

# Austin Oaks Planned Unit Development

## Proposed Traffic Improvements

11.17.2014

### Introduction

This document is intended to highlight the traffic improvements envisioned by the Austin Oaks Planned Unit Development (PUD). It addresses two sets of proposed improvements:

1. Those envisioned by a Traffic Impact Analysis (TIA) ongoing for the site; and
2. Additional traffic improvements that could be implemented by the project developer to further alleviate traffic and safety issues near the site, but not specifically related to the PUD.

### Status of the Traffic Impact Analysis (TIA) Report

On June 26, 2014, Bury developed and submitted a Traffic Impact Analysis (TIA) Report related to the Austin Oaks Planned Unit Development (PUD). Based on comments received from the City, various stakeholders, and components of the project that have continued to evolve, a revision was submitted to the City of Austin on August 19, 2014. Review comments on this latest submittal are still pending from the City of Austin.

### Description of Exhibits

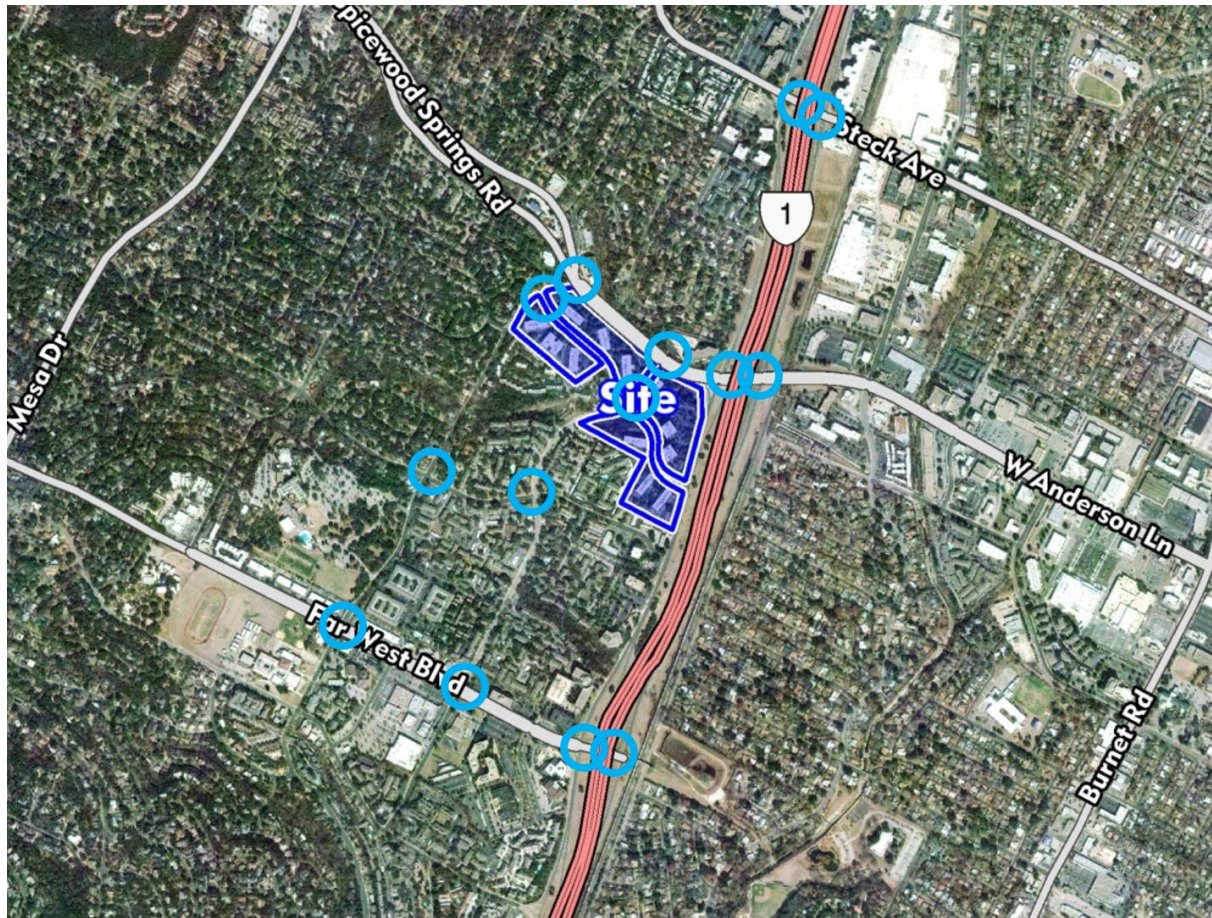
The following sections of the document are organized according to the two sets of proposed improvements described above. Each sheet in this document presents a specific intersection near the Austin Oaks PUD, diagrams depicting the improvements related to the intersection, a list of the phased improvements planned for the intersection, and a graph showing expected Level of Service impacts against existing conditions.

# Austin Oaks Planned Unit Development Proposed Traffic Improvements

## Traffic Impact Analysis (TIA)

# Austin Oaks Planned Unit Development

Intersections Studied as part of the TIA



The following intersections were studied as part of the Bury TIA:

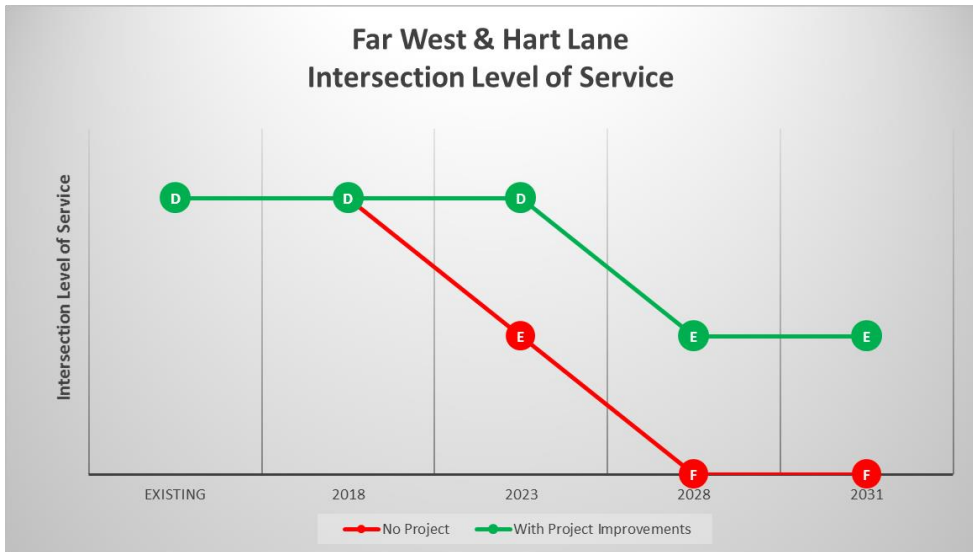
1. Far West Boulevard & Hart Lane
2. Far West Boulevard & Wood Hollow Drive
3. Far West Boulevard & Mopac Southbound Frontage Road
4. Far West Boulevard & Mopac Northbound Frontage Road
5. Spicewood Springs Road & Mopac Southbound Frontage Road
6. Spicewood Springs Road & Mopac Northbound Frontage Road
7. Spicewood Springs Road & Wood Hollow Drive/Private Driveway
8. Steck Avenue & Mopac Southbound Frontage Road
9. Steck Avenue & Mopac Northbound Frontage Road
10. Greystone Drive & Hart Lane
11. Greystone Drive & Wood Hollow Drive
12. Executive Center Drive & Wood Hollow Drive
13. Executive Center Drive & Hart Lane
14. Spicewood Springs Road & Hart Lane

