



Please also address
Review 2 comments

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December 3, 2025

Jeff Mark
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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.

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

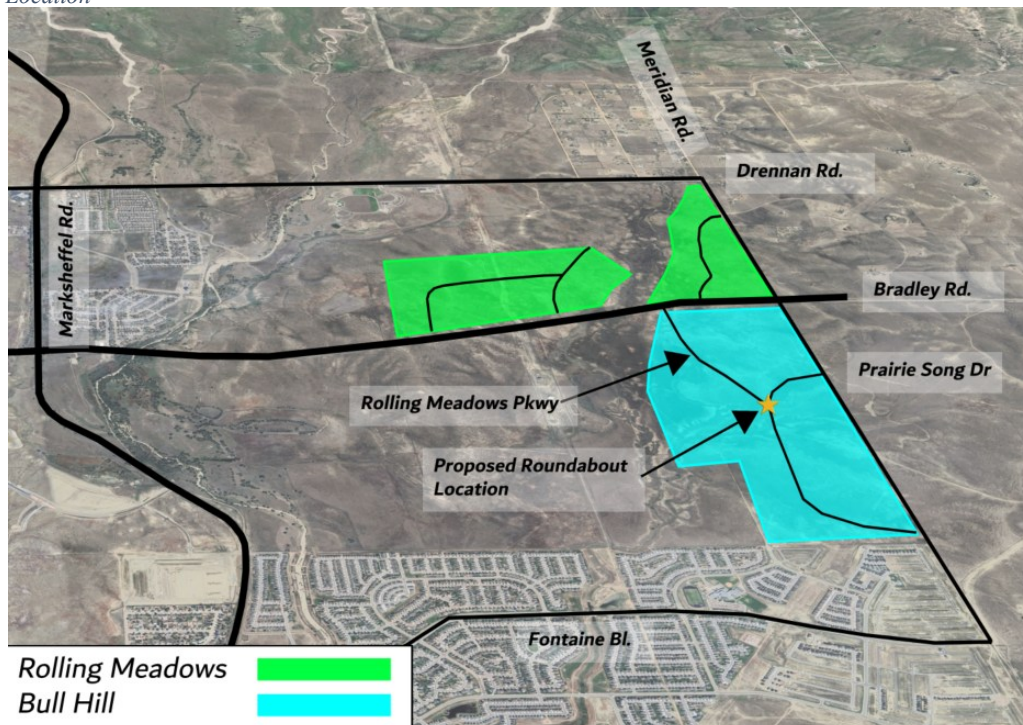
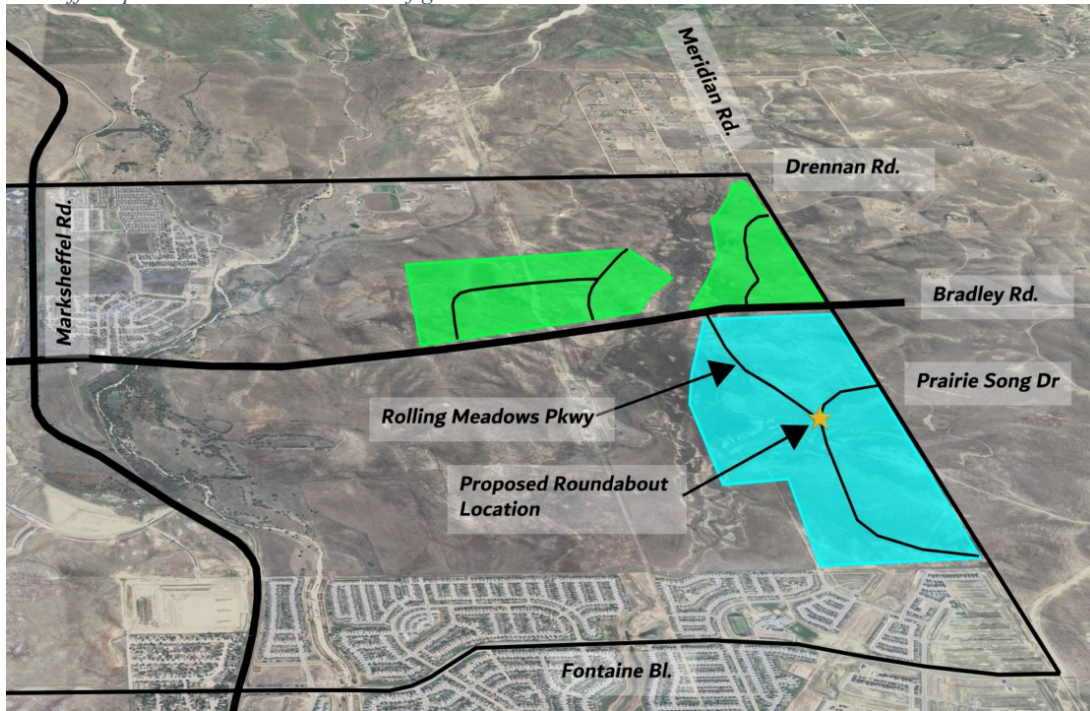
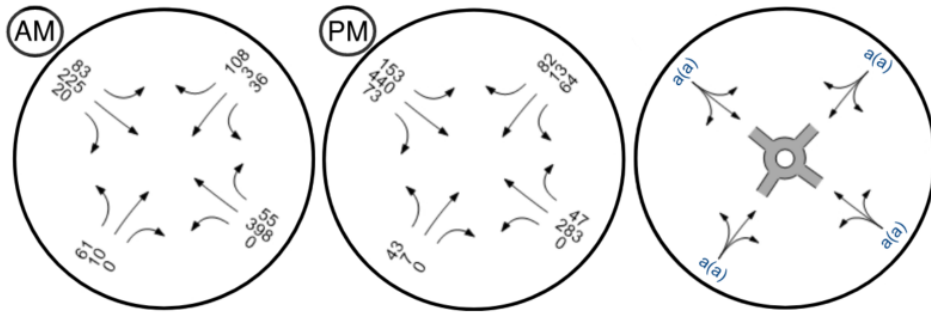


