



To: Ed Shiver
Fire Marshal
Fry Fire District
4817 S Apache Ave
Sierra Vista AZ, 85650

Project: Village Meadows Baptist Church
Permit No. 17-0788

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Life Safety Compliance Review Comment Responses

Below are BGW Architects' responses which correspond to indicated plan revisions to Adam's and Associates Engineers review for life safety compliance.

Note: BGW's responses to comments are in blue.

1.01 General:

A. It is understood that fire sprinkler shop drawings will be a deferred submittal. However, a professional registrant needs to consider the range of hazards, hazard analysis and classification, applicable codes and standards, availability and adequacy of the water supply, and appropriate design density and area for each hazard area. We are unable to find these items on the submitted drawings. (Arizona Board of Technical Registration Substantive Policy 3)

BGW response: Understood, fire sprinkler shop drawings to be included in a deferred submittal.

B. It is understood that fire alarm shop drawings will be a deferred submittal. Fire alarm general notes on Sheet E001 indicate that all fire alarm drawings will be sealed and signed by a licensed professional fire protection engineer. As such, we expect the fire alarm deferred submittal to be sealed and signed by a licensed professional, and we expect the deferred submittal to include those fire alarm items that are required to be determined by a professional registrant in accordance with Arizona Board of Technical Registration Substantive Policy 3. No further information is required for this set of drawings.

BGW response: Understood, deferred submittal.

1.02 SheetG101:

- A. Indicate allowable building height from Table 503 to show compliance with actual building height of 35'-0". (2012 IBC, 504)

BGW response: Allowable building height from table 503 has been added to New Construction Properties section of code review on sheet G101.

- B. Include calculations for A.a. 1, and W to show how the area increases were determined. (2012 IBC, 506.1 and 503.1)

BGW response: Area increase calculation have been added to code section 5 Building height and area on sheet G101. Calculation are shown for each occupancy group.

- C. Code Analysis Section 601 indicates greater than 30' separation from adjacent buildings. However, the distance from the proposed building to the two existing buildings looks to be less than 30' on Sheet G102. Indicate Fire Separation Distance from adjacent existing buildings, and revise fire-resistance rating of exterior walls if required. If exterior walls are required to be fire-rated, statement regarding Section 705.8.1 will also need to be revised. (2012IBC, Table 602)

BGW response: Fire separation distance (FSD) to assumed property lines have been provided with clarification on wall ratings and allowable openings on sheet G102. Section 705.8.1 unprotected openings has been revised to show protected openings on rated wall.

- D. Indicate classification of faux wood, wood veneer, plywood ceiling construction, and other combustible materials. Show compliance with allowable combustible materials and interior finish requirements. It is not clear if Table 803.9, Note f is being used. (2012 IBC 2012, 603 and Table 803.9).

BGW response: Classification of combustible materials for each occupancy has been added to code section 8 Interior Finishes. We have also clarified that Note f is being used for interior finish materials. A note has also been added on sheets A102, A103, A105, A107, A405-A410 indicating that all faux wood material shall have a Class "C" flame spread index or be provided with a fire retardant coating providing an equivalent flame spread protection.

- E. Indicate whether front canopy is noncombustible and complies with IBC 2012 Section 705. Also indicate distance from the Line used to determine Fire Separation Distance and compliance with IBC 2012 Table 705.2. (2012 IBC 705)

BGW response: Canopy is non combustible construction according to type IIB construction ("Fire retardant sheathing" note has been added to details 1, 3, & 6/A109). Fire Separation Distance is shown on Detail 1/G102.

- F. Indicate separation requirements for the adjacent buildings are still met with the construction of this building. (2012 IBC 705.3)

BGW response: Fire separation and fire rating requirements have been provided on sheet G102.

- G. Provide Class B interior wall and ceiling finishes for 1-4 occupancy. (2012 IBC Table 803.9)

BGW response: Class B interior finishes for I-4 occupancy have been added to sheet G101 code section 8. Interior Finishes.

H. Clarify note on IBC 2012 903.4.2, it refers to the water-flow bell, not to be confused with A/V notification appliances which could also be construed as "audible devices". (2012 IBC 903.4.2)

BGW response: Note has been updated in code sheet on sheet G101.

I. Indicate total Group A occupancy. It looks like the Group A occupancy is greater than 1,000, so an emergency voice/alarm communications system is required. System to comply with IBC 907.5.2.2 and NFPA 72 2010. (2012 IBC 907.2.1.1)

BGW response: In Code review section 907.5 we have indicated the need for a occupant notification system. Design is base on most restrictive worship area group A occupant load of 838 fixed seats with no dual concurrent use of facility.

J. Minimum one manual pull station is required at an approved location (2012 IBC 907.2)

BGW response: Ref. Code analysis on sheet G101, Code analysis has been revised to indicate 1 manual pull station shall be provided. See added Note 907.2.

K. Confirm that the design professional intends for this project to have a smoke detection system. If requiring automatic fire detector (Smoke detection?) system, identify applicable NFPA 72-2010 design intent for total coverage, partial coverage, or selective coverage under Paragraph 17.5.3. By IBC 2012 requirements smoke detection is not required except in specific circumstances such as duct detectors required by NFPA 90A, Paragraph 6.4. (2012 IBC 907)

BGW response: Building smoke detection system is not required, other than automatic alarm initiated smoke detectors to control smoke dampers at penetrations in rated walls per NFPA 90A, paragraph 6.4. See detail 9/M501.

L. Exit signage on G101 does not match sheet E111.

BGW Response: Exit signage has been coordinated between sheets.

M. Indicate handrails are compliant at the platform. (2012 IBC 1012)

BGW Response: Handrails have been added - See Platform plan 1/A104 and section 3/A104.

N. Classrooms A, B, and C exceed JBC 2012 Table 1015.1 maximum occupant load for a single exit or exit access. (2012 IBC Table 1015.1)

BGW Response: Additional doors have been added to classrooms A, B, and C. See G101, A102, and A201.

O. Indicate aisles/ramps in sanctuary meet IBC 1028.6 width requirements for the provided slope. (2012 IBC 1028.6)

BGW Response: Slope, widths, and maximum egress capacity have been indicated on aisles/ramps in sanctuary on sheet G101.