Protection of openings for wind-borne debris is required. DOCUMENT COMPLIANCE WITH 1609.1.2, AND PROVIDE DETAILS AS APPROPRIATE TO THE METHOD SELECTED.

c) Flood Loads:

The flood hazard area established for the site is identified as Zone X.

The elevation of the proposed lowest floor is indicated to be 20.06 FEET.

26. Mechanical Systems:

403.2 The minimum ventilation rate of outdoor air shall be determined in accordance with Section 403.3.

a) Table 403.3 Provide at least 75cfm outside air per water closet or urinal at toilet rooms. TOTAL OUTSIDE AIR VOLUMES OF 90 CFM DOES NOT APPEAR SUFFICIENT AT THE LOCKER ROOMS WHERE MULTIPLE WC/URINALS ARE PROVIDED, PLUS REQUIREMENTS FOR CORRIDORS AND OTHER AREAS SERVED BY THIS SYSTEM. DOCUMENT COMPLIANCE.

b) 403.2 Provide Mechanical exhaust from toilets and locker rooms. The recirculation of air from such spaces is prohibited (see Section 403.2.1, Items 1 and 3). EXHAUST VOLUMES OF 100 CFM DO NOT APPEAR SUFFICIENT AT THE LOCKER ROOMS WHERE MULTIPLE WC/URINALS ARE PROVIDED. DOCUMENT COMPLIANCE.

c) DOCUMENT THE METHOD AND QUANTITIES OF OUTSIDE AIR TO BE PROVIDED AT CLASSROOMS BY PTAC UNITS. DOCUMENT THAT NO DAMPERING IS PROVIDED ENABLING SHUT OFF OF OUTSIDE AIR INTAKE.

403.3.4 Ventilation systems shall be balanced by an approved method. Such balancing shall verify that the ventilation system is capable of supplying the airflow rates required by Section 403. PROVIDE AN AIR BALANCE REPORT TO THE AUTHORITY HAVING JURISDICTION.

601.2 Corridors shall not serve as supply, return, exhaust, relief or ventilation air ducts. IDENTIFY RETURN AIR QUANTITIES AND LOCATIONS FOR CORRIDORS AND ADJACENT SPACES SUPPLIED BY AHU #3 (LOCKER ROOMS, PANTRY AND BROOM CLOSETS)

504 Exhausts for clothes dryers shall be installed in accordance with this section: DRYER EXHAUSTS ARE NOT INDICATED IN THE SUBMITTED DESIGN.

1 504.3 Each vertical exhaust riser shall be provided with a means for cleanout.

2 504.4 Clothes dryer exhaust duct installation shall comply with this section. Ducts shall terminate on the outside of the building and shall be equipped with a backdraft damper.

3 504.5 Installations exhausting more than 200 cfm shall be provided with makeup air.

501.2.1 The termination point of exhaust outlets and ducts discharging to the outdoors shall be located in accordance with this section.

1 501.2.1.3 For environmental air duct exhaust: 3 feet from property lines, operable openings into buildings, and 10 feet (3048 mm) from mechanical air intakes.

506.3 Type I exhaust ducts shall be independent of all other exhaust systems except as provided in Section 506.3.5. Commercial kitchen duct systems serving Type I hoods shall be designed, constructed and installed in accordance with Sections 506.3.1 through 506.3.12.

1 506.3.8 Grease duct systems shall not have openings therein other than those required for proper operation and maintenance of the system. Any portion of such system having sections not provided with access from the duct entry or discharge shall be provided with cleanout openings. DOCUMENT COMPLIANT ACCESS.

2 506.3.10 Grease duct enclosure. A grease duct serving a Type I hood that penetrates a ceiling, wall or floor shall be enclosed from the point of penetration to the outlet terminal.

i A duct shall penetrate exterior walls only at locations where unprotected openings are permitted by the International Building Code. IDENTIFY THE DUCT TERMINATION. NO LOCATION OR CONDITION IS DETAILED IN THE SUBMITTAL.

ii Ducts shall be enclosed in accordance with the International Building Code requirements for shaft construction. The duct enclosure shall be sealed around the duct at the point of penetration and vented to the outside of the building through the use of weather-protected openings. DOCUMENT PROPER ENCLOSURE AT THE PENETRATION OF THE 1 HOUR FLOOR/CEILING ASSEMBLY THROUGH THE SECOND FLOOR TO THE ROOF.

3 506.3.11 Where cleanout openings are located in ducts within a fire-resistance-rated enclosure, access openings shall be provided in the enclosure at each cleanout point. Access openings shall be equipped with tight-fitting sliding or hinged doors that are equal in fire-resistive protection to that of the shaft or enclosure. An approved sign shall be placed on access opening panels with wording as follows:

ACCESS PANEL. DO NOT OBSTRUCT.

507.2.2. Type II hoods shall be installed where cooking or dishwashing appliances produce heat, steam, or products of combustion and do not produce grease or smoke, such as steamers, kettles, pasta cookers and dishwashing machines. DOCUMENT COMPLIANT INSTALLATION AT THE COMMERCIAL DISHWASHER INDICATED IN THE KITCHEN.

- 27. Plumbing Systems:
In accordance with LRS Title 51, Parts XV, XVIII, XIX, XX, XXI, and XXIII, plans and specifications shall be submitted to the state health officer for review and approval. Submit to the following regional office for review:**

**DHH Metro Region 1
C/O Jefferson Public Health Unit
111 N Causeway Blvd
Metairie, LA 70001**

- 28. Fuel Gas:
No fuel gas use is indicated in association with this work.**

- 29. Electrical Systems:
No deficiencies noted.**

- 30. 101:7.2.1.2.4 and 7.1.5.1 A doorway in a means of egress shall provide at least 32" in clear width (consider installing 36" wide doors) and at least 6'-8" in nominal height. Where a pair of doors is provided, at least one leaf shall comply with clear width requirement.**

Changes to construction in the field which are not consistent with the reviewed documents are not authorized unless reviewed by this office for compliance with Code. Modifications to reviewed plans must be submitted to this office by the Architect/Civil Engineer for review prior to final inspection. If an Architect or Civil Engineer is not required by RS 37:155, revisions shall be submitted by the Owner. Submittals shall include plans, completed application, a minimum \$55.00 review fee, and a copy of the most current plan review letter.

Compliance with code requirements for fire protection systems, such as Fire Alarm, Sprinkler and Suppression Systems, is determined by separate shop drawing submittal and is not included in this review.

This review shall in no way permit and/or authorize any omissions or deviations from the specific requirements of the adopted codes, rules and regulations in accordance with R.S. 40:1574.1(B).

This review is valid for 180 days from the date of this letter. Construction permits must be issued and/or construction must commence within this time period.

This office requires certification of the completed project in accordance with the approved documents (certificate enclosed).

Occupancy of the project will not be permitted until we receive the completed certificate and a satisfactory inspection of the completed construction has been made by this office.

To arrange for inspection of the project, please contact the District Office at the phone number below two (2) to three (3) weeks in advance. The plans stamped reviewed by this office must be available on job site at time of inspection. Certificate of completion must be provided to the inspecting Deputy for final inspection.

REVIEWED BY:
JAMES WAITE
ARCHITECT

CC:
Aldersgate United Methodist Ch
St Tammany Fire Protection District No 1*
City Of Slidell*
New Orleans District* 5042194600