# Austin Oaks Planned Unit Development

## Far West Boulevard & Hart Lane



Improvement	Year	Estimated Cost (\$)
Restripe southbound Hart Lane approach to provide southbound left turn lane and one shared thru right lane	2023	
Signal modification for northbound and southbound Hart Lane approaches	2023	
Revise signal split timing	2023	



**Levels of Service:**

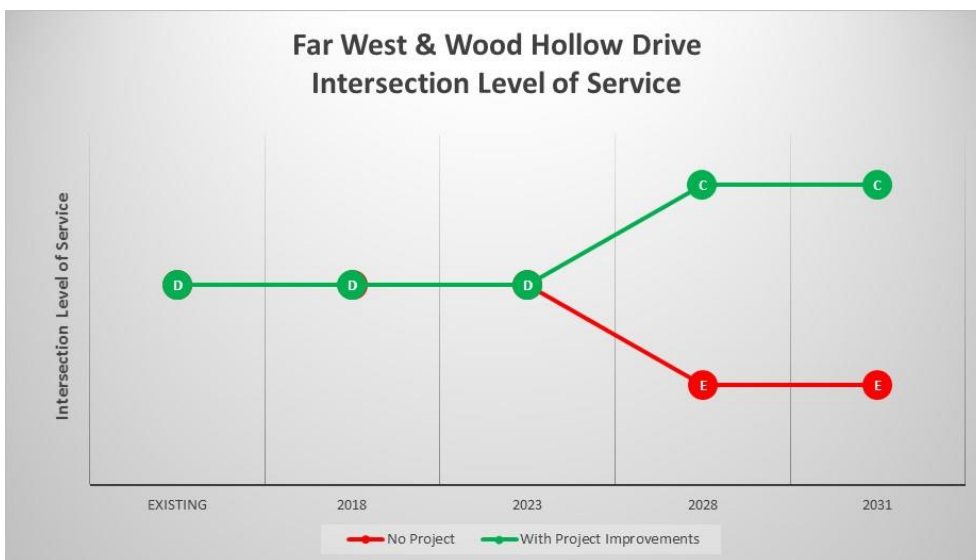
- A: Good progression and short cycle lengths.
- B: Good progression or short cycle lengths; more vehicle stops.
- C: Fair progression and/or longer cycle lengths; some cycle failures.
- D: Congestion becomes noticeable, high volume to capacity ratio.
- E: Limit of acceptable delay, poor progression, long cycles, and/or high volume
- F: Unacceptable to drivers; volume greater than capacity.

# Austin Oaks Planned Unit Development

## Far West Boulevard & Wood Hollow Drive



Intersection	Improvement	Year	Estimated Cost (\$)
Far West Boulevard & Wood Hollow Drive	Signal Modifications for northbound and southbound Wood Hollow Drive approaches	2028	
	Revise signal split timing	2028	

