



Fire Marshal Division

November 30, 2018

April Eller
60 Coble Lakes Estate
Lillington, NC 27546
(910) 890-5777

Re: Coble Ski School Buildings Up-fit

Application Number FMFW 1810-0010

Mrs. Eller,

Thank you for submitting plans for the Coble Ski School. The plans have been carefully reviewed by a qualified code enforcement official to examine for full compliance with the North Carolina Fire Prevention Code and all other fire protection regulatory documents. There are some items that were found during the plan review process that need to be addressed before a final inspection of the new facility can be given. These items are outlined and described below.

- **105.7.1 Automatic fire-extinguishing systems.**
 - A construction permit is required for the fire sprinkler system installation before any such work commences. Submit complete construction documents that include the hydraulic calculations for the system. The system shall also be designed consistent with the architectural design documents and specifications. Construction documents shall include detail as described in NFPA 13D standard for automatic sprinkler system installation. Contractor must obtain construction permit for the fire sprinkler system before commencement of any work.

- **105.7.5 Fire alarm construction permits.**
 - A construction permit is required for the fire alarm installation. Submit complete shop drawings consistent with the architectural design documents and specifications. Shop drawings shall include detail as described in Section 907.1.2 of the NC State Fire Code. Contractor must obtain the construction permit for the fire alarm system before commencement of any work.



- **505.1 Physical Address**
 - The physical address of the building shall be posted in a conspicuous place so that it can be seen on approach from the road, access road, and/or parking lot.
 - The numbers used to make up the physical address shall be at least 5 inches in height.

- **506.1 Knox Box**
 - A Knox Box secure key box shall be installed on the new building that houses all keys to all the doors within the building in which the fire department would need access to in the event of an emergency. <https://www.knoxbox.com/commercial-knox-boxes>
 - The box shall be mounted 48 – 60 inches in height. Coordinate exact location with the Fire Marshal's Office staff.

- **507.3 Fire Flow (NFF)**
 - Provide a fire flow analysis for the building(s) and determined by an approved method. NC Fire Code Appendix B is acceptable method.

- **901.2.1 State of Compliance.**
 - Before requesting final approval of the installation, where required by the fire code official, the installing contractor shall furnish a written statement to the fire code official that the subject fire protection system has been installed in accordance with the manufacture's specifications and the appropriate installation standard. Any deviations from the design standards shall be noted and copies of the approvals for such deviations shall be attached to the written statement.

- **906.1 Fire Extinguishers**
 - Fire extinguishers shall be placed in approved locations as drawn by the code enforcement official on the approved plans.
 - The fire extinguishers provided shall have a minimum rating of 2A 10B:C and shall not be installed higher than 5 feet above the finished floor.
 - Fire extinguishers shall be serviced and tagged on a yearly basis by an authorized company.
 - A Class K fire extinguisher is required in the kitchen within 30ft. of the cooking equipment.



- Provide fire extinguishers in all special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms.

- **907.17 Acceptance tests.**
 - A complete acceptance test is required to be witnessed by a representative from the fire marshal's office in conjunction with the installing contractor for each of the following. Notify the fire marshal's office in advance to schedule a test. (910) 984-4003.
 - Visual Inspection of Underground Line (with proper restraints)
 - Hydrostatic Test and Flush of Underground Line
 - Above Ceiling Inspection of ALL pipe and fittings
 - Hydrostatic Test of ALL piping
 - Pump Certification Test
 - Flow Test of sprinkler/standpipe system
 - Standpipe Certification
 - 100 % test of Fire Alarm System
 - Acceptance Test of Kitchen Ansul Fire Suppression System.

- **907.18 Record of completion.**
 - A record of completion in accordance with NFPA 72 verifying that the system has been installed in accordance with the approved plans and specifications shall be provided.

- **1029.1 Emergency escape and rescue (B).**
 - Emergency escape and rescue openings shall be provided in rooms where distance of travel to exits exceeds 150'.

- **1004.2 Increased Occupant Load.**
 - The referenced highlighted and noted areas on the plans indicate occupant loads that exceed code requirements. The intent of the referenced plan note attempting to allow an increased occupant load is addressed by 2012 Code Commentary with the intent of addressing standing room events. This does not correspond to the intent of sleeping quarters as submitted. Consider the dormitory definition as it may apply to the proposed use.



Thank you again for submitting plans for Coble Ski School. Please review the plans and adhere to any notes and alterations that were made in addition to the original drawings. These remarks are for the plans that were submitted and its original intent. These remarks do not apply if the original intent changes or what was submitted on the above date changes. If you have any questions, please do not hesitate to call this office.

Please schedule all fire inspections through the Fire Marshal's Office at (910) 984-4003.

Again, thank you and we look forward to working with you during the construction period!

Sincerely,



D. Banks Wallace