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**EL PASO COUNTY PLANNING AND
 COMMUNITY DEVELOPMENT
 DEPARTMENT**

TRAFFIC IMPACT STUDY

Revised: November 2019

| | | Applicant | PCD |
|---|--|-----------|-----|
| 1. Traffic Impact Study Report | | | |
| <p>The purpose of the Traffic impact study is to provide detailed guidelines for the preparation of plans for all County-owned and maintained transportation facilities and access to those facilities. These facilities include roadways and their structures, as well as extrinsic structures that support the use of the transportation facility. El Paso County standards and technical criteria to be used to plan, design, construct, choose materials, locate, repair, maintain, reconstruct, and use roadways and other transportation facilities and the associated extrinsic structures should be followed. The traffic Impact Study shall be prepared by a qualified professional and shall be tailored to the stage of development application and the stage of subdivision-related construction.</p> | | | |
| * | Verify type, level of TIS/memorandum provided in accordance with ECM B.1 (for this checklist -->) | | |
| a | Signature Page (ECM B.8) | | ✓ |
| b | Table of contents, pages numbered | | ● |
| c | Existing/background conditions narrative | | |
| 1 | ~ Vicinity Map showing study area | | |
| 2 | ~ Label all roads discussed in the report. | | |
| 3 | ~ Graphically indicate all intersections evaluated. | | |
| 4 | ~ Accurately depict the site location and boundaries | | |
| 5 | ~ Study Area – Provide calculations showing that the study area includes all affected intersections, address ECM B.2.3 requirements | | |
| 6 | ~ Background traffic | | |
| i | - Clearly explain how background traffic was derived. | | |
| ii | - List other traffic studies in the area of study within the past five years identified by County staff or that the applicant is aware of. State whether the current study is consistent with those studies and explain any discrepancies. | | |
| iii | - Excerpts from studies of those developments are included in the appendices. | | |
| 7 | ~ Sketch diagrams of all existing intersections evaluated in the study showing widths of all approach lanes and lengths of auxiliary lanes and tapers. | | |
| 8 | ~ Description, classification, and link ADT of major roads in the study area (collector classification and higher). | | |
| 9 | ~ Specify MTCP functional and corridor preservation classifications | | |
| 10 | ~ Description of intersections evaluated in the study including existing controls | | |
| 11 | ~ Do existing road segments meet cross section standards for designated classifications? | | |
| 12 | ~ Traffic Count Data | | |
| 13 | ~ 24 Hour Counts for ADT for major road segments | | |
| 14 | ~ Peak-hour counts for all intersections evaluated in the study | | |



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| d | Proposed development and trip generation narrative | | |
| 1 | ~ Site Plan | | |
| 2 | ~ Land Use – Type and extent correspond with associated application documents | | ● |
| 3 | ~ Discussion of applicable ITE land use type(s) (including ITE code(s)) and comparison between the proposed use(s) and the codified use | | |
| 4 | ~ Total traffic generated by the proposed development using ITE trip generation; provide footnotes on the methods used (equation/chart/interpolation) | | |
| 5 | ~ Adjustments to trip generation including pass-by trips and internal trip capture | | |
| 6 | ~ Trip distribution assumptions and map | | |
| 7 | ~ Specify expected year of completion (build-out) and intermediate years if phasing is proposed | | |
| 8 | ~ On-site road classification figure including ADT numbers | | |
| 9 | ~ On-site Traffic control recommendations (particularly stop controls at intersections) | | |
| 10 | ~ Evaluation of intersection spacing along all interior roads, and new intersections on adjacent or off-site roads, and confirmation that the spacing meet criteria | | |
| 11 | ~ List ECM criteria for stacking, storage, and taper for every affected auxiliary lane and access and state whether this access can be met. If it cannot be met, state the required modifications so that it can be met. | | |
| 12 | ~ State what the sight distance is for every affected access and whether it can be met. If it cannot be met, state the required modifications so that it can be met. | | ● |
| e | Evaluation and Mitigation of Impacts | | |
| 1 | ~Short-term, intermediate and long-term analysis horizon years are clearly stated and years are labeled on the corresponding figures. | | |
| 2 | ~ Capacity analysis of major road segments. Results presented in a figure or table showing short-term and long-term ADTs against maximum allowable ADT | | ● |
| 3 | ~ Capacity analysis of all existing intersections evaluated in the study and all proposed access locations onto existing public roads | | |
| 4 | ~ For capacity analysis of signalized intersections, provide discussion of the following parameters: | | |
| i | - Cycle length (progression on Marksheffel) | | ● |
| ii | - Provisions for left turns ~ permissive/protected; lead/lag | | |
| iii | - Free right turns | | |
| 5 | ~ Identification of any sub-standard LOS situations and discussion of recommendations for mitigation. | | |
| 6 | ~ Evaluation of safety-based warrants for turn lanes at unsignalized intersections (speed change lanes). | | |
| 7 | ~ Weaving analysis if applicable | | |
| 8 | ~ Summary table of necessary turn lane improvements including design speed, taper rates and taper lengths, storage lengths, deceleration or acceleration lengths, and the resulting full-width lane lengths. | | |
| 9 | ~ Signal warrant analysis; estimated projected need if not currently warranted | | ● |
| 10 | ~ Graphical depiction of improvements required to meet level-of-service standards | | |



