



Please also address  
Review 2 comments

Addressed, see  
redline2 included  
with this submittal

Matrix Design Group, Inc.  
2425 Research Parkway, Suite 300  
Colorado Springs, CO 80920  
O 719.575.0100  
F 719.575.0208  
matrixdesigngroup.com

December 3, 2025

Jeff Mark  
The Landhuis Company  
212 N. Wahsatch Ave., Suite 301  
Colorado Springs, CO 80920

El Paso County now follows NCHRP 1043 for roundabout design and design checks (Appendix A-1 of the NCHRP document). Please ensure all design checks shown in the NCHRP document are met.

noted, NCHRP 1043 used for updates

**RE: Rolling Meadows Parkway/Prairie Song Drive Roundabout Configurations and Traffic Operations**

Dear Mr. Mark,

Matrix Design Group (Matrix) is pleased to provide this letter summarizing the traffic operations of the proposed roundabout at Rolling Meadows Parkway/Prairie Song Drive. This letter is prepared based on the *Rolling Meadows/Bull Hill Master Traffic Impact Study & Antelope Ridge at Bull Hill Traffic Impact Study* (August 2025), prepared by Matrix.

## Location

This roundabout will be located approximately 3,500-ft south of Bradley Road on the future Rolling Meadows Parkway. According to the MTIS, Rolling Meadows is classified as a non-residential collector north of the roundabout and residential collector south of the roundabout. The daily volume is 16,350 vehicles on this roadway. Figure 1 shows the location of this roundabout. Figure 2 shows the traffic operations and turn lane configurations. Figure 3 shows the vehicle fastest path with the speed summary table. Templates for the roundabout fastest path diagram and vehicle tracking path can be found in the appendix. The roundabout design layout has been evaluated using the WB-50 truck turning templates to confirm that adequate space is provided for truck maneuvering.

Figure 1 – Location

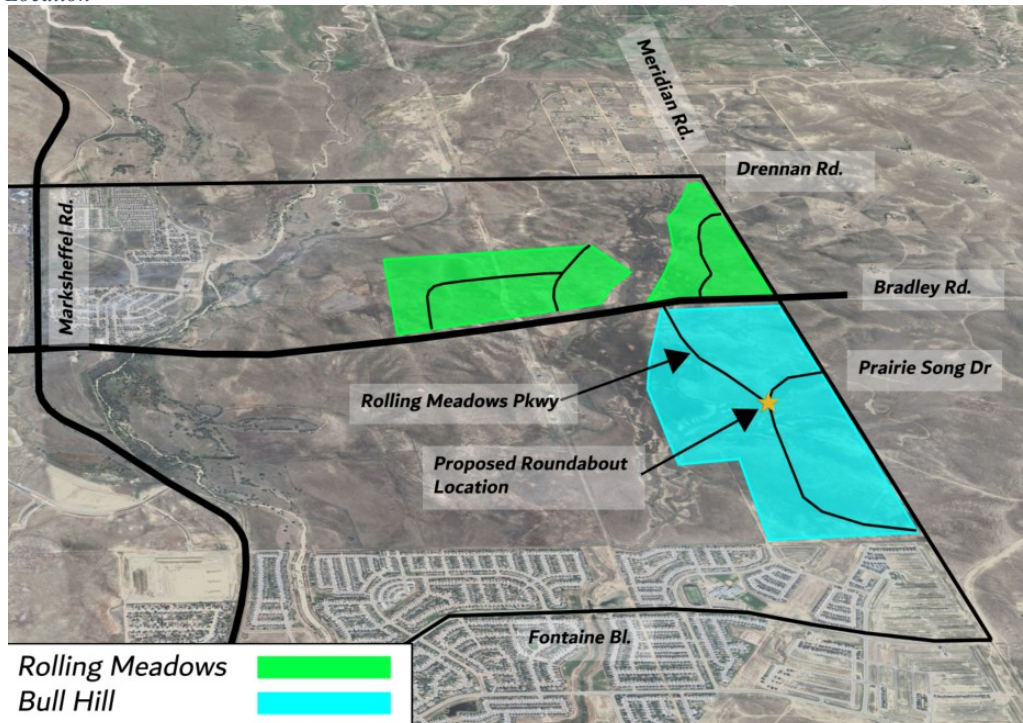
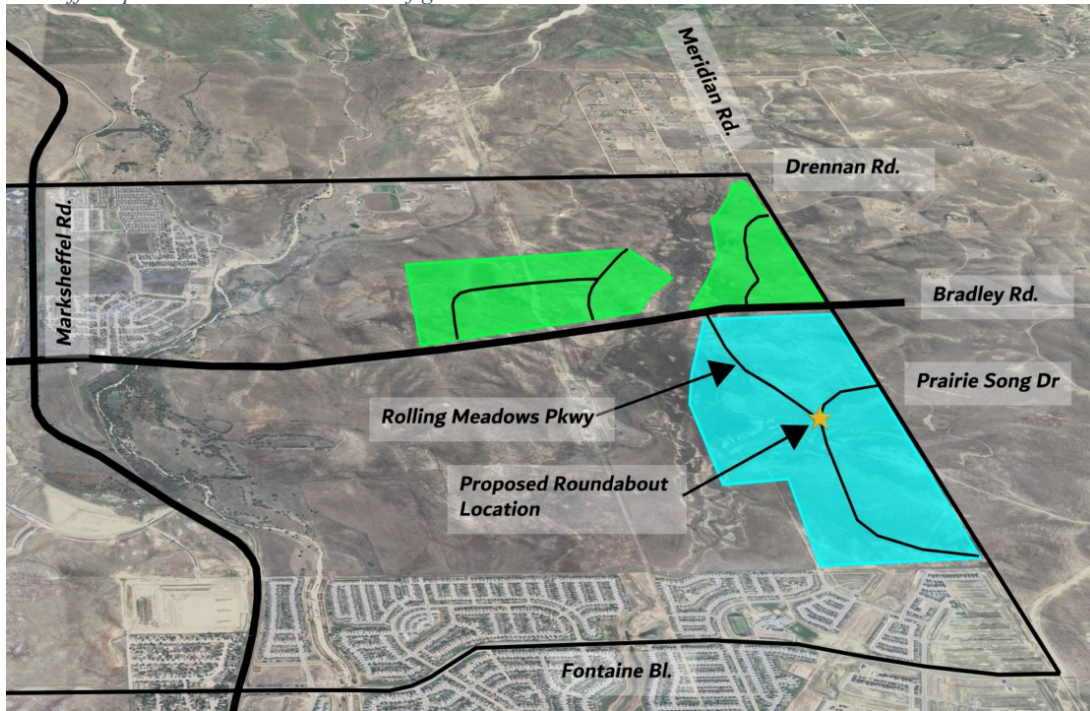
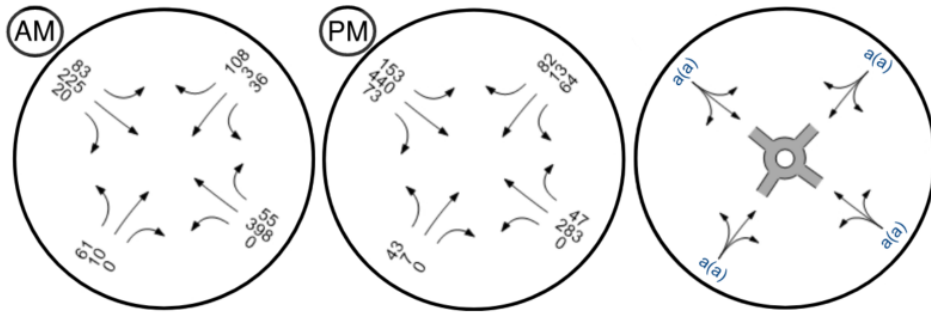


