



## Wright-Tallmadge Fire Department

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I reviewed the site plan for Ironwood Manufacturing at 13960 Ironwood DR NW. International Fire code has requirements for driveways, parking lots, and access roads that help ensure fire department access in the event of an emergency. All driveways and access roads must be constructed in a method which is capable of supporting the imposed load of a fire apparatus weighing at least 75,000 lbs. The design of the driveways and parking lot will allow adequate access for fire apparatus. This property will be required to have a Knox Box installed at a location approved by the Fire Chief.

Fire flow calculations are based upon construction type and whether or not the structure has a suppression system installed. Due to the distance from the roadway, the proposed structure will require private fire hydrants to be installed at the property. The current plan shows 3 private hydrants in the vicinity of the initial 140,000ft<sup>2</sup> structure and 2 additional private hydrants near the proposed future expansions. I have been in contact with Laura Schaner regarding the proposed construction type of this building. The exact construction type code will alter the fire flow requirements. At the time of this review, we do not have the exact construction type so it should be noted that additional private hydrants may need to be supplied by the applicant in order to meet the final calculated fire flow requirements.

Code References: 2012 IFC (International Fire Code)

- 75,000lb Imposed Load: D102.1
- Requirement of Knox Box: 506.1
- Fire Flow Requirements: B105.1 and C105.1

**Jon Alkema**

*Deputy Chief*

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