



MIKE CAUSEY
INSURANCE COMMISSIONER

BRIAN TAYLOR
STATE FIRE MARSHAL

November 21, 2024

Mr. Robbie Ferris
SfL+a Architects
333 Fayetteville Street, Suite 225
Raleigh, NC 27601

**RE: Flatwoods Middle School
Lillington, NC – Harnett County**

Dear Mr. Ferris,

Electronic construction documents received on 11-12-2024 relative to the above-named project have been reviewed for general compliance with the 2018 edition of the North Carolina State Building Code with the following comments. This review does not replace the plan review of the local Authority Having Jurisdiction (AHJ). This review is in addition to the plan review of the local AHJ. This plan review may contain comments related to Accessibility, Plumbing, Mechanical, Electrical, and Fire Codes.

Please provide a written response to the review comments and submit clouded revised signed, sealed plans as necessary. The comments shall describe which items are being addressed with the document set as well as where they are being addressed. Please also provide an electronic version of these updated plans via a download link or on a thumb drive as we are transitioning to electronic plans review, no CDs please.

This review does not cover the field house, dug outs, concession stands, ticket booth, ball fields or bleachers/grandstands.

1. Corrections/updates were not properly clouded as requested, see paragraph two above.
2. The following sheets are not listed in the drawing index but were provided: A-103, A-106, A-117 and A-306.
3. Response comment #9 noted, however section 27 53 19 was not included in manual. Page G-002 - Life Safety Section, Emergency responder radio coverage shall have radio coverage based on existing coverage levels of the public safety communications system. Provide a written statement of how the path to compliance to achieve this safety feature will move forward to meet the needs of the jurisdiction. 2018 NC Fire Code, section 510. Also, section 27 53 19 – Emergency Responder Radio Antenna-Repeater System needs to be added in the specifications manual for details of this system. Some information was found on Page FA-601.

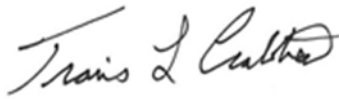
OFFICE OF STATE FIRE MARSHAL

4. Pages G-111 and G112 – Additional fire extinguisher required in the following areas due to travel distances exceeded or visibility is obscured: Gym 307 on north side.
5. Response comment #23 noted, however the details on the traffic exhibit could not be located, please identify which page. A passenger loading zone(s) per ANSI 503 appears to be designed into this project, if people are being dropped off at the site in a drop-off location(s). Please provide the details (signage, slopes, widths, lengths, stripping) of the loading zone shown at the front of the building. See NCDOT ADA update, August 2016.
6. Civil Drawings – Provide the following but not limited to: Knox boxes at front door and riser room door, etc.
7. Response comment #26 noted. Please provide the canopy shop drawings (deck, beam and brace) with the structural connection details when available.
8. Response comment #35 noted. Submit manufacturers signed, sealed and dated Glulam truss drawings including layout.
9. Response comment #36 noted, however the special inspections firm is not identified on specifications manual section 01 45 33, page 7 of Volume 1. The schedule of special inspections to be signed, sealed and dated with the firm's name and address in the table on page 7. 2018 NC Building Code, section 1704.1.1
10. Response comment #37 noted. Provide a Hazardous Materials Disclosure Inventory Statement formatted in accordance with Table 307.1 of the North Carolina Building Code that includes the volume of Stem/science chemicals, generator fuel, aerosols and sanitizing cleaners planned for this school project with regard to what would be on-site when open. These shall be identified as a solid, liquid or gas and be identified in pounds, gallons or cubic feet. Please provide a breakdown of the amounts being used and whether they are being used in an open or closed system. Control area may need to be identified as well.
11. Pages A-601 - Door schedule shows Doors C100.2, C100.3 and C100.4 with panic hardware, however I was unable to locate these doors. Also unable to locate door M100.1 to confirm fire rating. Please confirm page number of their locations.
12. Page A-601 – Life Safety plan shows doors C300, C300.1, C300.2 and C400.3 with panic hardware but these doors do not have panic hardware assigned to them.
13. Page A-601 – Doors C302X, 401 and 501.1X are listed to have panic hardware but these doors are not identified properly on the Life Safety sheet.
14. Page A-601 – Doors 307.2, 307.3, 608.2 are not shown the proper fire ratings.
15. Page G-111 – Panic hardware symbols are shown at the intersection of Corridors 101 and 102, however no doors could be located at this intersection on page A-111, may impact A-601.
16. Response comment #52 noted. Please provide the smoke and heat vent shop drawings (profiles, dimensions, accessories and fusible links) with the construction and roofing details when available.
17. Response comment #60 noted, however only half of the rooms were corrected. Page E-115.1 – Exit signs needed at Classrooms 505 and 507.

18. Response comment #68 noted, however the UL 142 update could not be located in the specification's manual. Provide UL listing for generator diesel fuel tank.

Further reviews will follow when the above issues have been addressed. We will await further information from you concerning this project.

Sincerely,

A handwritten signature in black ink, appearing to read "Travis L. Crabtree". The signature is written in a cursive style with a large initial 'T'.

Travis L. Crabtree
Building and Fire Code Consultant

TLC

CC: Harnett County