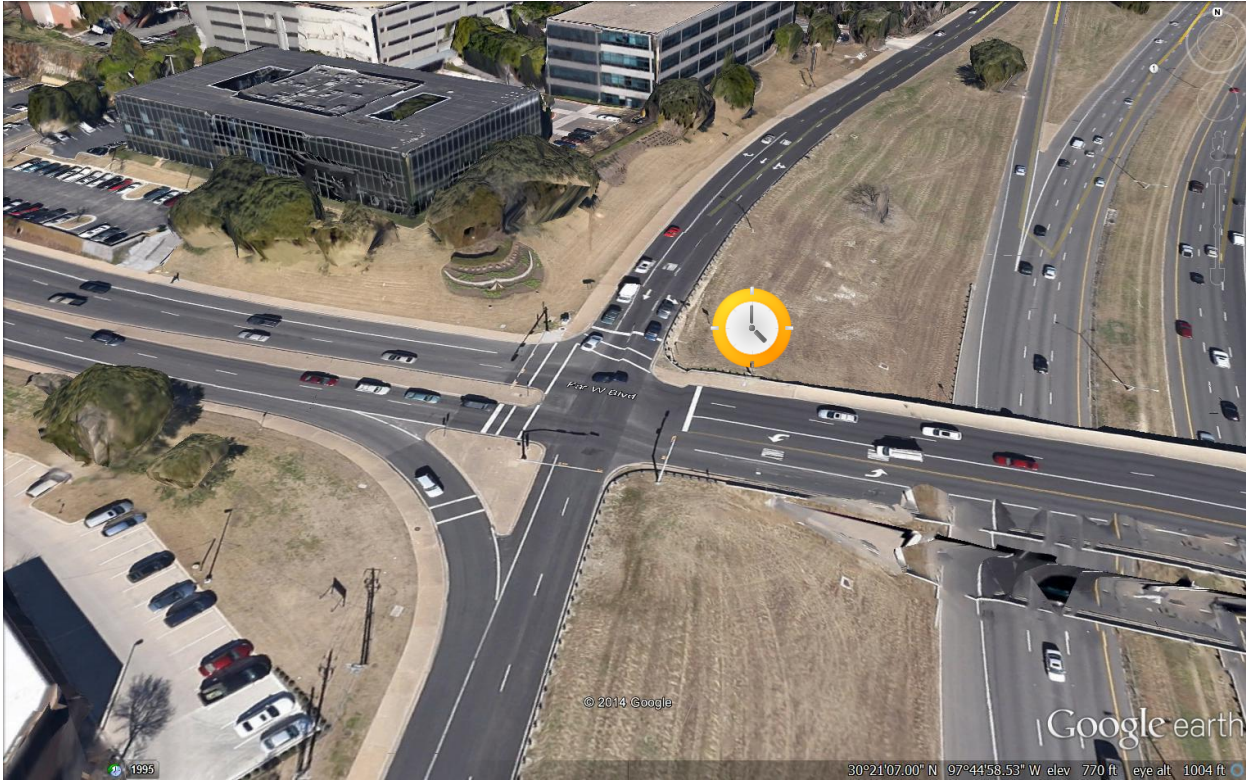


**Levels of Service:**

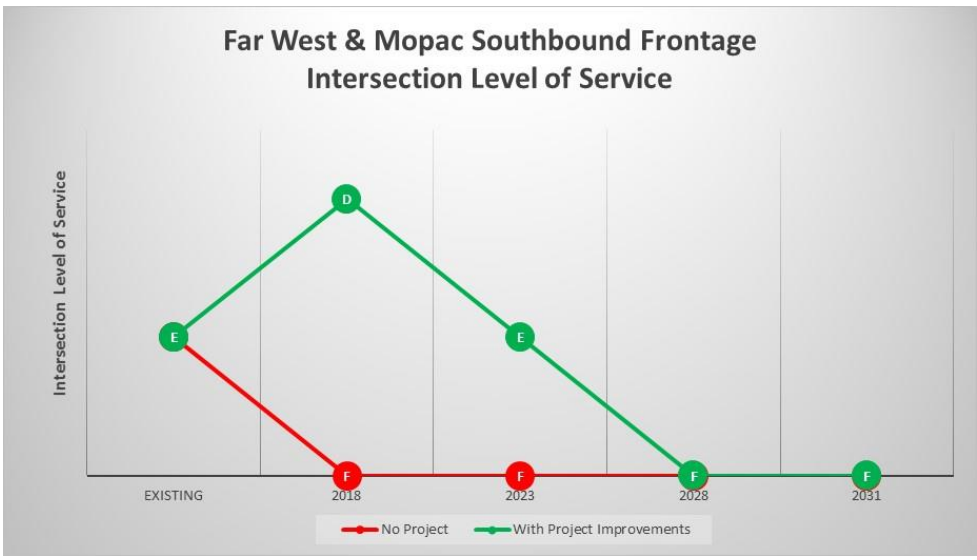
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# Austin Oaks Planned Unit Development

## Far West Boulevard & Mopac Southbound Frontage



Intersection	Improvement	Year	Estimated Cost (\$)
Far West Boulevard & Mopac Southbound Frontage	Revise signal split timing	2018	

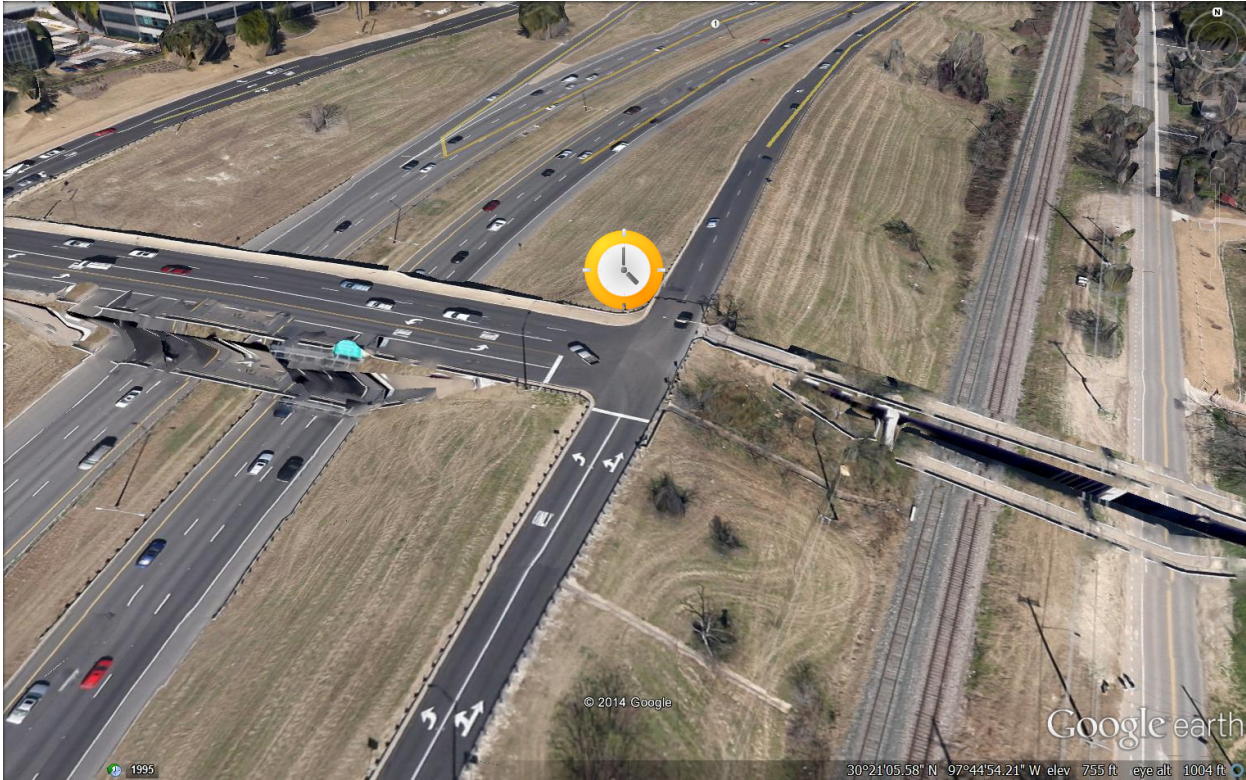


**Levels of Service:**

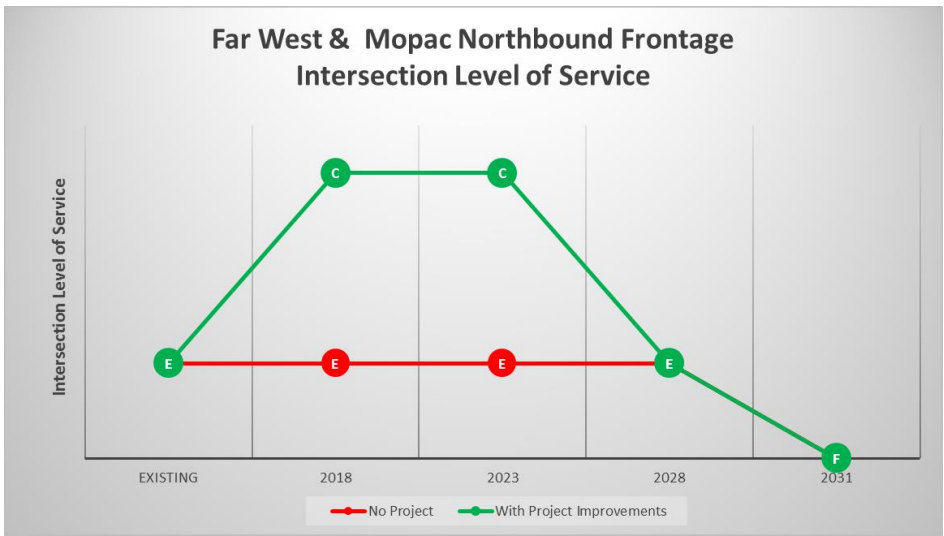
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# Austin Oaks Planned Unit Development

