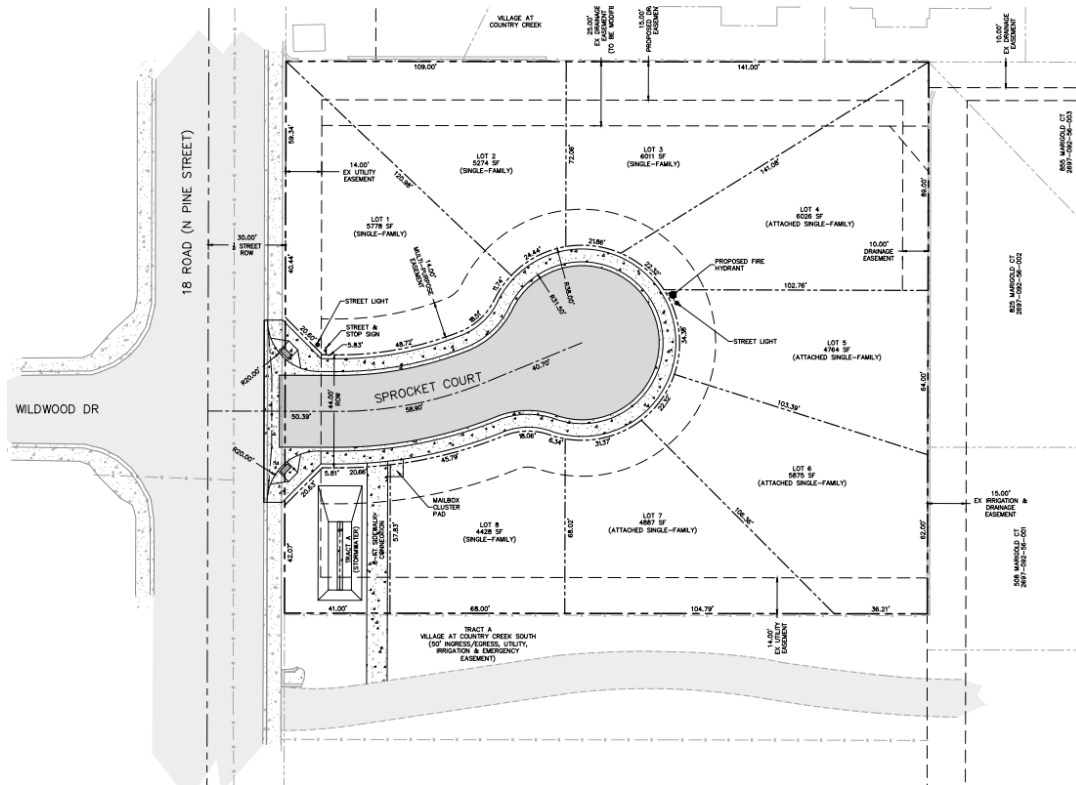




# Level One – Trip Generation Assessment for Gear Estates

## Project Description

1. Location: The subject property is located at 1156 18 Road with a Parcel #2697-092-47-001 and a legal description of Lot 1 Peterson Minor Subdivision. The property is located along the east side of 18 Road (N Pine Street), south of K 6/10 Road and directly across from Wildwood Drive. An existing residential dwelling unit was previously located on the property with several outbuilding(s) located throughout.
2. Acreage: The subject property currently consists of approximately 1.23 acres.
3. Proposed Use: The subject property will be subdivided into eight (8) residential lots and Tract A which will be for stormwater water quality. A new public street, Sprocket Court, will be constructed that will give access to 18 Road.



Subdivision Layout

# Level One – Trip Generation Assessment for Gear Estates

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## **Existing Access**

Access to the property is from two (2) curb cuts along 18 Road. Listed below is a picture of the current access points:



**Field Access along I-70 Frontage**

18 Road is considered a Major Collector with a posted speed limit of 35 mph adjacent to the project site. Wildwood Drive, located directly across from the property, is considered a Residential Local with a posted speed limit of 25 mph. The K 6/10 / Primrose Lane intersection is located approximately 300-feet north of the property while K 4/10 Road is located approximately 800-feet south.

## **Proposed Access**

The existing two (2) curb cuts will be removed and a new residential local roadway, Sprocket Court, will be constructed that aligns directly across from Wildwood Drive. Sprocket Court will be a 44-foot right-of-way with a cul-de-sac termination at the east end. Sight distance from the proposed Sprocket Court will be excellent in both the north and south directions.

## **Trip Generation Rates**

Typical trip generation rates for single family subdivisions are one (1) trip in the peak hour for each single-family home. Based on the standard generation rates eight (8) trips are expected at the peak hour(s).

## **Auxiliary Lane Requirements**

According to Right Turn Lane and Left Turn Lanes warrants stated in the Transportation Engineering Design Standards (TEDS) manual Gear Estates Subdivision will not require auxiliary turn lanes for the expected eight (8) peak hour trips.