



Development Services Department
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**DEVIATION REVIEW
 AND DECISION FORM**

Procedure # R-FM-051-07
 Issue Date: 12/31/07
 Revision Issued: 00/00/00

DSD FILE NO.:

P	U	D	-	1	8	3	
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**Deviation No. 1
 REV 2-8-19**

General Property Information:

Address of Subject Property (Street Number/Name): 16390 Highway 83

Tax Schedule ID(s) #6127000064

Legal Description of Property: THAT PT N2N2 SEC 27-11-66 DESC AS FOLS; COM AT NW COR SD SEC 27, TH S88<54'14"E ALG N LN OF SD SEC 1974.02 FT TO THE NW COR OF THE E2NE4NW4 SD SEC 27, TH S00<06'40"E ALG W LN OF SD E2 50.04 FT & POB, TH S00<06'40"E 1262.73 FT, S89<30'26"E 443.60 FT, N00<00'00"W 585.28 FT, N90<00'00"E 454.78 FT, S00<00'00"E 247.11 FT, N90<00'00"W 127.15 FT, S00<00'00"E 340.99 FT, TH S90<30'26"E 1212.80 FT, N00<24'12"W 393.03 FT, N02<29'28"W 870.43 FT TO S LN OF THE N 30.0 FT SD SEC 27, TH N88<54'17"W 856.46, S01<05'43"W 20.0 FT, N88<54'17"W 430.09 FT TO W LN NW4NE4 & POB

Subdivision or Project Name: Rollin' Ridge

Section of ECM from Which Deviation is Sought: 2.3.2 Design Standards by Functional Classification

Specific Criteria from Which a Deviation is Sought: Table 2-4 - Rural Minor Arterial - design speed/posted speed; minimum centerline curve radius; outside shoulder width; intersection spacing.

Proposed Nature and Extent of Deviation: This deviation request is to allow a Rural Minor Arterial with the following modified design elements for the proposed Cherry Crossing Drive south of Hodgen Road and north of the south commercial access: Allow a design speed of 30 mph and a posted speed of 30 mph; a minimum centerline radius of 350'; allow a six foot outside paved shoulder instead of an eight foot paved shoulder; and intersection spacings of 360' and 295' instead of one-quarter mile (also, see separate deviation form). Please refer to the attached exhibits.

Applicant Information:

Applicant: TC&C LLC (Carl Turse)

Email Address: carlturse@icloud.com

Applicant is: Owner Consultant Contractor

Mailing Address: 17572 Colonial Park Drive, Monument

State: CO

Postal Code: 80132

Telephone Number: (719) 488-8600

Fax Number: _____

Engineer Information:

Engineer: Jeffery C. Hodsdon, P.E., P.T.O.E.

Company Name: LSC Transportation Consultants, Inc

Mailing Address: 545 E Pikes Peak Ave, Suite 210, Co

Registration Number: 31684

Telephone Number: (719) 633-2868

remove reference to intersection spacing, it is in deviation 2.
 This should be the only deviation with the turning movement exhibit (because of the narrower shoulder).
 Lane width should be discussed for clarification.
 Ditto comment on exhibits as stated in deviation 2.
 A

Explanation of Request (Attached diagrams, figures and other documentation to clarify request):

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Reason for the Requested Deviation: The request is to allow modified design standards for a Minor Arterial Roadway (A minor arterial due to the ADT only). The reason for the deviation is to allow for a 2' narrower paved shoulder width, a 350' centerline radius and 30 mph design/posted speed that is more appropriate for this situation. This roadway has a proposed short length, very limited continuity, and is intended to serve only the adjacent commercial and residential properties.

state that it is a dead end.

Comparison of Proposed Deviation to ECM Standard: Allow a design speed of 30 mph and a posted speed of 30 mph instead of the ECM standard 60/55; a minimum centerline radius of 350' instead of 1505'; allow a six foot outside paved shoulder instead of an eight-foot outside paved shoulder; ~~and intersection spacings of 360' and 295' instead of one-quarter mile (see separate deviation form).~~ Please refer to the attached exhibits.

Applicable Regional or National Standards used as Basis: The following is justification for the proposed modifications to the above-referenced design elements of the ECM standard Rural Minor Arterial:

Excerpts from "Highway Functional Classification Concepts, Criteria and Procedures (2013) FHWA."

2.2.1 Access versus Mobility

"While most roadways offer both 'access to property' and 'travel mobility' services, it is the roadway's primary purpose that defines the classification category to which a given roadway belongs."

2.3 Other important Factors Related to Functional Classification Usage (Annual Average Daily Traffic [AADT] Volumes and Vehicle Miles of Travel [VMT])

"...While there is a general relationship between the functional classification of a roadway and its annual average daily traffic volume, two roads that carry the same traffic volume may actually serve very different purposes and therefore have different functional classifications."

This short roadway is intended to provide access. The function of the County's standard/unmodified Minor Arterial is more on the side of "mobility"- very different purposes in this case.

remove all reference to intersection spacing please.

Application Consideration:

CHECK IF APPLICATION MEETS CRITERIA FOR CONSIDERATION

JUSTIFICATION

The ECM standard is inapplicable to a particular situation.

Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship on the applicant, and an equivalent alternative that can accomplish the same design objective is available and does not compromise

• The proposed development is not allowed access to State Highway 83 and a second access point on Hodgen Road would not be allowed. These are the only two adjacent roadways.

public safety or accessibility.

• The roadway is not planned to extend to the south of this property.

• The proposed modified Rural Minor Arterial cross section with the requested design modifications would be more appropriate for this development given the scale of the development and low level of continuity of the subject roadway. This roadway will only serve a relatively small residential development and a small commercial center. The roadway will basically be an access drive with a length of 950 feet (ending in a cul-de-sac). Most traffic will turn left into and right out of the first commercial access point located 360 feet south of Hodgen Road (centerline spacing).

this is not pavement design, it is ROW cross section. Pavement design is the thickness of the pavement which, BTW, shall be designed to Minor Arterial standards. I will add as a condition of approval of this deviation.

The Rural Minor Arterial classification is being used, despite the short length with projected ADTs within the ECM design ADT range of the Rural Minor Arterial. This is partly for ~~pavement~~ design purposes and because the 100' Minor Arterial ROW is needed to accommodate the combined width of the proposed turn lanes, center raised median island, and drainage ditches.

Custom radii to accommodate the design vehicle and the necessary auxiliary turn lanes are being included. These design elements will allow the section of street adjacent to the commercial site to carry the anticipated traffic volumes and accommodate the larger multi-unit vehicles, as shown in the attached AutoTurn exhibits.

A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

If at least one of the criteria listed above is not met, this application for deviation cannot be considered.

Criteria for Approval:

PLEASE EXPLAIN HOW EACH OF THE FOLLOWING CRITERIA HAVE BEEN SATISFIED BY THIS REQUEST

The request for a deviation is not based exclusively on financial considerations.

The request is based on the limited access opportunities (The development is not allowed access to State Highway 83 and a second access to Hodgen Road would not be permitted). All the site traffic will need to use the proposed Cherry Crossing Drive for access due to the adjacent roadway access control. A requirement to use all standard rural Minor Arterial design criteria would significantly impact the site layout.

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

The proposed modified Minor Arterial roadway has been be designed to accommodate the projected commercial (and residential) traffic volumes. The attached exhibit and depict the addition of auxiliary turn lanes and the attached AutoTurn exhibits demonstrate that the proposed 6' paved shoulders would accommodate the design vehicle. These elements will allow the roadway to accommodate the proposed daily commercial traffic volumes (and peak-hour intersection turning movement volumes) that would need to use this section of street due to access restrictions on SH 83 and Hodgen Road. The proposed modifications to the above-referenced design elements of the Rural Minor Arterial classification would be more appropriate for this particular situation.

This roadway will only serve a relatively small residential development and a small

commercial center. The roadway will basically be an access drive with a length of 950 feet. Most traffic will turn left into and right out of the first commercial access point located 360 feet south of Hodgen Road (centerline spacing). Given the nature and low level of continuity of the roadway, the proposed modified design elements are more appropriate than those standard with the Rural Minor Arterial. The traffic will not be high-speed, through traffic volumes, rather low-speed, local access traffic turning to/from Hodgen Road and turning into and out of the commercial center and the residential subdivision streets.

The deviation will not adversely affect safety or operations.

The attached exhibit and depict the addition of auxiliary turn lanes and the attached AutoTurn exhibits demonstrate that the proposed 6' paved shoulders would accommodate the design vehicle. These elements will allow the roadway to accommodate the proposed daily commercial traffic volumes (and peak-hour intersection turning movement volumes).

The queuing analysis included in the Traffic Impact Study (attached for reference) indicates that the projected queues can be accommodated by the proposed laneage shown in the attached exhibit. Intersection levels of service are shown to meet county standards.

The Rural Minor Arterial design elements requested for modification - a minimum centerline radius of 350', six foot outside paved shoulder (instead of an eight-foot paved shoulder), intersection spacings of 360' and 295' (instead of one-quarter mile) - are consistent with the requested modified lower design speed of 30 mph and posted speed of 30 mph. Given the nature and low level of continuity of the roadway, the proposed modified design elements are more appropriate than those with the standard Rural Minor Arterial (60 mph design speed). The traffic will not be high-speed, through traffic volumes, rather low-speed, local access traffic turning to/from Hodgen Road and turning into and out of the commercial center and the residential subdivision streets.

The deviation will not adversely affect maintenance and its associated cost.

The deviation will not adversely affect maintenance cost as the paved shoulders are 2' narrower than the Minor Arterial standard. This would be 2' less pavement on each side to maintain.

The deviation will not adversely affect aesthetic appearance.

N/A

Owner, Applicant and Engineer Declaration:

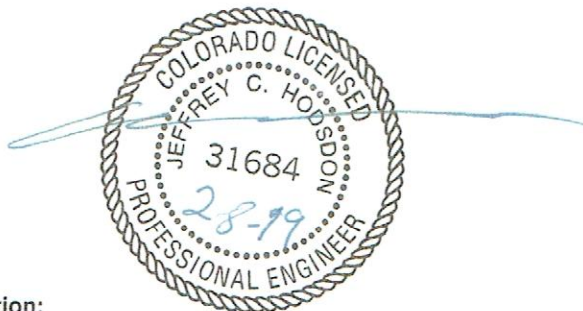
To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

Christina 2/9/19 _____
Signature of owner (or authorized representative) Date

Signature of applicant (if different from owner) Date

Signature of Engineer Date

Engineer's Seal



Review and Recommendation:

APPROVED by the ECM Administrator

_____ Date _____
This request has been determined to have met the criteria for approval. A deviation from Section _____
of ECM is hereby granted based on the justification provided. Comments:

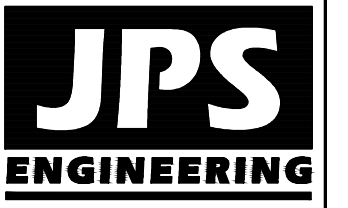
____ Additional comments or information are attached.

DENIED by the ECM Administrator

_____ Date _____
This request has been determined not to have met criteria for approval. A deviation from Section _____
of ECM is hereby denied. Comments:

____ Additional comments or information are attached.

Z:\081702\rollin-ridge\dwg\c1.3.dwg Jan 14, 2019 - 4:00pm



19 E. Willamette Ave.
Colorado Springs, CO
80903
PH: 719-477-9429
FAX: 719-471-0766
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MEMBER UTILITIES.

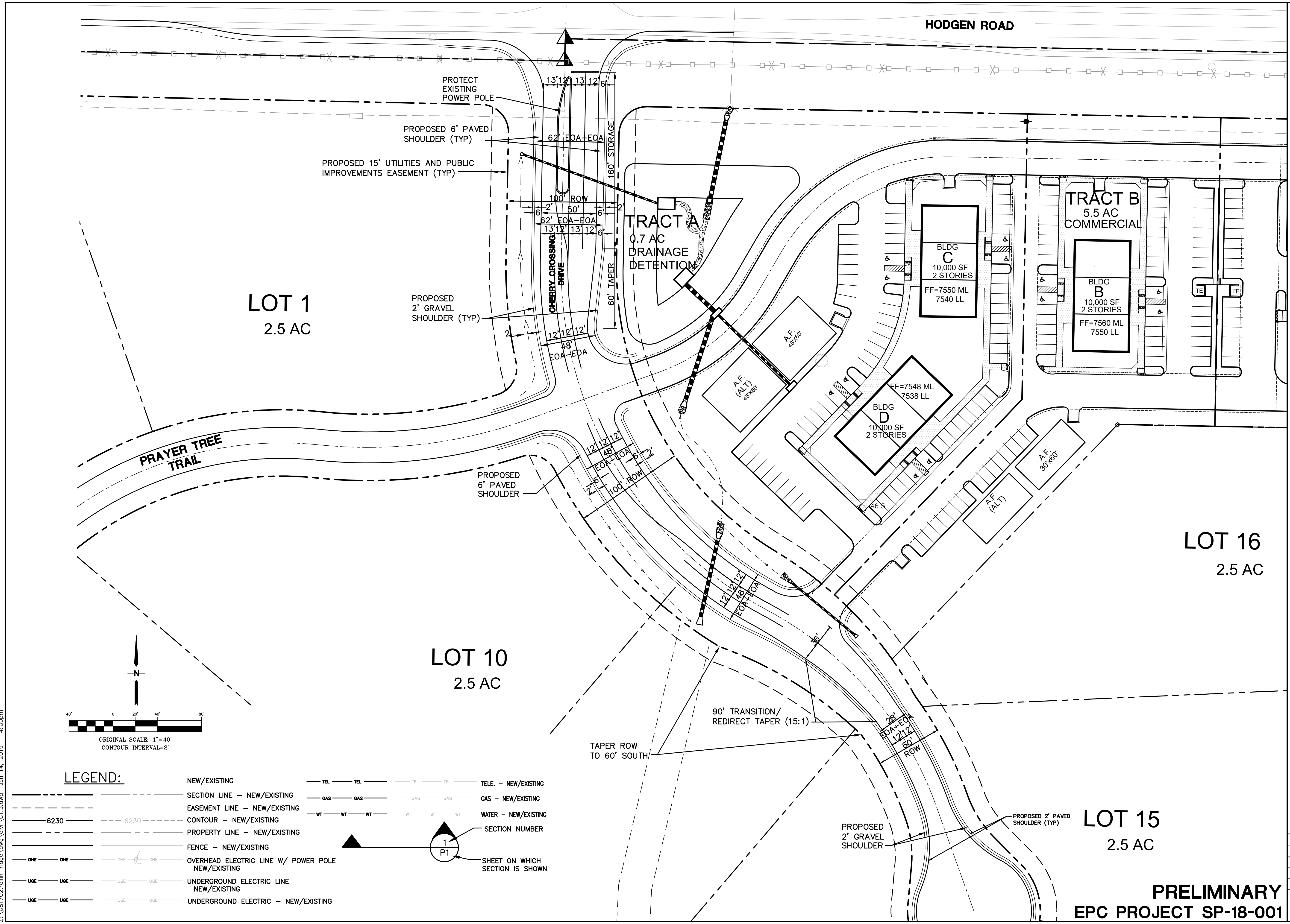
ROLLIN RIDGE ESTATES

No.	REVISION	BY	DATE

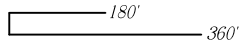
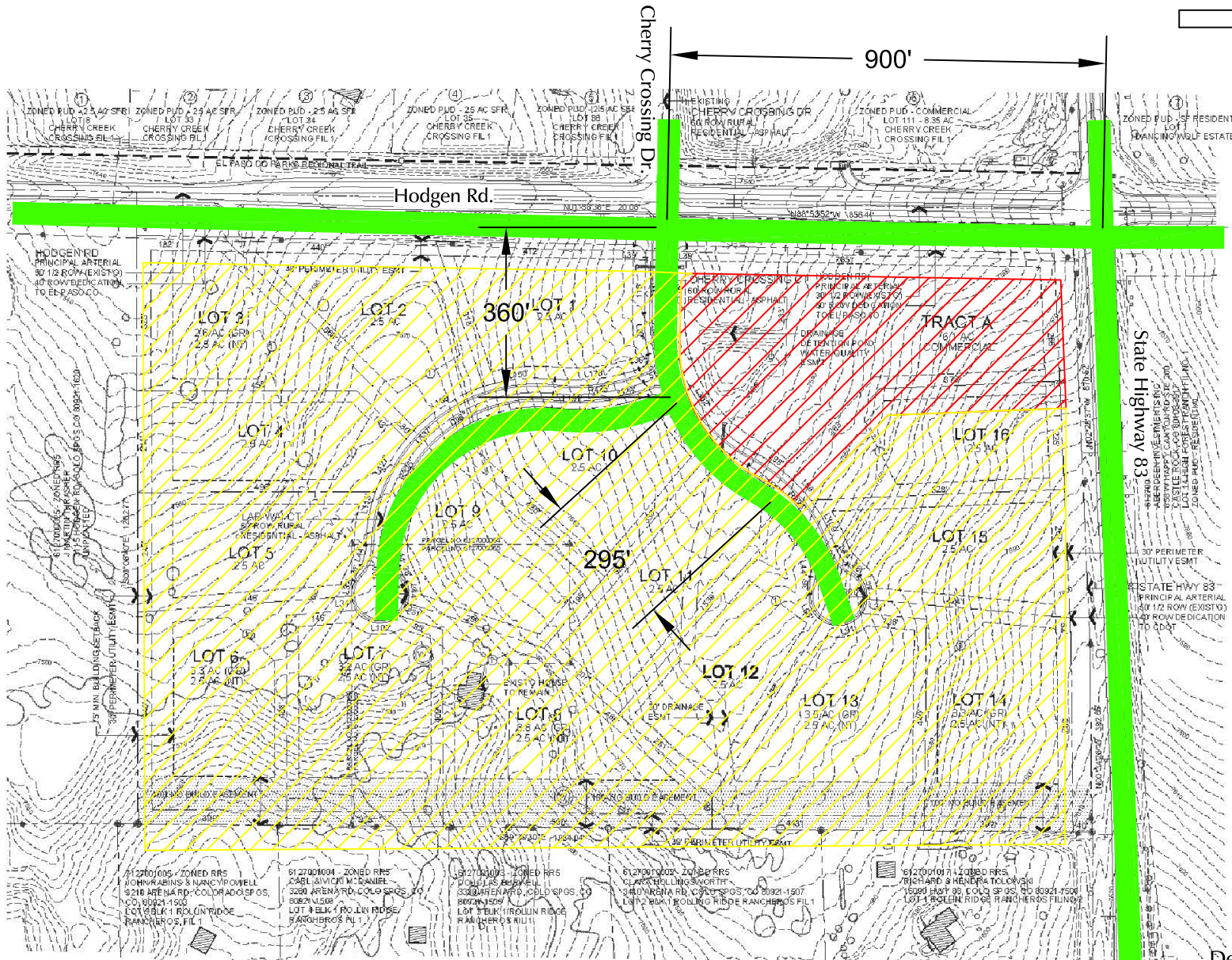
ENTRY DETAIL

HORZ. SCALE: 1"=40'	DRAWN: BJJ
VERT. SCALE: N/A	DESIGNED: JPS
SURVEYED: RAMPART	CHECKED: JPS
CREATED: 1/04/19	LAST MODIFIED: 1/14/19
PROJECT NO: 081702	MODIFIED BY: BJJ
SHEET:	

C1.3





PRELIMINARY
EPC PROJECT SP-18-001



Approximate Scale
Scale: 1" = 360'

LEGEND:

-  = Commercial Development Site
-  = Residential Development Site

Intersection/Access Spacing

Rollin Ridge Estates (LSC #174470)

Deviation Exhibit

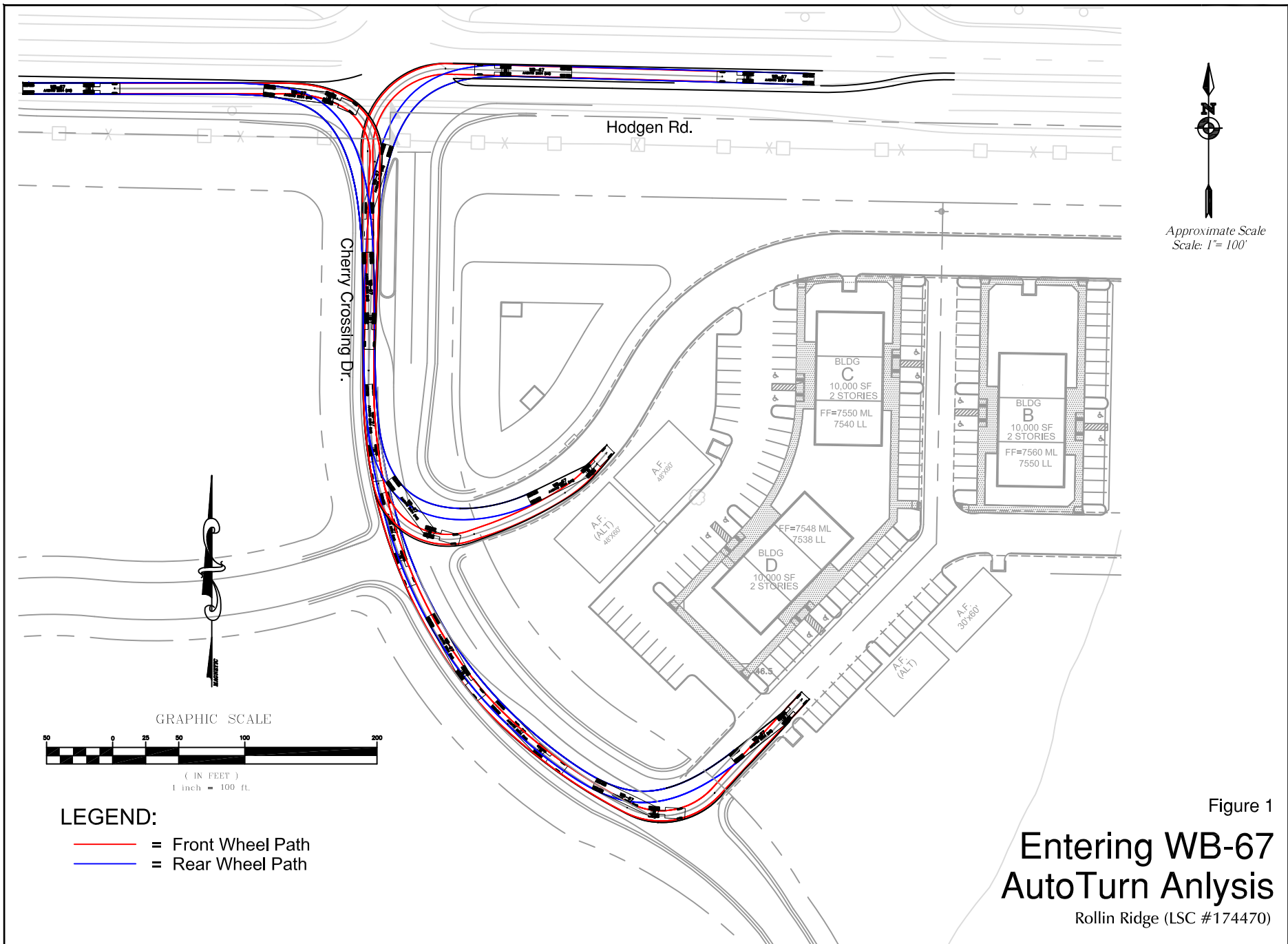


Figure 1

Entering WB-67 AutoTurn Analysis

Rollin Ridge (LSC #174470)

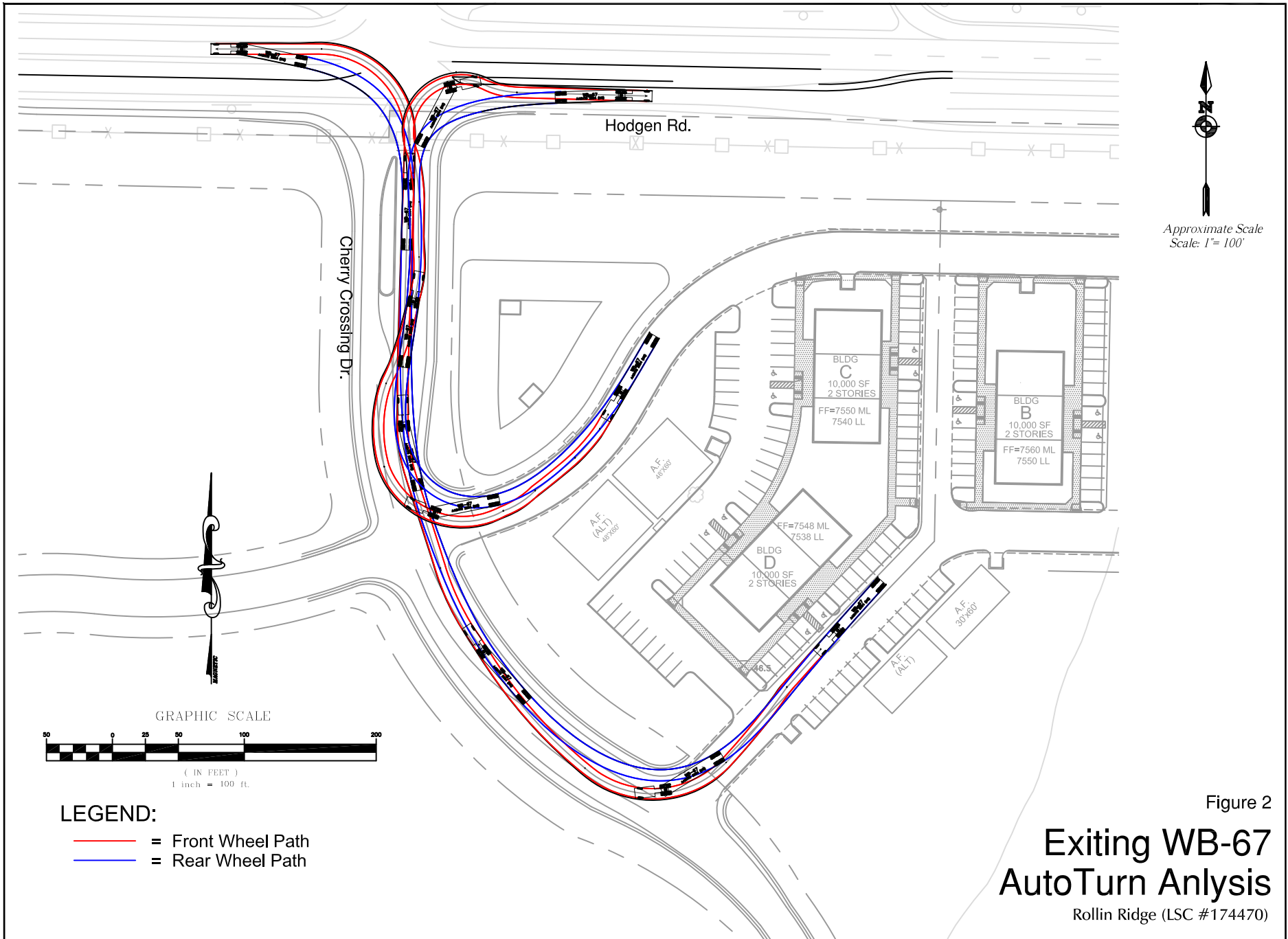


Figure 2

Exiting WB-67 AutoTurn Analysis

Rollin Ridge (LSC #174470)

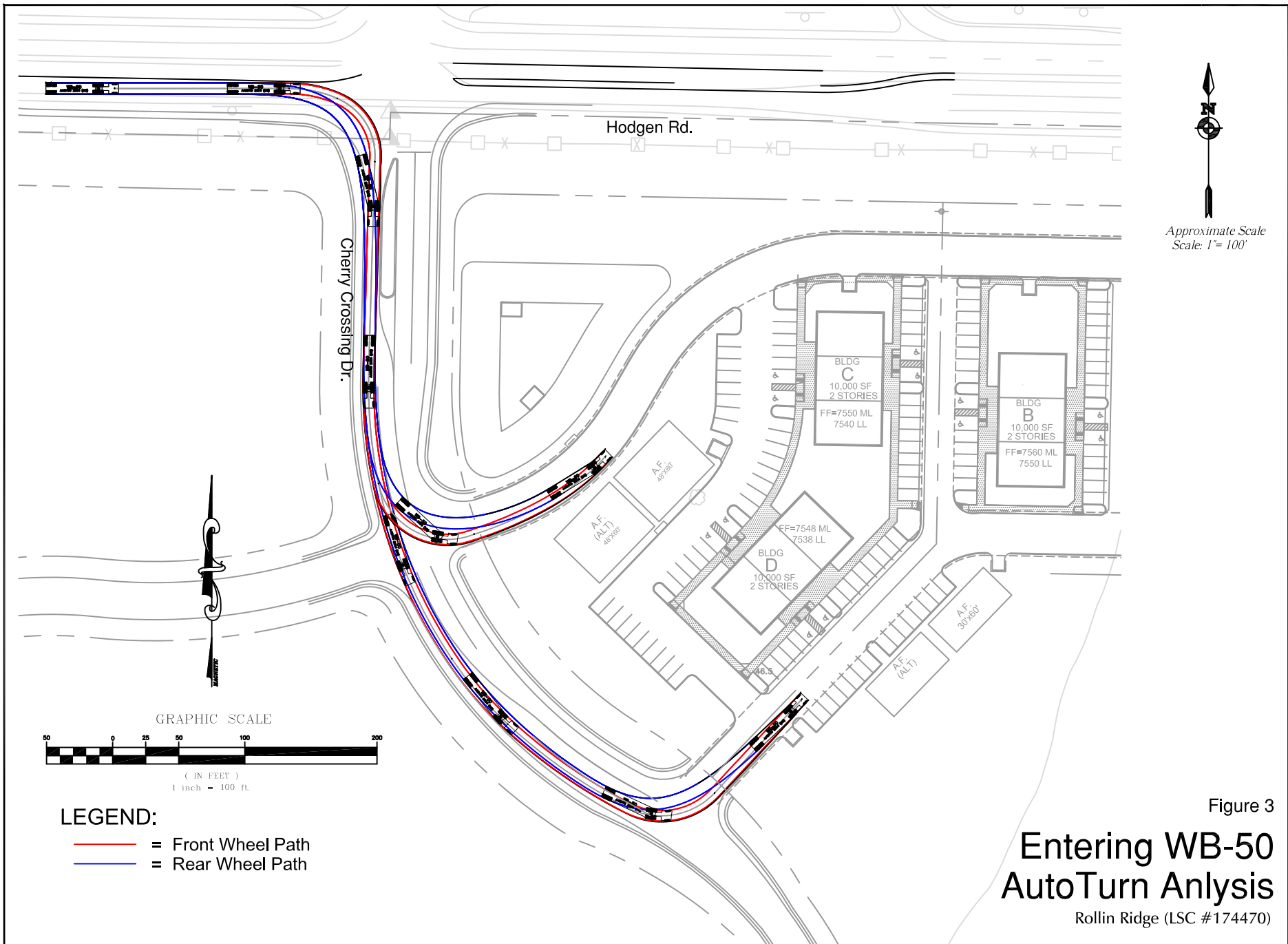


Figure 3

Entering WB-50 AutoTurn Analysis

Rollin Ridge (LSC #174470)

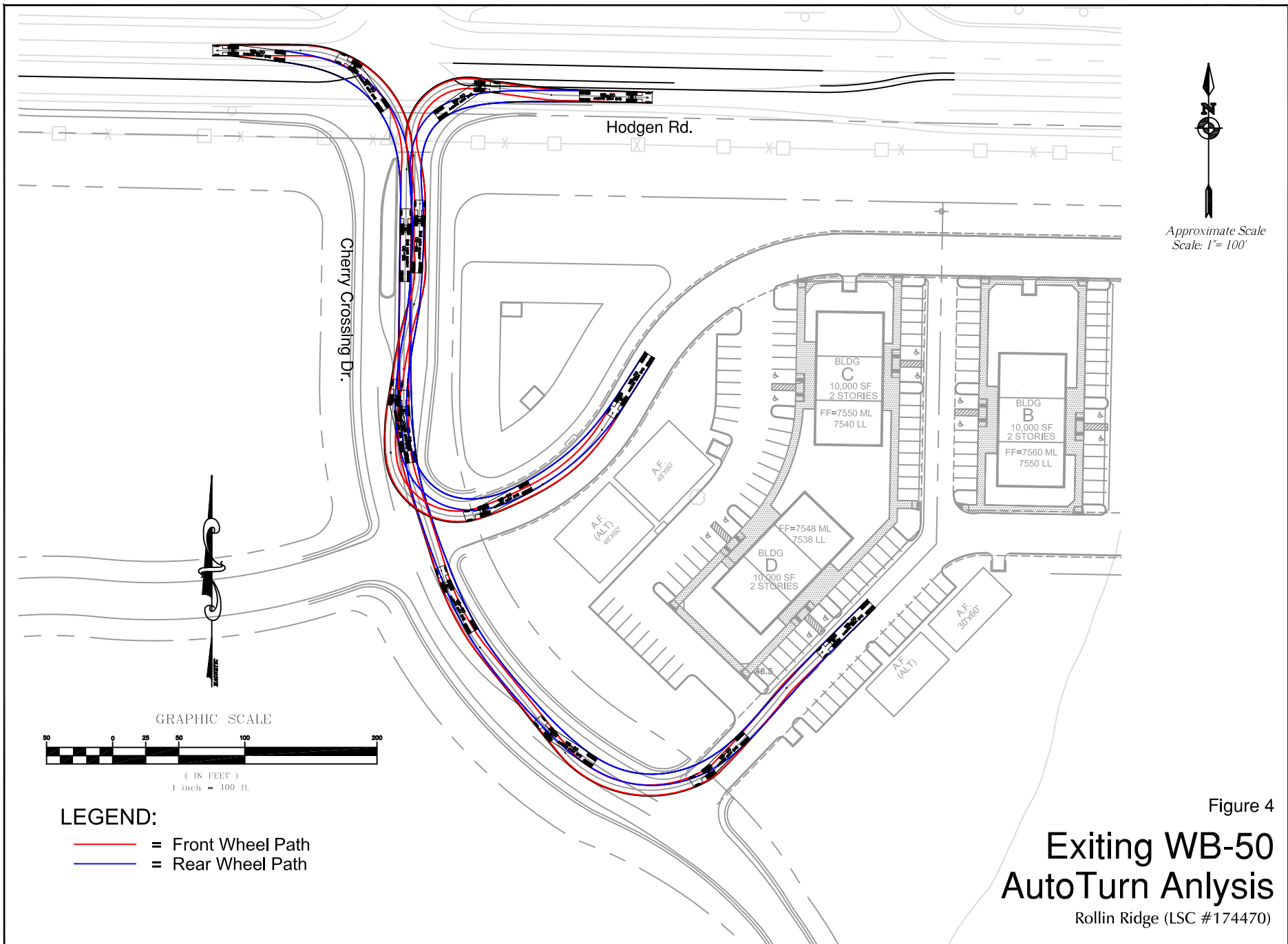


Figure 4

Exiting WB-50 AutoTurn Analysis

Rollin Ridge (LSC #174470)

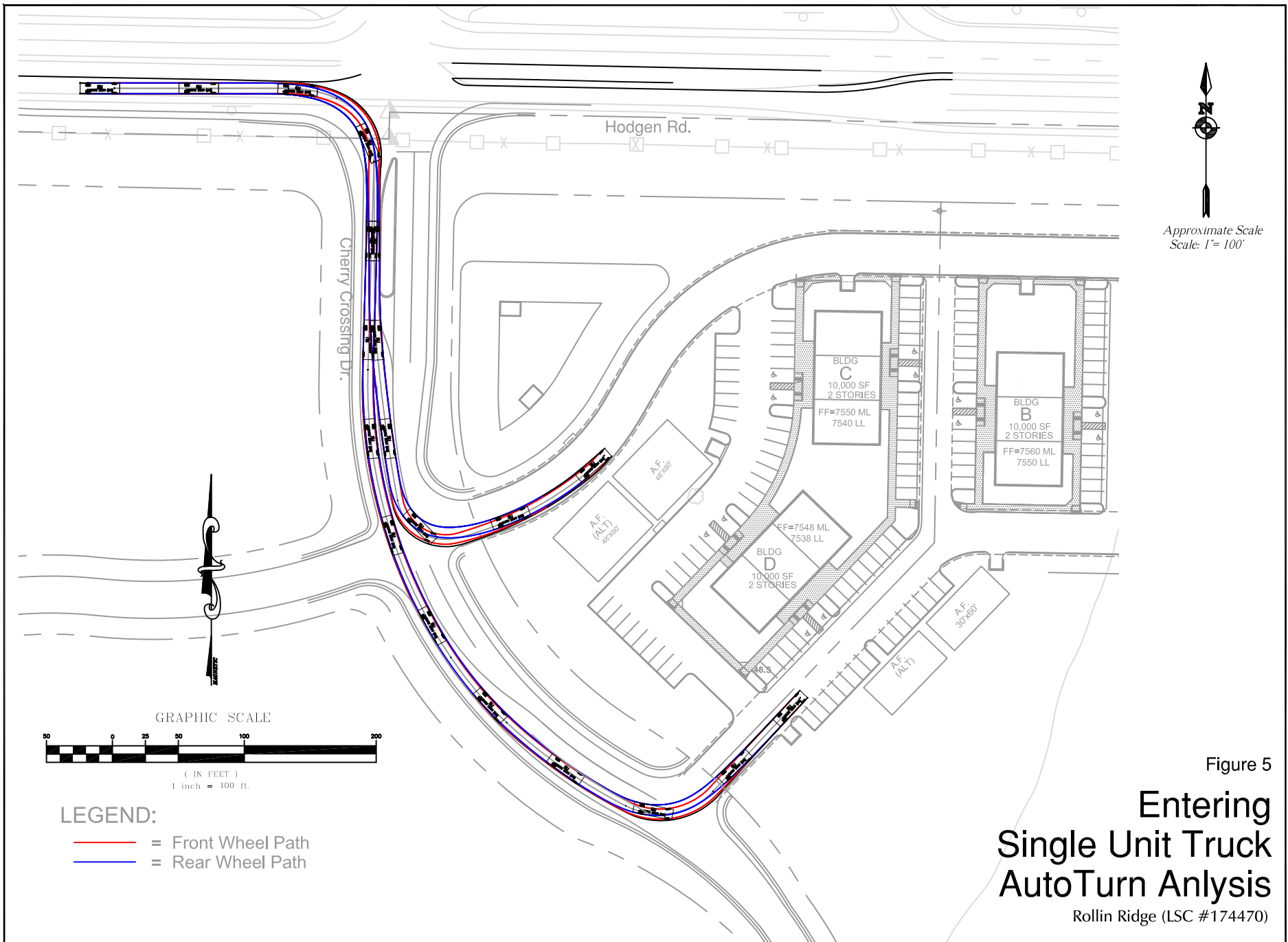
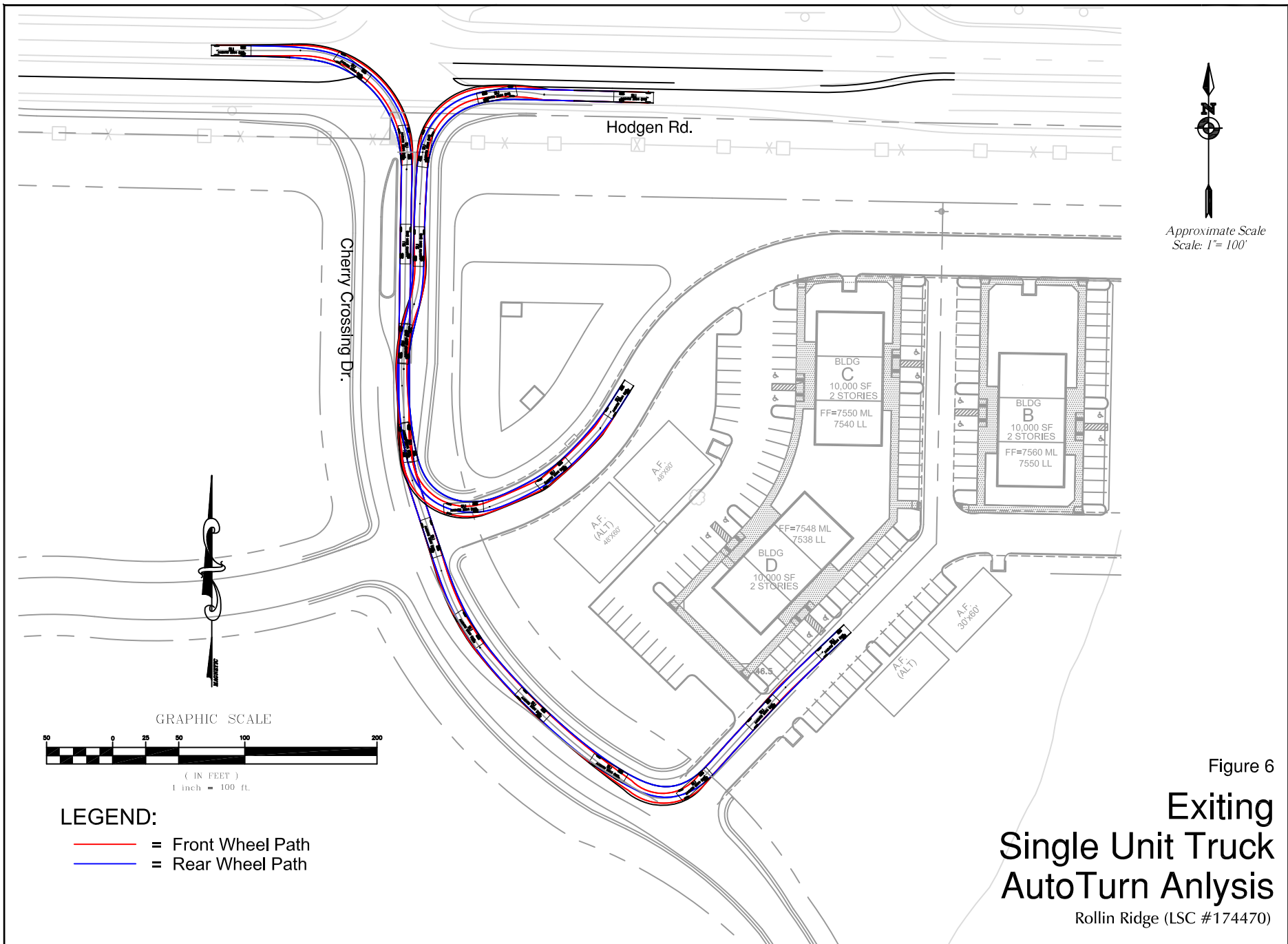


Figure 5
**Entering
 Single Unit Truck
 AutoTurn Analysis**
 Rollin Ridge (LSC #174470)

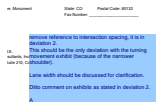


Approximate Scale
Scale: 1" = 100'

Figure 6
**Exiting
 Single Unit Truck
 AutoTurn Analysis**
 Rollin Ridge (LSC #174470)

Markup Summary

dsdnijkamp (12)



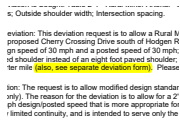
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Author: dsdnijkamp
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remove reference to intersection spacing, it is in deviation 2.
This should be the only deviation with the turning movement exhibit (because of the narrower shoulder).

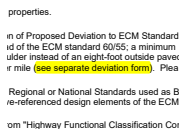
Lane width should be discussed for clarification.

Ditto comment on exhibits as stated in deviation 2.

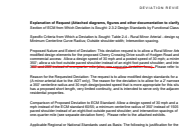
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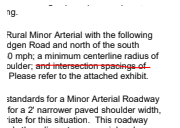
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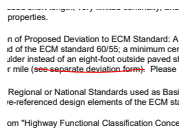
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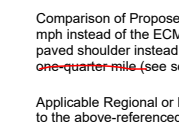
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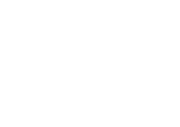
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Make a design speed of 30 mph and a profile speed of 30 mph...
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Make a design speed of 30 mph and a profile speed of 30 mph...

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remove all reference to intersection spacing please.

Requested Deviation: The request is to allow...
Requested Deviation: The request is to allow...
Requested Deviation: The request is to allow...

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Author: dsdnijkamp
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state that it is a dead end.

THE ROAD WITH
the short length
ADT range of t
pavement design
Arterial ROW is
of the proposec
drainage ditch

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Not suitable for right-of-way...
Not suitable for right-of-way...
Not suitable for right-of-way...

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this is not pavement design, it is ROW cross section. Pavement design is the thickness of the pavement which, BTW, shall be designed to Minor Arterial standards. I will add as a condition of approval of this deviation.