

West Windsor Township Fire & Emergency Services

Memorandum

DATE: May 4, 2021

TO: West Windsor Technical Review Committee

FROM: Chief Timothy M. Lynch

REGARDING: PB 20-13, Trustees of Princeton University – Lake Campus North

OVERVIEW

The proposed application is for a 73 acre portion of the site for Princeton University's Lake Campus North. The proposed improvements include graduate student housing, a racquet center, operations center, and rugby and recreation fields.

ACCESS

- Due to the limited access, No Parking Fire Lanes shall be created by the applicant along all curb areas to restrict curbside parking from the entire site. Applicant should contact our office to discuss method of marking fire lanes.
- Applicant has stated that they intend to upgrade the required fire suppression system to a full NFPA 13 sprinkler system. This upgrade meets the requirements under the international building code for the building to be considered "fully sprinklered". With this upgrade the proposed emergency vehicle access to the structures exceeds the required 50% and is acceptable.
- Applicant has agreed to modify the landscaping in a way that would grant fire department access to the outside of the buildings from a series of designated locations. This would allow the applicant to keep the landscaping theme as presented while resolving all of the fire department concerns regarding emergency vehicle access.

WATER SUPPLY FOR FIRE PROTECTION

- The proposed fire hydrant locations identified on the site water plan appear in compliance with the Township standard for hydrant locations, and appear to be adequate and appropriately located for fire protection water supply in this area.
- As stated above, the applicant has agreed to voluntarily upgrade the fire suppression systems in the building to exceed the minimum requirements in the code. This upgrade has alleviated all concerns this office had regarding the fire suppression system and fire protection water supply.



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MISCELLANEOUS

- A lock box to allow immediate access by the Fire Department shall be installed on all buildings. Applicant should contact this office to discuss appropriate locations on each building for the lock box as well as fire department connections.
- Applicant should be aware that under N.J.A.C. 5:70, 510.1 *Emergency Responder Radio Coverage* – “*All new buildings shall have approved radio coverage for emergency responders within the building based upon existing coverage levels of the public safety communications systems of the jurisdiction at the exterior of the building.*”
 - a. The applicant may be required by the construction official to conduct a radio signal strength survey of the building while under construction, and if deemed necessary a radio signal amplification system would need to be installed.

CONCLUSION

- The applicant has resolved all concerns held by this office, and has voluntarily agreed to upgrade the fire protection system in the building at the recommendation of the fire marshal. I have no further concerns and recommend approval.



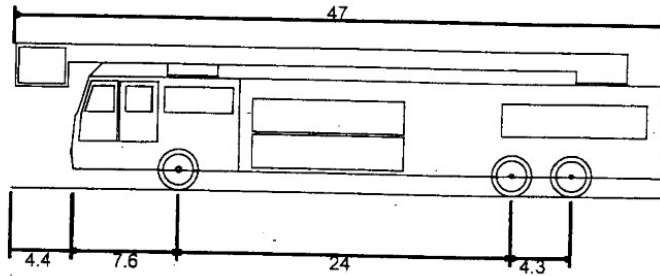
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West Windsor Township Fire & Emergency Services

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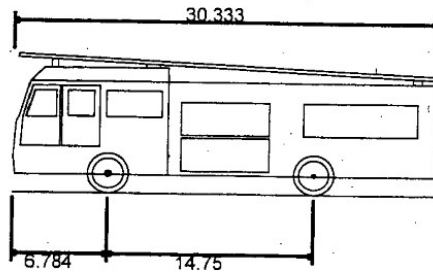
Fire Apparatus Dimensions for Turning Radii

The illustrations below of West Windsor Township fire apparatus may be used for determining the needed turning radii required for access to proposed applications for land development.



AERIAL 100' LADDER

Overall Length	47.000ft
Overall Width	8.333ft
Overall Body Height	10.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	36.250ft



PUMPER

Overall Length	30.333ft
Overall Width	8.333ft
Overall Body Height	10.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°



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