Figure 2 – Traffic Operations and Turn Lane Configurations

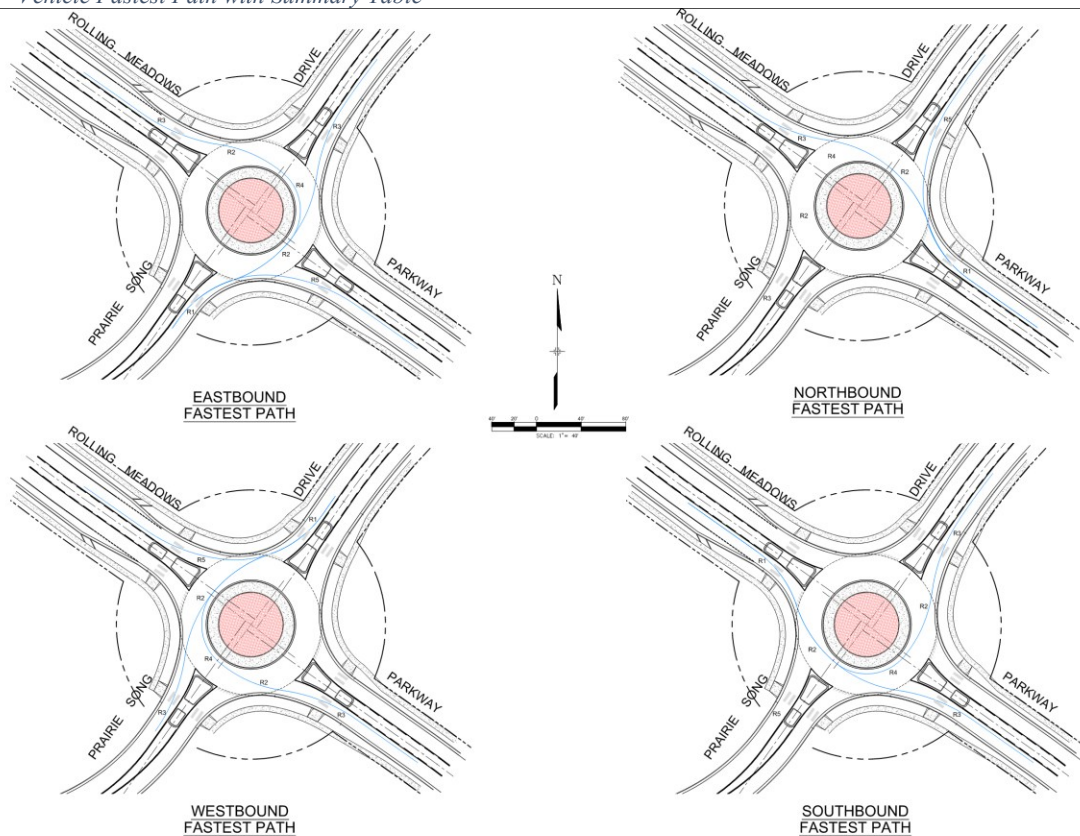


Rolling Meadows Parkway/Prairie Song Drive



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 if you have any questions.

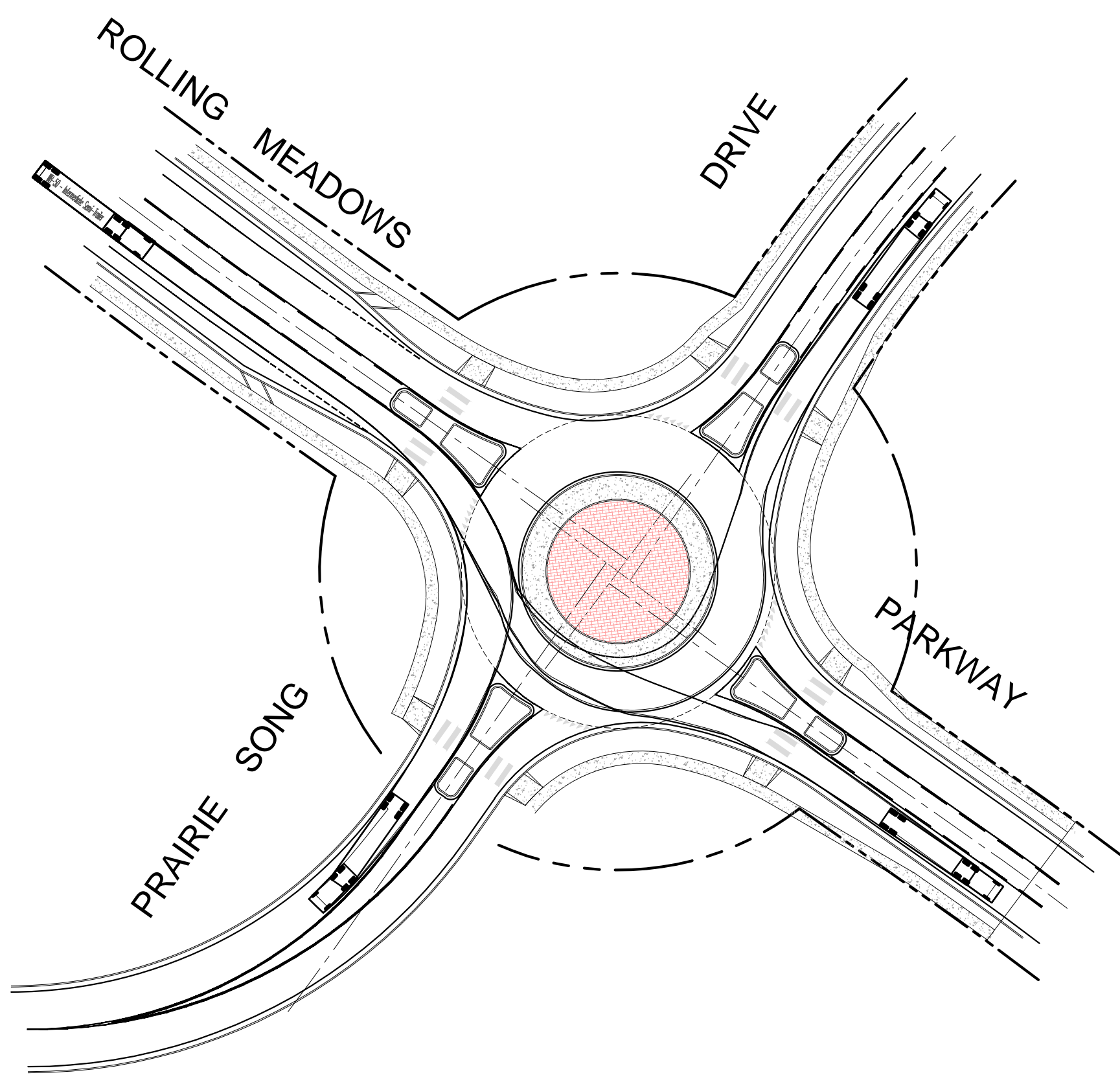
Sincerely,
Navid Shafieirad
 Navid Shafieirad, P.E., PTOE
 Traffic Engineer
 Matrix Design Group, Inc.