## Far West Boulevard & Mopac Northbound Frontage



Intersection	Improvement	Year	Estimated Cost (\$)
Far West Boulevard & Mopac Northbound Frontage	Revise signal split timing	2018	

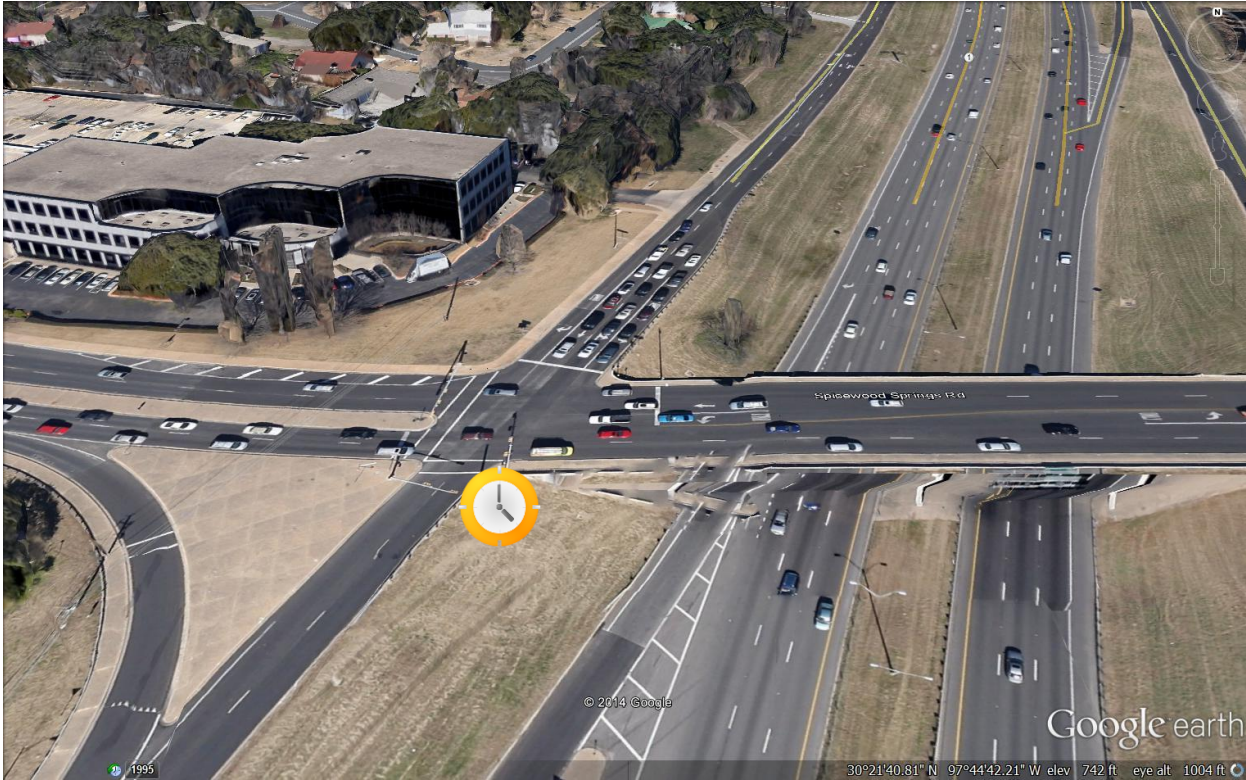


**Levels of Service:**

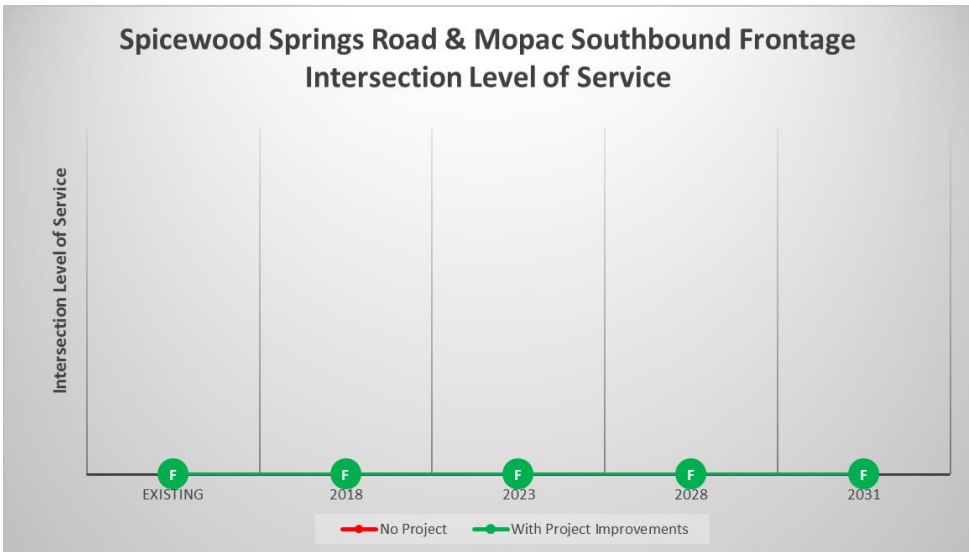
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- E: Limit of acceptable delay, poor progression, long cycles, and/or high volume
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# Austin Oaks Planned Unit Development

## Spicewood Springs Road & Mopac Southbound Frontage



Intersection	Improvement	Year	Estimated Cost (\$)
Spicewood Springs Road & Mopac Southbound Frontage	Revise signal split timing	2018	



