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Meadowlake Industrial Park Filing No. 1 Preliminary Plan Traffic Impact Study (LSC #S234040) September 24, 2023

Add PCD File No. SP236

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 Developer, have read and will comply with all commitments made on my behalf within this report.

due to the nature of the comments provided and information that is missing, additional comments may be generated on the subsequent submittal.	2

Date

LSC responses to TIS Redline Comments

Page: 1 Number: 1 **Author: Daniel Torres** Subject: Text Box Date: 10/23/2023 13:11:59 -06'00' Add PCD File No. SP236 Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:47:30 LSC Response: Added. **Author: Daniel Torres** Subject: Text Box Date: 10/24/2023 10:00:20 -06'00' due to the nature of the comments provided and information that is missing, additional comments may be generated on the subsequent submittal. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:47:41 LSC Response: Comment noted.

traffic control signs, posted speed limits, intersection and access spacing, roadway and intersection alignments, roadway grades, and auxiliary turn lanes;

- Weekday peak-hour turning-movement traffic counts at the study-area intersections;
- Estimated average weekday traffic (ADT) volumes on Falcon Highway, Curtis Road, Meridian Road, Judge Orr Road, and US Highway 24 (US Hwy 24);
- Projections of 2025 short-term background traffic volumes;
- The proposed preliminary plan site land use and access plan;
- Estimates of average weekday and weekday peak-hour trip generation for the proposed preliminary plan land uses and the estimated directional distribution of site-generated vehicle trips on roadways and intersections adjacent to and in the vicinity of the site;
- Projected site-generated and resulting total peak-hour intersection traffic volumes at the following "study-area" intersections:
 - Curtis Road/north site access (full-movement)
 - o Falcon Highway/Curtis Road
 - Curtis Road/Judge Orr Road
 - US Highway 24/Stapleton Road
- Projected total short-term daily and peak-hour traffic volumes at the study-area intersections;
- Projected short-term Intersection level of service analysis at the study-area intersections;
- Evaluation of the short-term projected intersection volumes to determine potential short-term requirements for any auxiliary right-/left-turn lanes at the proposed site-access points, based on the criteria in El Paso County's Engineering Criteria Manual (ECM); and
- Short-term roadway improvement recommendations and potential requirement for escrow contributions toward future improvements.

LIST OF OTHER TRAFFIC REPORTS USED IN THE PREPARATION OF THIS REPORT

• The July 29, 2022 Meadowlake Industrial Park Master TIS

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• TIS Reports for Saddlehorn Ranch.

Please also account for the TIS reports done by LSC for Davis Ranch and Esteban Rodriguez Sketch Plan 1

LAND USE AND ACCESS

Figure 1 shows the site location relative to the adjacent and nearby roadways. The site is located northwest of the intersection of Falcon Highway/Curtis Road about one-quarter mile north of that intersection. Meadow Lake Airport is located north and west of Meadowlake Industrial Park. the parcel east of Curtis Road is currently vacant. The Saddlehorn Ranch development site is located to the northeast along the east side of Falcon Highway.

The preliminary plan site and access points location are shown in Figure 2. The preliminary plan sheets are attached for reference. The site is zoned I-2, and the land use shown on the preliminary plan is industrial park. The anticipated development, for the purpose of this report, is best represented by ITE Land Use 150-Warehousing. The total Filing No. 1 parcel acreage is

Number: 1 Author: Daniel Torres Subject: Callout Date: 10/23/2023 14:33:52 -06'00'

Please also account for the TIS reports done by LSC for Davis Ranch and Esteban Rodriguez Sketch Plan

Author: jchodsdon Subject: Sticky Note

Date: 2/2/2024 15:47:55

LSC Response: Added. Also, please refer to the background traffic section of the updated TIS for short-term trip assumptions for these other area development applications.

36.56. Based on the 0.29 floor area ratio (FAR) assumed in the rezone report, the estimated building square footage of Filing No. 1 is 461,841 square feet (462 KSF).

One access is proposed to initially serve the preliminary plan area. This access, Sagebrush Street, will be a public street, and will intersect Curtis Road one-half mile north of Falcon Highway, consistent with the July 29, 2022 master TIS for the Meadowlake Industrial Park.

In the future, additional access points will be available with the future completion of the overall internal street system within the greater industrial park. These are shown in the July 29, 2022 TIS report.

ROAD AND TRAFFIC CONDITIONS AND MTCP CLASSIFICATION

Existing Roadways

Figure 1 and 2 show the roads adjacent to and in the vicinity of the site. Adjacent roads serving the site are identified below followed by a brief description of each:

US Highway (US Hwy) 24 is located about one mile north of the site (via Curtis Road) and about 1.5 miles west of the site (via Judge Orr Road). US Hwy 24 is also accessible from the southwest corner of the site via Falcon Highway. The travel distance to/from the intersection of US Hwy 24/ Falcon Highway via Falcon Highway is about four miles.

This State Highway extends east/west across Colorado connecting the Buena Vista, Colorado Springs, and Limon areas. US Hwy 24 is planned to be widened to four lanes through the Falcon area and is classified as an Expressway by the Colorado Department of Transportation (CDOT) and the 2016 El Paso County Major Transportation Corridors Plan (MTCP).

Judge Orr Road is a two-lane roadway that extends east from Eastonville Road across most of El Paso County. It is shown on the *El Paso County 2040 Major Transportation Corridors Plan* and the *Preserved Corridor Network Plan* as a four-lane Minor Arterial west of Curtis Road. Posted speed limits range from 45 to 55 miles per hour (mph). West of Curtis Road, the speed limit is 45 mph, while it generally increases to 55 mph east of Curtis Road. The intersection of US Hwy 24/Judge Orr is currently signalized. Due to the oblique angle of this intersection, the eastbound and westbound approaches are split-phased. The *US 24 Access Control Plan/PEL Study* shows future plans for realignment of Judge Orr at US Hwy 24 to improve the intersection and provide an intersection angle closer to 90 degrees.

Curtis Road is a two-lane roadway that extends south from the intersection of US Hwy 24/Stapleton Road intersection to Drennan Road. It is shown as a two-lane, rural Principal Arterial on El Paso County's 2040 Major Transportation Corridors Plan and a four-lane Principal Arterial on the *Preserved Corridor Network Plan*. In the vicinity of the site, the posted speed limit is 45 mph. Both intersections of Curtis Road Principal Arterial on Curtis Road/Falcon

Number: 1	Author: Daniel Torres	Subject: Highlight Date: 10/23/2023 13:28:47 -06'00'								
Orr										
⇔ Author: jα	chodsdon Subject: Sticky Note	Date: 2/2/2024 15:48:01								
LSC Resp	onse: Corrected.									
Number: 2	Author: Daniel Torres	Subject: Highlight Date: 10/23/2023 13:28:44 -06'00'								
Or										

Meadowlake Industrial Park Filing No. 1 were done.

please provide a break down of which intersections were included in the analysis and the times that the counts were done.

Highway are two-way, stop-sign contr connects to Stapleton Drive, was constr etc. Generally, Curtis Road is an "unimple Falcon Highway. Interim improvements Ranch development to the north along

Also please provide an explanation why the other area intersections studied with the Master TIS were not included. If thresholds per ECM are not met then please state that. See comment below on the trip generation and add study intersections as necessary due to the increase in traffic generation.

reports for Saddlehorn Ranch and the Saddlehorn Ranch roadway construction plans for Curtis Road are available, for reference, on the County EDARP system.

Falcon Highway extends from US Hwy 24 to Ellicott Highway and is classified as a two-lane Minor Arterial on the 2040 El Paso County *MTCP*. In the vicinity, the posted speed limit is 55 mph. Currently, the intersection of Falcon Highway/Curtis Road has auxiliary right- and left-turn lanes on the eastbound approach and auxiliary left-turn lanes on the westbound, northbound, and southbound approaches. The intersection is two-way, stop-sign controlled (TWSC), with the stop signs on the northbound and southbound approaches.

Existing Traffic Volumes 4

Vehicular turning-movement counts were conducted at the study-area intersections. Figure 3 shows these turning-movement volumes (raw count data are attached) and the average weekday traffic volumes (estimated based on factored peak-hour count data) on the study-area roadways.

Existing Levels of Service

Level of service (LOS) is a quantitative measure of the level of congestion or delay at an intersection and is indicated on a scale from "A" to "F." LOS A is indicative of little congestion or delay. LOS F indicates a high level of congestion or delay. Table 1 shows the level of service delay ranges for signalized and unsignalized intersections.

Table 1: Intersection Levels of Service Delay Ranges

	Signalized Intersections	Unsignalized Intersections					
Level of Service	Average Control Delay (seconds per vehicle)	Average Control Delay (seconds per vehicle)(1)					
А	10.0 sec or less	10.0 sec or less					
В	10.1-20.0 sec	10.1-15.0 sec					
С	20.1-35.0 sec	15.1-25.0 sec					
D	35.1-55.0 sec	25.1-35.0 sec					
E	55.1-80.0 sec	35.1-50.0 sec					
F	80.1 sec or more	50.1 sec or more					

⁽¹⁾ For unsignalized intersections, if V/C ratio is greater than 1.0 the level of service is LOS F, regardless of the projected average control delay per vehicle.

Number: 1 Author: Daniel Torres Subject: Callout Date: 10/23/2023 13:49:42 -06'00'

please provide a break down of which intersections were included in the analysis and the times that the counts were done. Also please provide an explanation why the other area intersections studied with the Master TIS were not included. If thresholds per ECM are not met then please state that. See comment below on the trip generation and add study intersections as necessary due to the increase in traffic generation.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:48:47

LSC Response: Added to the updated report.

The updated report also includes a new "Appendix A" which addresses the inclusion of study intersections. Figure 3 shows the study intersections for this Filing No. 1 Preliminary Plan report. Note: the improvements table does reference some CDOT requirements for US Highway 24/Judge Orr and US Highway 24/Falcon Highway. Also, the improvements table item 6.1 calls out escrow for a future turn lane at an off-site intersection that was included in the master study.

Figure 4 shows a summary of the existing levels of service, lane geometry and traffic control.

PEDESTRIAN AND BICYCLE FACILITIES

The following 2040 non-motorized transportation improvement projects have been identified on Map 15 and Table 5 of El Paso County's 2016 *MTCP*:

- M4 Falcon Highway from Meridian Road to South Peyton Highway
- Bicycle and secondary regional trail improvements (6.95 miles)
 - M7 Elbert Road from US 24 to Judge Orr Road
- Bicycle improvements (2.32 miles)
 - M8 Judge Orr Road from Eastonville Road to South Peyton Highway
- Bicycle improvements (2.98 miles)
 - M9 Stapleton Road from Meridian Road to U
- Bicycle improvements (2.56 miles)

TRIP GENERATION

Revise to use industrial park land use code as done in master TIS. The letter of intent nor the preliminary plan mention warehousing will be the use on the site.

3

1

2

Estimates of the vehicle trips projected to be generated update your analysis accordingly based on Park have been made using the nationally published trips increase in traffic. Trip Generation, 11th Edition, 2021 by the Institute of Transportation Engineers (ITE). Trip-generation rates from ITE Land Use Category 150 – "Warehousing" have been used to develop the trip-generation estimates for the preliminary plan site.

Table 2, attached, presents the estimated site trip generation.

The proposed Meadowlake Industrial Park Filing No. 1 is projected to generate about 790 new, external vehicle trips on the average weekday during a 24-hour period, with approximately half entering and half exiting the site. During the morning peak hour, approximately 60 entering vehicles and 18 exiting vehicles would be generated. Approximately 23 entering and 60 exiting vehicles (less internal capture trips) would be generated by the site during the evening peak hour.

TRIP DISTRIBUTION AND ASSIGNMENT

figure 4a

4

Trip Directional Distribution

Estimating the directional distribution of site-generated vehicle trips to the study-are roads and intersections is a necessary component in determining the site's traffic impacts. Figure 5 shows the percentages of the site-generated vehicle trips projected to be oriented to and from the site's major approaches. Estimates have been based on Figure 4 of the master TIS report.

Update report to include figures that are referenced from the master TIS report.

There is no figure 5 in the appendix. Revise to provide figure.

Number: 1 Author: Ipackman Subject: Callout Date: 10/23/2023 14:42:36 -06'00' Revise to use industrial park land use code as done in master TIS. The letter of intent nor the preliminary plan mention warehousing will be the use on the site. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:48:56 LSC Response: An agreed-upon condition has been added to the TIS. Number: 2 **Author: Daniel Torres** Subject: Text Box Date: 10/24/2023 08:55:57 -06'00' update your analysis accordingly based on the increase in traffic. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:49:05 LSC Response: Given the agreed-upon condition, the trip generation remains the same as the prior report. **Author: Daniel Torres** Subject: Callout Date: 10/23/2023 13:50:55 -06'00' Number: 3 figure 4a Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:49:20 LSC Response: The updated TIS contains new and revised figures with changes to the numbering. The reference to the master report Figure 4a has been corrected. Author: Ipackman Subject: Text Box Date: 10/18/2023 10:13:29 -06'00' Number: 4 Update report to include figures that are referenced from the master TIS report. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 17:35:17 LSC Response: The updated TIS contains new and revised figures with changes to the numbering. Author: Ipackman Subject: Callout Date: 10/18/2023 10:04:58 -06'00' Number: 5 There is no figure 5 in the appendix. Revise to provide figure. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 17:35:58 LSC Response: The updated TIS contains new and revised figures with changes to the numbering.

Site-Generated Traffic

Update report to include figures that are referenced from the master TIS report.

Short-Term

Short-term site-generated traffic volumes have been estimated at the study-area intersections. The volumes have been calculated by applying the short-term directional-distribution percentages (from Figure 4) to the trip-generation estimates (from Table 2). Figure 6 shows the projected short-term site-generated traffic volumes for the weekday morning and evening peak hours.

Long-Term (For reference only)

The July 29, 2022 TIS included estimates of the overall buildout long-term site-generated traffic volumes for the overall Meadowlake Industrial Park. Figures 7a, 7b, and 7c of that TIS showed those buildout volumes. **Appendix A** of this report includes a copy of the long-term distribution estimate from Figure 5 of that TIS report. Appendix A also includes the long-term site-generated traffic for the Filing No. 1 preliminary plan, based on that Figure 5 from the July 29, 2022 TIS report applied to the current trip-generation estimate (Table 2 of this report).