Attachments:

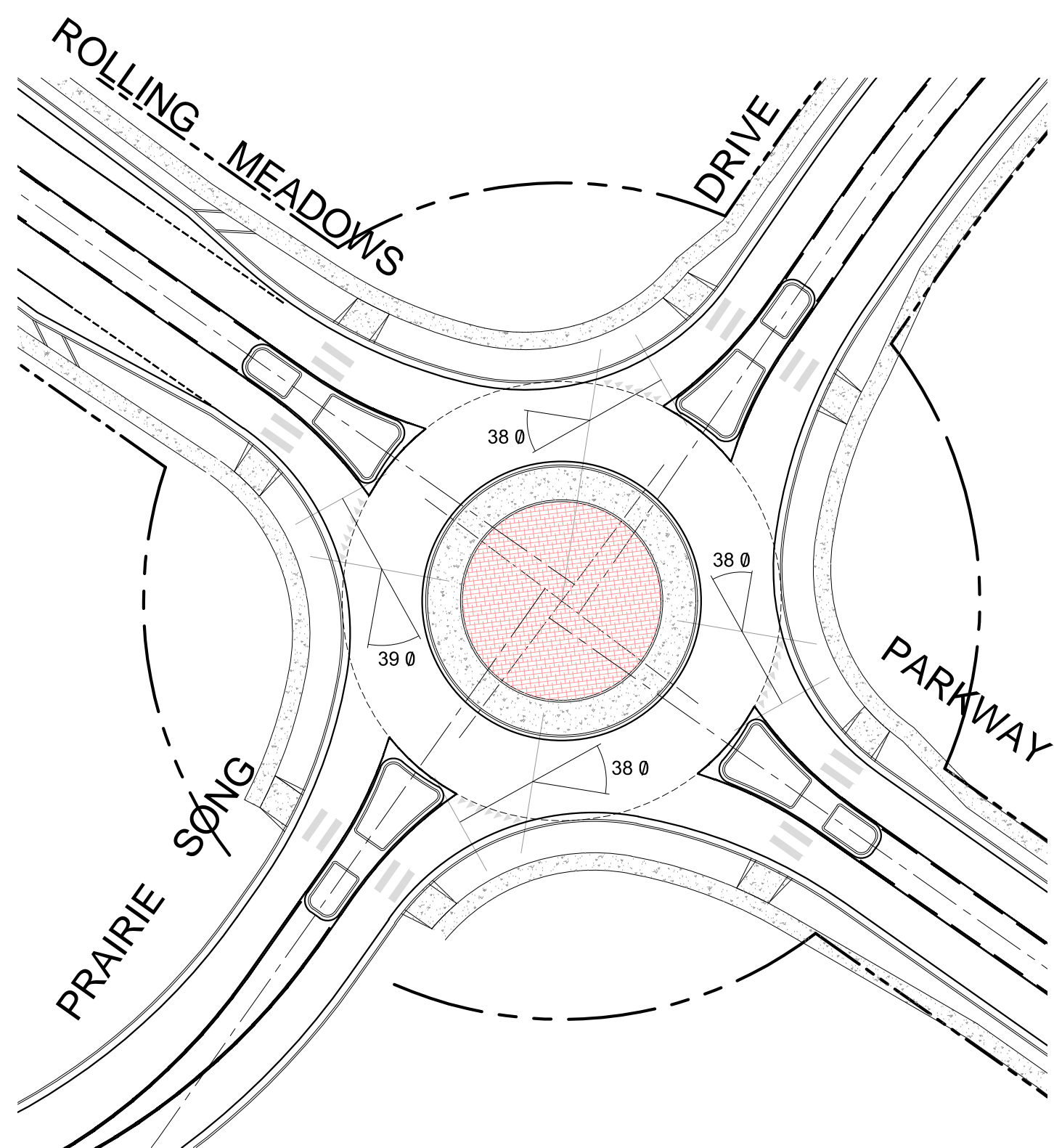
Roundabout Plan Layout

Vehicle Tracking Path

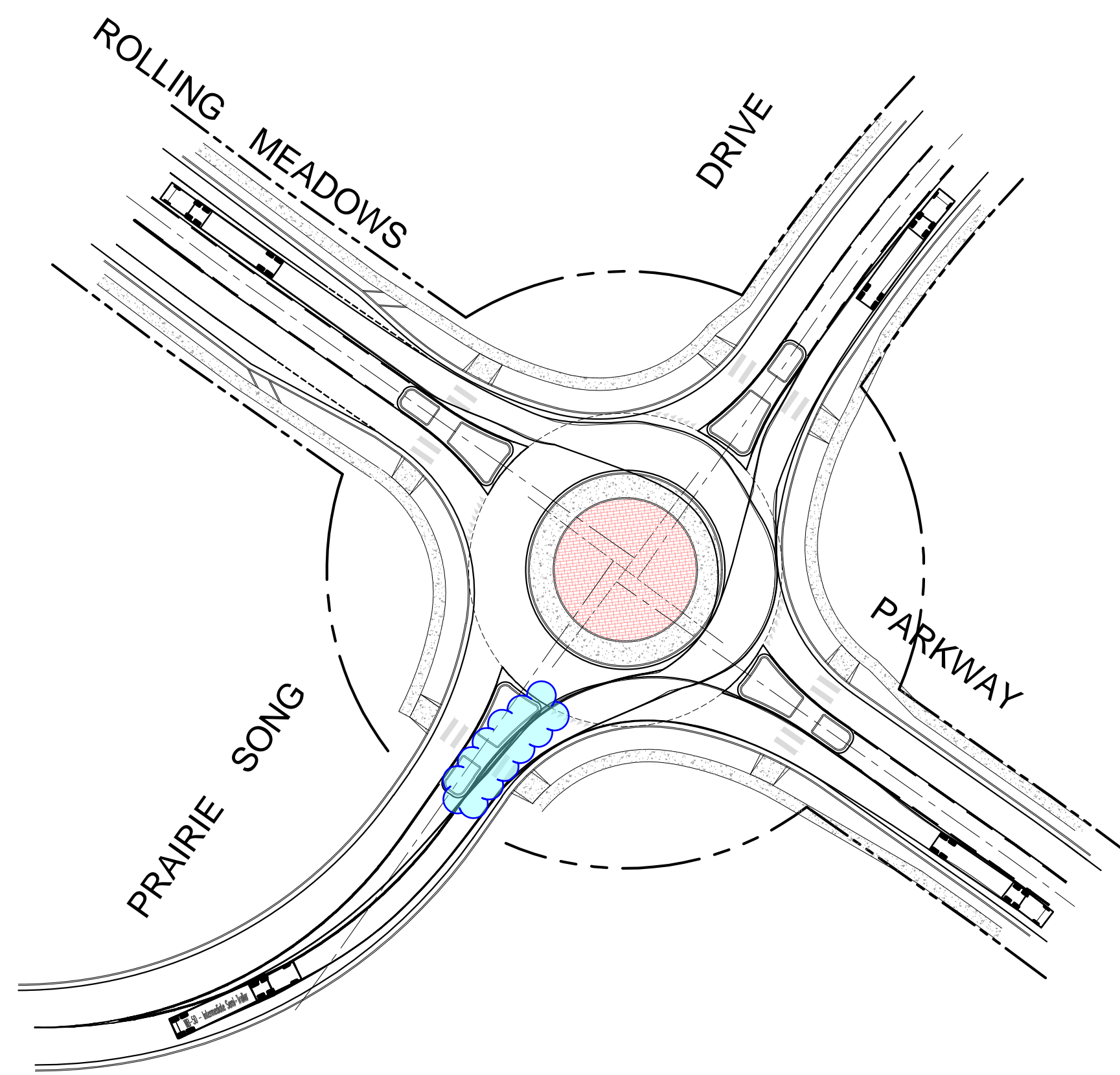
Fastest Path Diagram



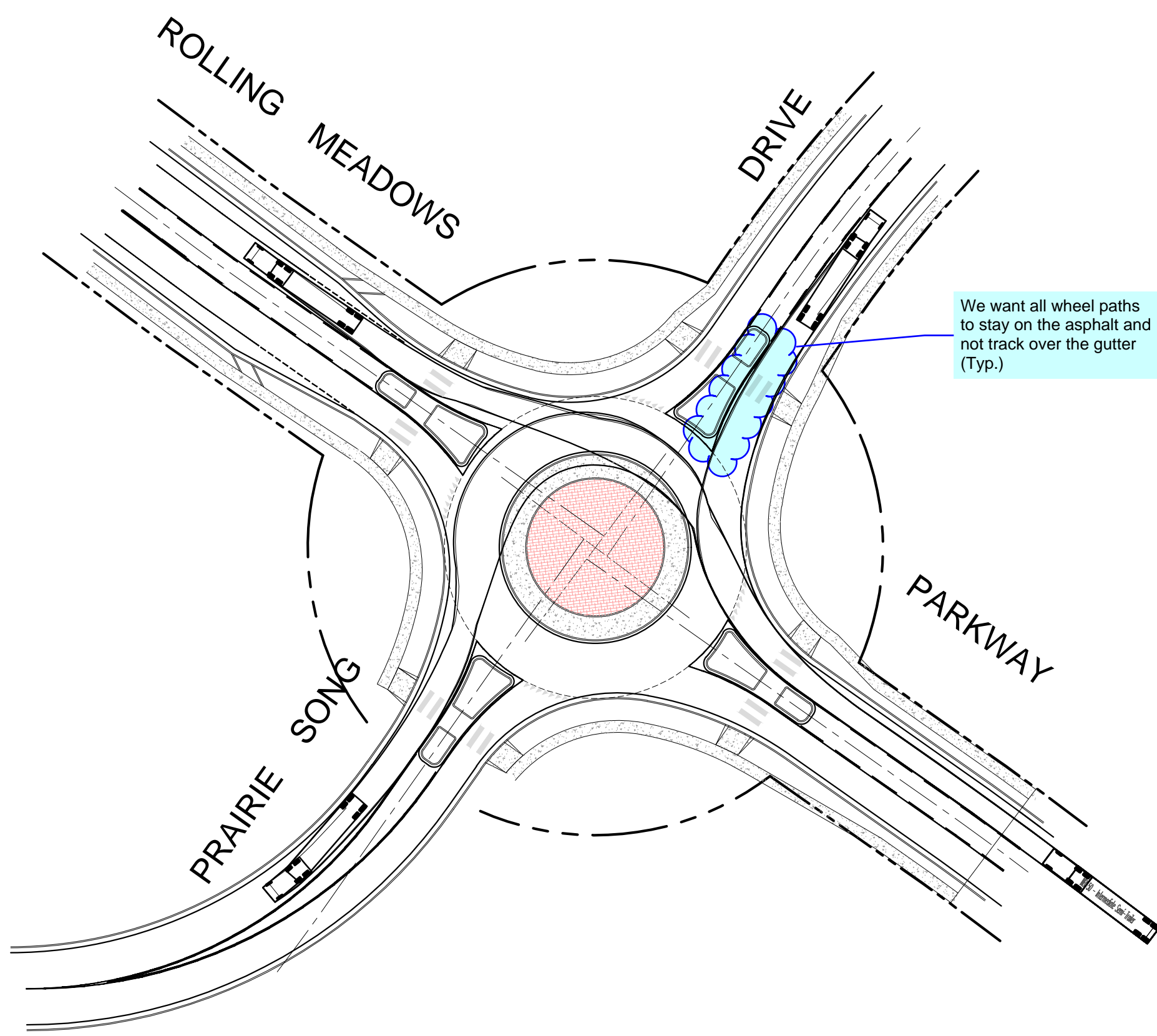
