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D-49 Transportation Center
Traffic Impact Study
(LSC #S214340)
PCD File No. U-221
May 9, 2022

Professional Engineer's Statement

The traffic report and supporting information were prepared under my responsible charge and they conform 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.

Date

LSC Responses to TIS Redline Comments

Page: 1

 Number: 1 Author: jchodsdon Subject: Sticky Note Date: 11/27/2022 18:41:52
LSC Responses to TIS Redline Comments

1

Regarding the southbound left-turn lane at New Meridian/Swingline Road, the County design plans (June 2019 version) indicate a southbound left-turn lane of about 160-feet with a 240-foot taper. This lane is back-to-back with the northbound left at Meridian/US Highway 24. Note: the centerline spacing along New Meridian Road between US Hwy 24 and Swingline Road is 825 feet. The queue reported in the HCM analysis indicated a PM peak-hour, 95th-percentile queue of four vehicles. Since buses are projected to use this turn lane, and the lane is relatively short, LSC recommends revisiting the back-to-back left-turn configuration between US Hwy 24 and Swingline Road to determine if any striping modifications should be made.

PEDESTRIAN, BICYCLE, AND MULTI-MODAL ACCOMMODATION

A Park-and-Ride is under construction north of the intersection of New Meridian Road/Old Meridian Road. Additionally, the Rock Island Trail runs parallel to US Hwy 24 east of Old Meridian. There are no Mountain Metro bus stops in the vicinity of the site.

2

DEVIATIONS TO THE ENGINEERING CRITERIA MANUAL

A deviation may be needed for the southbound left-turn lane at the New Meridian/Swingline Road intersection. Please refer to the queuing analysis section for details.

MITCP-IDENTIFIED ROADWAY IMPROVEMENT PROJECTS

Address the SBLT at New Meridian/Swingline Rd intersection with this site plan application. Provide recommendation to mitigate the traffic impact to be implemented by the applicant as part of the site development plan application. A deviation request application for the ECM Administrator's consideration would be required if the recommended improvement does not meet county criteria.

3
en Road and
arterial from

COUNTY ROAD IMPROVEMENT FEE PROGRAM

This project may be subject to participation in the County Roadway Improvement Fee Program. However, consideration may be given in a potential fee calculation, that this will replace an existing transportation facility.

CONCLUSIONS AND RECOMMENDATIONS

4
Update statement. Road Impact Fee is required per the approval of location condition of approval no. 5 (Resolution No. U-22-001).


Trip Generation

- The proposed transportation facility is projected to generate approximately 405 new


5

5. The applicant shall be required to pay traffic impact fees in accordance with the El Paso County Road Impact Fee Program Resolution (Resolution No. 19-471), or any amendments thereto, at the final land use approval or driveway access permit, whichever comes second. The land use of public/ institutional according to the Road Impact Fee Schedule will be used to determine fees.


6

 Number: 1 Author: dsdlaforce Subject: Cloud Date: 8/4/2022 14:05:27 -06'00'

 Number: 2 Author: dsdlaforce Subject: Cloud Date: 8/4/2022 14:05:32 -06'00'

 Number: 3 Author: dsdlaforce Subject: Text Box Date: 8/4/2022 14:09:11 -06'00'


Address the SBLT at New Meridian/Swingline Rd intersection with this site plan application. Provide recommendation to mitigate the traffic impact to be implemented by the applicant as part of the site development plan application. A deviation request application for the ECM Administrator's consideration would be required if the recommended improvement does not meet county criteria.

 Author: jchodsdon Subject: Sticky Note Date: 12/1/2022 20:19:27


LSC Response: The queuing section of the report has been updated to address this comment. A deviation request has also been prepared and included with this resubmittal.

 Number: 4 Author: dsdlaforce Subject: Callout Date: 8/4/2022 14:18:03 -06'00'

Update statement. Road Impact Fee is required per the approval of location condition of approval no. 5 (Resolution No. U-22-001).

 Author: jchodsdon Subject: Sticky Note Date: 11/27/2022 18:44:23

LSC Response: Updated as requested.

 Number: 5 Author: dsdlaforce Subject: Cloud Date: 8/8/2022 07:39:56 -06'00'

 Number: 6 Author: dsdlaforce Subject: Image Date: 8/4/2022 14:16:30 -06'00'

Traffic Operations Analysis

- Please refer to the Level of Service and Queuing Analysis sections of this report for additional details and discussion.
- The intersection and roadway link-level-of-service analysis indicates that the traffic to be generated by the proposed transportation facility could be accommodated. Swingline Road functions as a Collector street, as described in the “existing roadways” section above.

Auxiliary Turn-Lane Needs Evaluation

- An eastbound left-turn lane is currently warranted at the west Falcon Elementary School access driveway. This is based on current AM school-peak traffic volumes. However, this


Provide the necessary analysis to confirm the constructed roundabout can accommodate the school buses. Coordinate with the project design engineer regarding recommended infrastructure improvements if school buses cannot be accommodated and describe the recommended improvements in the TIS. A deviation request application for the ECM Administrator's consideration would be required if the recommended improvement does not meet county criteria. Provide autoturn exhibit in the appendix.

Other Recommendations


- The roundabout at Old Meridian/Swingline (now completed) was likely designed for transit and school buses, as this is adjacent to a Park-and-Ride facility and as Swingline serves existing school facilities. Regardless, as plans for this transportation center move forward, the design of the roundabout should be checked to ensure that school buses can be accommodated.
- As plans for this transportation center move forward, the access radii and width at the west Elementary School access to Falcon Highway should be checked to ensure that current standards for a school-bus design vehicle are met.
- The design team is currently working on the configuration and design of the access connections to the existing cul-de-sac at the east terminus of Swingline Road.

* * * * *


Provide autoturn exhibit for the west access.


 Number: 1 Author: dsdlaforce Subject: Text Box Date: 8/8/2022 07:40:53 -06'00'

Provide the necessary analysis to confirm the constructed roundabout can accommodate the school buses. Coordinate with the project design engineer regarding recommended infrastructure improvements if school buses cannot be accommodated and describe the recommended improvements in the TIS. A deviation request application for the ECM Administrator's consideration would be required if the recommended improvement does not meet county criteria. Provide autoturn exhibit in the appendix.


 Author: jchodsdon Subject: Sticky Note Date: 11/27/2022 18:46:37

LSC Response: The report has been updated to address this comment. The updated report includes Autoturn exhibits.

 Number: 2 Author: dsdlaforce Subject: Cloud Date: 8/4/2022 14:10:07 -06'00'

 Number: 3 Author: dsdlaforce Subject: Callout Date: 8/8/2022 07:43:19 -06'00'

Provide autoturn exhibit for the west access.

 Author: jchodsdon Subject: Sticky Note Date: 11/27/2022 18:47:59

LSC Response: Autoturn exhibits provided as requested.

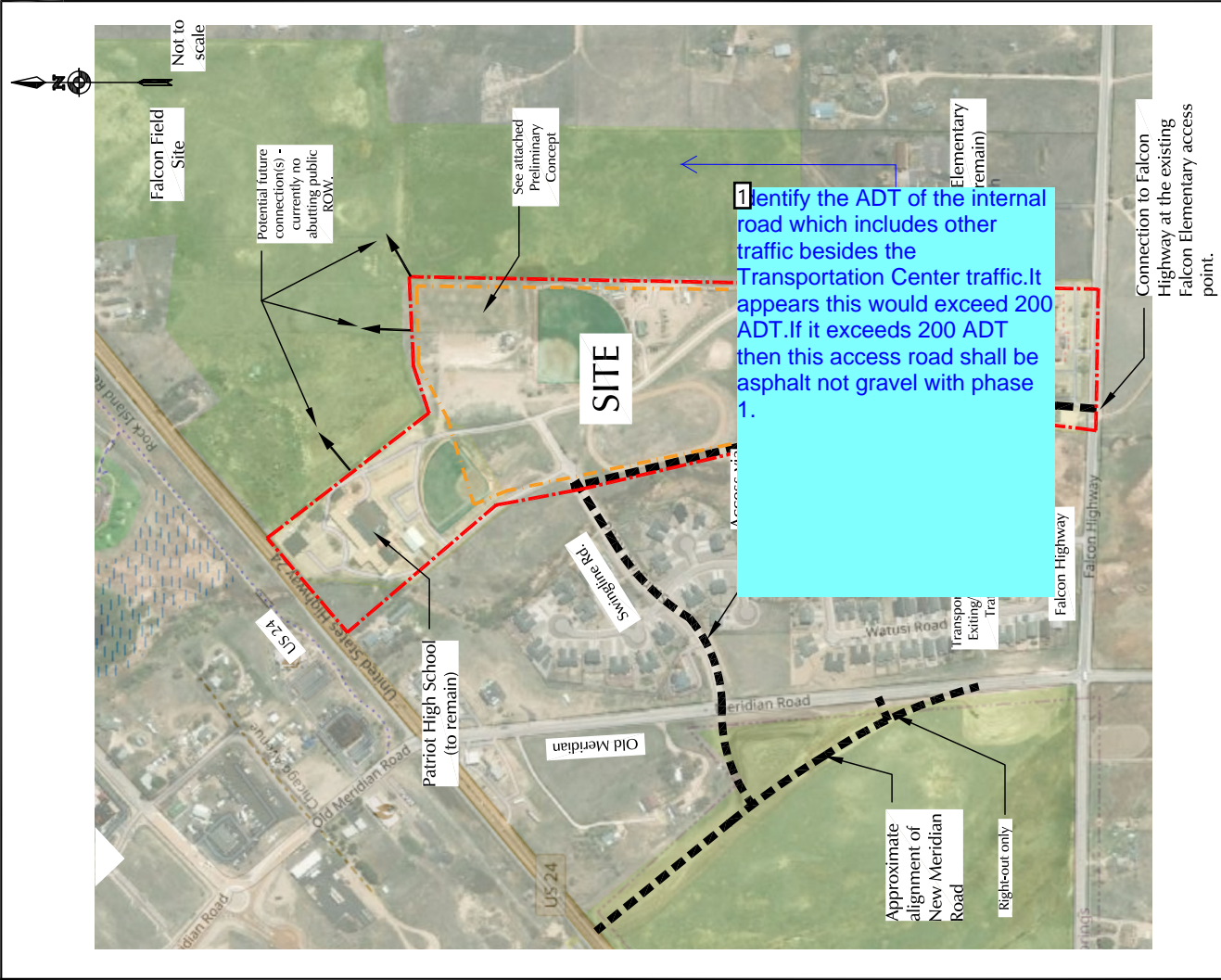




Figure 2
Proposed Site and Access Plan
 D49 Transportation Facility - Falcon (LSC #S214340)



 Number: 1 Author: dsdlaforce Subject: Callout Date: 11/27/2022 20:56:19

Identify the ADT of the internal road which includes other traffic besides the Transportation Center traffic. It appears this would exceed 200 ADT. If it exceeds 200 ADT then this access road shall be asphalt not gravel with phase 1.

 Author: jchodsdon Subject: Sticky Note Date: 11/28/2022 17:00:33

LSC Response: The updated report addresses this comment.