Figure 2 – Traffic Operations and Turn Lane Configurations

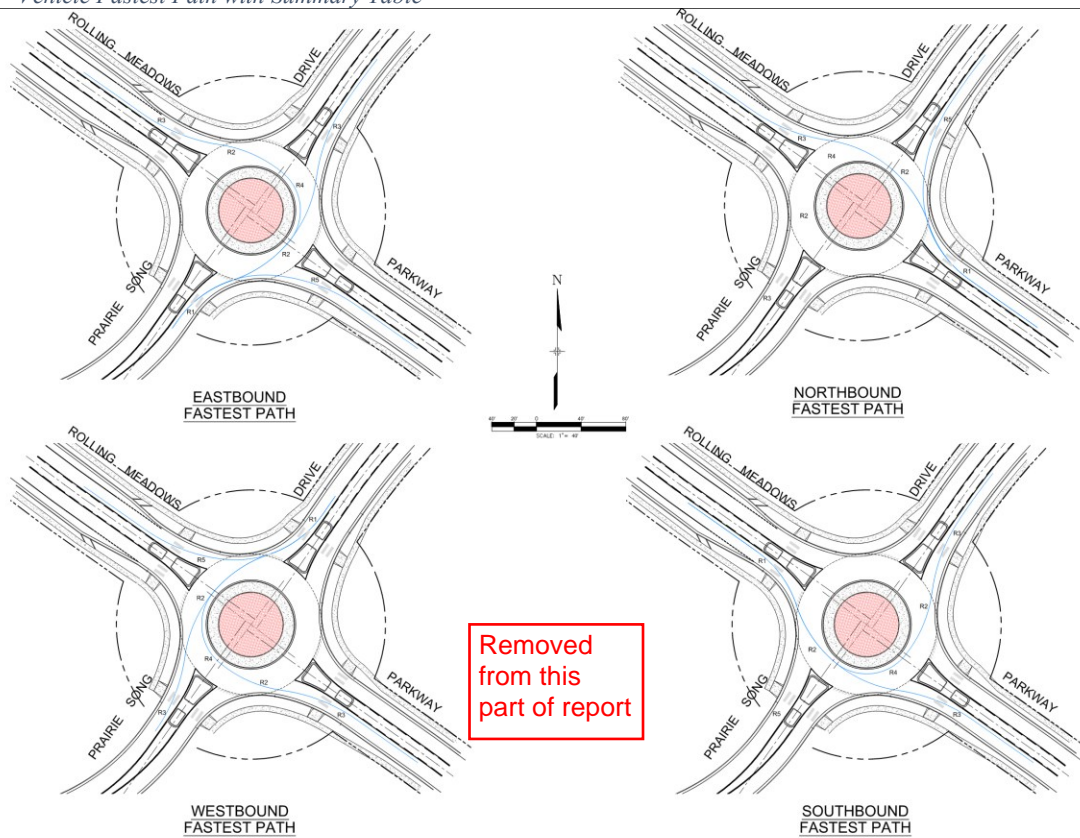


Rolling Meadows Parkway/Prairie Song Drive



LOS am(pm)

Figure 3– Vehicle Fastest Path with Summary Table



FASTEST PATH SUMMARY TABLE (mph)				
	EASTBOUND	WESTBOUND	SOUTHBOUND	NORTHBOUND
No.	SPEED	SPEED	SPEED	SPEED
R1	19	19	19	19
R2	22	22	22	22
R3	24	24	24	24
R4	15	15	15	15
R5	24	24	24	24

As shown in Figures 2 and Figure 3, the intersection of Rolling Meadows Parkway and Prairie Song Drive is projected to operate at an acceptable level of service during both the AM and PM peak hours in the horizon (2055) year. The proposed roundabout will accommodate the anticipated traffic volumes, operate effectively and all design vehicles can navigate the roundabout without encroaching on prohibited areas.

Please feel free to contact me at (719) 575-0100 or at [navid.shafieirad@matrixdesigngroup.com](mailto:navid.shafieirad@matrixdesigngroup.com) if you have any questions.

Sincerely,  
*Navid Shafieirad*  
 Navid Shafieirad, P.E., PTOE  
 Traffic Engineer  
 Matrix Design Group, Inc.

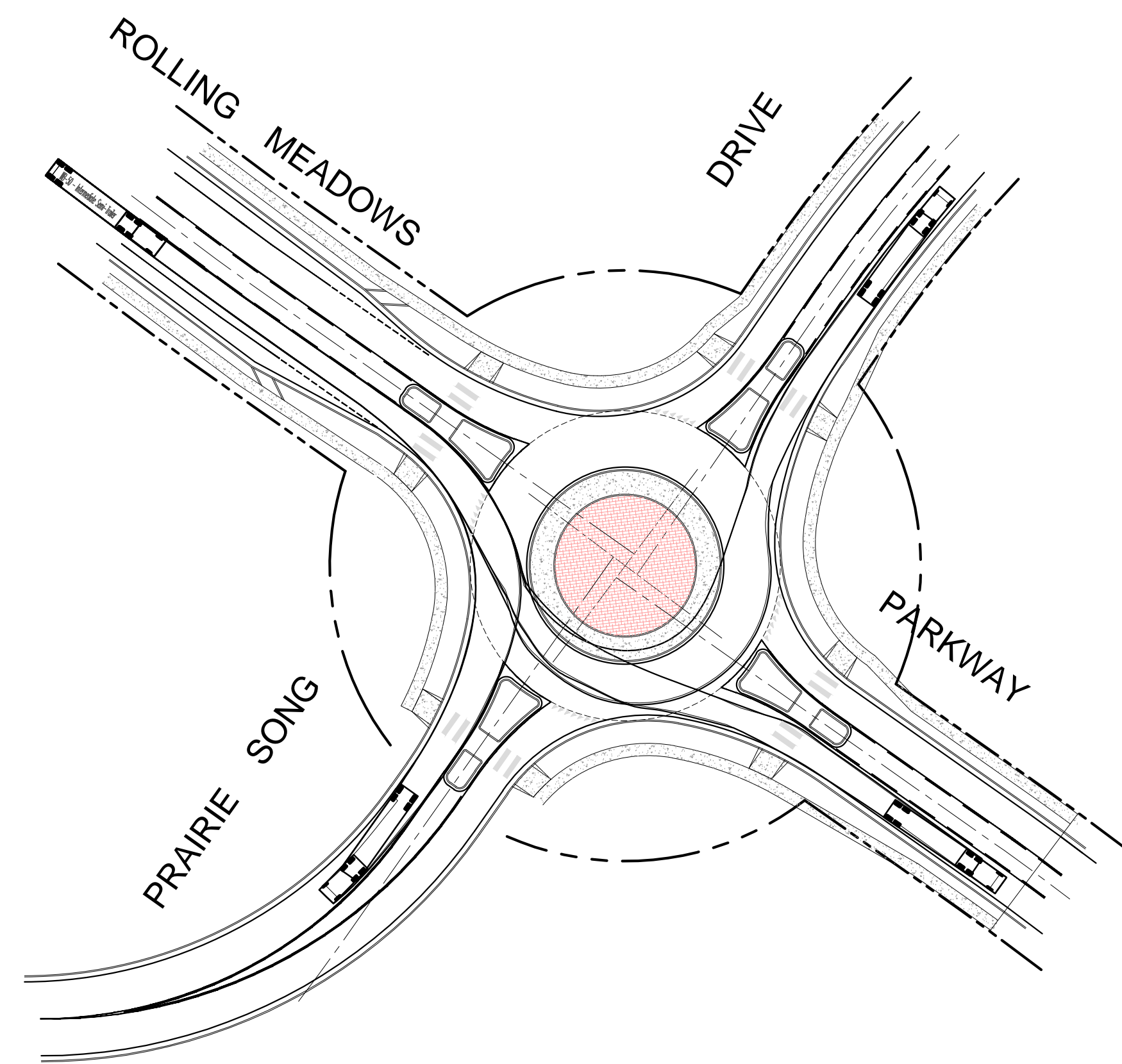
Attachments:

Roundabout Plan Layout

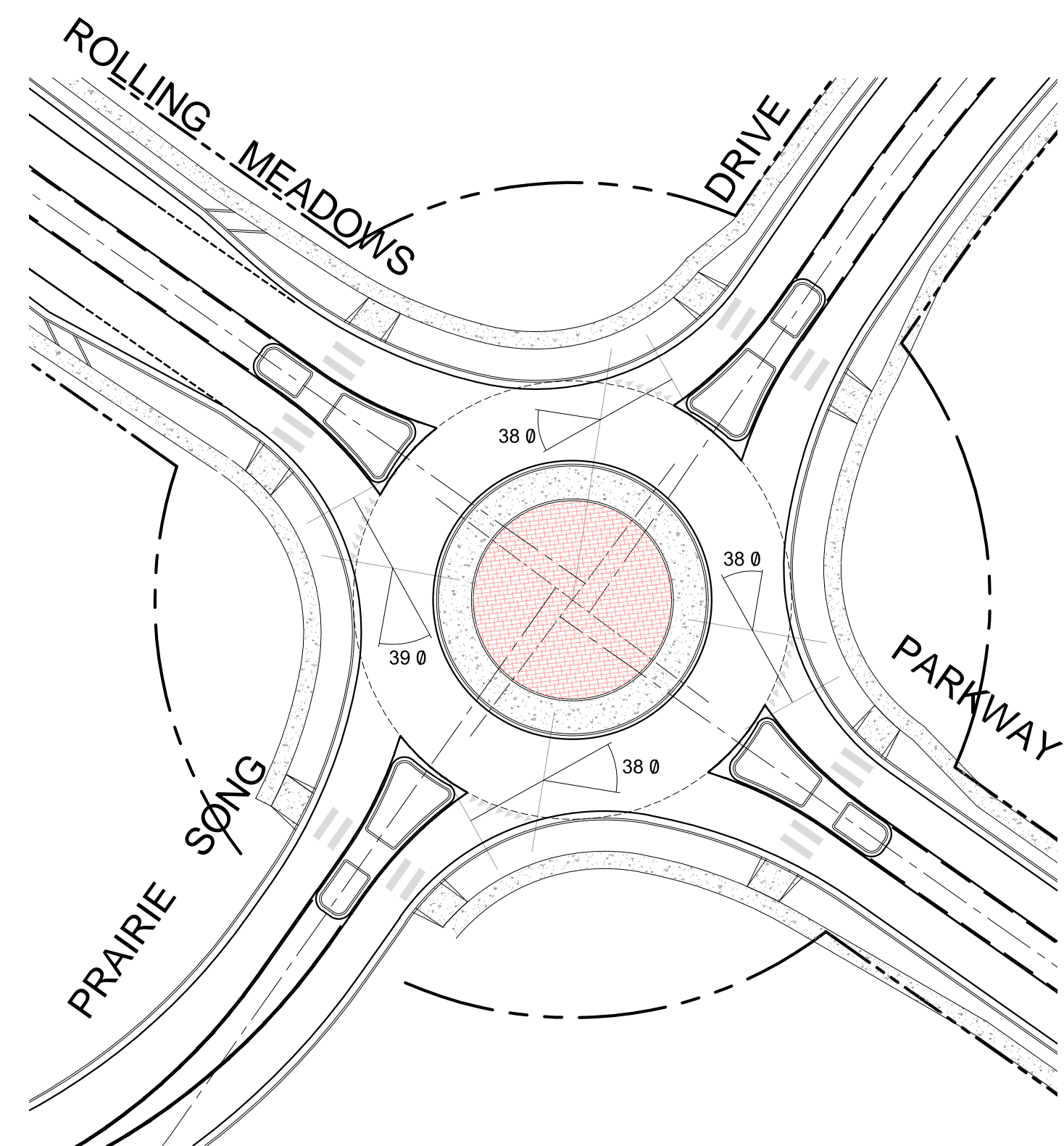
Vehicle Tracking Path

Fastest Path Diagram

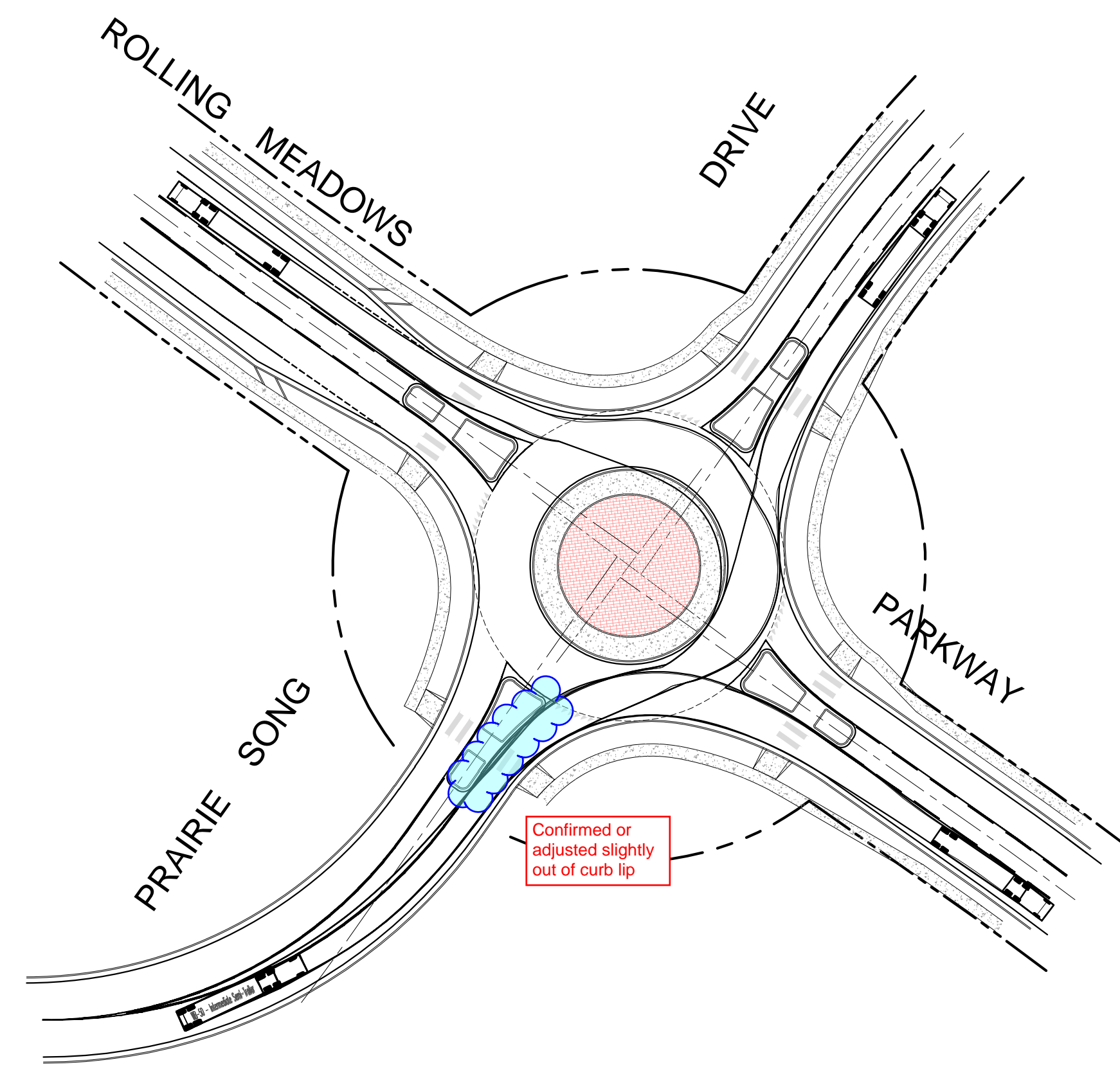




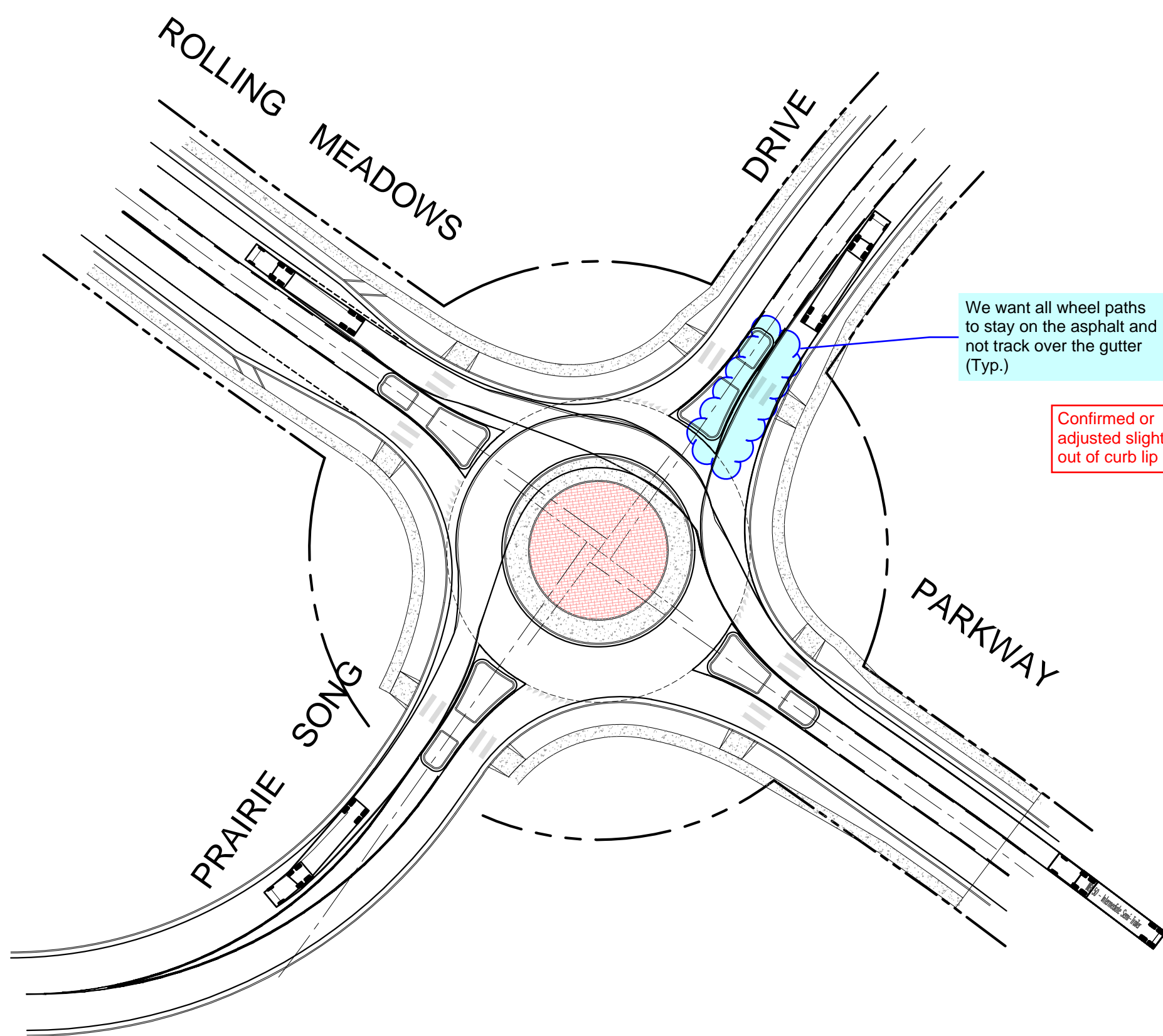
EASTBOUND  
VEHICLE TRACKING PATH



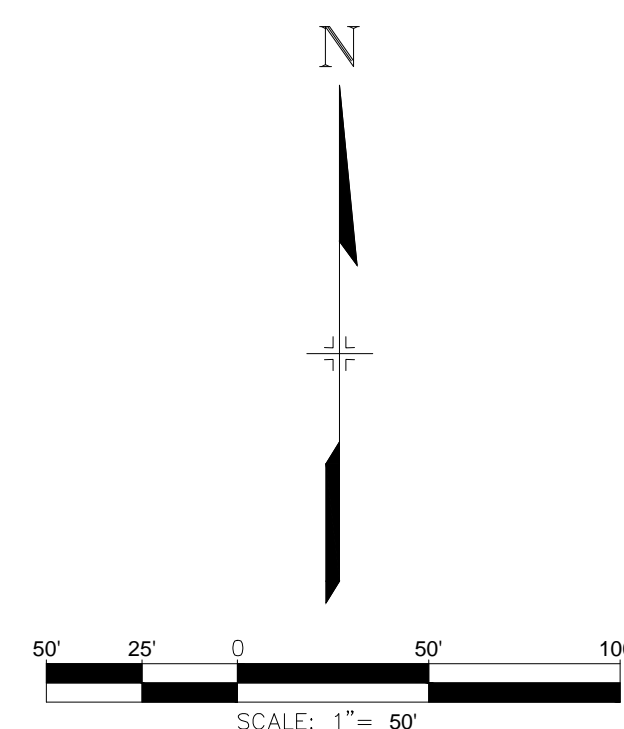
APPROACH  
ANGLE DIAGRAM  
SCALE: 1" = 40'



NORTHBOUND  
VEHICLE TRACKING PATH



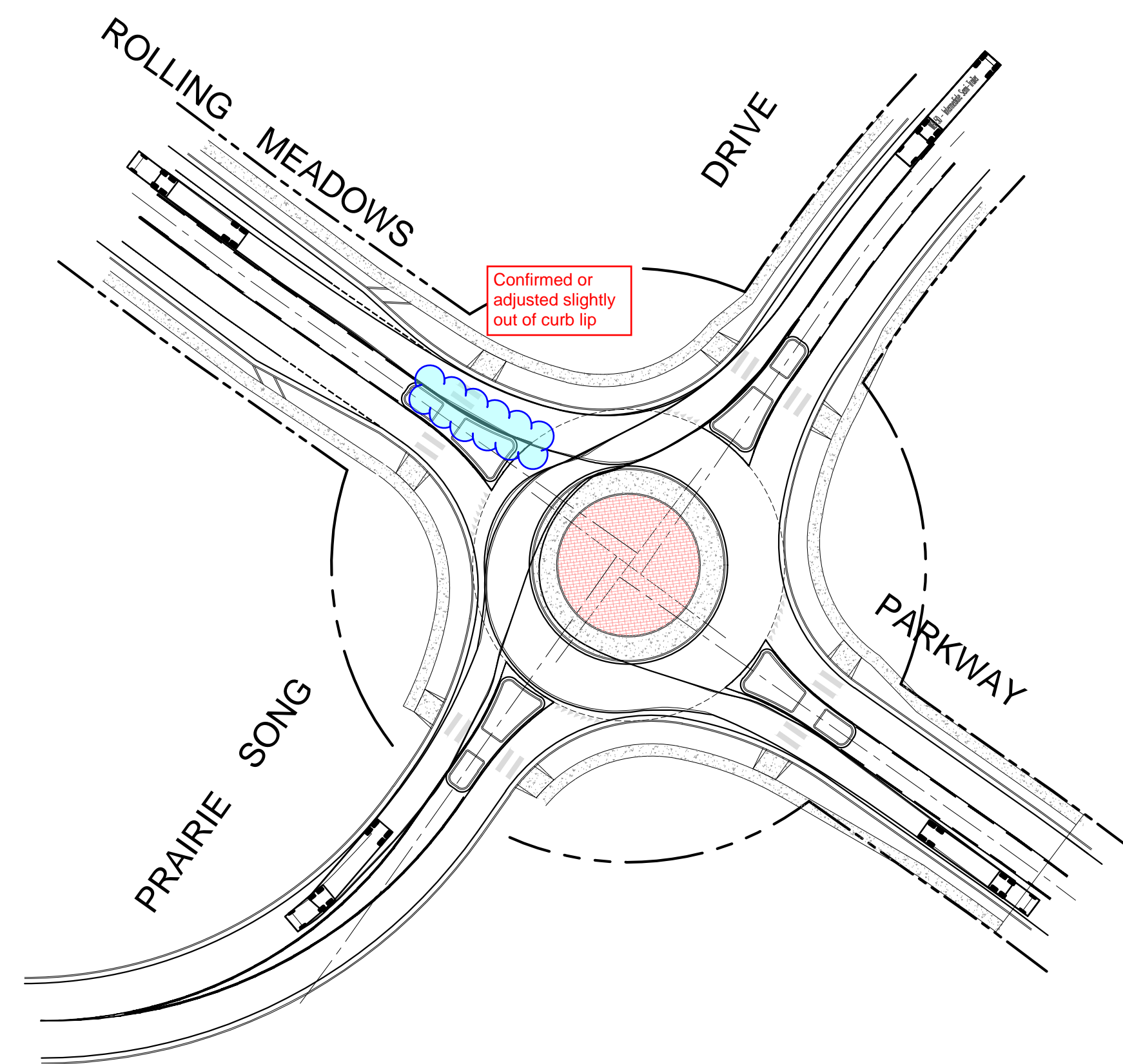
WESTBOUND  
VEHICLE TRACKING PATH



NOTE:  
A WB50 VEHICLE USED FOR THIS EXHIBIT

Provide WB-67 tracking also

A WB-67 has been added for reference and shown in eastbound/westbound movements. Per section 3.3 of the NCHRP, the design vehicle for an urban roundabout shall be a bus or single-unit truck (WB-50 used). Although the design or control vehicle for an urban roundabout is not a WB-67, and no commercial parcels are proposed passed the roundabout, we have shown the WB-67 going eastbound/westbound for reference.



SOUTHBOUND  
VEHICLE TRACKING PATH

CONSULTANTS:  
PLANNER/ LANDSCAPE ARCHITECT/ CIVIL ENGINEER:  
**Matrix**  
Excellence by Design  
2435 RESEARCH PARKWAY, SUITE 300  
COLORADO SPRINGS, CO 80920  
PHONE: (719) 575-0100  
FAX: (719) 575-0208

OWNER/DEVELOPER:  
**The Landhuis Company**  
212 N Wahsatch Dr., Suite 301  
Colorado Springs, CO 80903  
(719) 635-3200

APPROVAL:

VICINITY MAP:

PROJECT:

REVISION HISTORY:

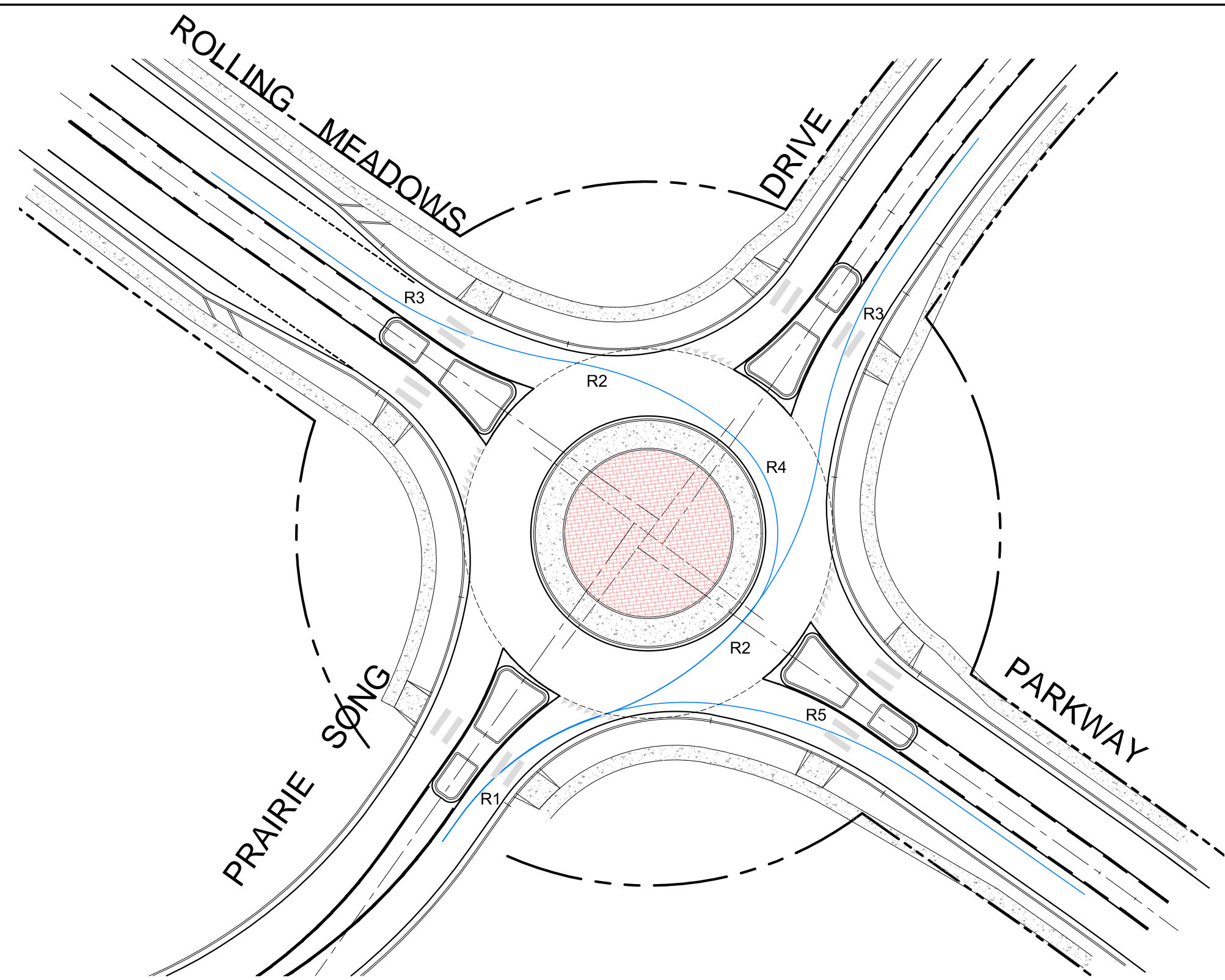
NO.	DATE	DESCRIPTION	BY

DRAWING INFORMATION:  
PROJECT NO: 24.1129.029 Rolling Meadows-Bull Hill Phase-1 PUDSP  
DRAWN BY: mhh  
CHECKED BY: mhh  
APPROVED BY: rf

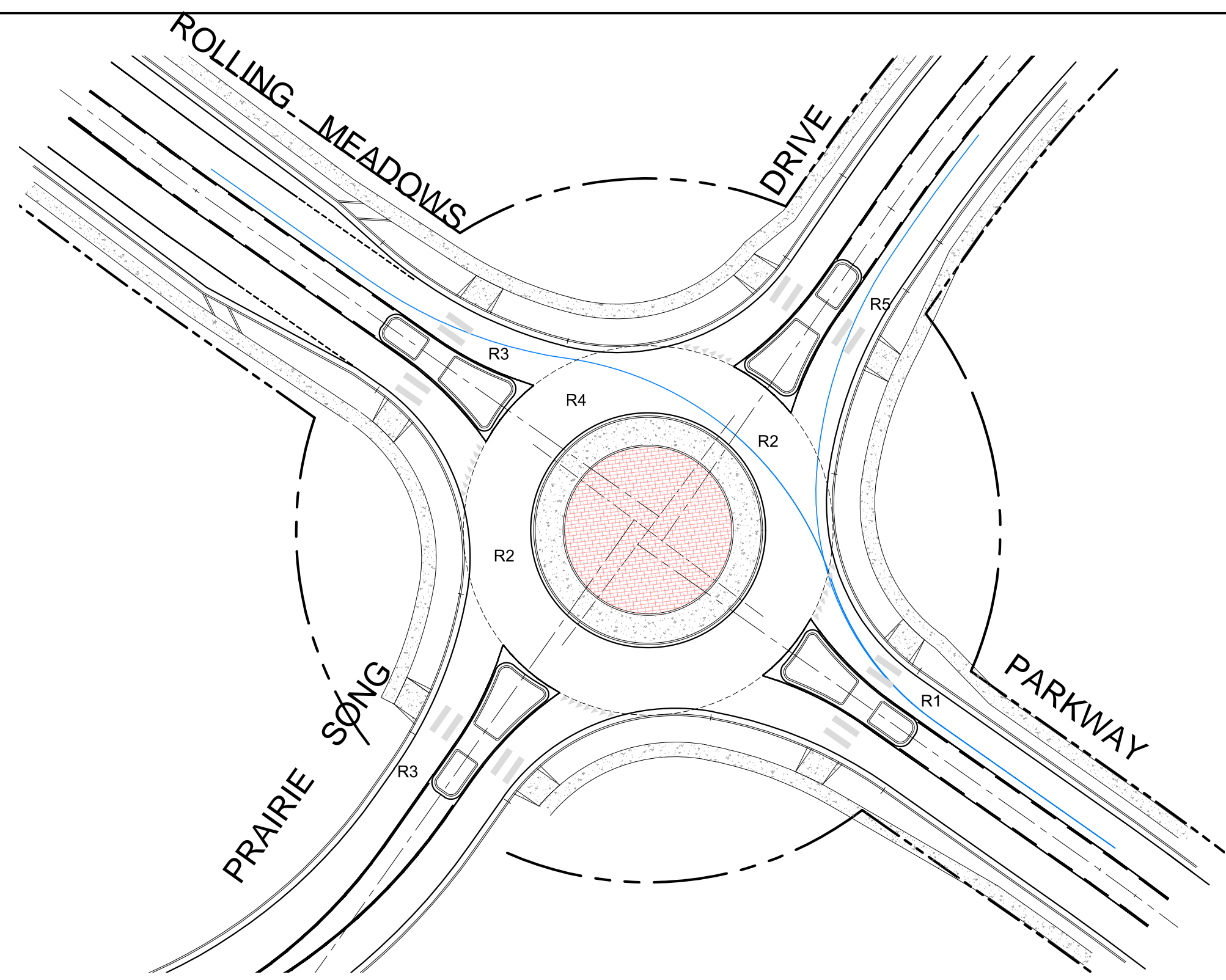
SHEET TITLE: ROUNDABOUT CONCEPT EXHIBIT

**VEHICLE TRACKING PATH**

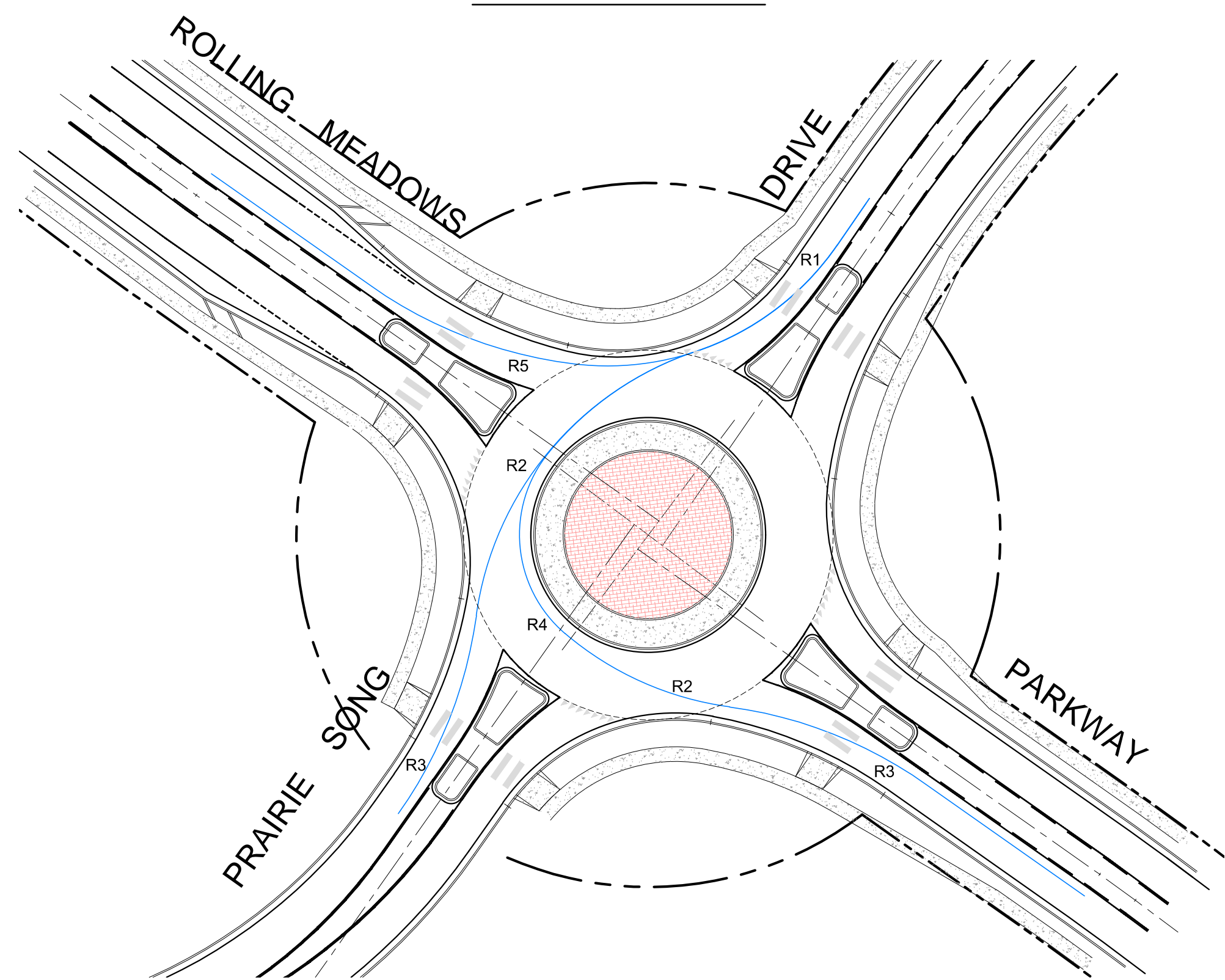
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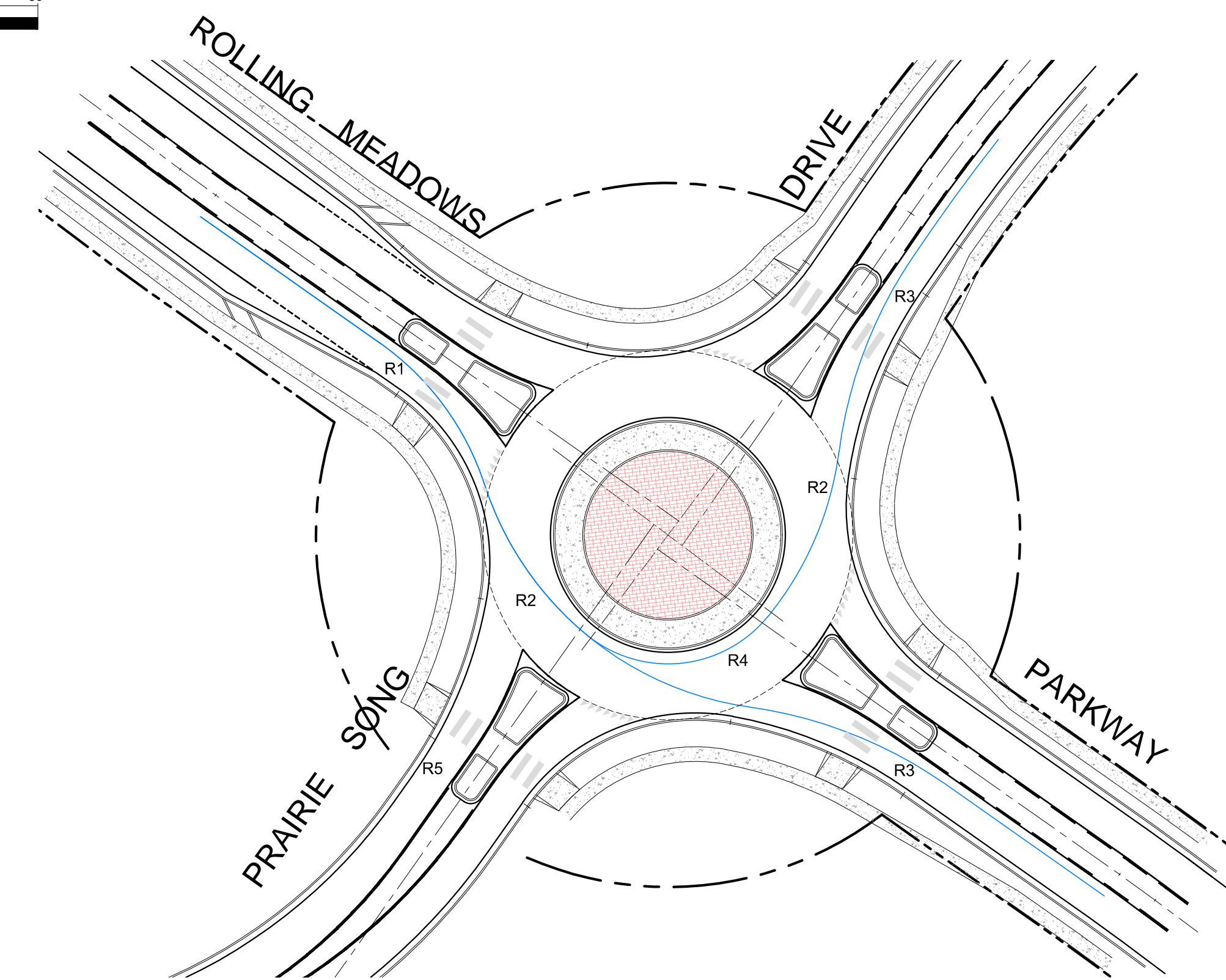
**EASTBOUND  
FASTEST PATH**



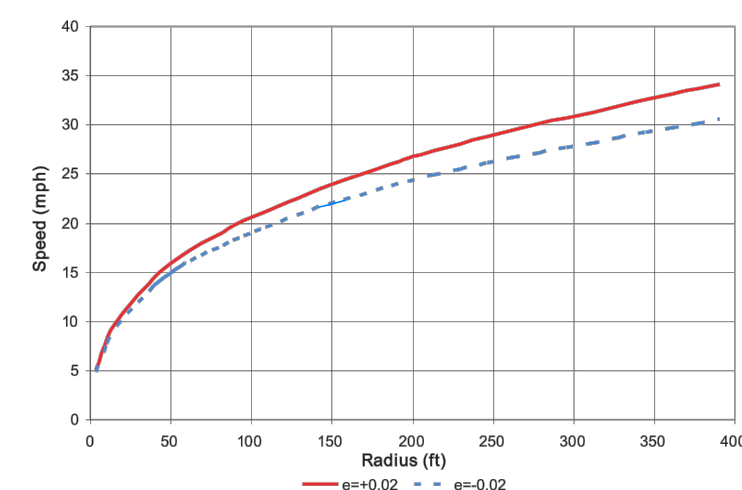
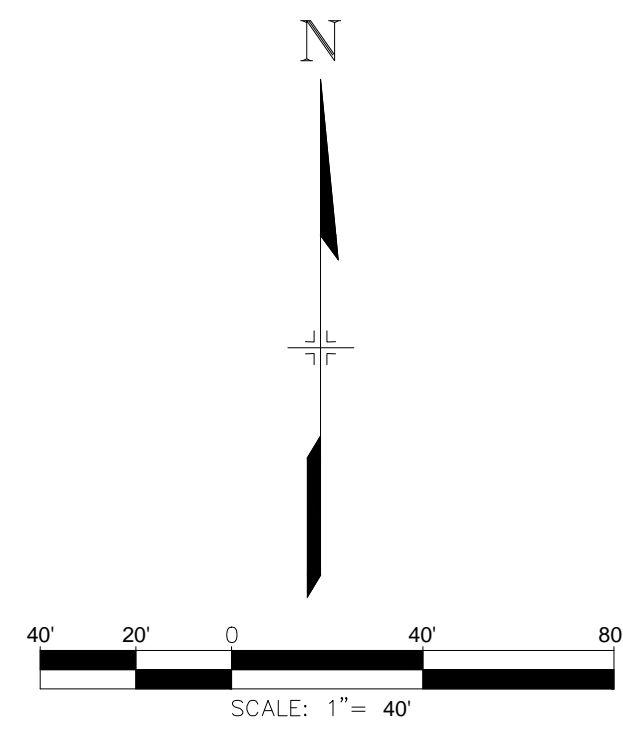
**NORTHBOUND  
FASTEST PATH**



**WESTBOUND  
FASTEST PATH**



**SOUTHBOUND  
FASTEST PATH**



**SPEED RADIUS RELATIONSHIP  
(Exhibit 6-11)**

FASTEST PATH SUMMARY TABLE				
No.	EASTBOUND RADIUS	WESTBOUND RADIUS	SOUTHBOUND RADIUS	NORTHBOUND RADIUS
R1	95'	95'	95'	95'
R2	111'	111'	111'	111'
R3	154'	154'	154'	154'
R4	44'	44'	44'	44'
R5	152'	152'	152'	152'

FASTEST PATH SUMMARY TABLE (mph)				
No.	EASTBOUND SPEED	WESTBOUND SPEED	SOUTHBOUND SPEED	NORTHBOUND SPEED
R1	19	19	19	19
R2	22	22	22	22
R3	24	24	24	24
R4	15	15	15	15
R5	24	24	24	24

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 CHECKED BY: mhh  
 APPROVED BY: rf

SHEET TITLE: ROUNDABOUT CONCEPT EXHIBIT

**FASTEST PATH DIAGRAM**

PCD FILE NO.: