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Sterling Ranch Sketch Plan 2023 Amendment & Rezone Traffic Technical Memorandum PCD Filling Nos. SKP235, P239, P2310, and P2311

(LSC #S224441) December 15, 2023

LSC Responses to TIS Redline Comments

Traffic Engineer's Statement

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



Developer's Statement

I, the	Develo	oper, h	nave rea	d and	wil	comply	y with al	l comm	itments	made	e on my	beh	alf wi	thin	this	rep	ort
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	Date

LSC Responses to Sterling Ranch SKP_TIS Redlines - Jan 2024

Page: 1

Number: 1 Author: jchodsdon Subject: Text Box Date: 1/22/2024 18:25:44

LSC Responses to TIS Redline Comments

number of residential dwelling units for Sterling Ranch is capped at 4,800. No change to the maximum number of residential dwelling units is proposed as part of the 2023 Sketch Plan Amendment. However, the currently proposed plan includes a rezone of the parcels north of Briargate Parkway to allow for higher residential densities.

The 2022 MTIS assumed the Sterling Ranch development would be built with the maximum allowable number of residential units. As many of the residential parcels within Sterling Ranch were either existing, approved, under review, or in the preliminary planning stages, and therefore had a known number of dwelling units, the MTIS assumed that the areas north of Briargate Parkway and east of Sterling Ranch Road where detailed plans had not yet been made would be developed with the number of dwelling units needed to reach the maximum of 4,800 dwelling units for the overall development even though that number was greater than what was allowed by the zoning for those parcels. This area was included in the MTIS as Traffic Analysis Zones (TAZ) 30, 34, 35, 36 (which are located just north of Briargate Parkway), and TAZ 101 (currently proposed to be rezoned). Table 1 shows the number of residential dwelling units assumed in the MTIS for each TAZ in this area and the number of dwelling units that would be allowed based on the currently proposed plan. As shown in Table 1, the MTIS assumed 1,302 single-family residential dwelling units in this area (TAZs 30, 34, 35, 36, and 101). The currently-proposed plan would allow between 894 and 1,438 residential single-family residential dwelling units. As the total number of allowable residential dwelling units in the overall Sterling Ranch development has not been increased, the 1,302 dwelling units shown for this area in the MTIS is likely still a reasonable assumption. If up to 1,418 dwelling units are constructed in the area north of Briargate Parkway and east of Sterling Ranch Road, the number of dwelling units in other areas of Sterling Ranch Sketch Plan area that have not yet been developed would need to be reduced by at least 116 dwelling units (so the overall Sterling Ranch dwelling unit cap is not exceeded).

Study-Area Access Plan

No changes to the access plan are proposed as part of this Sketch Plan Amendment.

Sterling Ranch Road is no longer planned to be directly extended to Arroya Lane, which is planned to be upgraded to a Minor Rural Collector as part of the TimberRidge Filing No. 3 (SF2241). A connection will be provided to Arroya Lane via a circulation Urban Local street network.

TRIP GENERATION

Add statement that this connection will be further analyzed with subsequent subdivision submittals.

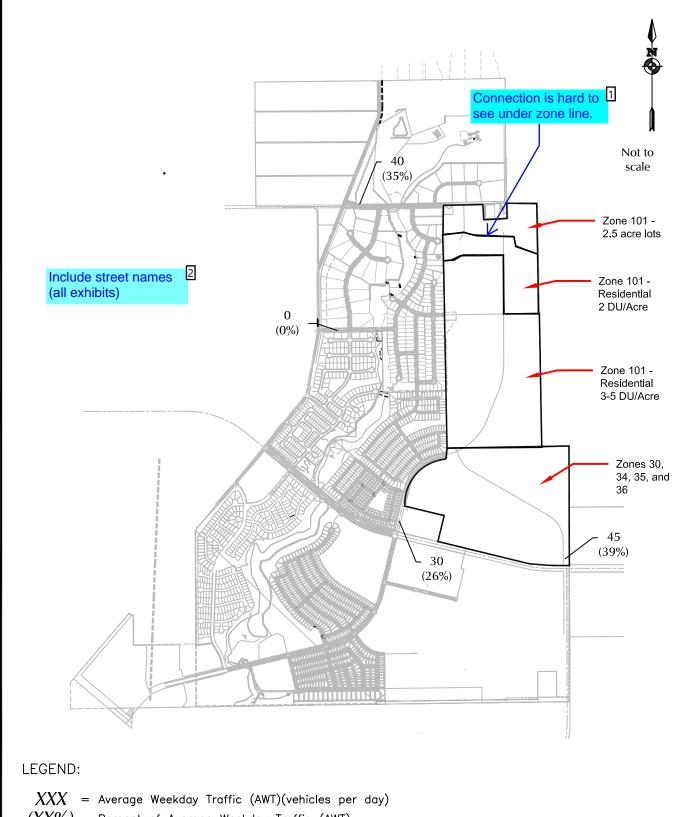
Table 2 shows the trip-generation estimate for the areas north of Briargate Parkway and east of Sterling Ranch Road (TAZs 30, 34, 35, 36 and 101) should they be developed with 1,418 residential dwelling units, which is the maximum number of units based on the currently-proposed zoning. The trip generation was estimated using the nationally-published trip-generation rates from *Trip Generation*, 11th Edition, 2021 by the Institute of Transportation Engineers (ITE). Note that the trip generation for the **overall** Sterling Ranch Master Plan is not anticipated to change from what was assumed in the March 2023 MTIS as the maximum number of residential units for the overall

Number: 1 Author: CDurham Subject: Text Box Date: 1/10/2024 12:05:31

Add statement that this connection will be further analyzed with subsequent subdivision submittals.

Author: kdferrin Subject: Sticky Note Date: 7

LSC Response: The text has been revised as requested. Date: 1/17/2024 11:53:50



(XX%) = Percent of Average Weekday Traffic (AWT)

Figure 3a



Zone 101 (2.5 Acre Lots) Generated Average Weekday Traffic

Sterling Ranch Sketch Plan - 2023 Amendment and Rezone (LSC# S224441)

Number: 1 Author: CDurham Subject: Callout Date: 1/10/2024 08:11:56 Connection is hard to see under zone line. Author: kdferrin Subject: Sticky Note Date: 1/17/2024 11:53:35 LSC Response: The figure has been revised. Number: 2 Author: CDurham Subject: Text Box Date: 1/10/2024 08:12:59 Include street names (all exhibits)

Author: kdferrin Subject: Sticky Note Date: 1/17/2024 11:53:27

LSC Response: All of the figures have been revised to show the major street names.

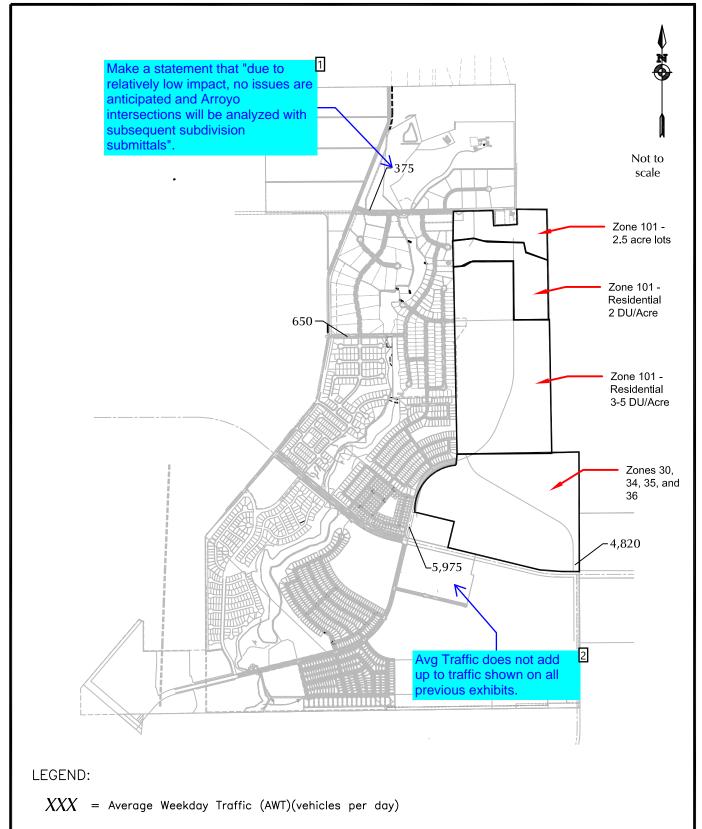


Figure 3f



Total Sterling Ranch Generated Average Weekday Traffic

Number: 1 Author: CDurham Subject: Callout Date: 1/10/2024 12:03:34

Make a statement that "due to relatively low impact, no issues are anticipated and Arroyo intersections will be analyzed with subsequent subdivision submittals".

Author: kdferrin Subject: Sticky Note Date: 1/17/2024 11:53:16

LSC Response: The requested statement has been added to the "Conclusions and Recommendations" section of the text.

Number: 2 Author: CDurham Subject: Callout Date: 1/10/2024 11:01:47

Avg Traffic does not add up to traffic shown on all previous exhibits.

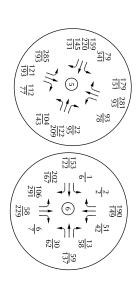
Date: 1/17/2024 11:53:07

Author: kdferrin Subject: Sticky Note
LSC Response: The figure has been revised.

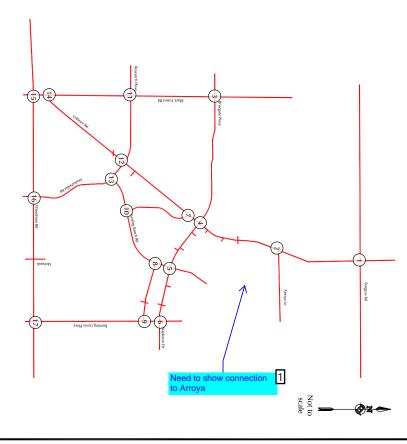


LEGEND:

 $\frac{XX}{XX} = \frac{AM \text{ Peak-Hour Traffic (veh/hr)}}{PM \text{ Peak-Hour Traffic (veh/hr)}}$



 $\sqrt{\frac{61}{51}} \frac{3}{13}$



Sterling Ranch Sketch Plan-Generated Peak-Hour Traffic

Assuming Maximum Density in the 2023 Amendment Area*

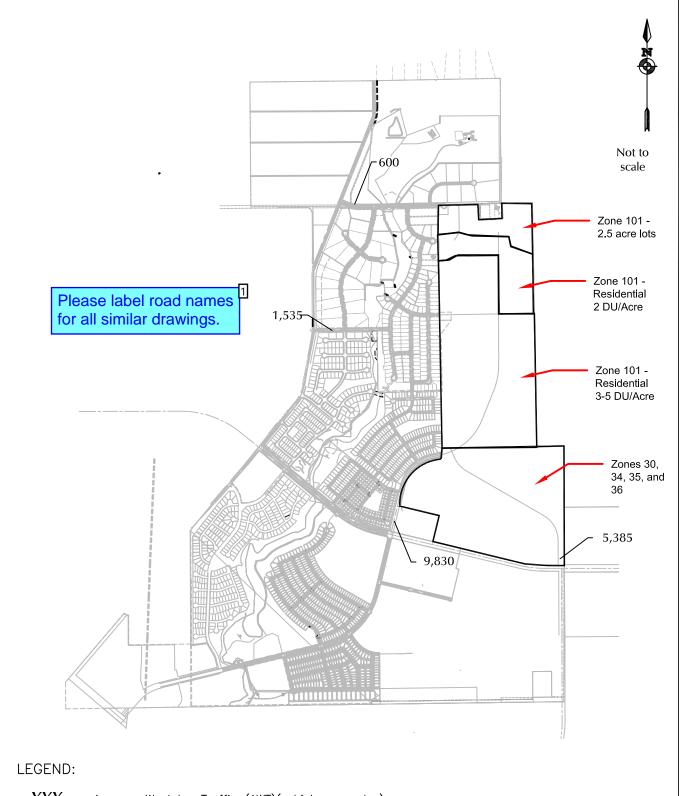
Sterling Ranch Sketch Plan - 2023 Amendment and Rezone (LSC# S224441)

Number: 1 Author: CDurham Subject: Callout Date: 1/10/2024 11:02:41

Need to show connection to Arroya

Author: jchodsdon Subject: Sticky Note Date: 1/22/2024 18:25:04

LSC Response: Figures 3g, 4b, 5b, and 5c have been revised to address this comment. We changed the figure base map to the same one used for the other figures, and transferred the content (the applicable intersection reference numbers, volumes and LOS information).



XXX = Average Weekday Traffic (AWT)(vehicles per day)

*Note: These volumes are the sum of the Sterling Ranch Sketch Plan generated traffic volumes assuming maximum density in the area north of Briargate Parkway and east of Sterling Ranch Road (from Figure 3a) plus the 2042 baseline traffic volumes taken from Figure 6a of the Sterling Ranch Sketch Plan Amendment Master Traffic Impact Study (MTIS), by LSC Transportation Consultants, March 2023. These volumes should be compared to the corresponding impacted street segment volumes shown on Figure 10a of the March 2023 MTIS.



Rezone Area Sensitivity Analysis* Average Weekday Traffic

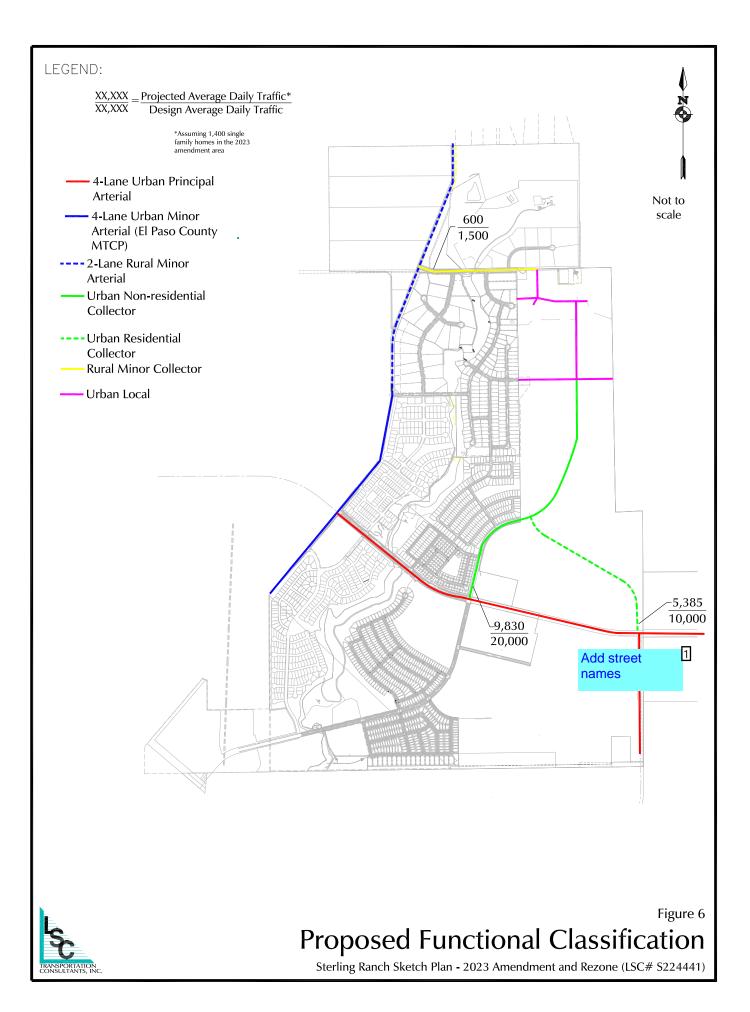
Sterling Ranch Sketch Plan - 2023 Amendment and Rezone (LSC# S224441)



Number: 1 Subject: Text Box Date: 1/4/2024 17:35:59 Author: Carlos

Please label road names for all similar drawings.

Author: kdferrin Subject: Sticky Note Date: 1/17/LSC Response: The figures have been revised as requested. Date: 1/17/2024 11:52:41



Number: 1 Author: CDurham Subject: Text Box Date: 1/4/2024 14:03:48

Add street names

Date: 1/17/2024 11:52:32

Author: kdferrin Subject: Sticky Note Date: 1/1

LSC Response: The figure has been revised as requested.