Short Term (2025) Baseline/Background Traffic Volumes

only the distribution is provided in appendix
A. Please provide the

The 2025 baseline traffic-volume estimates are shown in Figure 7. Tappeoptime the following:

from the Master TIS.

- A three (3) percent per year growth rate applied to existing volumes (includes minor volume-balancing adjustments to the 2022 Judge Orr Road/Curtis Road counts).
- Additionally, traffic projected for buildout of Saddlehorn Ranch Filing Nos. 1 and 2 has been included in the 2025 baseline volumes.

Note: the baseline/background volumes are exclusive of any trips to be generated by this preliminary plan area or the overall Meadowlake Industrial Park.

Short Term (2025) Background Plus Site-Generated Traffic Volumes

Figure 8 shows the sum of the 2025 short-term background traffic volumes from Figure 7 plus site-generated traffic volumes (from Figure 5). These volumes represent the projected short-term total traffic (assuming buildout of the preliminary plan development).

2042 Background and Total Traffic Volumes figure 5 has not been provided

The July 29, 2022 TIS report included long-term/20-year-horizon projections for the overall Meadowlake Industrial Park, which included this initial preliminary plan development area. Please refer to that TIS report for long-term projected volumes, which assume buildout of the project. Note: Appendix A of this report presents the long-term volumes estimated for this

Number: 1

Author: lpackman Subject: Text Box Date: 10/18/2023 10:18:35 -06'00'

Update report to include figures that are referenced from the master TIS report.

Author: jchodsdon Subject: Sticky Note

Date: 2/2/2024 17:38:09

LSC Response: In the updated TIS, Appendix B contains: Appendix Figure B-1, which is a copy of the long-term distribution/Figure 5 from the master TIS, and Appendix Figures B-2 and B-3, which are the long-term trip assignment (AM and PM peaks, respectively) for the Filing No. 1 development (IE trips from Table 2 assigned to the area roads based on the percentage splits shown in Appendix Figure B-1).

Number: 2

Author: Daniel Torres

Subject: Callout

Date: 10/23/2023 13:52:05 -06'00'

4a

Author: jchodsdon Subject: Sticky Note

Date: 2/2/2024 15:50:26

LSC Response: The updated TIS contains new and revised figures with changes to the numbering. Figure 4 is now correct as the new TIS has the short-term distribution shown on Figure 4.

Number: 3

Author: Daniel Torres

Subject: Callout

Date: 10/24/2023 08:34:19 -06'00'

only the distribution is provided in appendix A. Please provide the appropriate figures from the Master TIS.

Author: jchodsdon Subject: Sticky Note

Date: 2/2/2024 17:39:47

LSC Response: In the updated TIS, Appendix B contains: Appendix Figure B-1, which is a copy of the long-term distribution/Figure 5 from the master TIS, and Appendix Figures B-2 and B-3, which are the long-term trip assignment (AM and PM peaks, respectively) for the Filing No. 1 development (IE trips from Table 2 assigned to the area roads based on the percentage splits shown in Appendix Figure B-1).

Number: 4

Author: Daniel Torres

Subject: Callout

Date: 10/24/2023 08:38:20 -06'00'

figure 5 has not been provided

Author: jchodsdon Subject: Sticky Note

Date: 2/2/2024 15:50:59

LSC Response: The updated TIS contains new and revised figures with changes to the numbering.

Kevin O'Neil

Meadowlake Industrial Park Filing No. 1 Prel

preliminary plan area. Please refer to the site represented. details.

figures 3a & 3b do not provide the LOS. Please verify and update all figures so that they correspond to the correct information indicated in the narrative. Add complete titles to each of the figures so that it is clear what condition is being represented.

LEVEL OF SERVICE ANALYSIS

Please refer to the attached Synchro reports for the calculated LOS for the proposed site-access intersections and off-site intersections in the study area. The worst-case LOS values have been included on the following figures:

Figure 3: Existing Traffic, Lane Geometry, Traffic Control, and LOS

Figure 9: 2040 Background Traffic, Lane Geometry, Traffic Control, and LOS

Figure 10: 2040 Background + Site Traffic, Lane Geometry, Traffic Control, and LOS

Curtis Road/Sagebrush Street (Full-Movement Site Access)

also provide the short term total lane geometry, traffic control and LOS

state whether the other turn movements are satisfactory and indicate their LOS

LOS with the

developments traffic.

1

The eastbound-left turning movement is projected to operate at LOS B during the AM and PM peak hours of the short-term total scenario.

US Highway 24/Stapleton Road

Currently, the intersection of US Hwy 24/Stapleton is two-way stop-sign controlled (TWSC). The following turning movements currently operate at LOS E or worse, with or without the addition of site-generated traffic: northwest-bound left, northwest-bound through, southeast-bound left, and southeast-bound through.

when will this be signalized?

Once signalized, all individual turning movements and the intersection overall currently operate at and are projected to operate at LOS C or better during both short-term peak hours, with or without the addition of site-generated traffic.

Please address.

Judge Orr Road/Curtis Road

Currently, all individual approaches/turning movements at the intersection of Judge Orr/Curtis operate at LOS C or better during both peak hours please also provide

Falcon Highway/Curtis Road

Currently, all individual approaches/turning movements at the intersection of Falcon Highway/Curtis Road operate at LOS D or better during both peak hours. The northbound left-turn, northbound-through/right, southbound through, and southbound left-turn movements are projected to operate at LOS E or worse during the short-term with the addition of site-generated traffic. If the intersection of Falcon Highway/Curtis Road were to be converted from TWSC to AWSC, all individual turning movements would operate at LOS C or better during the short-term total traffic scenario.

Date: 10/24/2023 08:49:44 -06'00' Number: 1 Author: Daniel Torres Subject: Callout figures 3a & 3b do not provide the LOS. Please verify and update all figures so that they correspond to the correct information indicated in the narrative. Add complete titles to each of the figures so that it is clear what condition is being represented. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:51:06 LSC Response: The updated TIS contains new and revised figures with changes to the numbering. Number: 2 **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 08:43:26 -06'00' also provide the short term total lane geometry, traffic control and LOS Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:51:20 LSC Response: Added in the updated TIS. The updated TIS contains new and revised figures with changes to the numbering. Number: 3 **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 08:46:28 -06'00' state whether the other turn movements are satisfactory and indicate their LOS Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:51:31 LSC Response: The updated TIS addresses this comment. Number: 4 **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 08:48:04 -06'00' when will this be signalized? Please address. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:51:43 LSC Response: We have added text to the report to address this comment, although we do not know the timing of signal installation by CDOT. Signal escrows have been required by CDOT of several area projects, including this one. **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 08:49:19 -06'00' please also provide LOS with the developments traffic. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:51:52 LSC Response: Included in the updated TIS.

AUXILIARY TURN-LANE ANALYSIS, INTERSECTION CONFIGURATION, AND TRAFFIC CONTROL

Auxiliary Turn-Lane Requirements

Discuss any improvements to Stapleton and Hwy 24. Any Aux. turn lane improvements required in the short term due to this development or is the signal imminent? please address.

The need for auxiliary left- and right-turn lanes at the study area intersections has been evaluated to determine if lane improvements would be required, based on short-term total, traffic to meet the County's *Engineering Criteria Manual*'s (*ECM*) auxiliary turn criteria.

Deceleration lanes shall meet design criteria specified in El Paso County's *Engineering Criteria Manual (ECM* Tables 2-24 and 2-27) or the Colorado State Highway Access Code (CDOT) for US Hwy 24.

Turn-Lane Criteria

Table summarizes peak-hour auxiliary left- and right-turn lane thresholds according to *ECM* criteria. Roadway classifications for key County thoroughfares in the vicinity of the site include:

- Principal Arterial Curtis Road, Meridian Road
- Minor Arterial Judge Orr Road, Falcon Highway

Table 3: ECM Auxiliary Turn-Lane Thresholds by Functional Classification

Classification Left Turn Right Turn Le	Left Turn	Right Turn
Principal Arterial 10+ vph 25+ vph	*	50+ vph
Minor Arterial and Lower 25+ vph 50+ vph	*	Generally not required

^{*} May be required if the design would benefit safety and roadway operations Note: vph = vehicles per hour

Curtis Road/Sagebrush Street (Site Access)

Short Term

The intersection of Sagebrush Street/Curtis Road, will likely require the following auxiliary turn lanes in the short term:

- Northbound left-turn deceleration lane:
- 235-foot deceleration lane
- 50-foot storage length
- 200-foot approach taper
- 45:1 redirect taper lengths

Number: 1 Author: Daniel Torres Subject: Text Box Date: 10/24/2023 09:14:05 -06'00'

Discuss any improvements to Stapleton and Hwy 24. Any Aux. turn lane improvements required in the short term due to this development or is the signal imminent? please address.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:52:21

LSC Response: We have added to the report an explanation that it is our understanding that this is on CDOT's list of intersections to be signalized. We do not know the timing of signal installation by CDOT. Signal escrows have been required by CDOT of several area projects, including this one. The CDOT comment memo did not call out the need for this project to add any auxiliary turn lanes. There is already a full set of acceleration /deceleration lanes in-place at this intersection.

Meadowlake Industrial Park Filing No. 1 Preliminary Plan Traffic Impact Spludy please indicate whether the existing turn

lanes at this intersection meet criteria and whether any changes to the existing turn lanes are required due to this developments traffic.

Judge Orr Road/Curtis Road <

Based on April 2022 counts, the eastbound AM peak-hour right-turn volume exceeds the ECMthreshold right turning volume of 50 vph for which a right-turn lane is prescribed. The current eastbound PM peak-hour volume does not currently exceed this threshold. The short -term background-plus-Filing No. 1 site-generated eastbound PM peak-hour volume is projected to exceed this threshold.

If not completed prior to development, this project will likely be required to install the turn lane (with fee-program credit per fee-program provisions). Also, escrow for this improvement from other developments should be utilized to fund construction.

The ECM requires the following lane dimensions.

- Eastbound right-turn deceleration lane
- 290-foot acceleration lane
- 240-foot approach taper

Any request for credits will have to be brought by the applicant to the road impact fee advisory

2

Falcon Highway/Curtis Road

The intersection will likely require improvements/upgrades, including traffic control, in order for all individual turning movements/approaches to operate at an acceptable level of service upon site buildout. The development may be required to participate in future improvements or construct improvements. The intersection of Falcon Highway/Curtis Road could potentially be signed AWSC during the short term once AWSC warrants are met, as all approaches would operate at LOS C or better in the short term with AWSC.

Note: The following auxiliary turn-lane upgrades would not be required if a roundabout were to be constructed at the intersection of Falcon Highway/Curtis Road. However, these auxiliary turn lanes may ultimately be needed if all-way stop sign control is used as an intermediate traffic control condition prior to a traffic signal:

- Southbound right-turn deceleration lane (see improvements table)
- 235-foot deceleration lane
- 200-foot approach taper
- Eastbound left-turn deceleration lane (lengthening)
- 290-foot deceleration lane
- 240-foot approach taper
- 55:1 redirect taper ratio
- Westbound right-turn deceleration lane
- 290-foot deceleration lane
- 240-foot approach taper

Please refer to the Improvements Table for a complete list and additional detail.

committee.



please include

storage length

Number: 1 **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 09:03:13 -06'00' please indicate whether the existing turn lanes at this intersection meet criteria and whether any changes to the existing turn lanes are required due to this developments traffic. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:52:41 LSC Response: The update TIS includes a new Table 3, which is comprehensive auxiliary turn-lane evaluation table. Timing and triggers are also addressed in Table 4 Roadway improvements. Table 4 has been revised since the first submittal. Number: 2 **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 09:00:32 -06'00' Any request for credits will have to be brought by the applicant to the road impact fee advisory committee. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:52:48 LSC Response: This note has been added to the report. Number: 3 **Author: Daniel Torres** Subject: Callout Date: 10/24/2023 09:07:46 -06'00' please include storage length

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:52:57

LSC Response: Included in the new report Table 3.

1

ROADWAY CLASSIFICATIONS

Primary internal streets within the Preliminary Plan will be classified as Urban, Non-Residential Collector streets. These include the main entry street, Sagebrush Street, and Greenfield Avenue, the main north-south street. The other streets shown on the Preliminary Plan will be Private Local streets. These include: Wildflower Court, Mariposa Lily Court, and Wild Iris Way. Individual lot access will be to these private, local streets. Appendix B contains the proposed cross section for the Urban, Local (Private) streets.

ROADWAY SEGMENT IMPROVEMENTS within the Meadowlake parcel.

MOADWAT SEGMENT IN NOVEMENTS

Curtis Road

Additionally, state whether or not any improvements are needed to Falcon Hwy segment with due to this

this improvement or will it be future development

Curtis Road should ultimately be improved to a two-lane, principal Arterial. Dedication of right-of-way for one half of a two-lane Principal Arterial with ROW reservation for additional width up to 90' from centerline for the four-lane Principal Arterial corridor preservation. The improvement would be from Falcon Highway north to connect to the segment of Curtis planned for upgrade as part of the Saddlehorn development to the north.

DEVIATIONS AND WAIVERS

A waiver will be required for the private, local street cross section.

COUNTY ROAD IMPROVEMENT FEE PROGRAM

Transportation Impact Fees

Per ECM Appendix B: State what the current applicable Transportation Impact Fees are and what option the developer will be selecting for payment.

The applicant will be required to participate in this program. The PID option will be identified with the Plat submittal.

MTCP Improvements

Per the County TIS Checklist: State whether the MTCP or other approved corridor study calls for the construction of improvements in the immediate area.

The following roadway improvement projects have been identified as being needed by the year 2040 per Map 13 and Table 4 of El Paso County's 2016 *MTCP*. Note: this list below is not indicating that this project must complete all these improvements, rather simply echoing a general list from the *MTCP* of nearby improvements called out on the *MTCP*, based on the collective impacts of

Number: 1 Author: Daniel Torres Subject: Callout Date: 10/24/2023 09:23:26 -06'00'
please indicate whether this development will trigger this improvement or will it be future development within the Meadowlake parcel. Additionally, state whether or not any improvements are needed to Falcon Hwy segment with due to this developments traffic.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:53:11

ISC Response: This comment has been addressed in the updated report. This paragraph has been revised and Table 4 includes additional detail regarding Curtis Road. Falcon Highway has been added.

new development in general. Specific obligations for this project will be addressed with the

¹<mark>reliminary Plan.</mark>←

U1 – Curtis Road from Judge Orr Road to State Highway 94 (\$35,549,000)

Existing conditions – 2-lane Rural Unimproved County Road

Future conditions – 2-lane Principal Arterial

U5 – Falcon Highway from US Hwy 24 to 1 mile east of Curtis Road (\$16,509,00 which MTCP

Existing conditions – 2-lane Rural Unimproved County Road

• Future conditions – 2-lane Minor Arterial

C12 – Stapleton Road from Towner Road to Judge Orr Road (\$41,076,000)

• Existing conditions – 2-lane Principal Arterial

• Future conditions – 4-lane Principal Arterial

C14 – Judge Orr Road from Eastonville Road to Peyton Highway (38,248,000)

• Existing conditions – 2-lane Minor Arterial

• Future conditions – 4-lane Minor Arterial

As this is the
Preliminary plan and as
stated in the Master
TIS please indicate
which MTCP
improvements will need
to be constructed with
this proposed
development. Update
the narrative

accordingly.

Per the County TIS Checklist: State whether or not any improvements affected by the project are reimbursable under the current Major Transportation Corridors Plan (MTCP) and Road Fee program.

The determination of specific "eligible improvements" affected by the project – i.e., which improvements the project will need to construct and determine if those improvements will qualify as eligible for credit (and reimbursement) will be determined as part of this Preliminary Plan process. This would also include determination definition eligible intersection improvements.

MULTI-MODAL TRANSPORTATION AND TDM OPPORTUNITIES

The following roadway improvement projects have been identified as being needed by the year 2040 per Map 15 and Table 5 of El Paso County's 2016 MTCP:

- M4 Falcon Highway from Meridian Road to South Peyton Highway
- Bicycle and secondary regional trail improvements (6.95 miles)
- M7 Elbert Road from US Hwy 24 to Judge Orr Road
- Bicycle improvements (2.32 miles)
- M8 Judge Orr Road from Eastonville Road to South Peyton Highway
- Bicycle improvements (2.98 miles)
- M9 Stapleton Road from Meridian Road to US 24
- Bicycle improvements (2.56 miles)

Also, the Falcon Park-and-Ride facility recently opened at the intersection of Meridian Road/Swingline Road.

CDOT PROCESS AND REQUIREMENTS

T Number: 1	Author: Daniel Torres	Subject: Highlight	Date: 10/24/2023 09:24:49 -06'00'
Preliminary Plan	. • U1 – Curtis		

Number: 2 Author: Daniel Torres Subject: Callout Date: 1/10/2024 22:28:55

As this is the Preliminary plan and as stated in the Master TIS please indicate which MTCP improvements will need to

As this is the Preliminary plan and as stated in the Master TIS please indicate which MTCP improvements will need to be constructed with this proposed development. Update the narrative accordingly.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:55:51

LSC Response: Clarification has been added to this paragraph. As required by the checklist, this is just the list of MTCP improvements in the area as indicated by this note. Note: "this list below is not indicating that this project must complete all these improvements, rather simply echoing a general list from the MTCP of nearby improvements called out on the MTCP, based on the collective impacts of new development in general." We did add this text to clarify ---" Any associated w/ this project have been included in the Improvements Table."

References to the Improvements Table 4 have been added within this paragraph, and the Improvements Table 4 has been updated to address recommended improvements specific to this development.

Number: 3 Author: Daniel Torres Subject: Highlight Date: 10/24/2023 09:24:56 -06'00'

- will be determined as part of this Preliminary Plan process. This would also include determination

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:55:58

LSC Response: This paragraph has been revised in the updated TIS.

Number: 4 Author: Daniel Torres Subject: Highlight Date: 10/24/2023 09:24:59 -06'00' of eligible intersection improvements.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:56:04

LSC Response: This paragraph has been revised in the updated TIS.

please coordinate with CDOT to ensure that they will still be requiring escrow instead of lark filling to be requiring as the signal

September 24, 2023 Traffic Impact Study

- US Hwy 24/Stapleton is planned to be signalized. The CDOT comment letter for another area project, Saddlehorn Ranch Filing No. 2, indicated that the applicant will be required to escrow a fair share amount toward this future traffic signal for that subdivision filing. An access permit will be required to process the escrow.
- Based on the average AM & PM site-generated passenger cars directly impacting the 4-hour warrant, the Meadowlake Industrial Park Filing No. 1 development would be responsible for ~\$75,000, (8.5 new vehicles / 60 vehicles-to-warrant x ~\$700K/signal cost).

As CDOT collects escrow for other developments – in progress and future/planned - in the collective impact trips (directly impacting the 4-hour warrant volumes) by area developments begins to exceed the 60-vehicle-per-hour denominator, fair-share recalculation of prorata share escrow amounts and credit be provided to developments according to the updated fair-share calculations. Also, once the signal is installed, credit should be provided from the Countywide Fee Program based on a ratio of fee program unit signal cost divided by the \$700K signal cost.

- Please refer to the improvements table for detailed calculations and additional information.
- The CDOT comment letter for Filing No. 2 states the following: Section 2.6 of the State
 Highway Access Code, states that if changes in land use, vehicle operation and access use
 from a state highway states an updated access permit will be required for the intersection
 US Hwy 24/Stapleton Road. A similar condition will likely apply to this project.
- The CDOT comment letter for Saddlehorn Filing No. 2 states the following: Section 2.6 of the State Highway Access Code, states that if changes in land use, vehicle operation and access use from a state highway states an updated access permit will be required for the intersection of **SH24 and Judge Orr Rd.** A similar condition will likely apply to this project.

IMPROVEMENTS SUMMARY TABLE

Please refer to Table 1, which presents a sumn project. Coordinate

ESCROW ANALYSIS

The escrow analysis will be provided with the plat submittal.

filing 2? CDOT has yet to post comments onto EDARP for this project. Coordinate with them and update the statement(s) as needed.

Please indicate that it is the responsibility of the applicant that any credit request shall be brought forth by the applicants to the road impact fee advisory committee.

Note: There are a number of developments – in progress and future/planned – in the area which will also add traffic to these intersections needing turn lane improvements. As El Paso County collects escrow for other developments also impacting these turning movements, LSC recommends that as the collective impact trips directly impacting these turn movements, fair-share recalculation of pro-rata share escrow amounts and credit be provided to developments according to the updated fair-share calculations. Also, once the improvements are completed, applicable/allowable Countywide Fee Program credits for construction of intersection approach improvements (turn lanes) be applied based on a ratio of fee program unit cost divided by the improvement cost.

Please verify amount

2

Date: 10/24/2023 09:26:19 -06'00' Number: 1 **Author: Daniel Torres** Subject: Callout please coordinate with CDOT to ensure that they will still be requiring escrow instead of installation of the signal Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:56:24 LSC Response: CDOT issued a comment memo. The requirement is for escrow, not installation. The updated TIS reflects the escrow amount required by CDOT in their comment memo. Number: 2 Author: Daniel Torres Subject: Callout Date: 10/24/2023 09:27:56 -06'00' Please verify amount Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:56:34 LSC Response: CDOT issued a comment memo. The updated TIS reflects the escrow amount required by CDOT in their comment memo. Author: Daniel Torres Subject: Callout Date: 10/24/2023 09:32:58 -06'00' Number: 3 filing 2? CDOT has yet to post comments onto EDARP for this project. Coordinate with them and update the statement(s) as needed. Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:56:58 LSC Response: CDOT issued a comment memo. The updated TIS reflects the escrow amount required by CDOT in their comment memo. The prior reference to the Saddlehorn Filing No. 2 comment memo has been removed. It was only referenced at the time because it contained the "formula" for escrow for that nearby project. That formula has since been echoed in the comment memo provided for

Number: 4 Author: Daniel Torres Subject: Callout Date: 10/24/2023 09:30:18 -06'00'

Please indicate that it is the responsibility of the applicant that any credit request shall be brought forth by the applicants to the road impact fee advisory committee.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:57:04

LSC Response: Added as requested.

this project, along with the specific amount.

FINDINGS AND CONCLUSIONS

- The proposed Meadowlake Industrial Park Filing No. 1 is projected to generate about 790 new, external vehicle trips on the average weekday during a 24-hour period, with approximately half entering and half exiting the site.
- During the morning peak hour, approximately 60 entering vehicles and 18 exiting vehicles would be generated.
- Approximately 23 entering and 60 exiting vehicles (less internal capture trips) would be generated by the site during the evening peak hour.
- Some stop-sign- controlled turning movements are projected to operate at LOS E or F in the 2025 short term horizon year. The short term level of service would be C or better if AWSC traffic control is utilized. The intersection of US Highway 24/Stapteton is projected to continue to have side street levels of service E or F until signalized.
- Please refer to the Improvements Table for a detailed list of roadway system improvements.
- Please refer to the "Auxiliary Turn-Lane Analysis" section above for recommendations.
- The major internal streets within the site will be designed to meet Urban Non-Residential Collector criteria prescribed in the ECM. Classifications for the minor internal roads will be private, local streets.
- CDOT State Highway Access Permit applications will be submitted at this Preliminary Plan stage of development, or in conjunction with the plat.

Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E. Principal

JCH/JAB:jas

Enclosures: Table 2 and Table 4

Figures 1-10

Traffic Count Reports Synchro Los Reports

Appendix A Appendix B

Preliminary Plan Sheets (for reference)

provide sight distance analysis for the proposed intersection of Please contact me if you have any questions regarding this regardebrush to Curtis road. Please also state that it meets 1/2mile spacing criteria.

1

Number: 1

Author: Daniel Torres

Subject: Text Box Date: 10/24/2023 12:23:51 -06'00'

provide sight distance analysis for the proposed intersection of Sagebrush to Curtis road. Please also state that it meets 1/2mile spacing criteria.

Author: jchodsdon Subject: Sticky Note

Date: 2/2/2024 15:57:10

LSC Response: Added to the updated TIS.

Table 2: Trip-Generation Estimate

					iui	JIC 2. 111	Genera	tion Estimate									
		ITE Land Use		Lan	Trip	Trips Generated											
TAZ		TTE Latiu Ose	- Value	Units	% Floor Area	Value	Units ¹	Average	A.M. Peak		P.M. Peak		Average	A.M. Peak		P.M. Peal	
	Code	Description	- value	Units				Weekday	In	Out	ln	Out	Weekday	ln	Out	In	Out
1	150	150 Warehousing		Acres	29%	462	KSF	1.71	0.13	0.04	0.05	0.13	790	60	18	23	60
¹ KSF = 1,000 square feet of building floor area																	
2 Source: Trip Generation, 11th Edition (2021) by the Institute of Transportation Engineers (ITE)																	
9/22,	/2023																

Refer to previous comment and revise 1 accordingly.

Number: 1 Date: 10/23/2023 14:48:30 -06'00' Author: Ipackman Subject: Callout

Refer to previous comment and revise accordingly.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:57:20

LSC Response: Given the agreed-upon condition, the trip generation remains the same as the prior report.

Please update this table 1 and clearly state what improvements are triggered with this filing 1 development.

		Table 4: Roadway Improvements for Meadow	vlake Industrial Park
Item #	Improvement	Roadway Segment Improvem	ents Responsibility
1.1	Curtis Road (Short-Term) — Falcon Hwy to south end of planned Saddlehorn improvements	Phased with this development; potential for phasing with subdivision/plat filings	Details TBD Applicant or potentially with the property on the east side of Curtis Road if that land owner happens
1.2	Upgrade to 2-lane Principal Arterial Curtis Road (Long-Term) Falcon Hwy to SH 94	Shown in 2040 MTCP (Project U1)	to begin developing that property) Details TBD
1.3	Upgrade to 2-Lane Rural Principal Arterial Falcon Highway	Shown in 2040 MTCP (Project US)	Applicant will pay fee program traffic impact fees Details TBD
1.4	Upgrade to 2-Lane Rural Minor Arterial Stapleton Road Widen to 4-Lane Rural Principal Arterial	Shown in 2040 MTCP (Project C12)	Applicant will pay fee program traffic impact fees Details TBD Applicant will pay fee program traffic impact fees
1.5	Judge Orr Road Widen to 4-Lane Rural Minor Arterial	Shown in 2040 MTCP (Project C14)	Applicant will pay fee program traffic impact fees
Item #		Adjacent County Arterial Roadway ROW Timing	Requirements Responsibility
2.1	Curtis Road 2-Lane Rural Principal Arterial	Shown in 2040 MTCP	Applicant (west side - half ROW)
	130' to 150' estimated ROW dedication (Note: 4-lane Rural Principal is 180')		
2.2	Curtis Road 4-Lane Rural Principal Arterial	Shown in 2060 Corridor Preservation Plan	Applicant (west side - half ROW)
	180' right-of-way preservation	Internal Subdivision Roadwa	rys
3.1	Improvement Construct major internal streets to County Urban Non- Residential Collector Standards (to be determined)	Timing With subdivision/plat filings	Responsibility Applicant
	Residential Collector Standards (to be determined)	Off-Site Intersections US Highway 24/Stapleton Inters	ertina
Item #	Improvement Submit Access Permit Application to CDOT	Timing Submit access permit application with the Preliminary	Responsibility Applicant
		Plan stage of the development process when the Land Use(s) and associated trip generation are defined.	
4.2	Escrow towards cost of signalization	Submit w/this Preliminary Plan or with the Plat TBD w/Preliminary Plan/Plat	plans to signalize this intersection based on their priority system. This project is only at the
4.2	CDOT Escrow for Participation in the cost of future signalization - \$79,500** (Note: Opportunity for County fee	Escrow required w/this Preliminary Plan/Plat.	2 re stage. Specific responsibility with respect to this project for possible installation or
	Program credit/reimbursement for a portion; also opportunity for cost recovery as other area project are		development process when the Land Use(s) and associated trip get responsibility will be determined with the access permit process and application will be
	required to escrow funds and if/when this development's overall fair share percentage is reduced accordingly in the		submitted with the preliminary plan. Escrow - Applicant Responsibility
	future.		
Item #	Improvement	US Highway 24/Falcon Highway and US Highway 2 Timing	4/Judge Orr Intersections Responsibility
5.1	Submit Access Permit Application(s) to CDOT as required.	Submit access permit application(s) with the Preliminary	Applicant
		Plan or platting/site development plan stage of the development process when the Land Use(s) and	
,-	Ontantial account tourned the assessment	associated trip generation are defined.	A
5.2	Potential escrows toward the construction of signals and/or improvements at these intersections.	To be determined as part of the access permit process.	Applicant
		Falcon Highway/Meridian Road Int	ersection
6.1	Short Term Westbound right-turn deceleration lane	Currently warranted by ECM	Escrow for improvement or construction at the time of development (fee program credit per fee program provisions)
		Judge Orr/Curtis Road Interse	tion
7.1	Short Term	Timing Currently warranted by ECM	Responsibility Applicant
	Eastbound right-turn deceleration lane - Construction with this Preliminary Plan.		
7.2	Short Term Potentially sign for all way stop-sign control	Once warrants for AWSC are met Not Necessary in the Short-Term	Applicant
	The 2025/Short Term Background + Filing No. 1 Site Traffic Scenario indicates acceptable LOS.		
7.3	Long Term (or Prior to 2040) Participate on a pro-rata basis with a fair share contribution or	Once LOS of AWSC drops below acceptable levels; and/or once signal warrants are met. Depends on the	The applicant will pay fee program traffic impact fees and any required intersection improvements (or participation) may be fee-program eligible for credit based on the program guidelines.
	upgrade the intersection, potentially including new traffic control, to mitigate substandard level of service, as necessary.	pace and intensity of development of this site and the rate of other area development and associated	
	,	background traffic growth.	
7.4	Long Term (if signalized in the future)	As needed based on future speed limit and turning	Escrow for improvement or construction if warranted at the time of development (fee program
	Lengthen northbound left-turn deceleration lane	volume/stacking length criteria Adjacent & Access Intersecti	credit per fee program provisions)
Item #	Improvement	Curtis Road/Falcon Highwa Timing	y Responsibility
8.1	Short Term/Long Term Change to AWSC traffic control as necessary, Participate on a	Once LOS of AWSC drops below acceptable levels; and/or once signal warrants are met. Depends on the	The applicant will pay fee program traffic impact fees and any required intersection improvements (or participation) may be fee-program eligible for credit based on the program guidelines.
	pro-rata basis with a fair share contribution toward upgrade the intersection, potentially including new traffic control, to	pace and intensity of development of this site and the rate of other area development and associated	,,,,
	mitigate substandard level of service, as necessary. Significant improvements may be needed in the short term if rapid site	background traffic growth.	
	buildout and area growth occurs. Otherwise, intermediate term.		
8.2	Short Term (if planned to be signalized in the future)	With subdivision/plat filings, per ECM turning volume	Escrow for pro-rata share of improvement or construction if warranted at the time of development
	Construct SB right-turn deceleration lane on Curtis Road approaching Falcon Highway	thresholds. Upon Signalization or reversal of the Stop- sign traffic control orientation. See footnote below.	(fee program credit per fee program provisions) Check for either trigger with future subdivision fillings and a determination could be made at that
	ONLY In the case of a future signalized intersection or reverse of the TWSC Stop-sign traffic control orientation-		time if this project should install the turn lane (with fee program credit per fee program provisions). Otherwise, with each filing, escrow for pro-rata share of improvement or construction
	Construct southbound right-turn deceleration lane on Curtis Road approaching Falcon Highway		if warranted at the time of development (fee program credit per fee program provisions)
8.3	Lengthening of the existing EB left-turn deceleration lane on	With subdivision/plat filings, per ECM turning volume	Escrow for pro-rata share of improvement or construction if warranted at the time of development
	Curtis Road approaching Falcon Highway or escrow toward the cost of future lengthening.	thresholds Currently warranted by ECM; a deviation request may	(fee program credit per fee program provisions) Note: EPC comments on Saddlehorn Filing No. 4 Indicate improvement required with Saddlehorn
		be required to allow interim use of the existing lane and taper (based on short term total turning volumes	No. 4 if not required with Saddlehorn Filling No. 3. Responsibility will likely be shared between this project and Saddlehorn Ranch, with the cost shared.
		/associated queue length). Previously recommended	
		"trigger" from Saddlehorn Ranch: once projected queue	
		(95th percentile) exceeds 50' Note: EPC comments on Saddlehorn Filing No. 4	
		(95th percentile) exceeds 50'	
8.4	Short Yerm	(95th percentile) exceeds 50' Note: EPC comments on Saddlehorn Filing No. 4 indicate improvement required with Saddlehorn No. 4 if not required with Saddlehorn Filing No. 3. With subdivision/plat filings, per ECM turning volume	Ecorow for pro-rata share of improvement or construction if warranted at the time of development
8.4	Obert Term Construct We right-turn deceleration lane on Falcon Highway approaching Curtis Read.	(95th percentile) exceeds 50' Note: EPC comments on Saddlehorn Filing No. 4 indicate improvement required with Saddlehorn No. 4 if not required with Saddlehorn Filing No. 3. With subdivision/plat filings, per ECM turning volume	(fee program credit per fee program provisions) This turn lane is not projected to be warranted based on Filling No. 1 Preliminary Plan projected
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Number: 3

Number: 1 Author: Daniel Torres Subject: Text Box Date: 10/24/2023 09:57:33 -06'00'

Please update this table and clearly state what improvements are triggered with this filing 1 development.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:57:44

LSC Response: This table has been updated to be specific to the Filing No. 1 preliminary plan. The table calls out both actual improvements or, in several instances, Filing No. 1 escrow amounts toward future improvements. Any notation related to future improvements called out in the Master study, have been labeled "per the Master Study"

Number: 2 Author: Daniel Torres Subject: Highlight Date: 10/24/2023 09:54:20 -06'00'

rezone stage

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:57:49

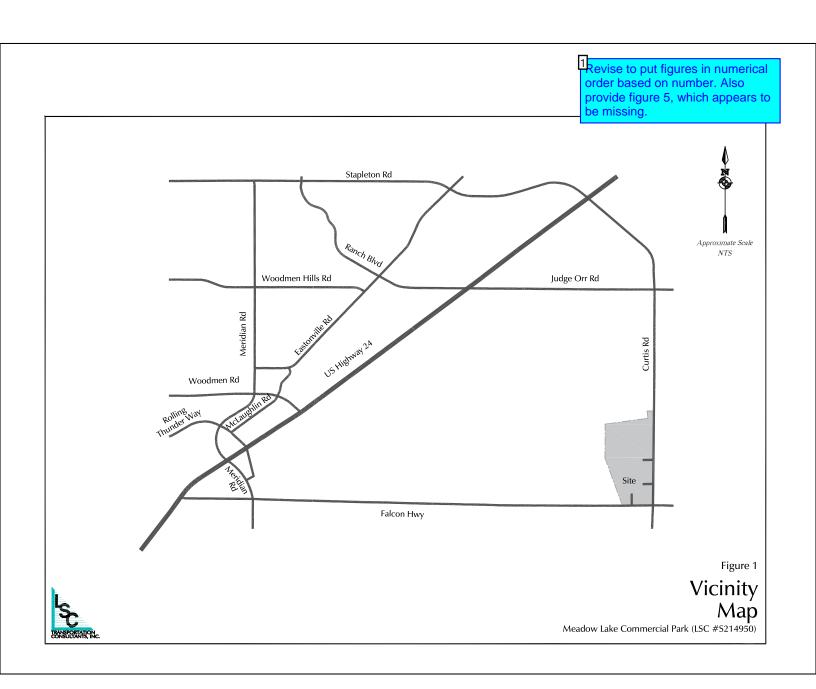
Subject: Highlight Date: 10/24/2023 09:54:34 -06'00'

LSC Response: This table cell has been revised.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:57:58

LSC Response: This table cell has been revised.

Author: Daniel Torres



Number: 1

Author: Ipackman Subject: Text Box Date: 10/23/2023 14:47:33 -06'00'

Revise to put figures in numerical order based on number. Also provide figure 5, which appears to be missing.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:58:08

LSC Response: The updated TIS contains new and revised figures with changes to the numbering.

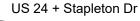
Version 2023 (SP 0-8)

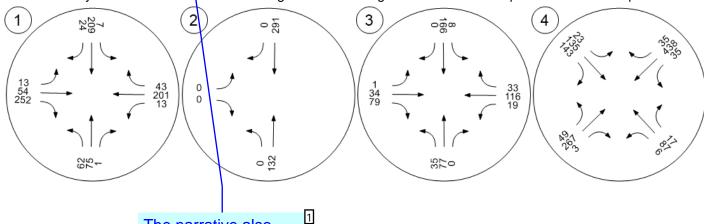
Traffic Volume - Base Volume



Falcon Hwy + Curtis Rd

Curtis Rd + Sagebrush St. Judge Orr Rd + Curtis/Staplet





The narrative also indicates that 7a, 7b, and 7c are the buildout volumes yet these indicate base volume. Please add complete titles to the figures to know whether these are existing, short-term, short-term total etc. or from the Master TIS.



Number: 1 Author: Daniel Torres Subject: Callout Date: 10/24/2023 08:33:14 -06'00'

The narrative also indicates that 7a, 7b, and 7c are the buildout volumes yet these indicate base volume. Please add complete titles to the figures to know whether these are existing, short-term, short-term total etc. or from the Master TIS.

Author: jchodsdon Subject: Sticky Note

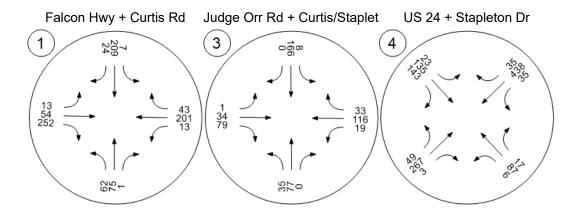
Date: 2/2/2024 15:58:21

LSC Response: The updated TIS contains new and revised figures with changes to the numbering.

Version 2023 (SP 0-8)

Traffic Volume - Base Volume







Subject: Text Box Date: 10/24/2023 08:36:18 -06'00' Number: 1 **Author: Daniel Torres**

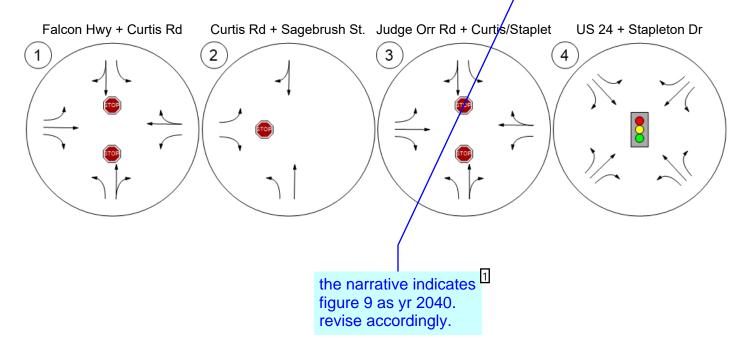
Are these existing base volumes as figures 7a & 7b also indicate base volume. Please clarify.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:58:42

LSC Response: The updated TIS contains new and revised figures with changes to the numbering.

Lane Configuration and Traffic Control





Subject: Callout Number: 1 Author: Daniel Torres Date: 10/24/2023 08:44:42 -06'00'

the narrative indicates figure 9 as yr 2040. revise accordingly.

Author: jchodsdon Subject: Sticky Note Date: 2/2/2024 15:58:54

LSC Response: The updated TIS contains new and revised figures with changes to the numbering.

LSC Transportation Consultants, Inc. 2504 E. Pikes Peak Ave, Suite 304

2504 E. Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909 719-633-2868

File Name: Curtis Rd - Judge Orr Rd AM

Site Code : S214950 Start Date : 4/21/2022

Page No : 1

Groups Printed- Unshifted

	Groups i finteu- Orisiniteu																				
		C	urtis	Rd		Judge Orr Rd					Curtis Rd						Juc				
	Southbound						Westbound				Northbound /						Ea				
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:30	0	42	1	0	43	2	29	2	0	33	0	9	4	0	13	/14	5	0	0	19	108
06:45	0	40	3	0	43	6	27	5	0	38	0	12	6	0	18	/ 13	9	0	0	22	121
Total	0	82	4	0	86	8	56	7	0	71	0	21	10	0	31	27	14	0	0	41	229
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07:00	0	44	0	0	44	8	34	5	0	47	0	26	9	0	3 <mark>5</mark>	19	10	0	0	29	155
07:15	0	40	1	0	41	12	31	6	0	49	0	25	10	0	3 5	22	8	0	0	30	155
07:30	0	42	4	0	46	7	24	3	0	34	0	14	10	0	24	25	7	1	0	33	137
07:45	1	42	2	0	45	3	32	2	0	37	1	11	8	0	/ 20	12	5	1	0	18	120
Total	1	168	7	0	176	30	121	16	0	167	1	76	37	0	/114	78	30	2	0	110	567
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08:00	1	17	7	0	25	4	18	2	0	24	0	8	3	0	/ 11	5	7	1	0	13	73
08:15	1	17	3	0	21	3	21	1	0	25	2	14	2	0/	18	7	13	0	0	20	84
Grand Total	3	284	21	0	308	45	216	26	0	287	3	119	52	g/	174	117	64	3	0	184	953
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Total %	0.3	29.8	2.2	0	32.3	4.7	22.7	2.7	0	30.1	0.3	12.5	5.5	/ 0	18.3	12.3	6.7	0.3	0	19.3	

Per ECM appendix B traffic counts shall be no more than a year old from date of application submittal. Provide updated counts.

Number: 1 Author: Daniel Torres Subject: Callout Date: 10/24/2023 09:59:10 -06'00'

Per ECM appendix B traffic counts shall be no more than a year old from date of application submittal. Provide updated counts.

Author: jchodsdon Subject: Sticky Note D

Date: 2/2/2024 13:26:04

LSC Response: New counts were conducted at Judge Orr/Curtis in November 2023. These have been incorporated into the updated TIS.