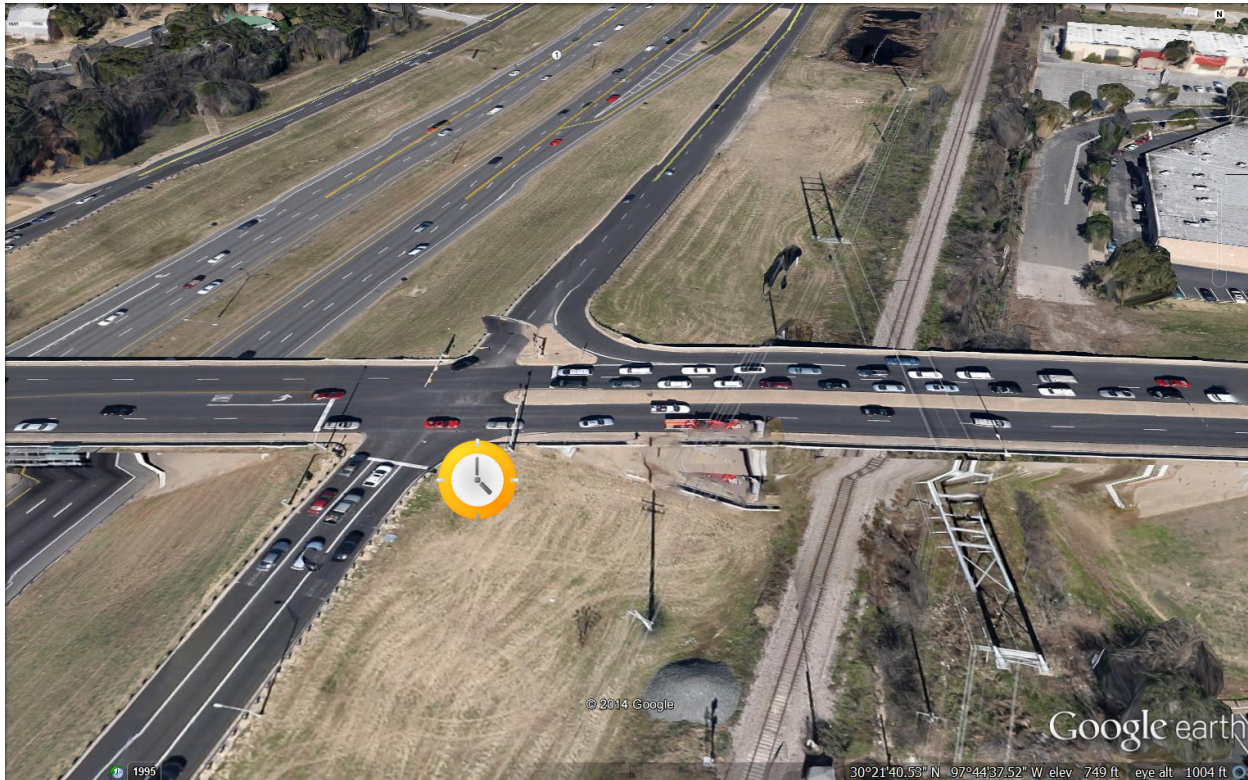
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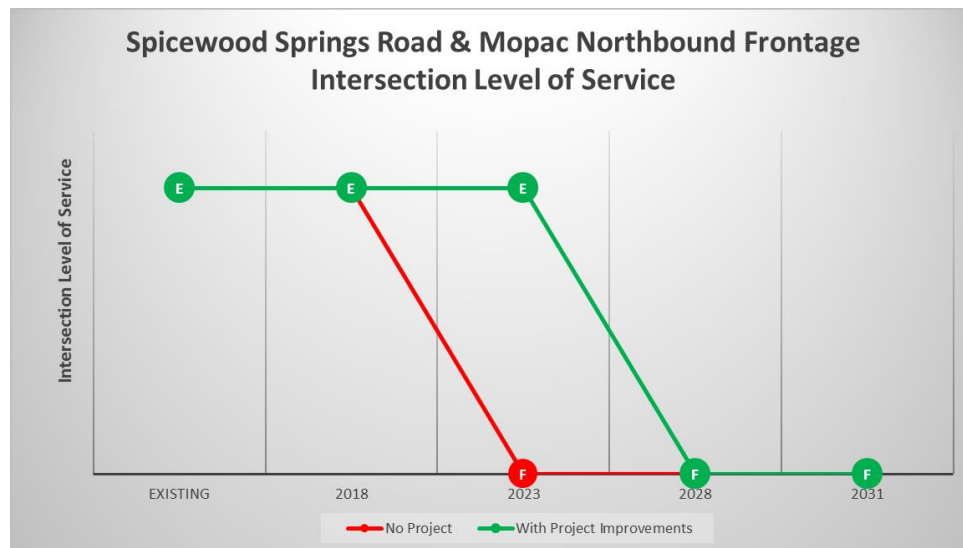


# Austin Oaks Planned Unit Development

## Spicewood Springs Road & Mopac Northbound Frontage



Intersection	Improvement	Year	Estimated Cost (\$)
Spicewood Springs Road & Mopac Northbound Frontage	Revise signal split timing	2018	



### Levels of Service:

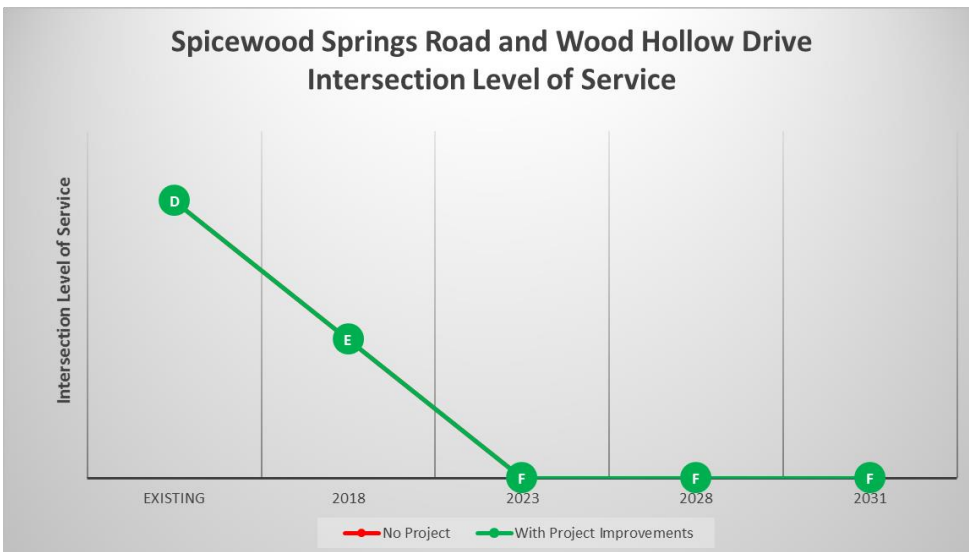
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- E: Limit of acceptable delay, poor progression, long cycles, and/or high volume
- F: Unacceptable to drivers; volume greater than capacity.

# Austin Oaks Planned Unit Development

## Spicewood Springs Road & Wood Hollow Drive/Private Drive



Intersection	Improvement	Year	Estimated Cost (\$)
Spicewood Springs Road and Wood Hollow Drive	Restripe northbound Wood Hollow Drive to provide 3 lanes: 1 northbound left turn lane, 1 shared thru right lane, and 1 northbound right turn lane	2018	
	Revise signal split timing	2018	