EASTBOUND
VEHICLE TRACKING PATH



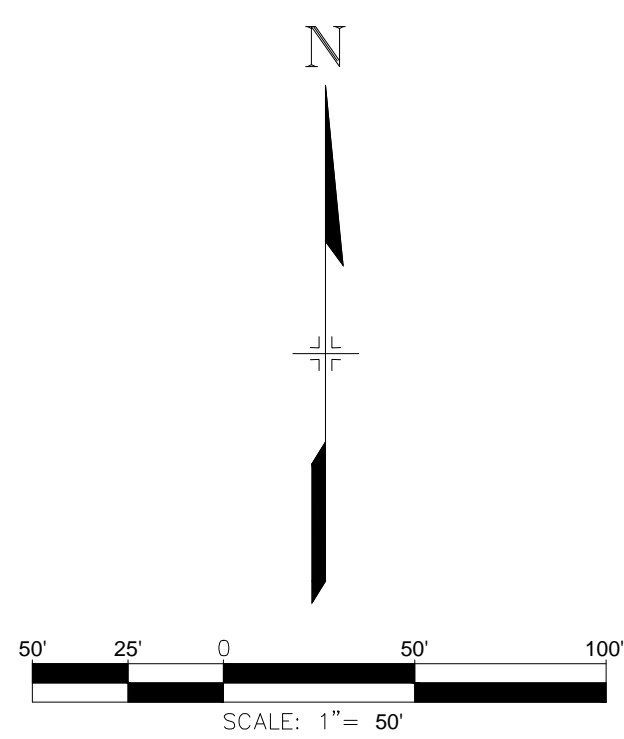
APPROACH
ANGLE DIAGRAM
SCALE: 1" = 40'



NORTHBOUND
VEHICLE TRACKING PATH

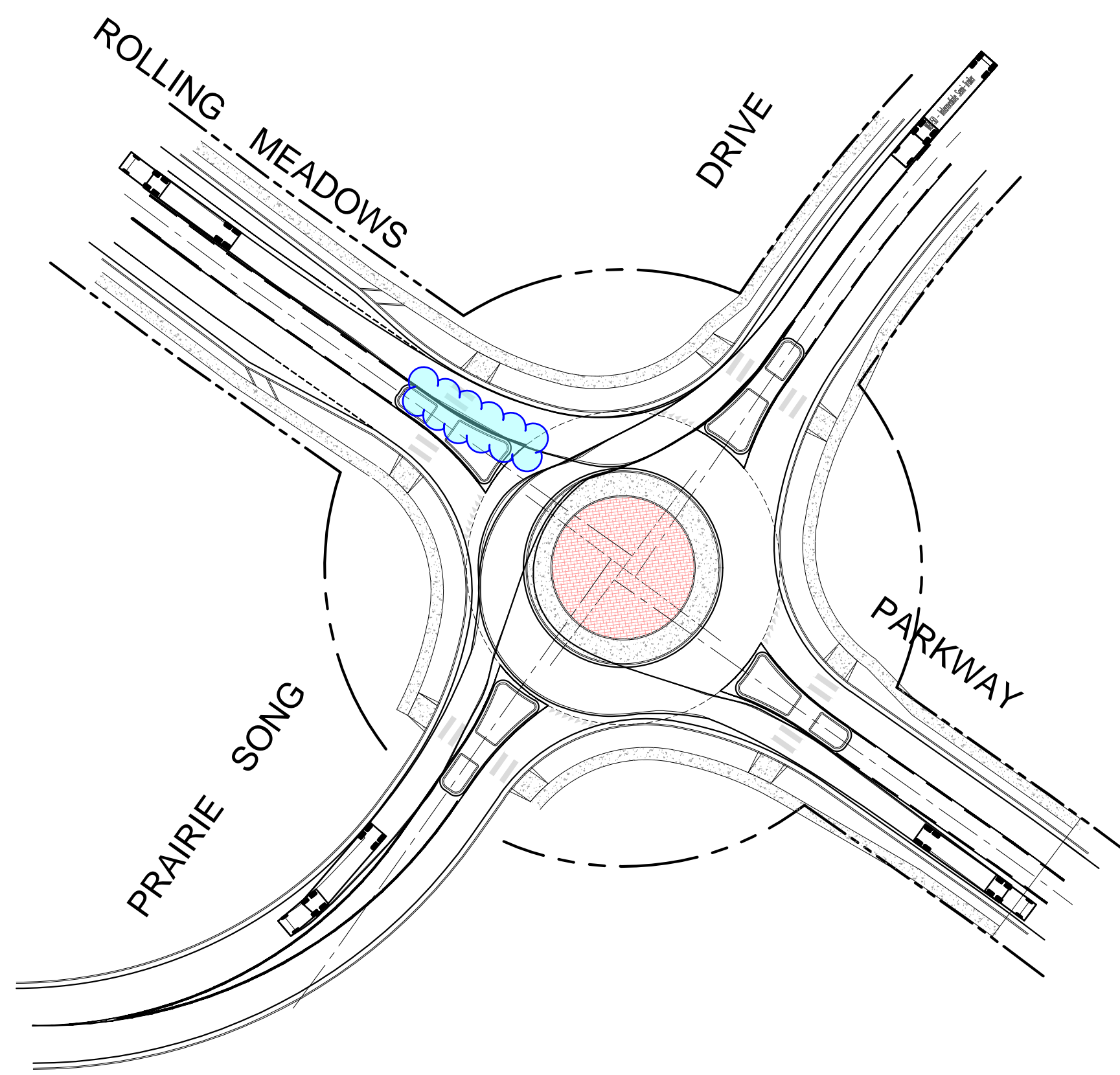


WESTBOUND
VEHICLE TRACKING PATH



NOTE:
A WB50 VEHICLE USED FOR THIS EXHIBIT

Provide WB-67 tracking also



SOUTHBOUND
VEHICLE TRACKING PATH

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APPROVAL:

VICINITY MAP:

PROJECT:

REVISION HISTORY:

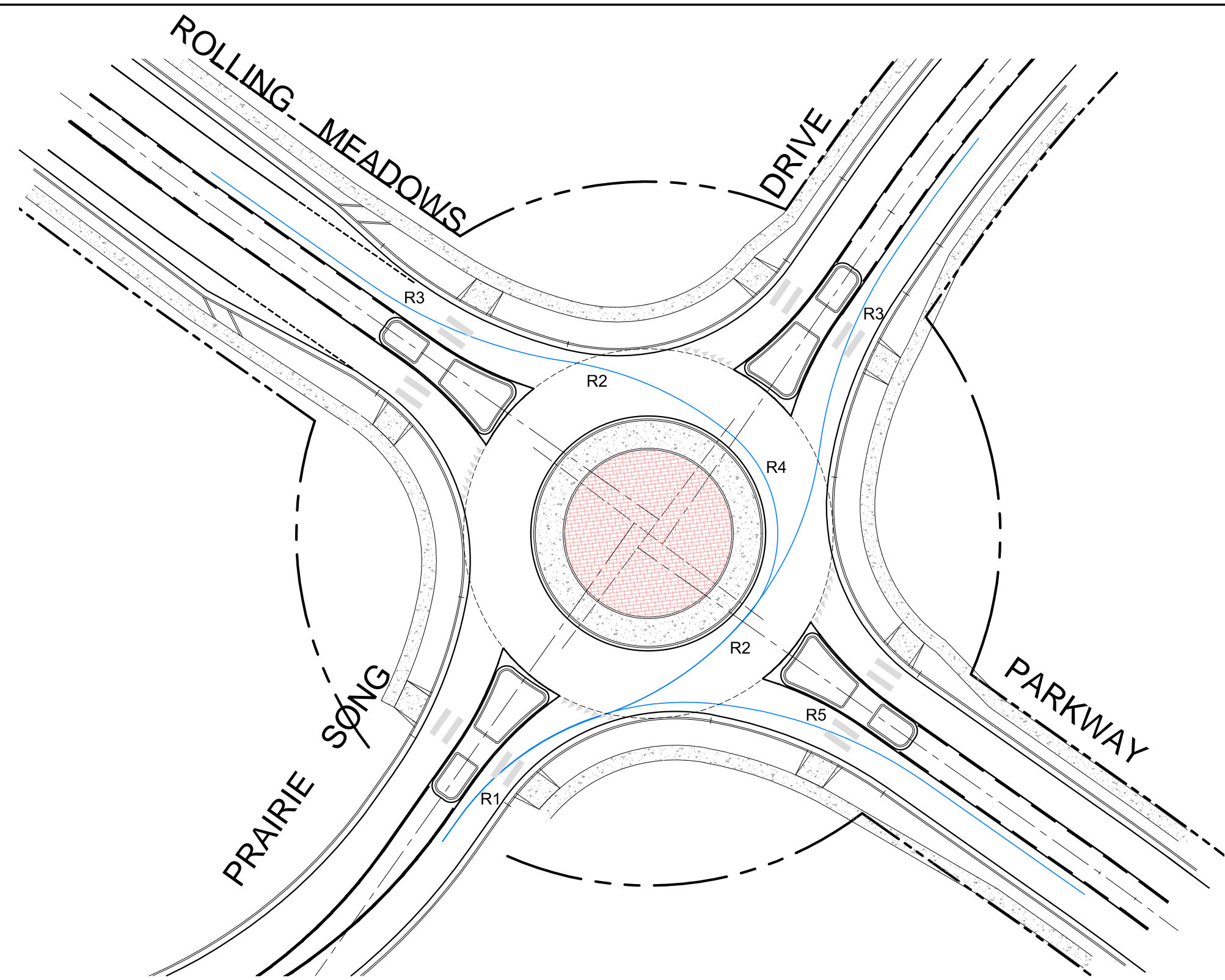
NO.	DATE	DESCRIPTION	BY

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

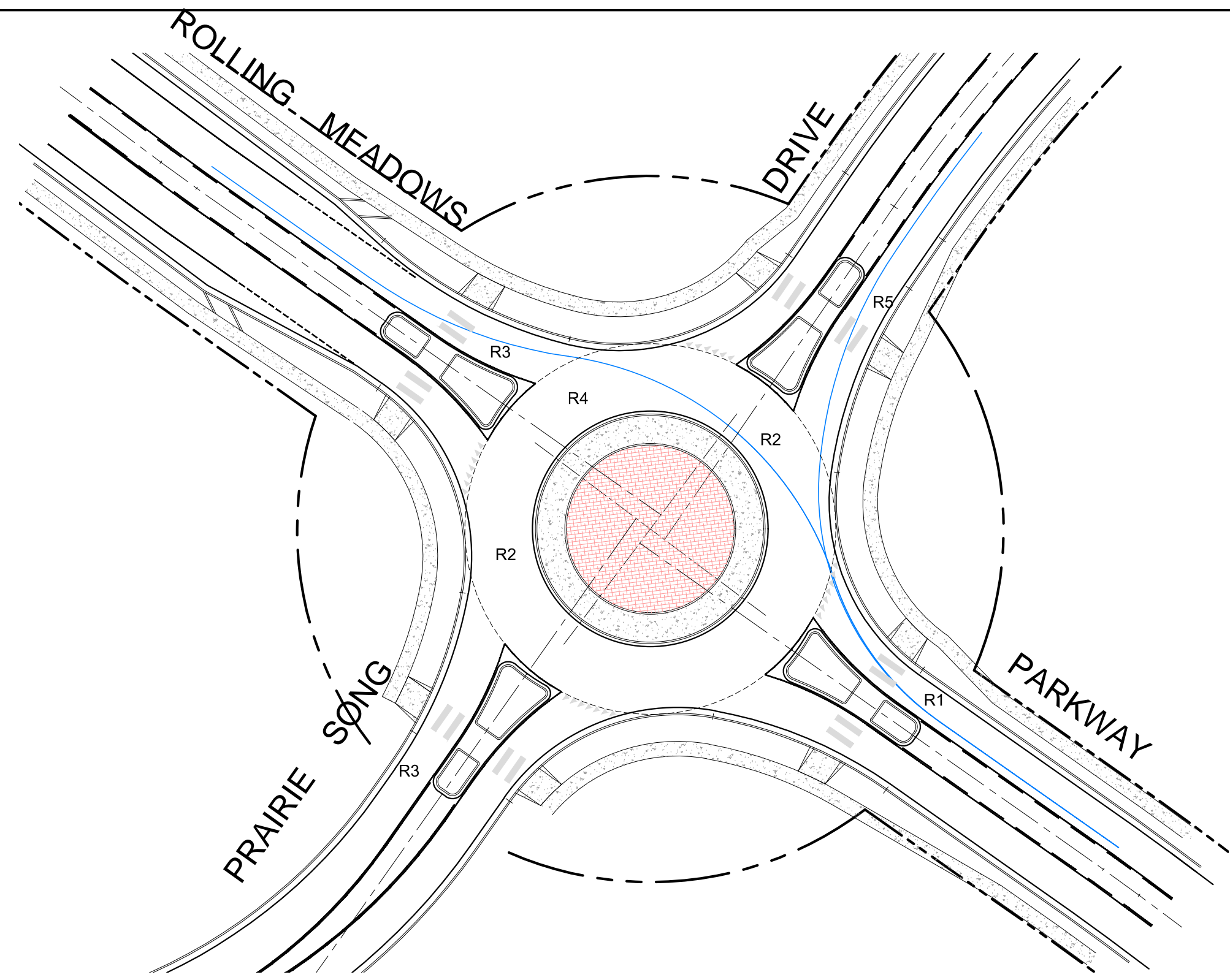
SHEET TITLE: ROUNDABOUT CONCEPT EXHIBIT

VEHICLE TRACKING PATH

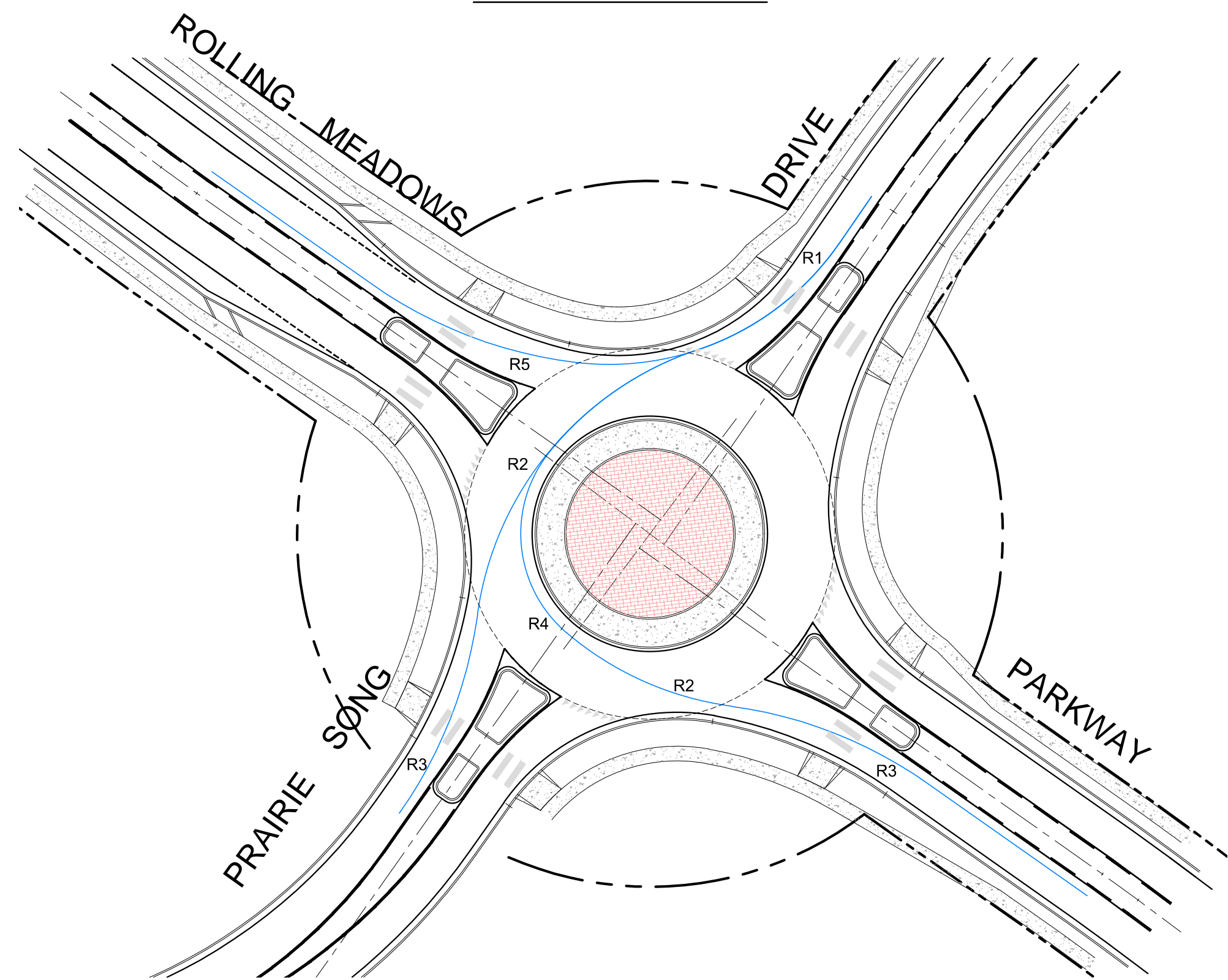
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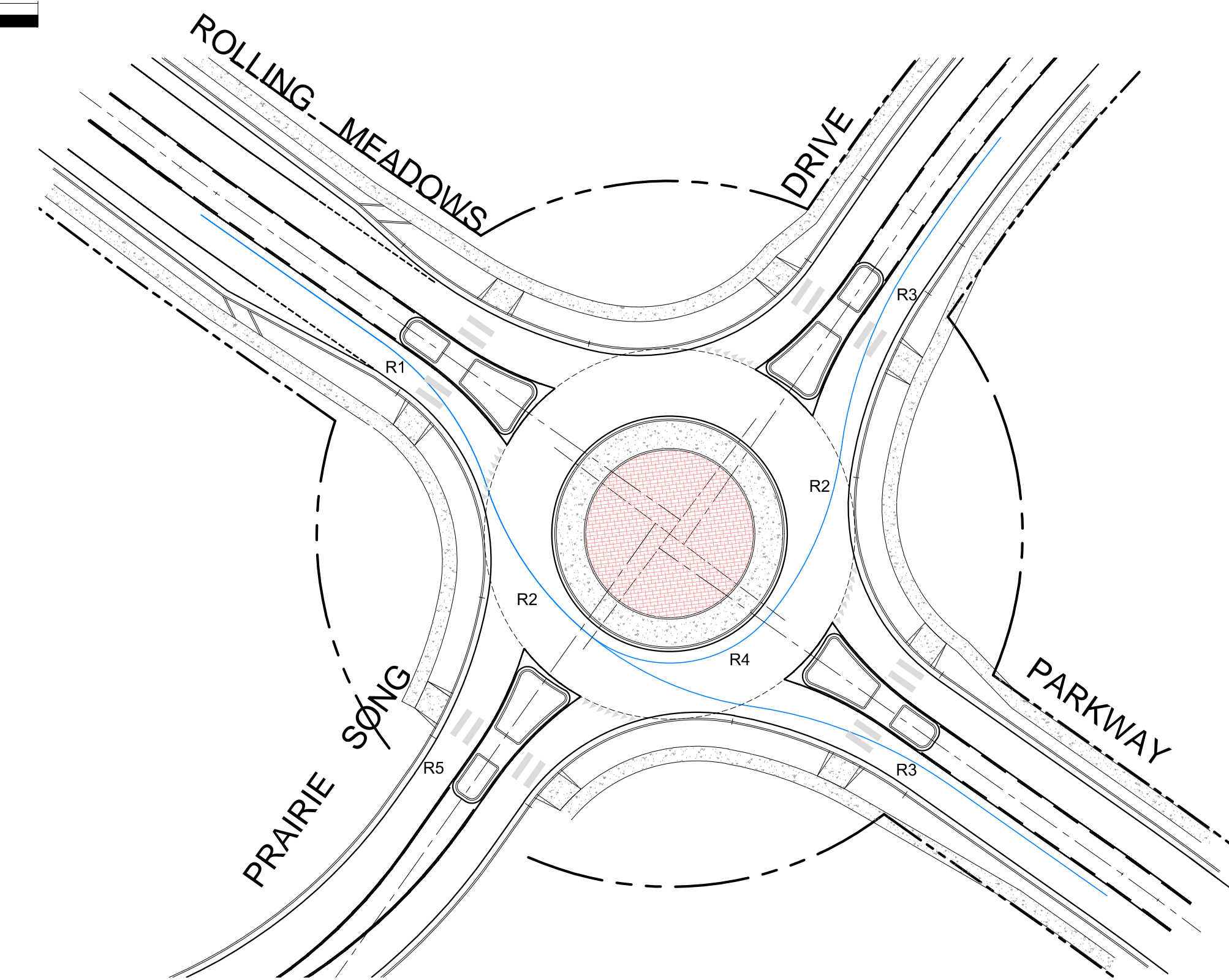
**EASTBOUND
FASTEST PATH**