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| 11 | ~ Trigger points for the construction of all required future improvements including but not limited to turn lanes, signals, widenings, and openings or closings of accesses. ("Trigger points" are the conditions that, when met, will call for the construction of said improvements.) | | |
| 12 | ~ Summary of accident history within the study area. | | |
| 13 | ~ Accident history data presented in tabular form by location and including annual vehicle use volume and accident rate calculations | | ● |
| 14 | ~ Discussion of pedestrian/bicyclist needs and provisions. | | |
| 15 | ~ School and pedestrian routing plans | | |
| 16 | ~ School traffic analysis per North Carolina DOT MSTTA https://connect.ncdot.gov/municipalities/School/pages/default.aspx | | |
| 17 | ~ Master-planned trails | | |
| 18 | ~ Project Traffic modeling and figures | | |
| 19 | ~ Short Term Background Plus Project Traffic lanes, intersection control and LOS modeling and figures for all affected intersection movements | | |
| 20 | ~ Long Term Background Plus Project Traffic lanes, intersection control and LOS modeling and figures for all affected intersection movements | | |
| 21 | ~ Assess and summarize all project impacts (roadways, intersections, pedestrians, bicycles, etc.) | | |
| 22 | ~ Describe proposed mitigation measures | | |
| 23 | ~ Specifically address all deviations requested (separate form(s) required) | | |
| 24 | ~ Address any special studies that apply (access management plan, neighborhood impact evaluation, sight distance evaluation, traffic speed study, etc.) | | ● |
| f | Recommendations and Report Conclusions | | |
| 1 | ~ Narrative recommendations and conclusions | | |
| 2 | ~ For final plats, state definitively what improvements the developer will be constructing with the project. | | |
| 3 | ~ State whether or not any improvements affected by the project are reimbursable under the current Major Transportation Corridors Plan (MTCP) and Road Fee program. | | |
| 4 | ~ State whether the MTCP or other approved corridor study calls for the construction of improvements in the immediate area. | | |
| 5 | ~ State what the current applicable Road Impact Fees are and what option the developer will be selecting for payment. If the site is in a special district, so state and summarize the applicable fees. | | |
| 6 | ~ Provide a description of how transportation improvements will be financed (responsibility) and a Recommended Improvements Summary Table per ECM section B.6.1.D. | | |
| 7 | ~ List of References. | | |



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| g | Appendices | | |
| 1 | ~ Complete modeling for all existing and proposed development horizons | | |
| 2 | ~ Modeled signal cycle timing matches narrative and is within DPW allowances and signal coordination requirements, if applicable | | |
| 3 | ~ Modeled lanes match improvements table and CDs | | |
| 2. Applicant Comments: | | | |
| If the applicant has failed to provide any of the required items they must provide justification in the comment section below indicating why the requirement is unnecessary. | | | |
| a | | | |
| b | | | |
| c | | | |