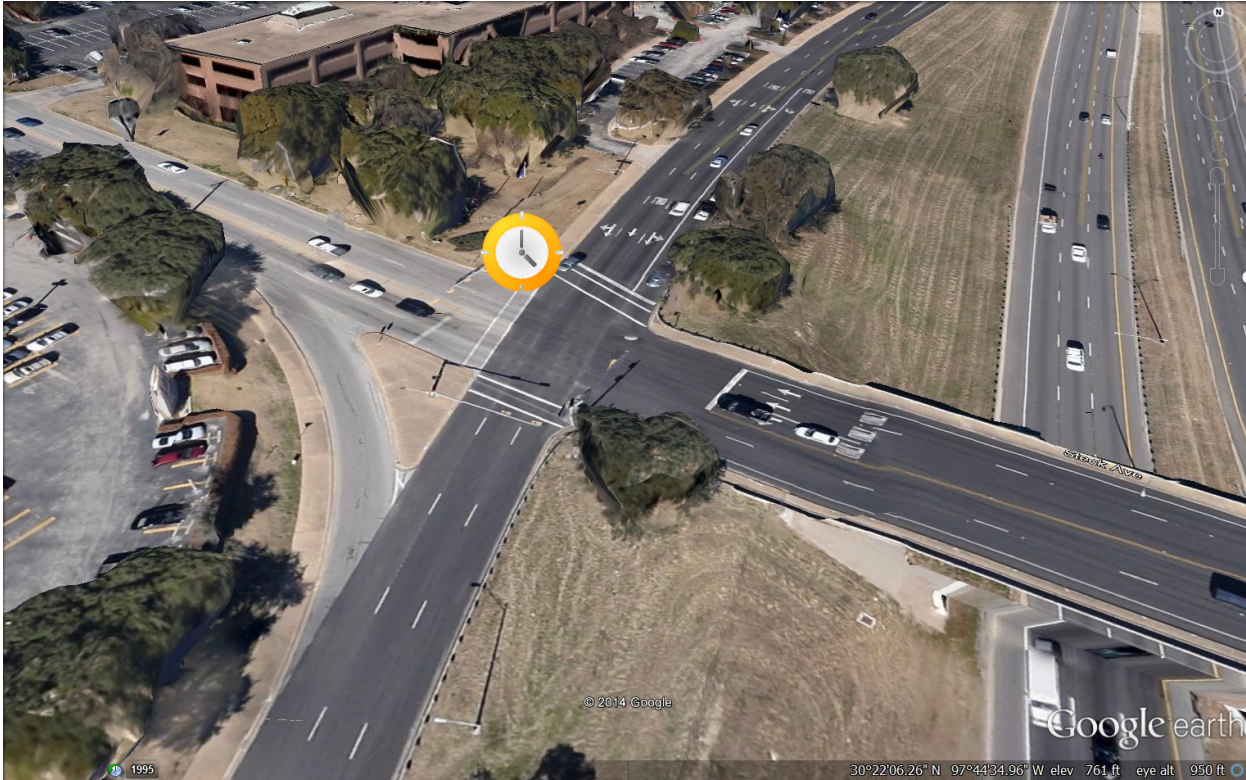


**Levels of Service:**

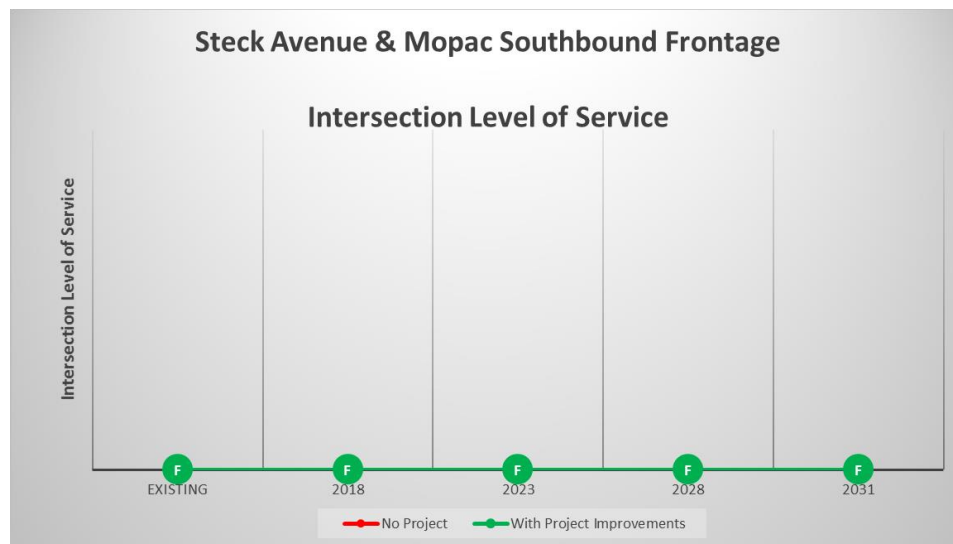
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# Austin Oaks Planned Unit Development

## Steck Avenue & Mopac Southbound Frontage



Intersection	Improvement	Year	Estimated Cost (\$)
Steck Avenue & Mopac Southbound Frontage	Revise signal split timing	2018	

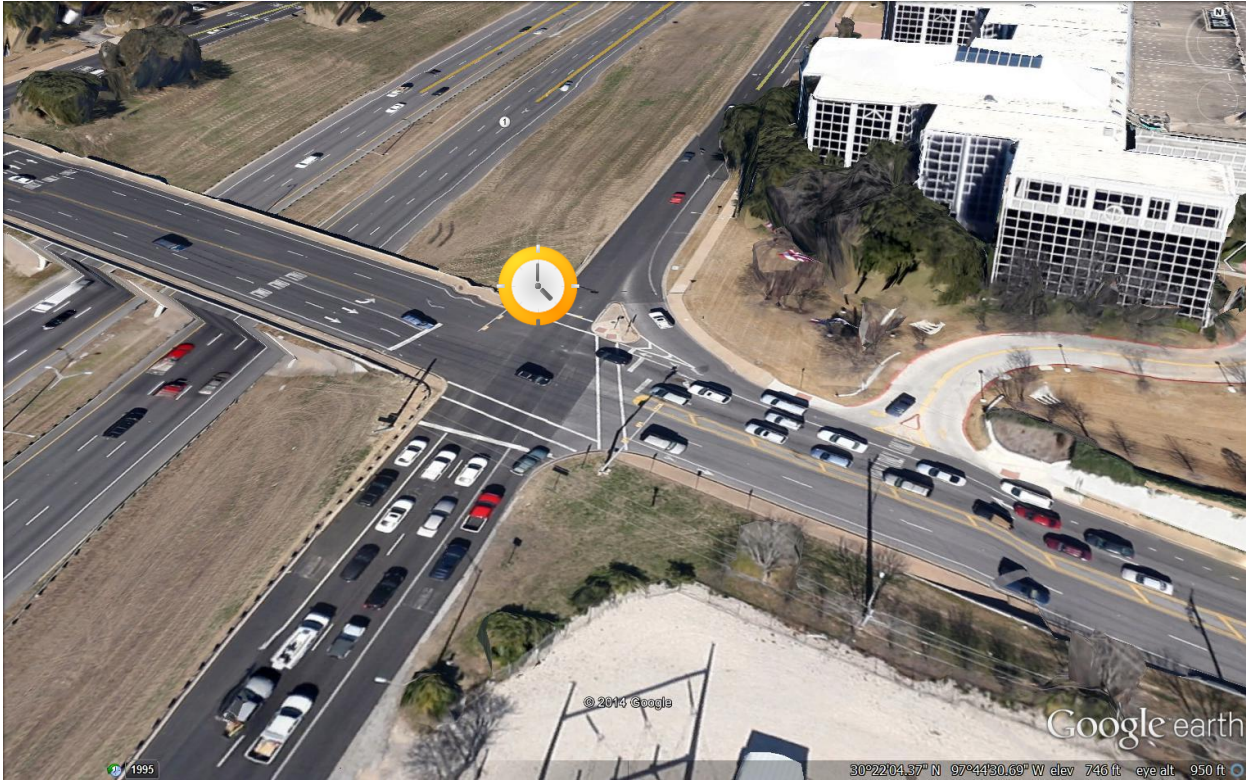


**Levels of Service:**

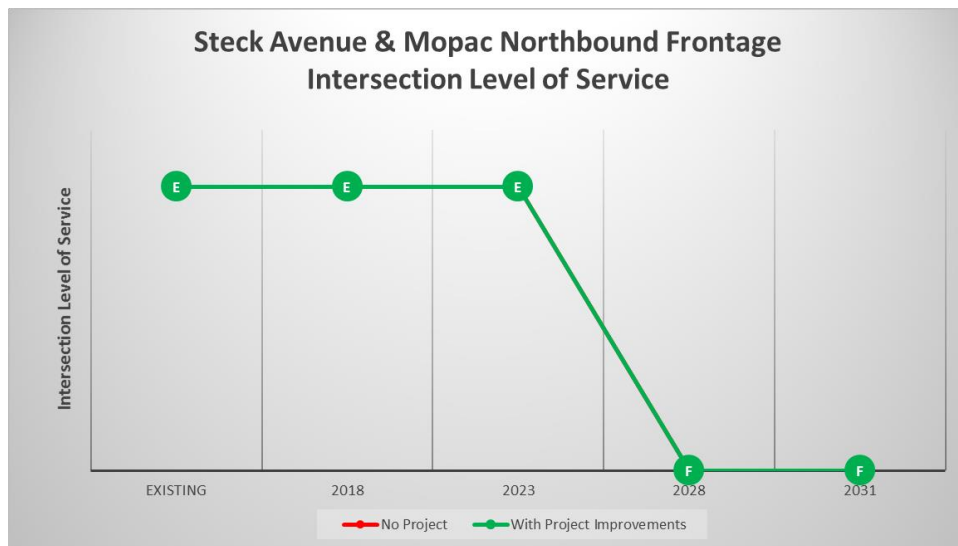
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- D: Congestion becomes noticeable, high volume to capacity ratio.
- E: Limit of acceptable delay, poor progression, long cycles, and/or high volume
- F: Unacceptable to drivers; volume greater than capacity.

# Austin Oaks Planned Unit Development

## Steck Avenue & Mopac Northbound Frontage



Intersection	Improvement	Year	Estimated Cost (\$)
Steck Avenue & Mopac Northbound Frontage	Revise signal split timing	2018	



**Levels of Service:**

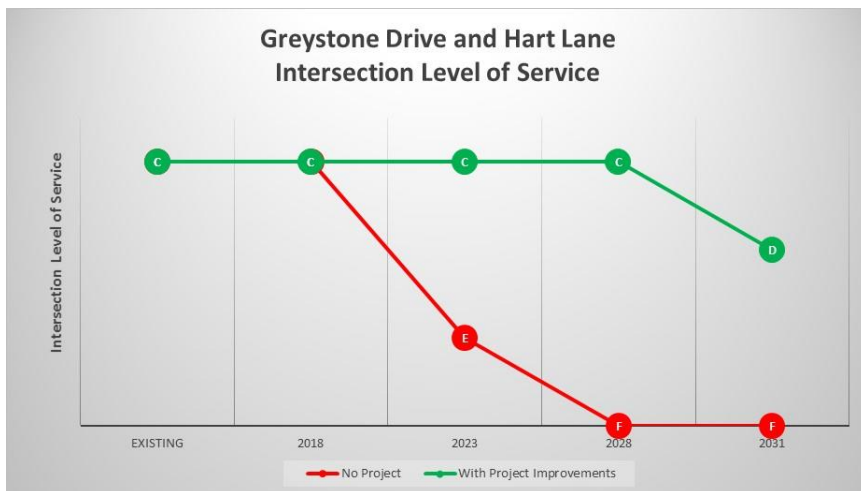
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# Austin Oaks Planned Unit Development

## Greystone Drive & Hart Lane



Intersection	Improvement	Year	Estimated Cost (\$)
Greystone Drive & Hart Lane	Stripe northbound and southbound Hart Lane to provide 2 lanes: 1 shared left thru lane, & 1 shared thru right turn lane.	2023	
	Restripe eastbound & westbound Greystone Drive approaches to provide shared left thru & shared thru right turn lanes.	2023	



**Levels of Service:**

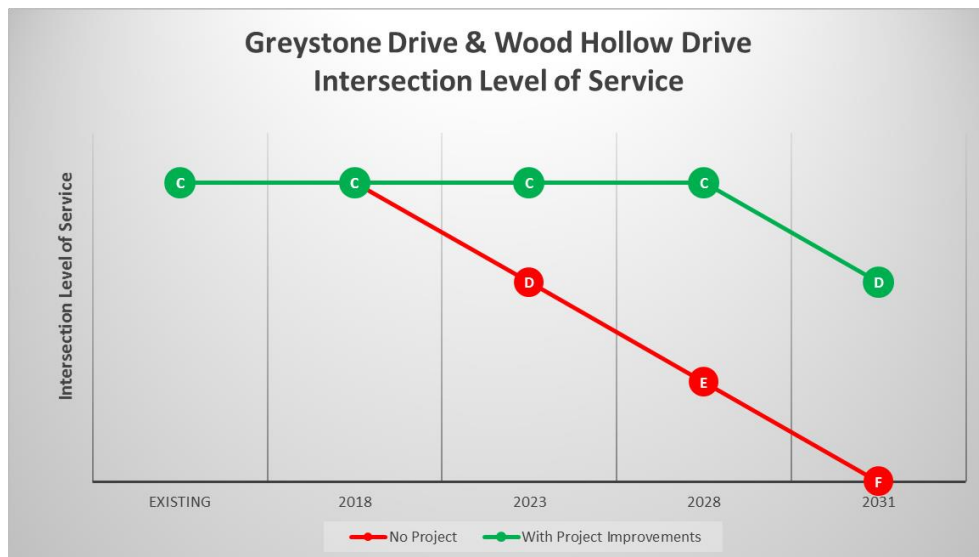
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# Austin Oaks Planned Unit Development

## Greystone Drive & Wood Hollow Drive



Intersection	Improvement	Year	Estimated Cost (\$)
Greystone Drive & Wood Hollow Drive	Restripe eastbound and westbound Greystone Drive approaches to provide 1 shared left-thru and 1 shared thru right turn lane.	2028	



**Levels of Service:**

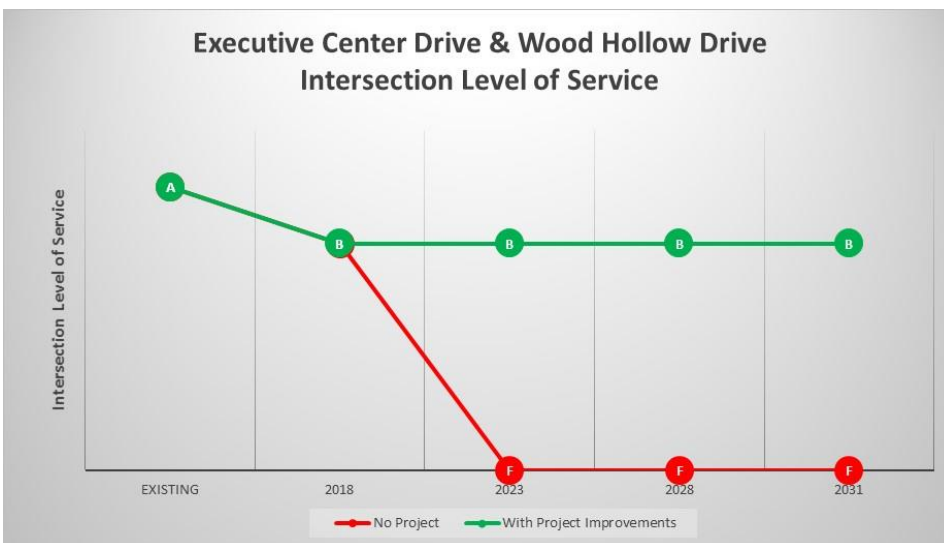
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# Austin Oaks Planned Unit Development

## Executive Center Drive & Wood Hollow Drive



Intersection	Improvement	Year	Estimated Cost (\$)
Executive Center Drive & Wood Hollow Drive	Add a traffic signal.	2018	



### Levels of Service:

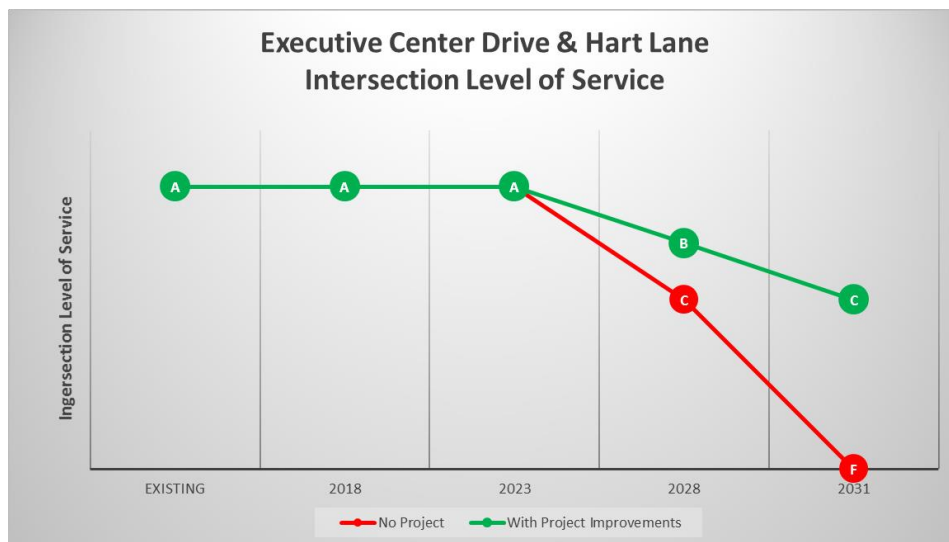
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- E: Limit of acceptable delay, poor progression, long cycles, and/or high volume
- F: Unacceptable to drivers; volume greater than capacity.

# Austin Oaks Planned Unit Development

## Executive Center Drive & Hart Lane



Intersection	Improvement	Year	Estimated Cost (\$)
Executive Center Drive & Hart Lane	Stripe northbound Executive Center Drive approach to provide 2 lanes: 1 northbound left turn lane and northbound right turn lane.	2028	



**Levels of Service:**

- A: Good progression and short cycle lengths.
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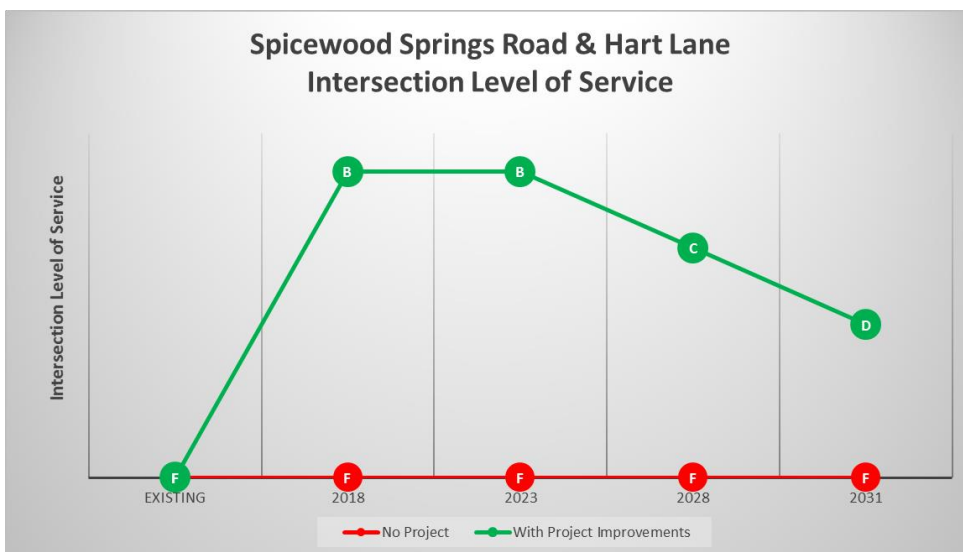


# Austin Oaks Planned Unit Development

## Spicewood Springs Road & Hart Lane



Intersection	Improvement	Year	Estimated Cost (\$)
Spicewood Springs Road & Hart Lane	Add a traffic signal.	2018	



**Levels of Service:**

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# Austin Oaks Planned Unit Development Proposed Traffic Improvements

## Potential Additional Improvements

# Austin Oaks Planned Unit Development

## Potential Additional Improvements

Location	Improvement	Year	Estimated Cost (\$)
Far West Boulevard & Mesa	Add a traffic signal.		\$420,000
Hart Lane	Construct sidewalks		\$10,000
Hart Lane	Construct speed cushions		\$40,000