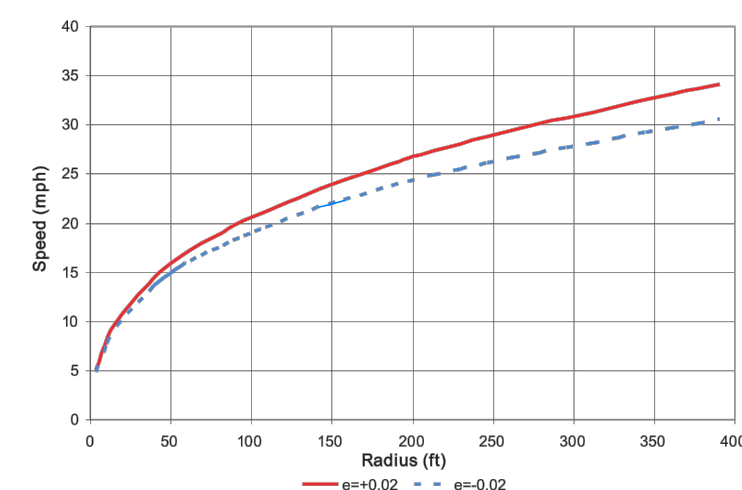
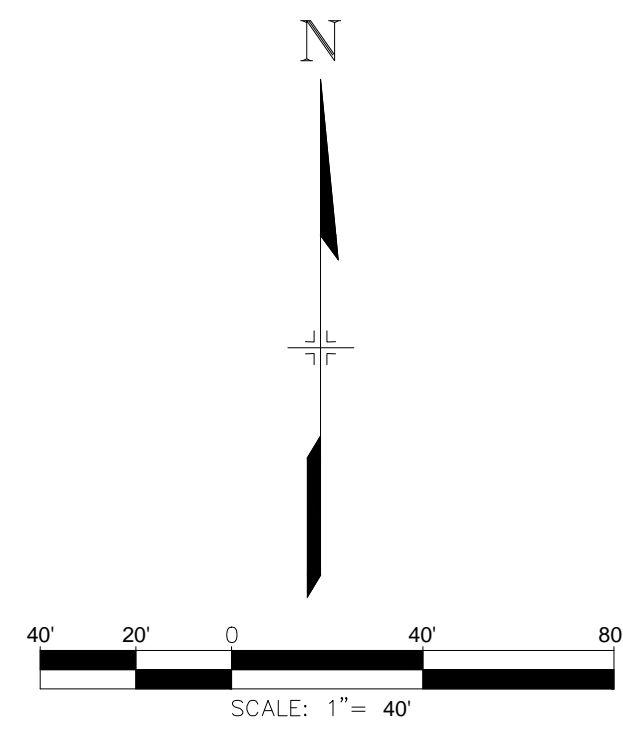
**NORTHBOUND
FASTEST PATH**



**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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FASTEST PATH DIAGRAM

PCD FILE NO.: