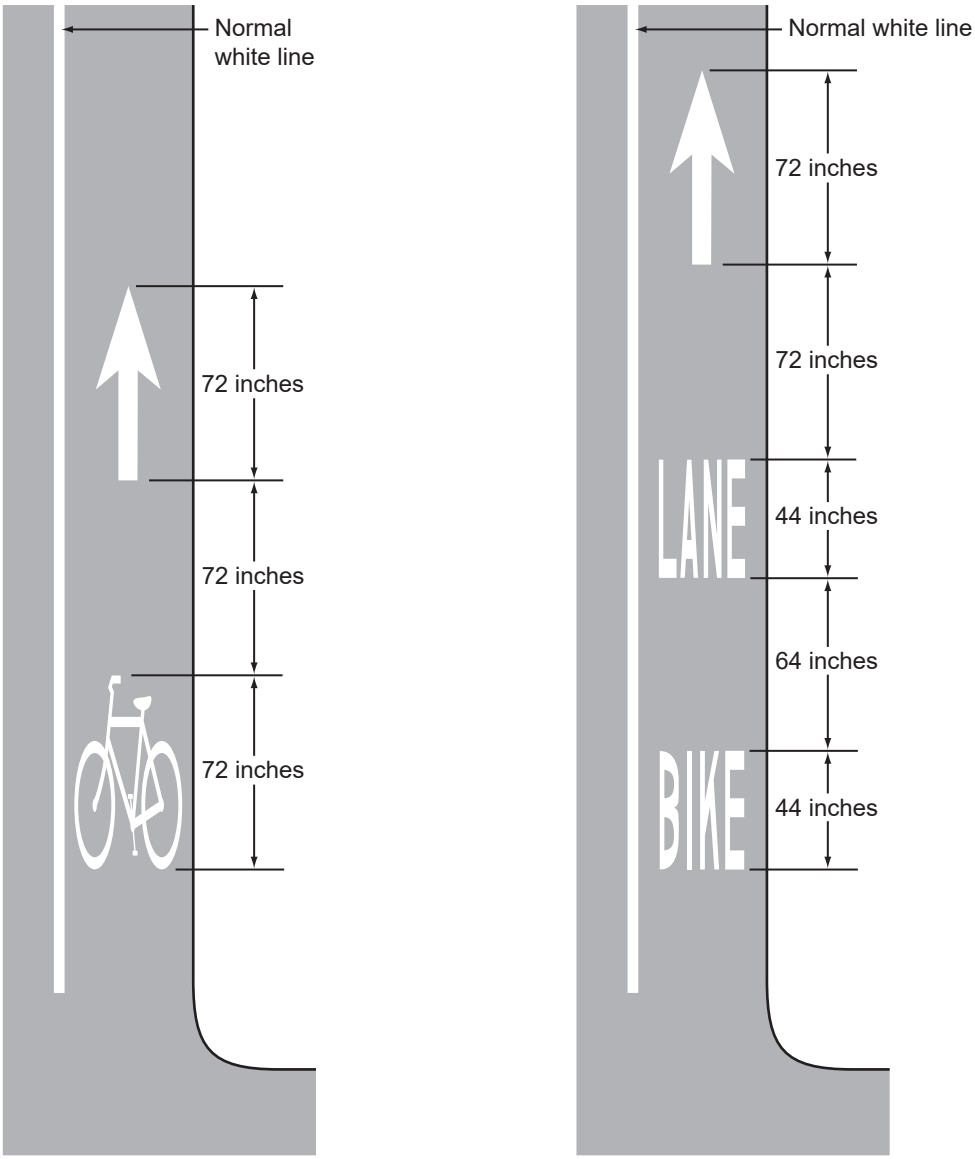
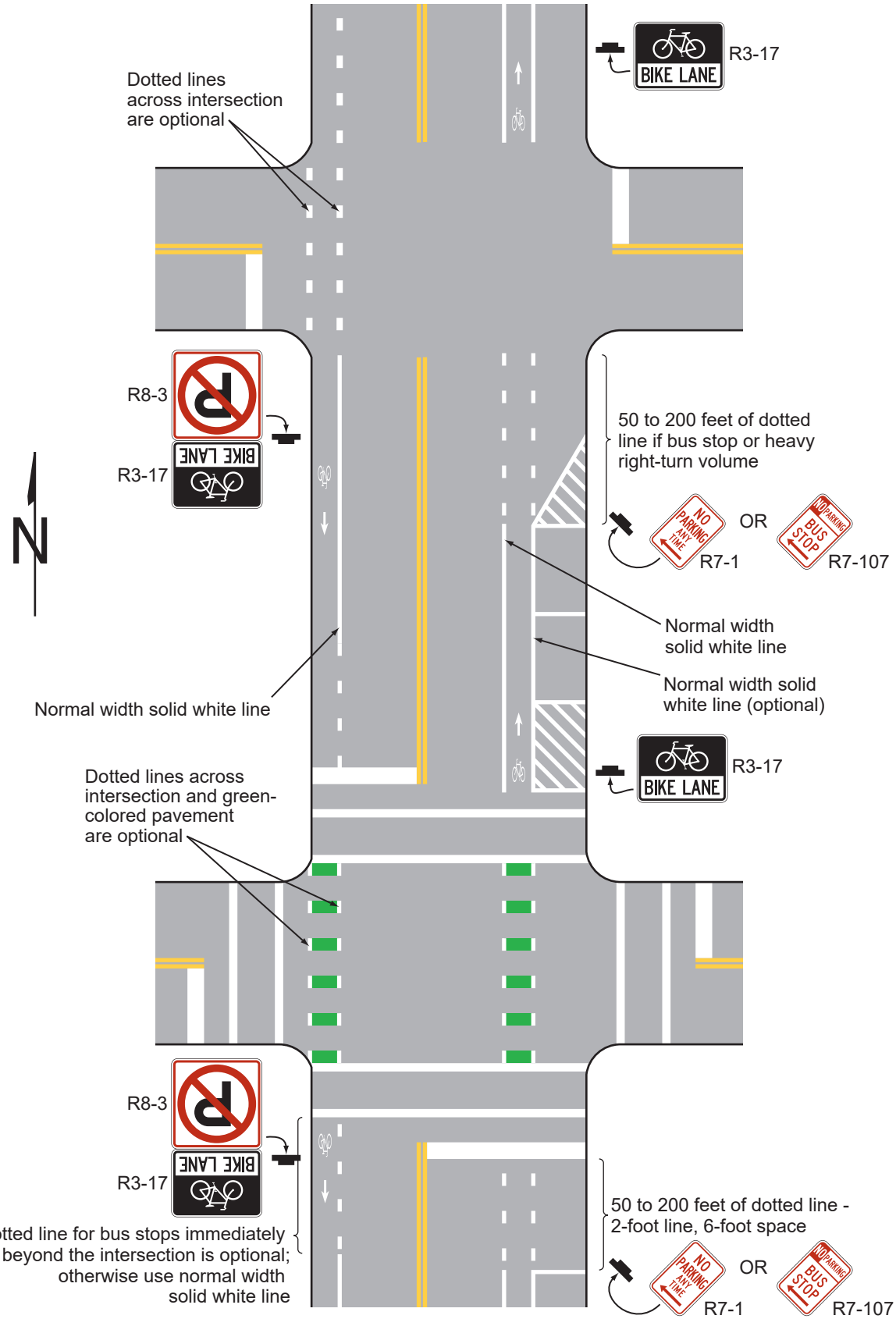
Figure 9E-1. Word, Symbol, and Arrow Pavement Markings for Bicycle Lanes



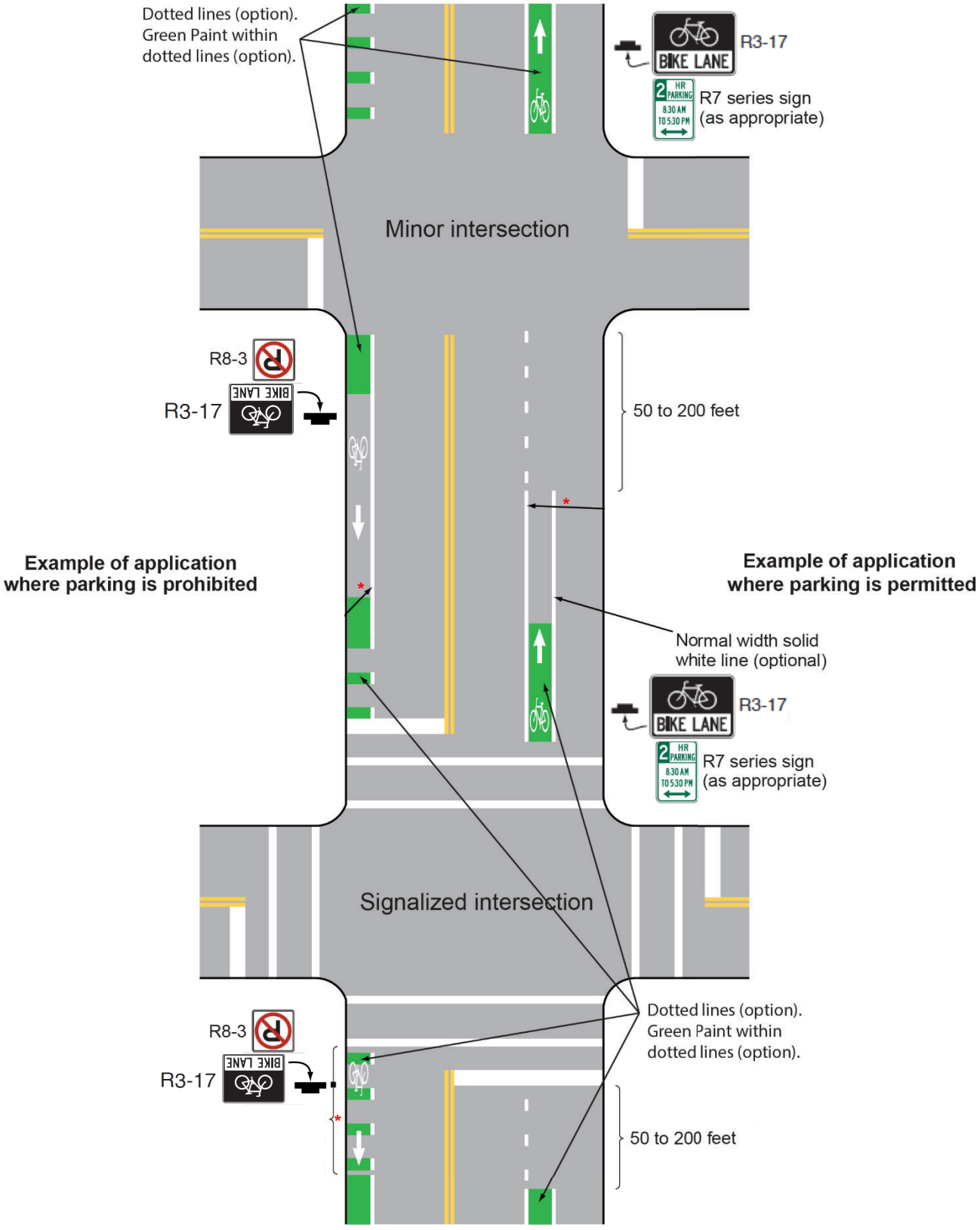
A – Bike symbol

B – Word legends

Figure 9E-2. Example of Pavement Markings for Bicycle Lanes on a Two-Way Street



9E-2(CA).
Figure ~~9C-6 (CA)~~. Example of Pavement Markings for Bicycle Lanes on a Two-Way Street (Sheet 1 of 2)



** These Arrows and Dimension will be deleted*

Figure 9E-2(CA). Example of Pavement Markings for Bicycle Lanes on a Two-Way Street (Sheet 2 of 2)

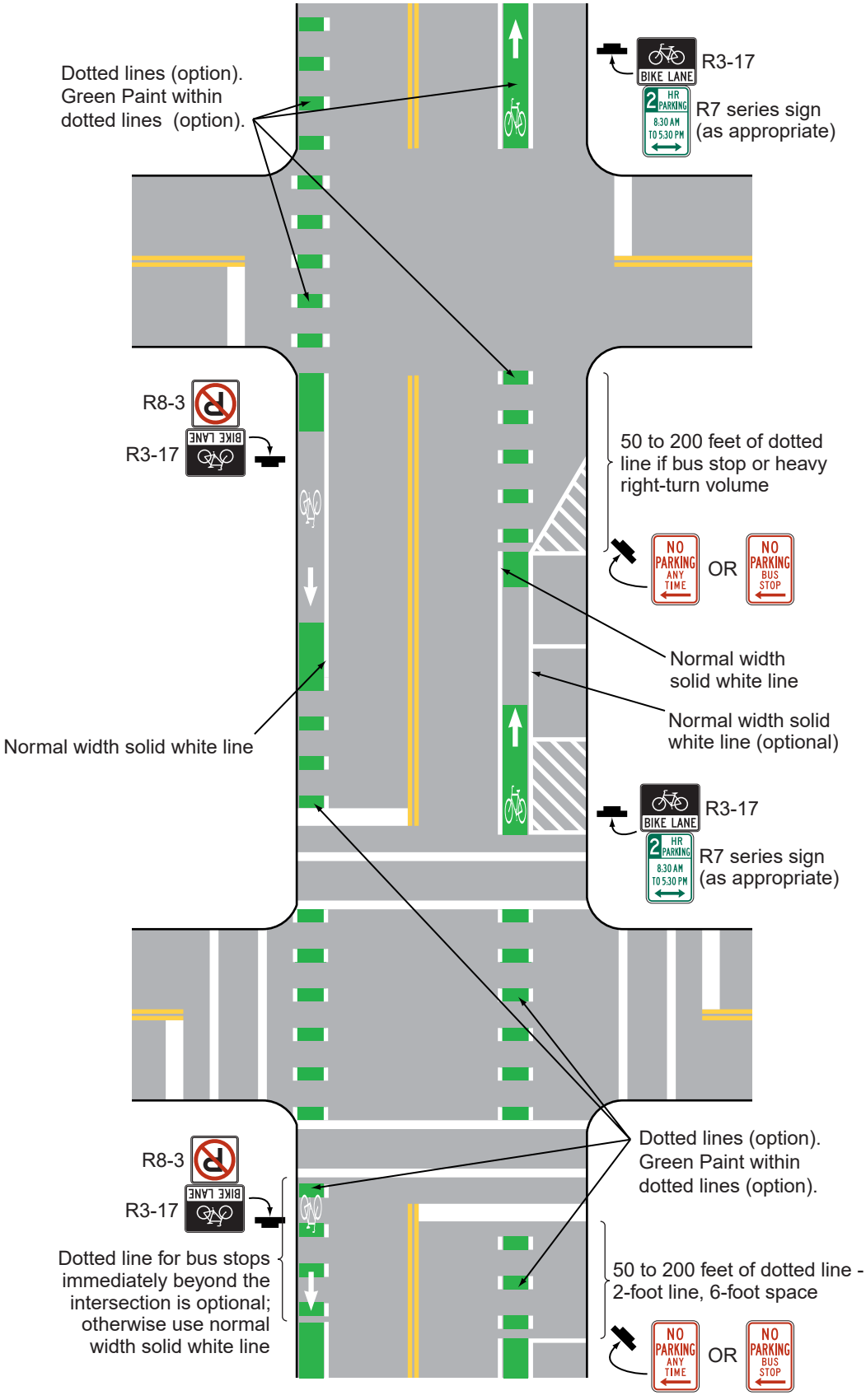


Figure 9E-3. Examples of Bicycle Lane Markings on an Approach to an Intersection
(Sheet 1 of 3)

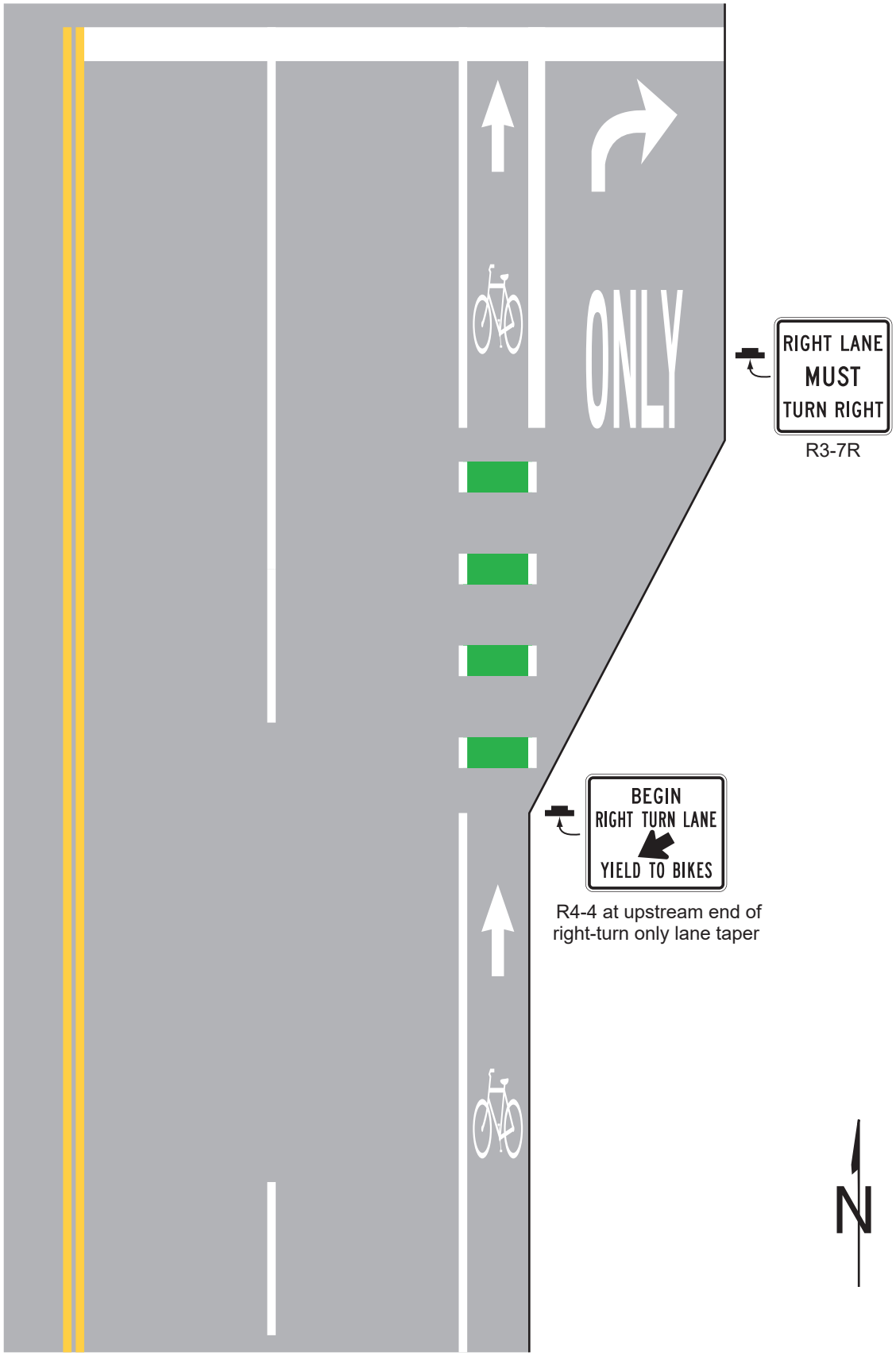


Figure 9E-3. Examples of Bicycle Lane Markings on an Approach to an Intersection
(Sheet 2 of 3)

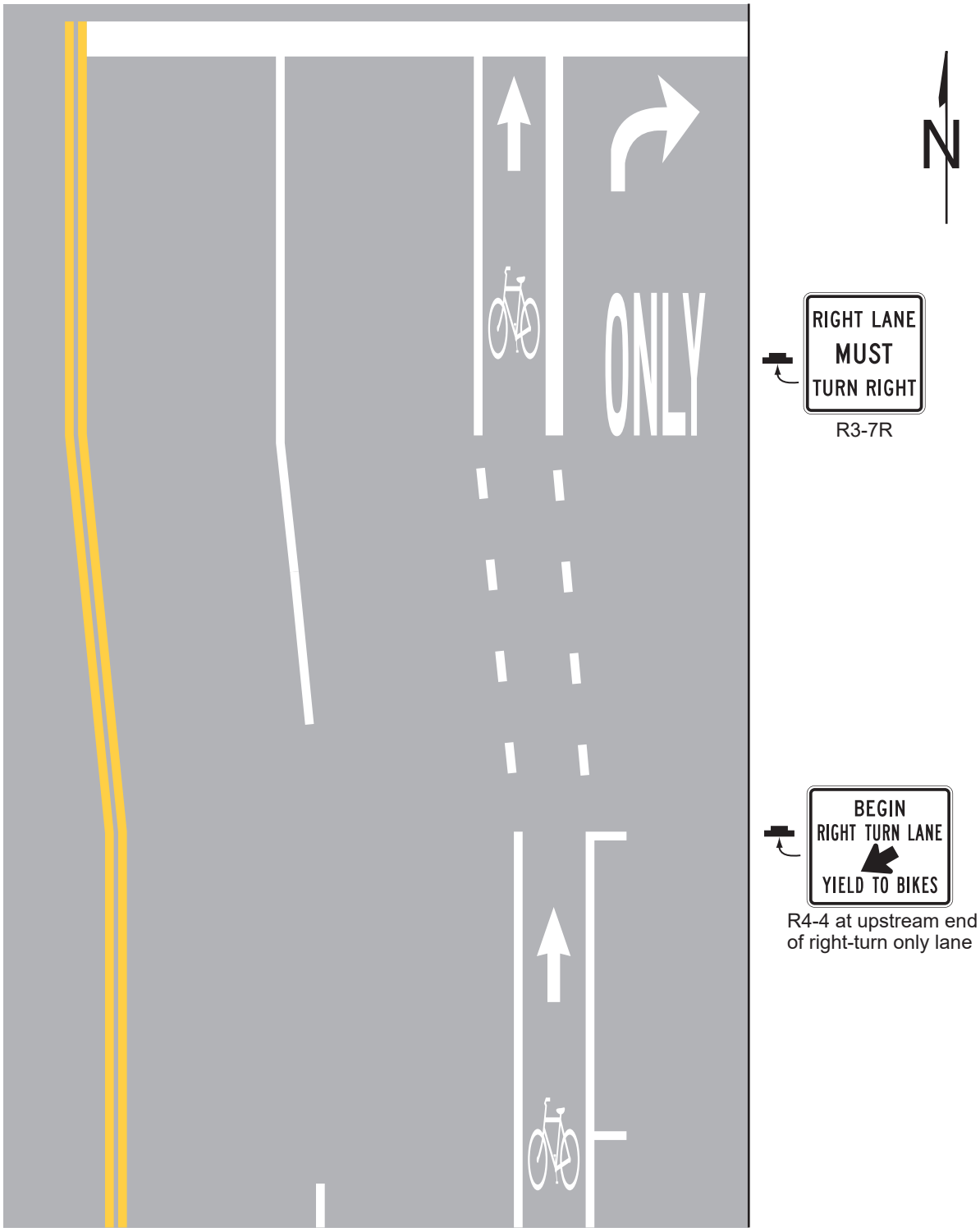


Figure 9E-3. Examples of Bicycle Lane Markings on an Approach to an Intersection
(Sheet 3 of 3)

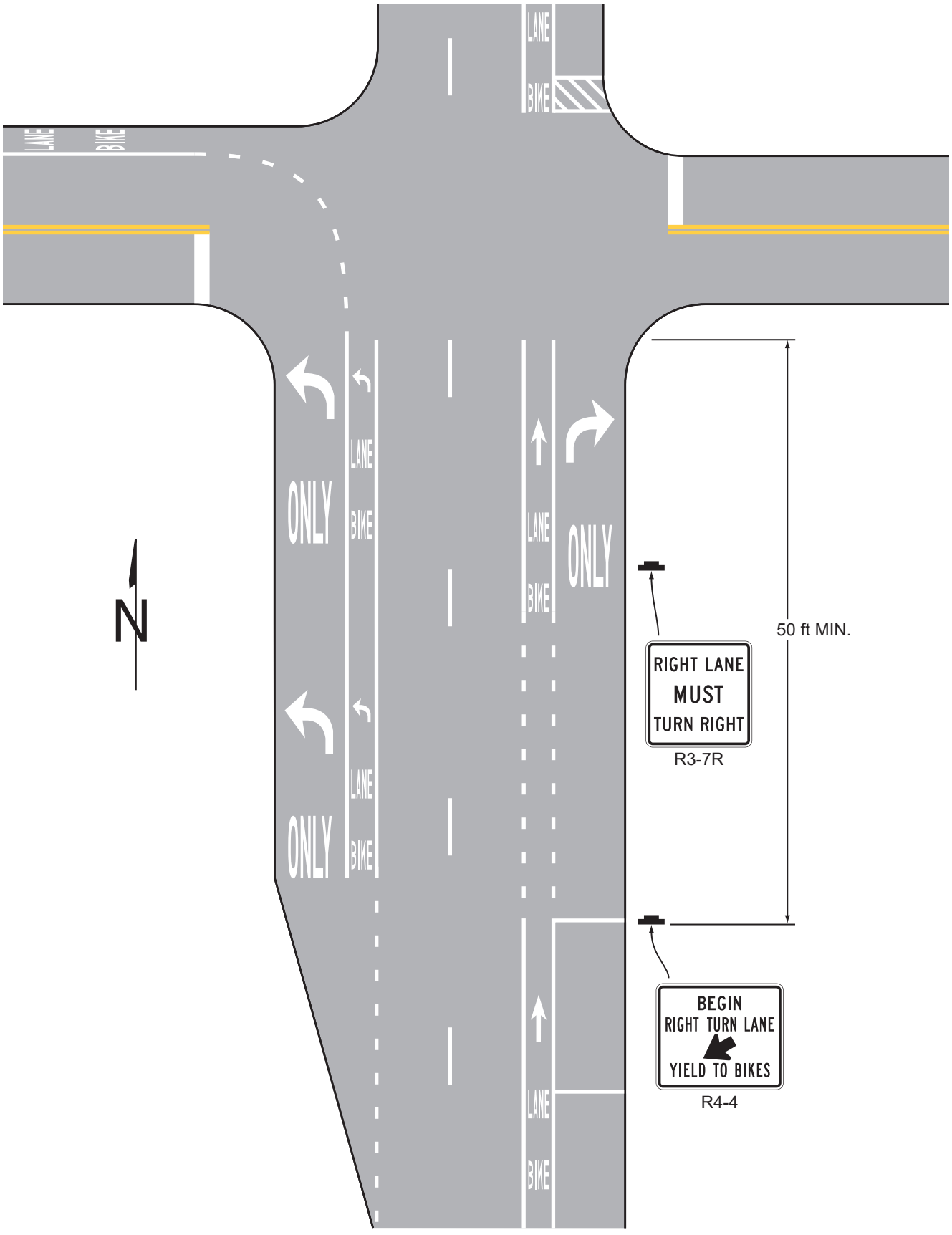


Figure 9E-3(CA). Example of Bicycle Lane Markings on an Approach to an Intersection (Sheet 1 of 6)

A. Example of Bicycle Lane Treatment at a Right Turn Only Lane

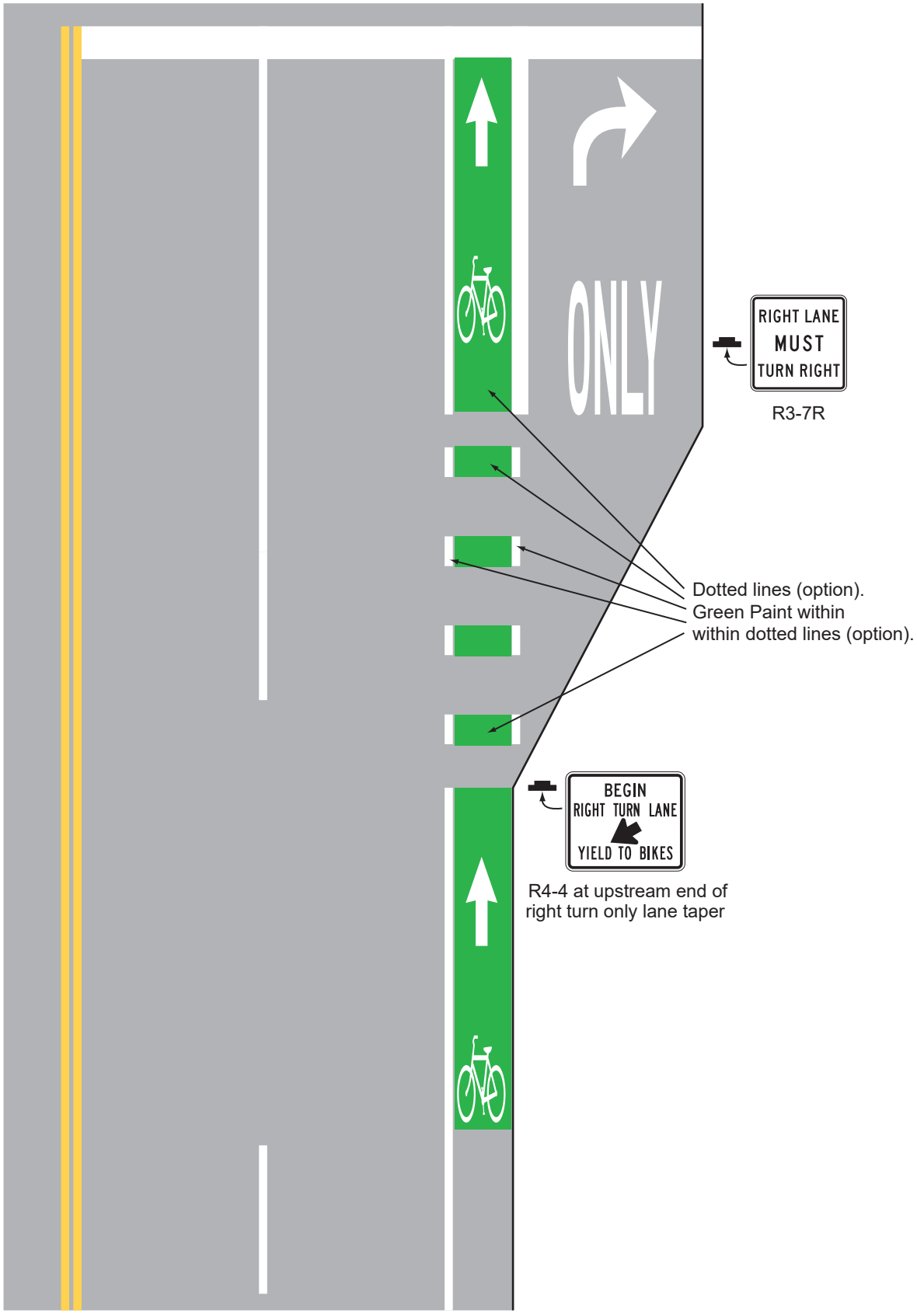
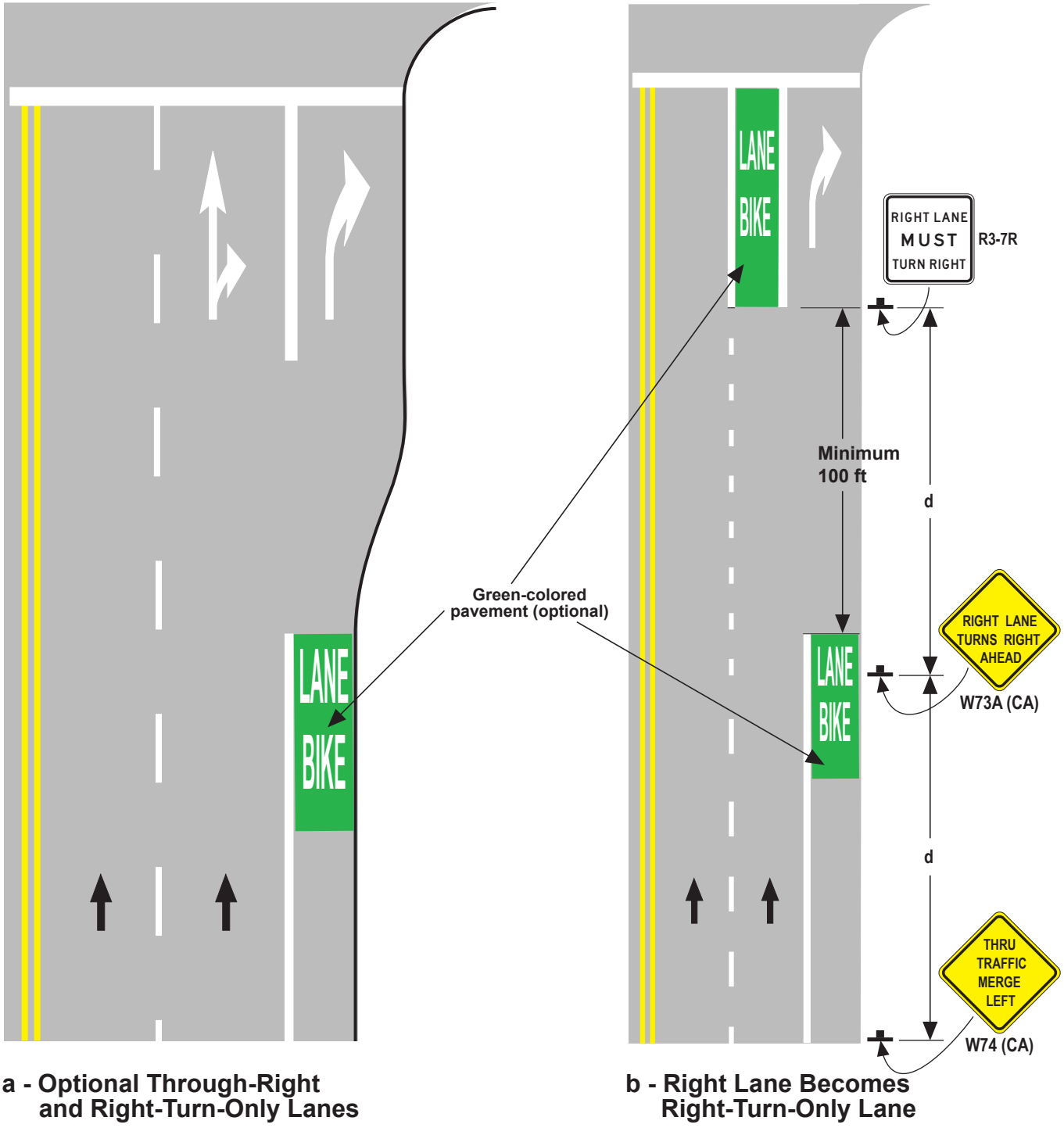


Figure 9E-3(CA). Example of Bicycle Lane Markings on an Approach to an Intersection (Sheet 2 of 6)

B. Example of Bicycle Lane Treatment at a Right Turn Only Lane



a - Optional Through-Right and Right-Turn-Only Lanes

b - Right Lane Becomes Right-Turn-Only Lane

*** 4 ft minimum width,**
6 ft minimum width for posted speed greater than 40 mph
d = Advance Placement Distance (See Section 2C.05)

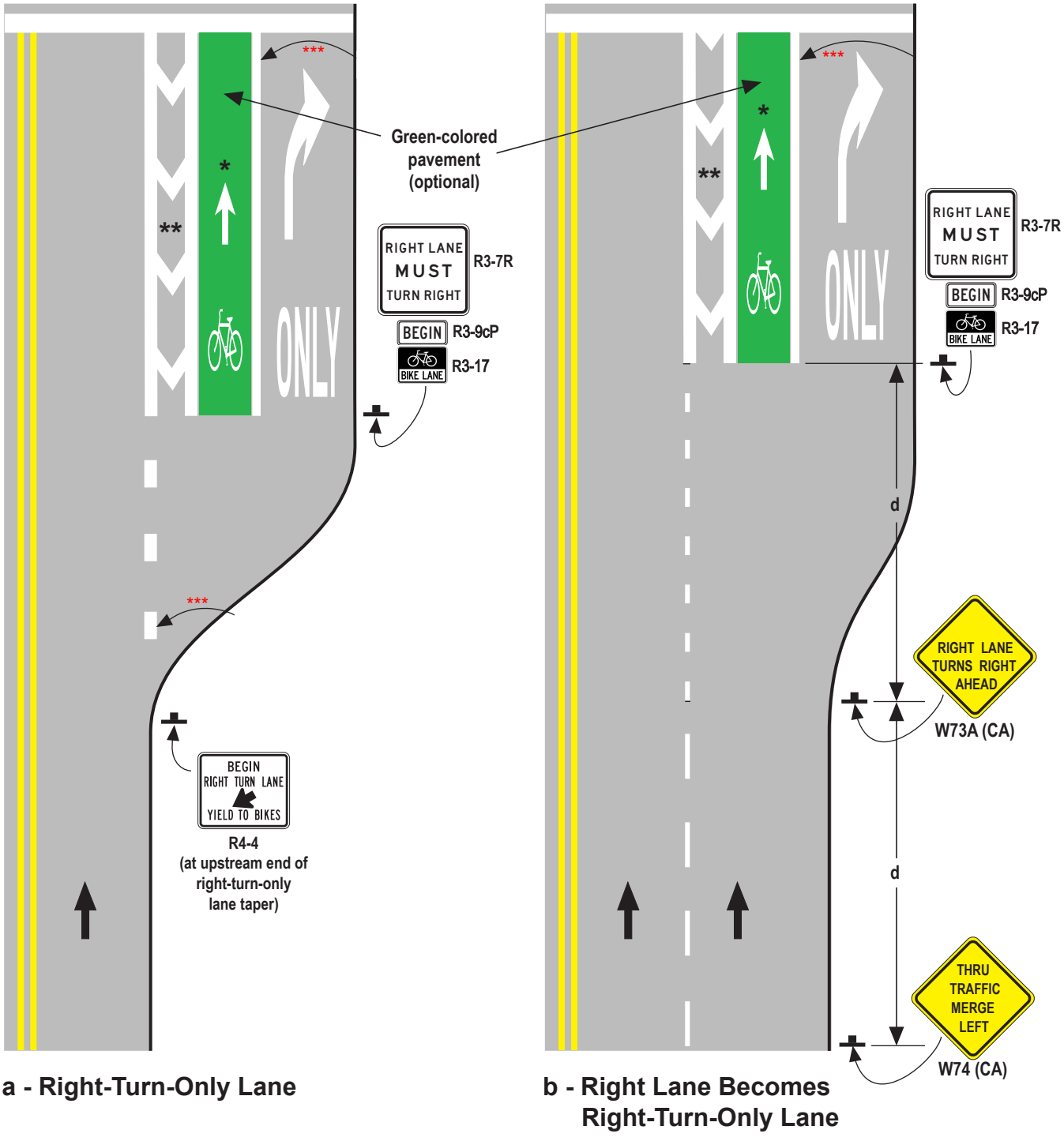
LEGEND

→ **Direction of Travel** **NOT TO SCALE**

Figure 9E-3(CA). Example of Bicycle Lane Markings on an Approach to an Intersection (Sheet 3 of 6)

C. Example of Bicycle Lane Treatment at a Right Turn Only Lane, Posted Speed > 40 mph

*** These Arrows/Lines will be deleted



a - Right-Turn-Only Lane

b - Right Lane Becomes Right-Turn-Only Lane

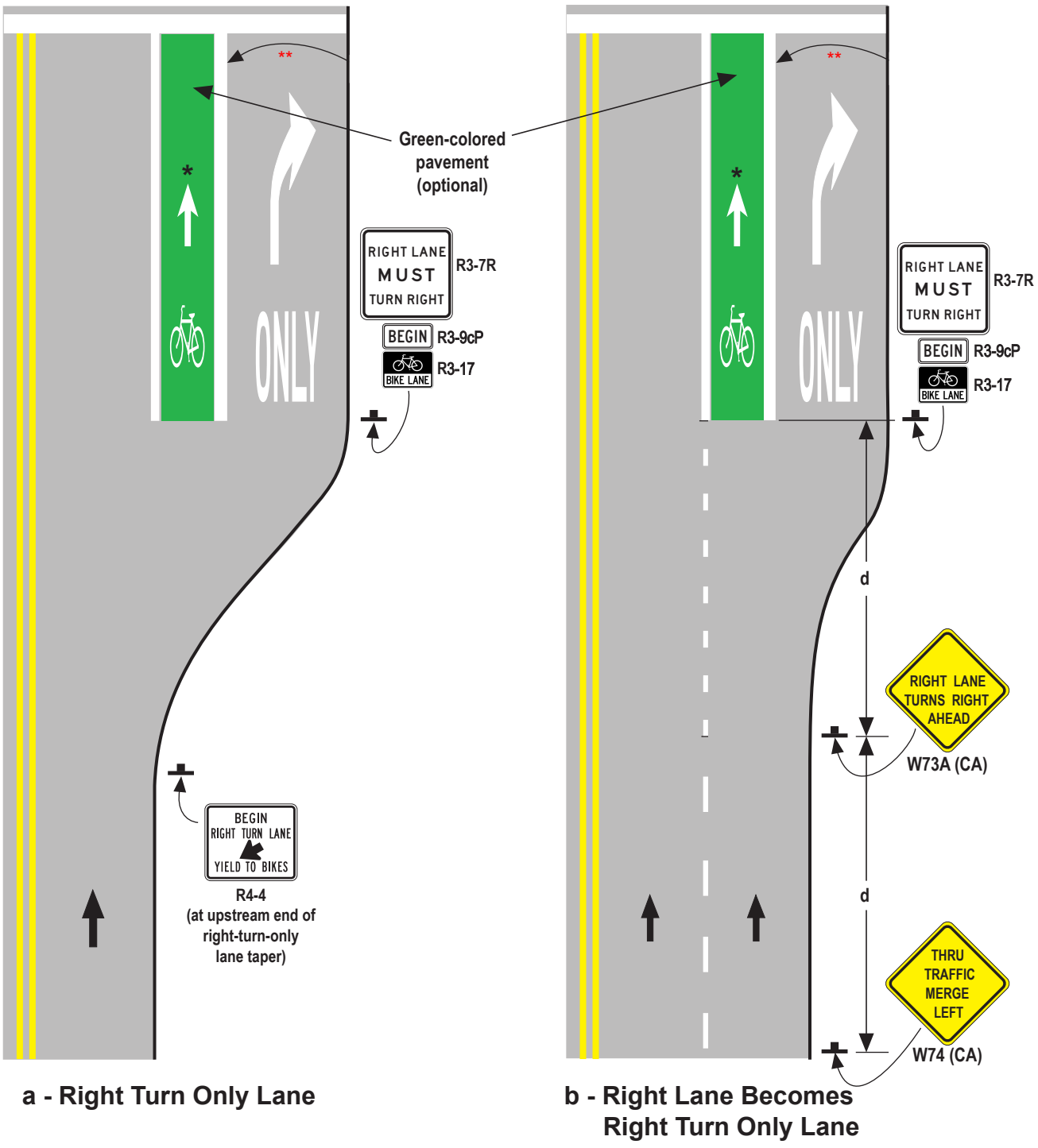
*** 4 ft minimum width**
**** 2 ft (minimum 18 in) buffered area may be striped on the left or on the right within the space for bicycle use**
d = Advance Placement Distance (See Section 2C.05)

LEGEND

→ **Direction of Travel** **NOT TO SCALE**

Figure 9E-3(CA). Example of Bicycle Lane Markings on an Approach to an Intersection (Sheet 4 of 6)

D. Example of Bicycle Lane Treatment at a Right Turn Only Lane, Posted Speed ≤ 40 mph



a - Right Turn Only Lane

b - Right Lane Becomes Right Turn Only Lane

*** 4 ft minimum width**
d = Advance Placement Distance (See Section 2C.05)

LEGEND

→ **Direction of Travel** **NOT TO SCALE**

Figure 9E-3(CA). Example of Bicycle Lane Markings on an Approach to an Intersection (Sheet 5 of 6)

E. Example of Bicycle Lane Treatment at Parking Lane into a Right Turn Only Lane

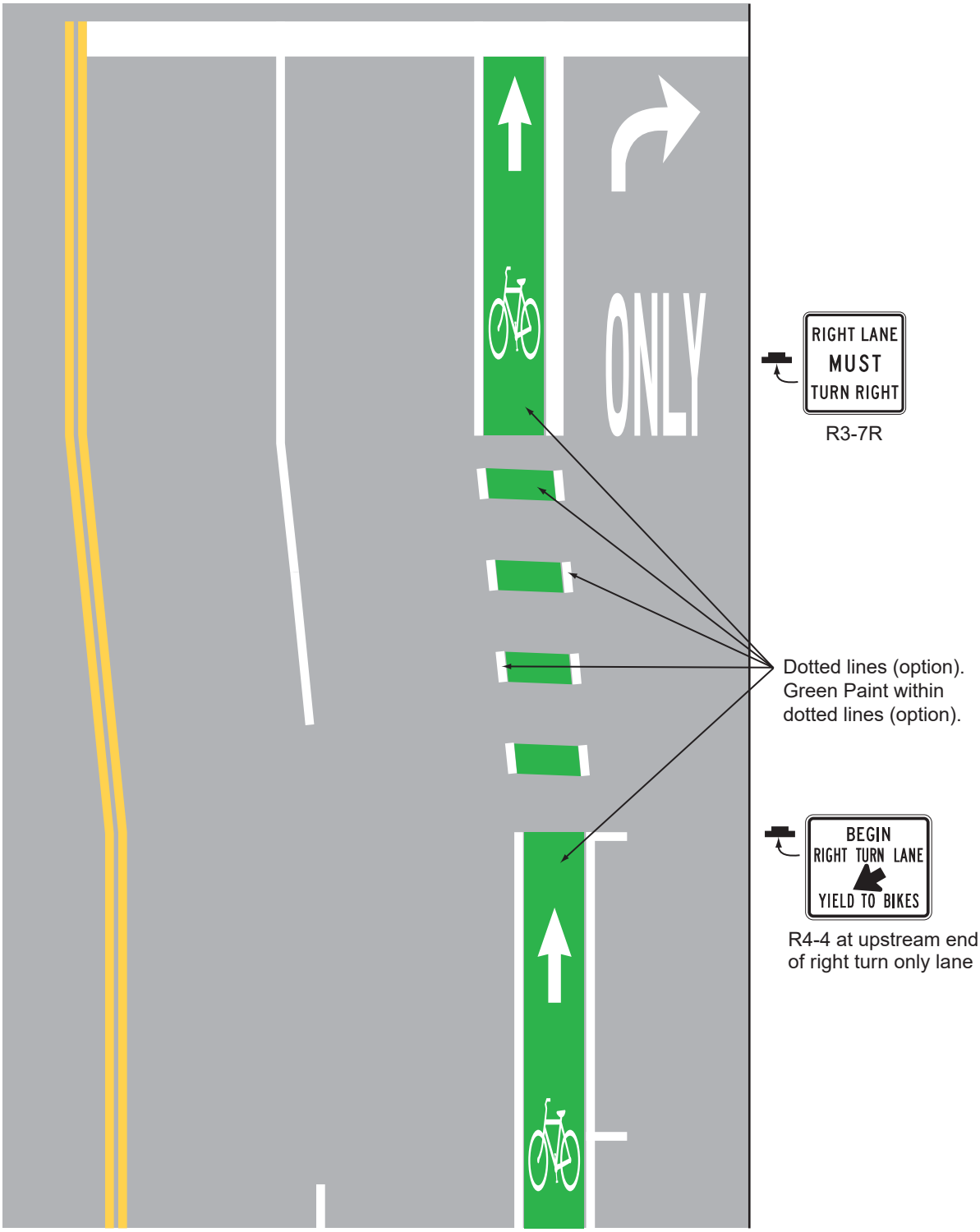


Figure 9E-3(CA). Example of Bicycle Lane Markings On an Approach to an Intersection (Sheet 6 of 6)

F. Example of Bicycle Lane Treatment at a Left Turn Only Lane

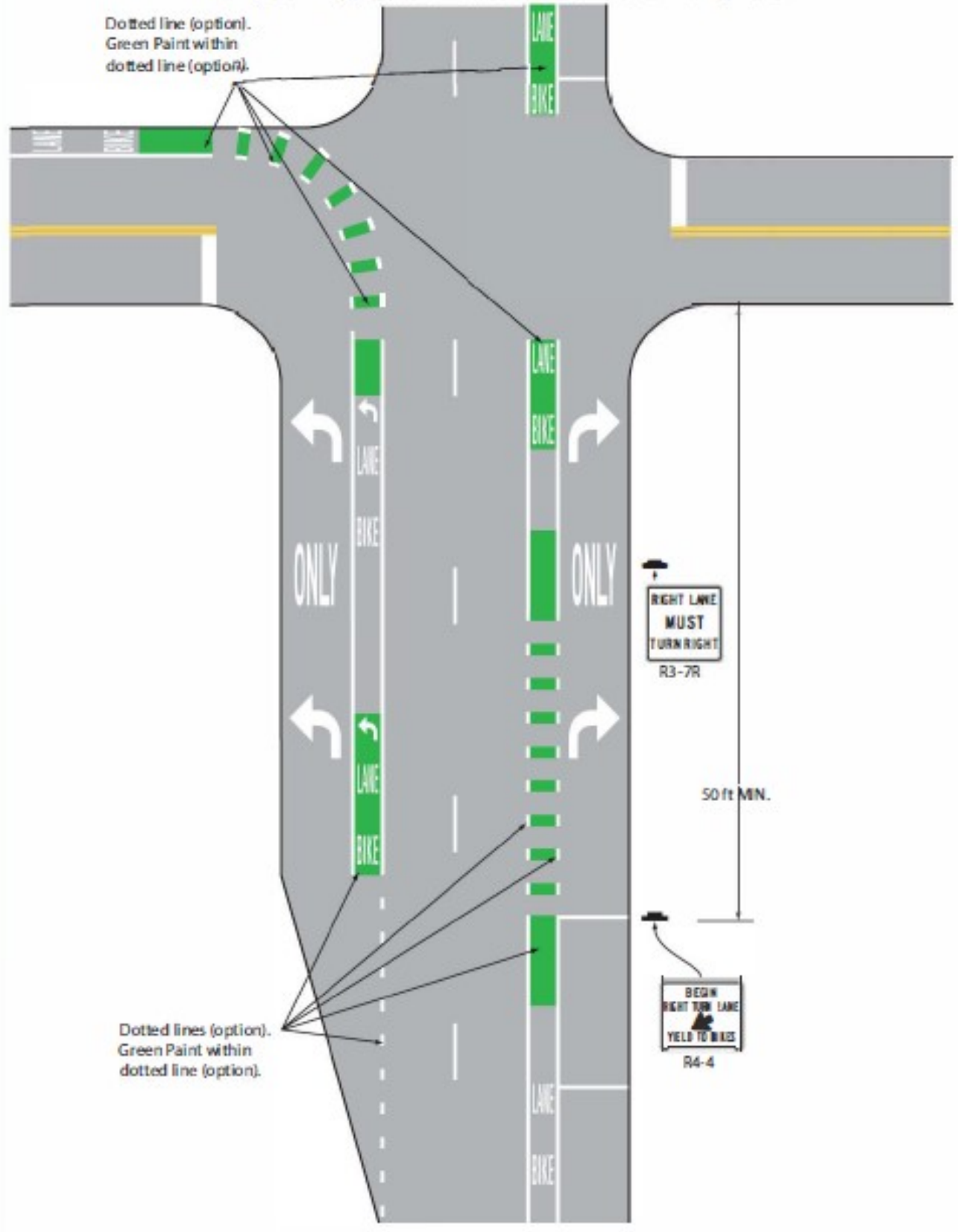


Figure 9E-4. Example of Bicycle Lane Markings on an Approach to an Intersection that Transitions from a Shared Lane

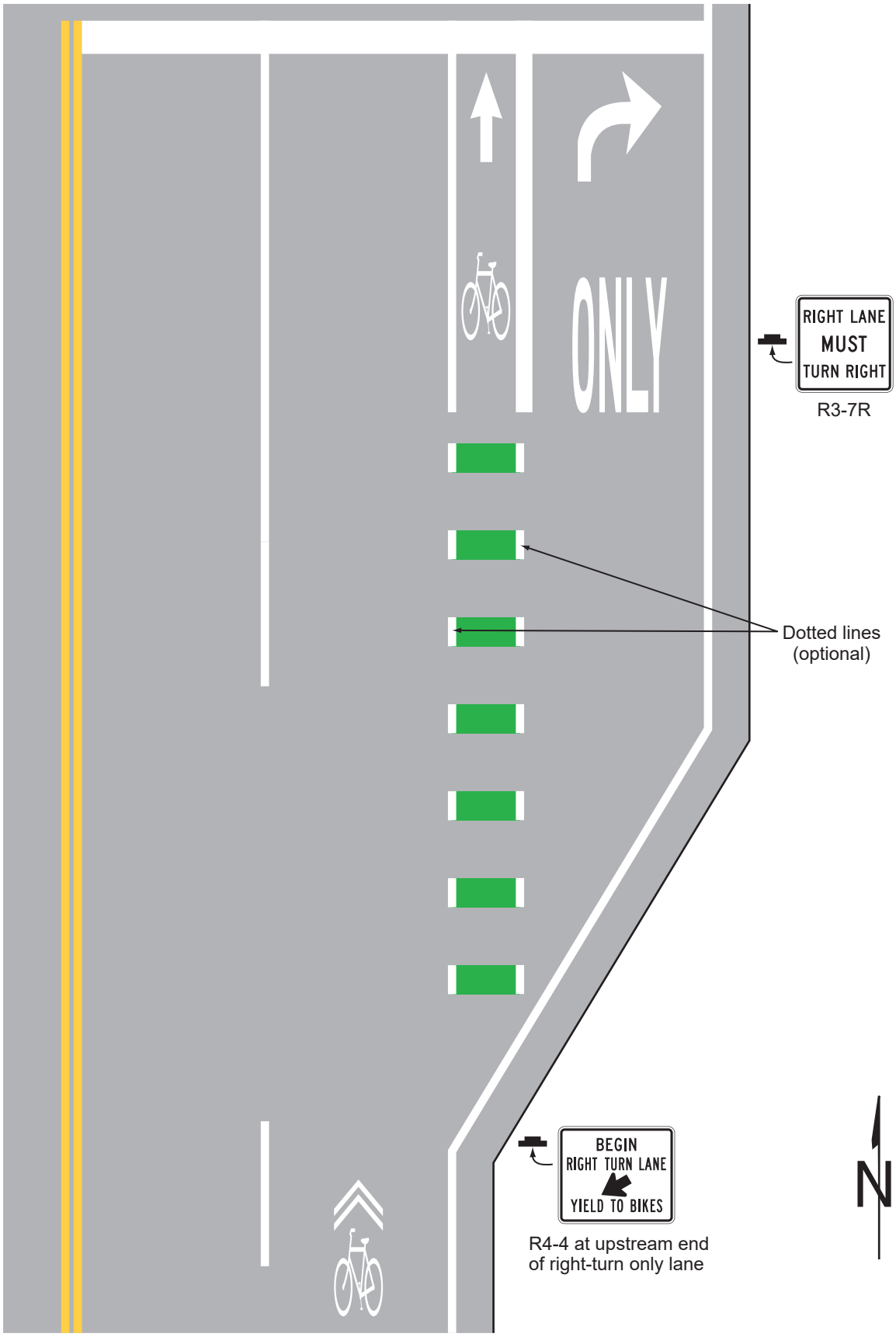
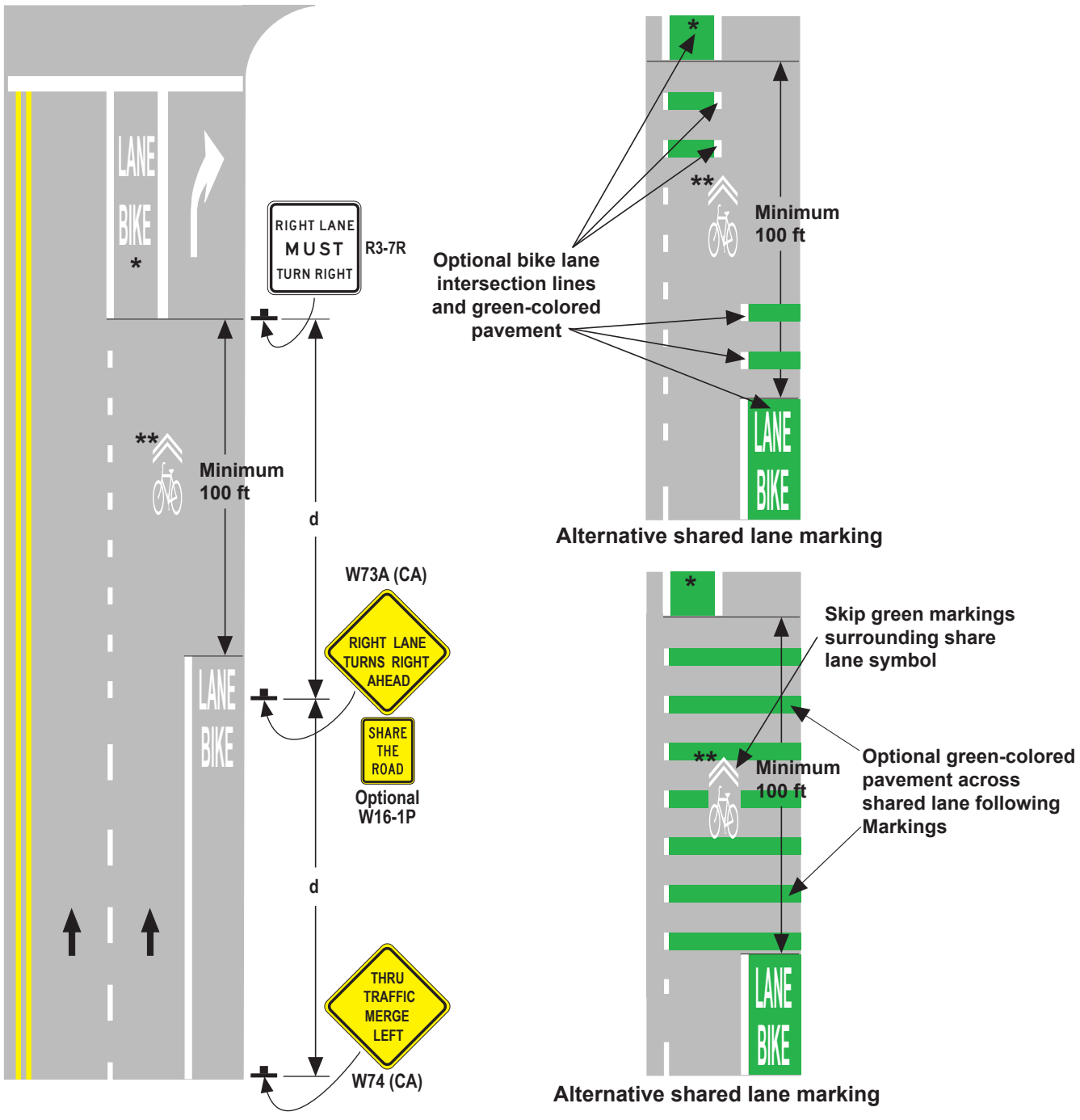


Figure 9E-4(CA). Example of Bicycle Lane Markings on an Approach to an Intersection that Transitions from a Shared Lane



* 4 ft minimum width, 6 ft minimum width for posted speed greater than 40 mph.
** The shared lane markings are appropriate to assist bicyclists with positioning, with or without a bicycle lane at the intersection. More than one shared lane marking may be placed.
d = Advance Placement Distance (See Section 2C.05)

LEGEND

→ Direction of Travel NOT TO SCALE

Figure 9E-5. Examples of Pavement Markings for Mixing Zones

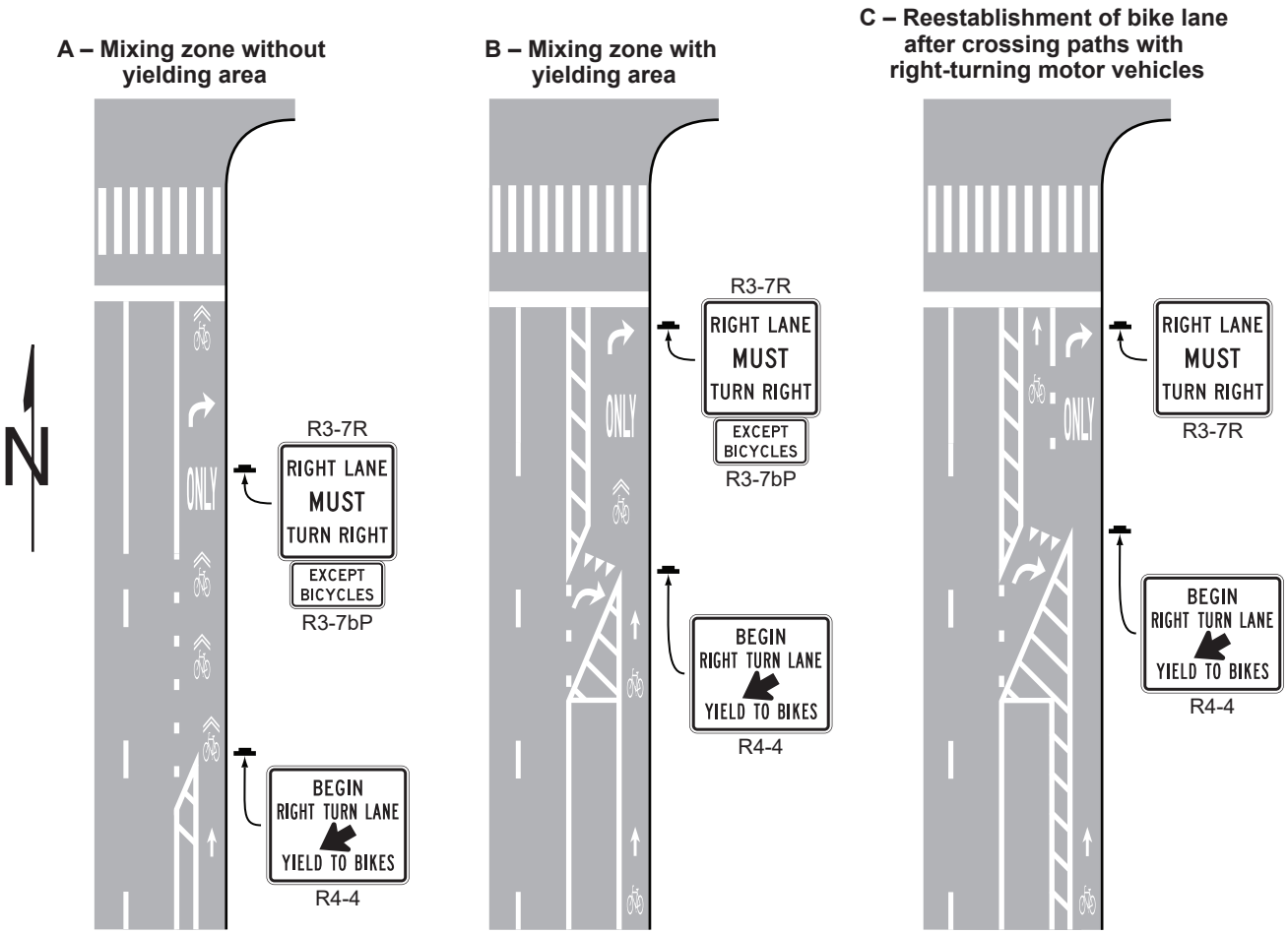


Figure 9E-6. Examples of Markings for Buffer-Separated Bicycle Lanes

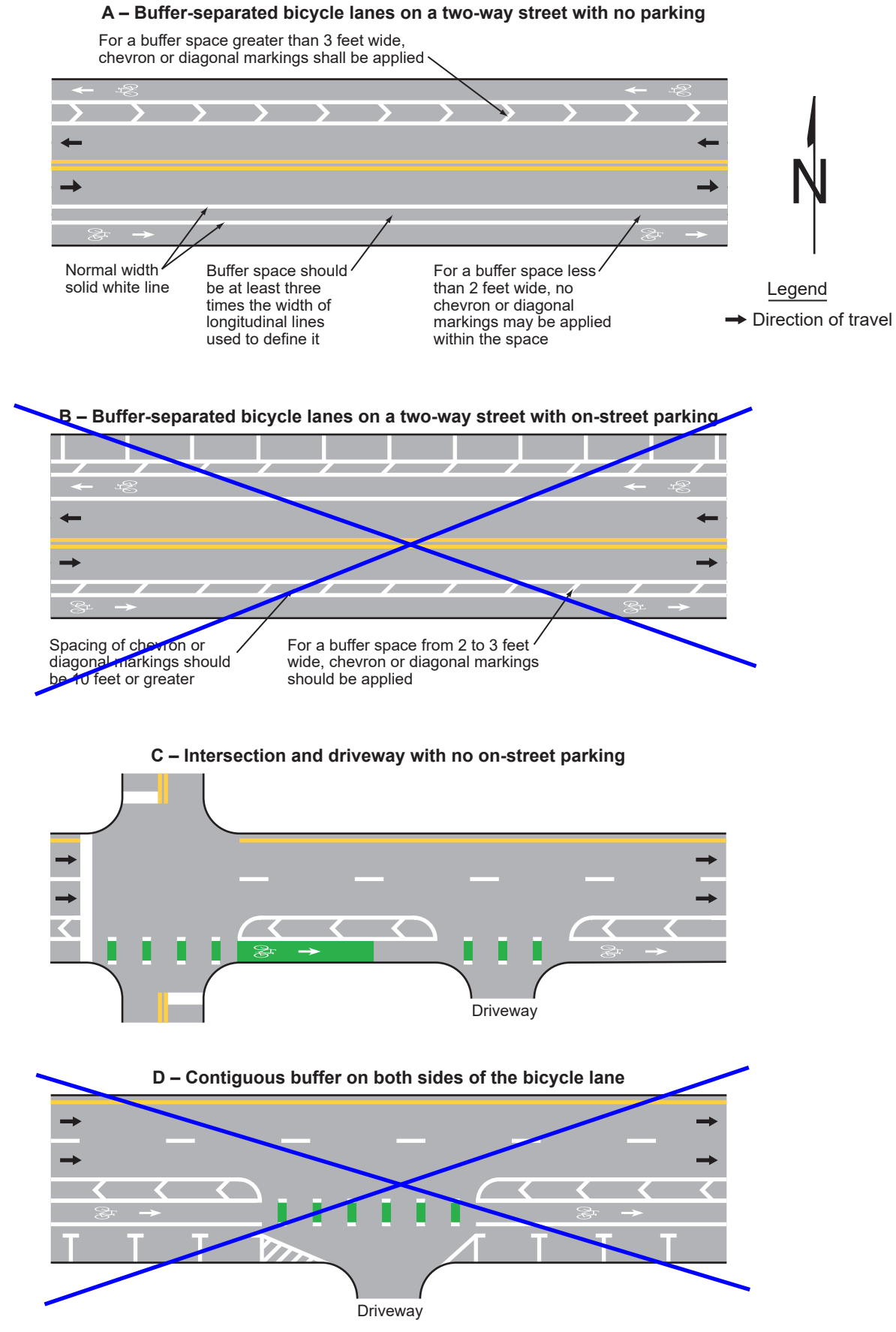
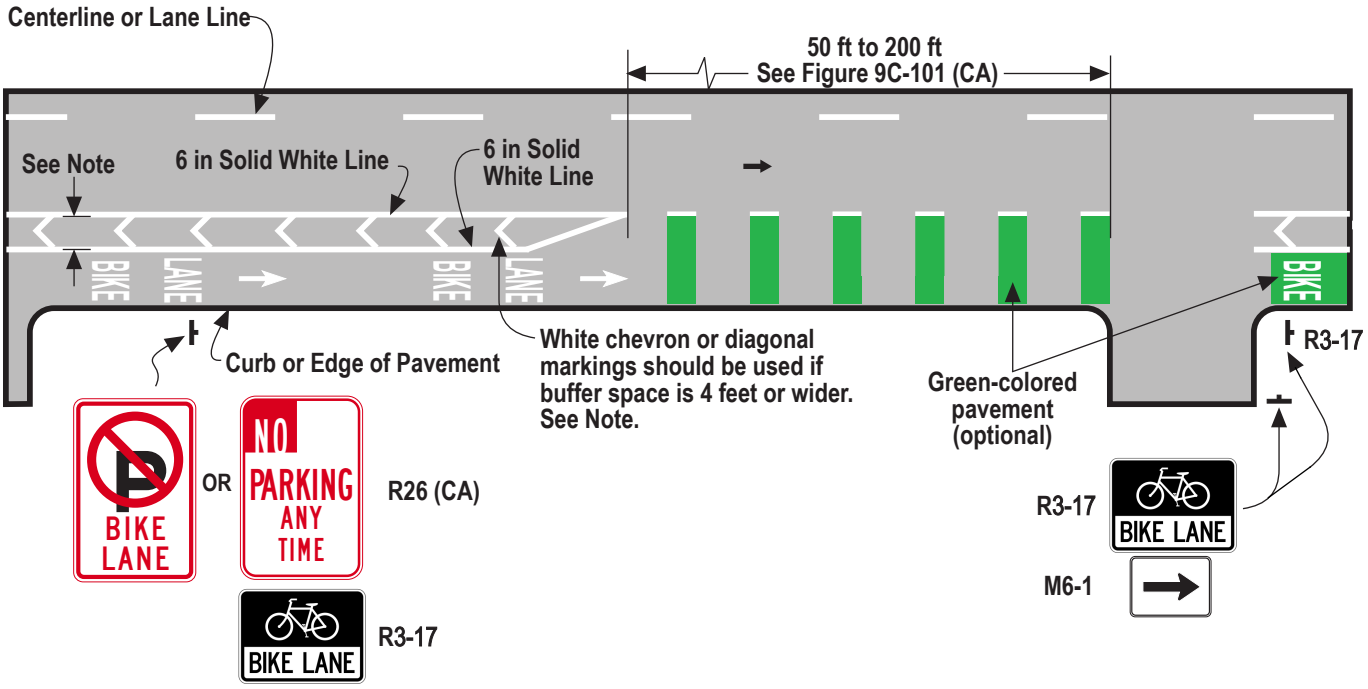
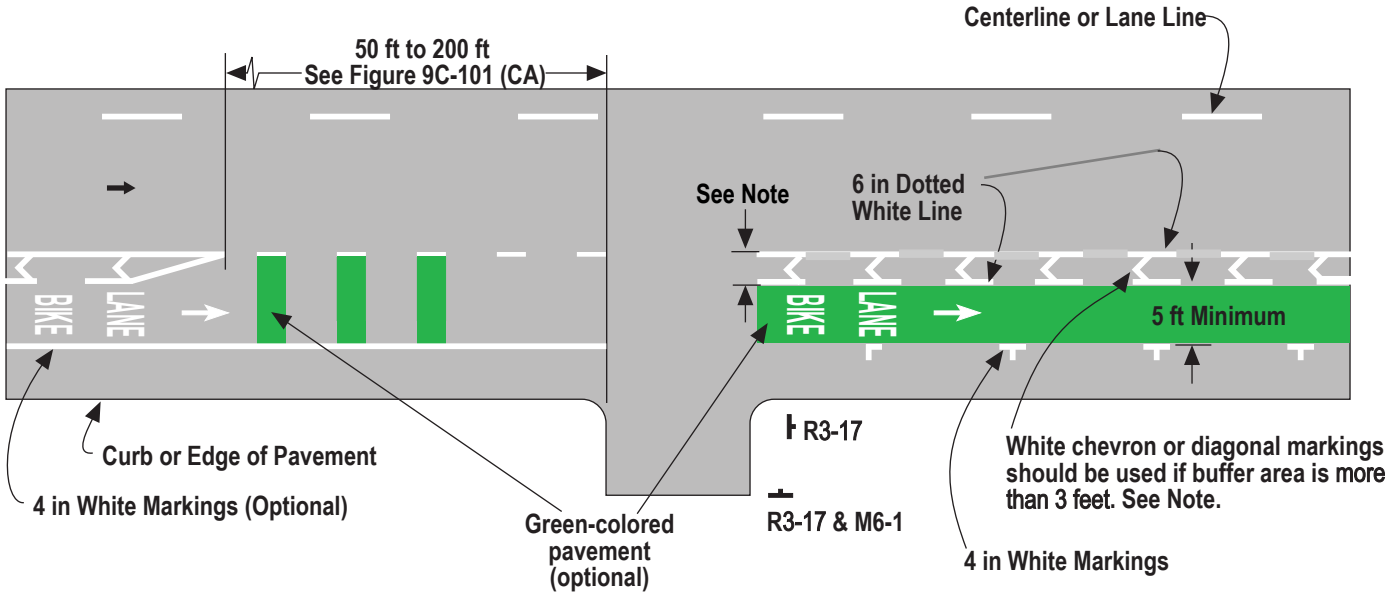


Figure 9E-6(CA). Examples of Markings for Buffer-Separated Bicycle Lanes (Sheet 1 of 2)

A. Buffer Between Bicycle Lane and General Purpose Lane Where Vehicle Parking is Prohibited



B. Buffer Between Bicycle Lane and General Purpose Lane Where Vehicle Parking is Permitted



WITHOUT MARKED PARKING STALLS

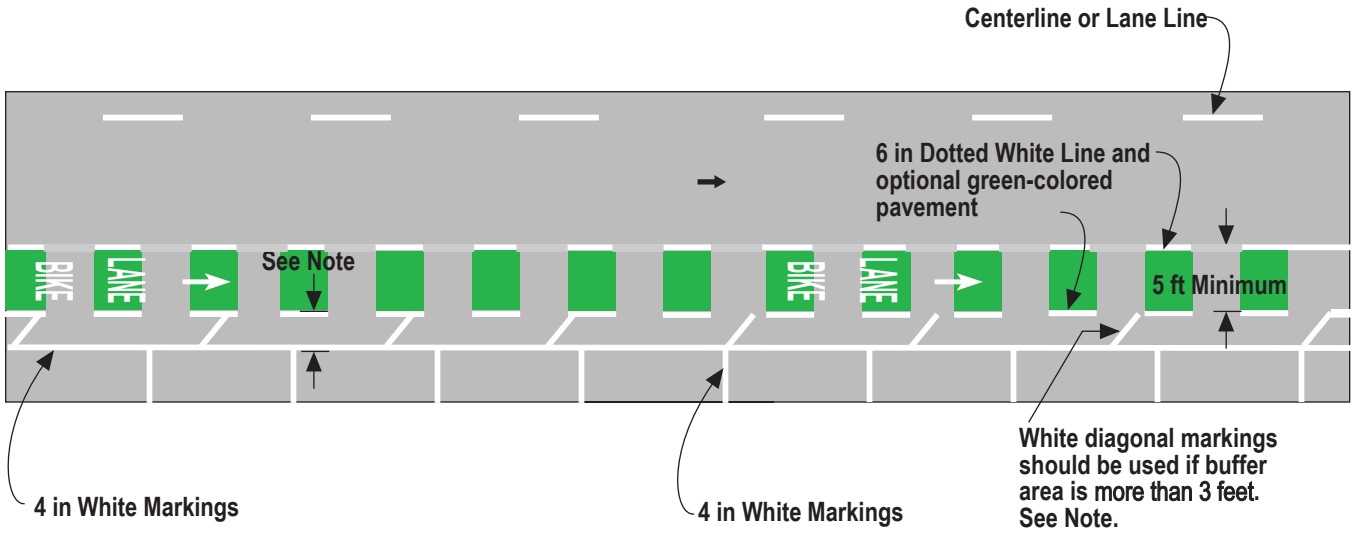
WITH MARKED PARKING STALLS

NOT TO SCALE

NOTE: 18 in Minimum for Buffered Area Width. The Buffer Area Width includes the width of the parallel White Lines

Figure 9E-6(CA). Examples of Markings for Buffer-Separated Bicycle Lanes (Sheet 2 of 2)

C. Buffer Between Bicycle Lane and Parking Lane



WITH PARKING STALLS

NOT TO SCALE

NOTE: 18 in Minimum for Buffered Area Width. The Buffer Area Width includes the width of the parallel White Lines

D. Contiguous buffer on both sides of the bicycle lane

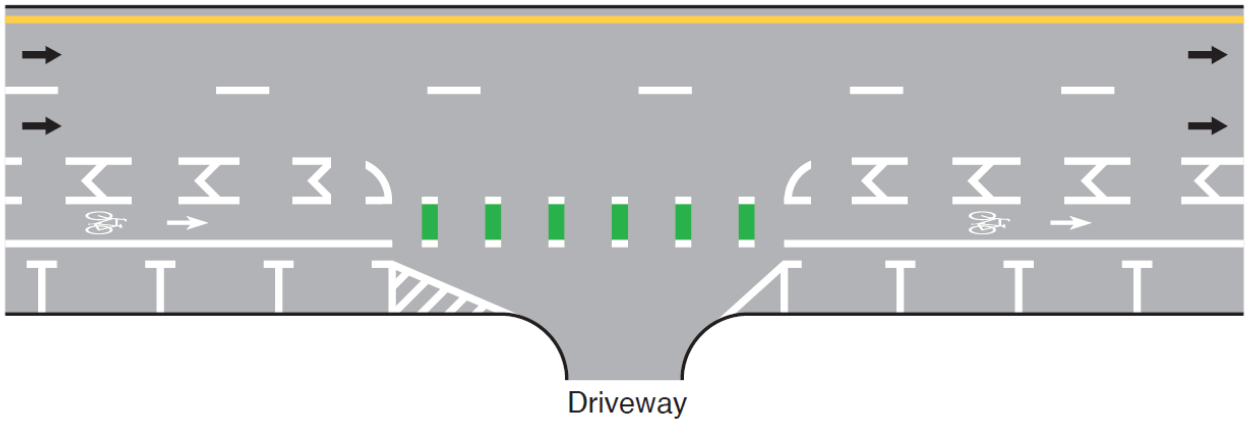
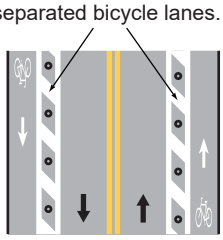


Figure 9E-7. Examples of Lane Markings for Separated Bicycle Lanes (Sheet 1 of 2)

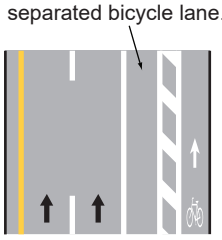
A – One-way bicycle lanes on a two-way street

Note: Diagonal or chevron markings shall be used if buffer width is 2 feet or greater for separated bicycle lanes.



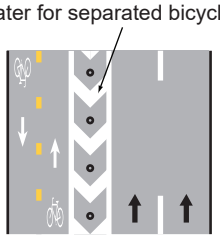
B – One-way bicycle lane on a one-way street behind on-street parking

Note: Parking provides the vertical element of this separated bicycle lane.

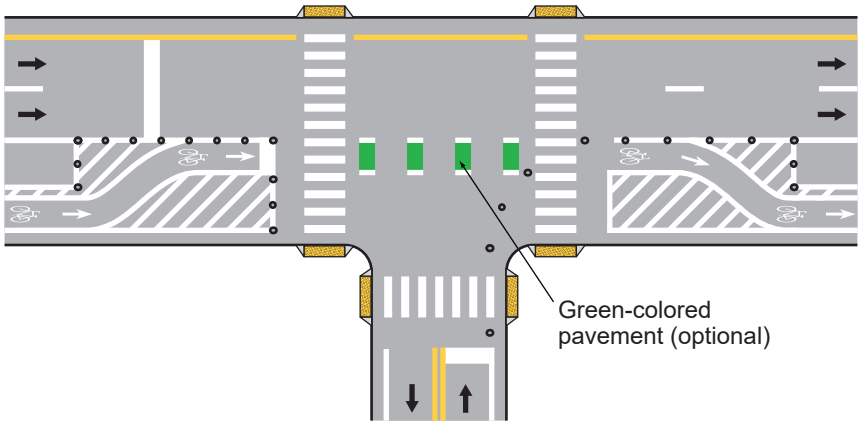


C – Two-way bicycle lane on a one-way street

Note: Diagonal or chevron markings shall be used if buffer width is 2 feet or greater for separated bicycle lanes.



D – Separated bicycle lane shifted toward the adjacent general-purpose lane



Legend

→ Direction of travel
∘ Tubular marker

E – Separated bicycle lane shifted away from traffic

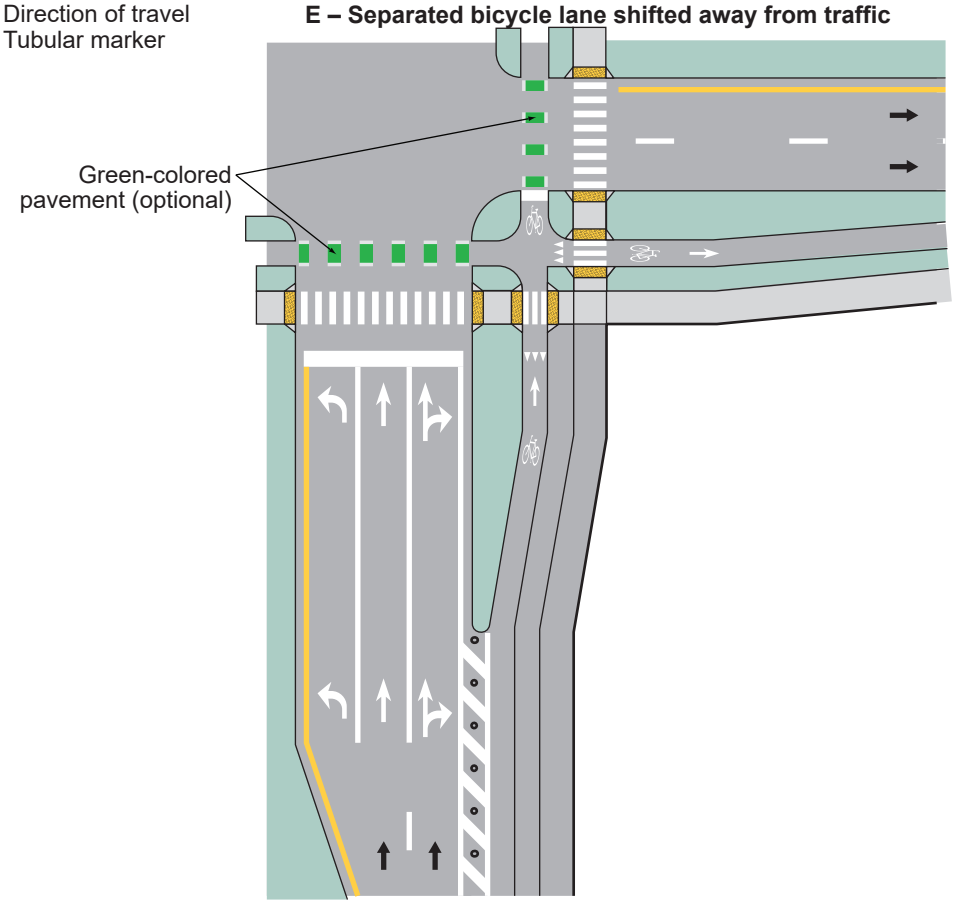


Figure 9E-7. Examples of Lane Markings for Separated Bicycle Lanes (Sheet 2 of 2)

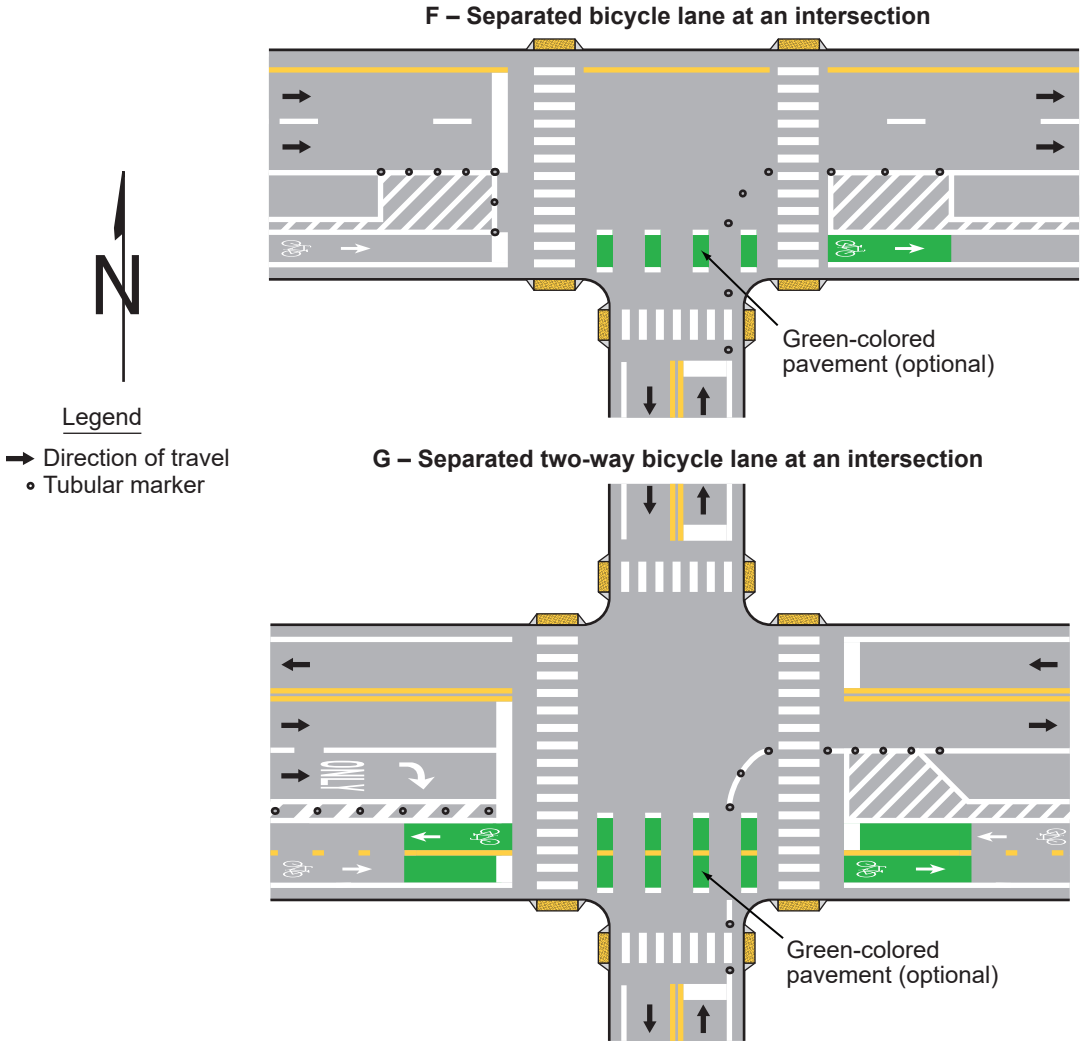


Figure 9E-8. Example of Counter-Flow Bicycle Lanes at an Intersection

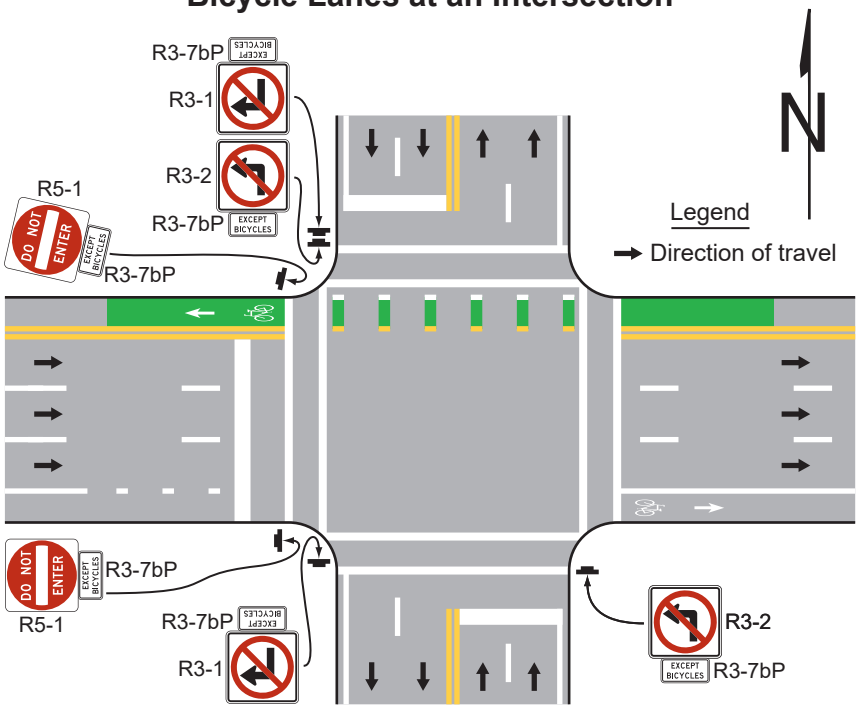


Figure 9E-8(CA). Example of Counter-Flow Bicycle Lanes (Sheet 1 of 2)

Alternative 1. Simple Lane Markings

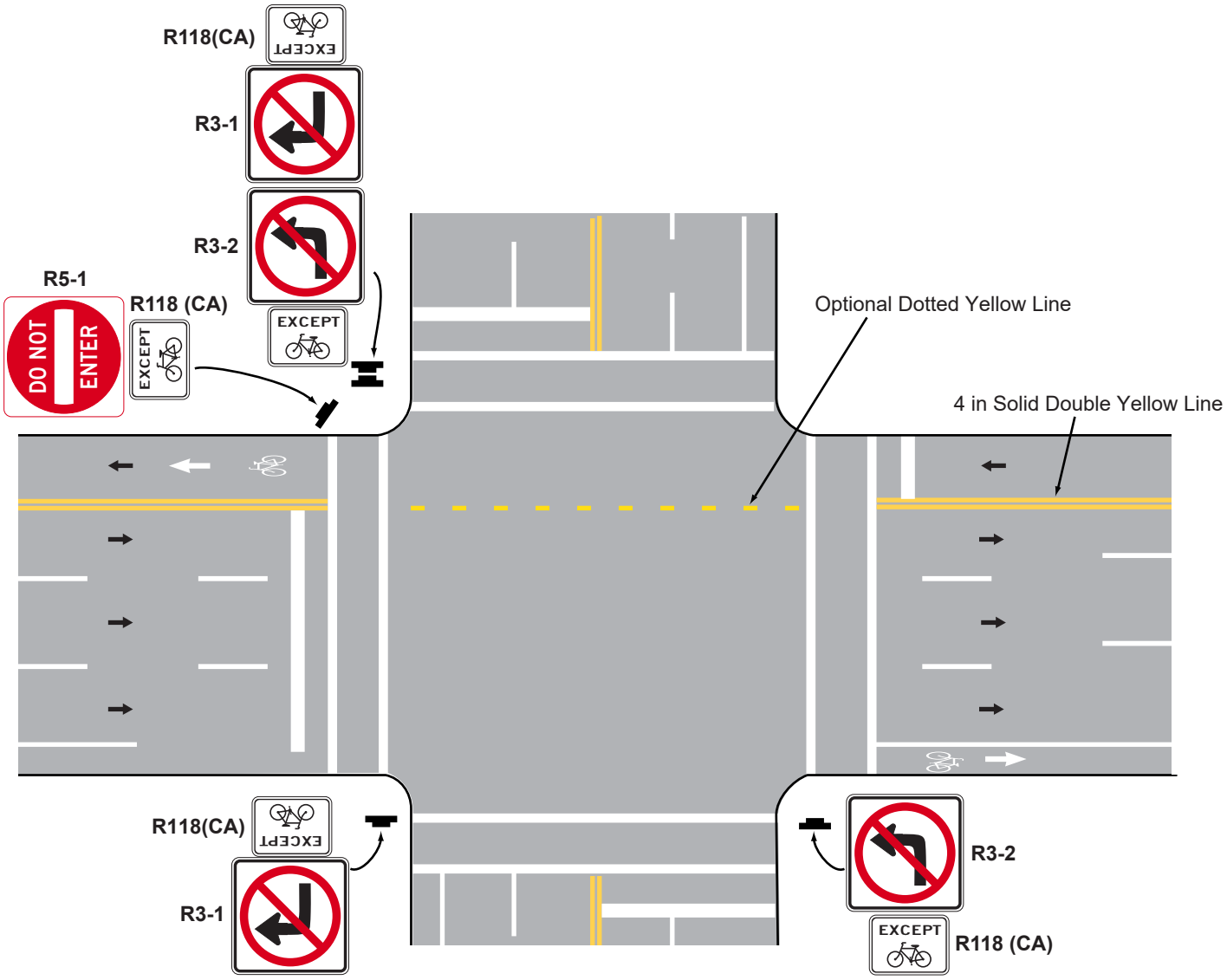


Figure 9E-8(CA). Example of Counter-Flow Bicycle Lanes (Sheet 2 of 2)

Alternative 2. With Optional Green-colored Pavement

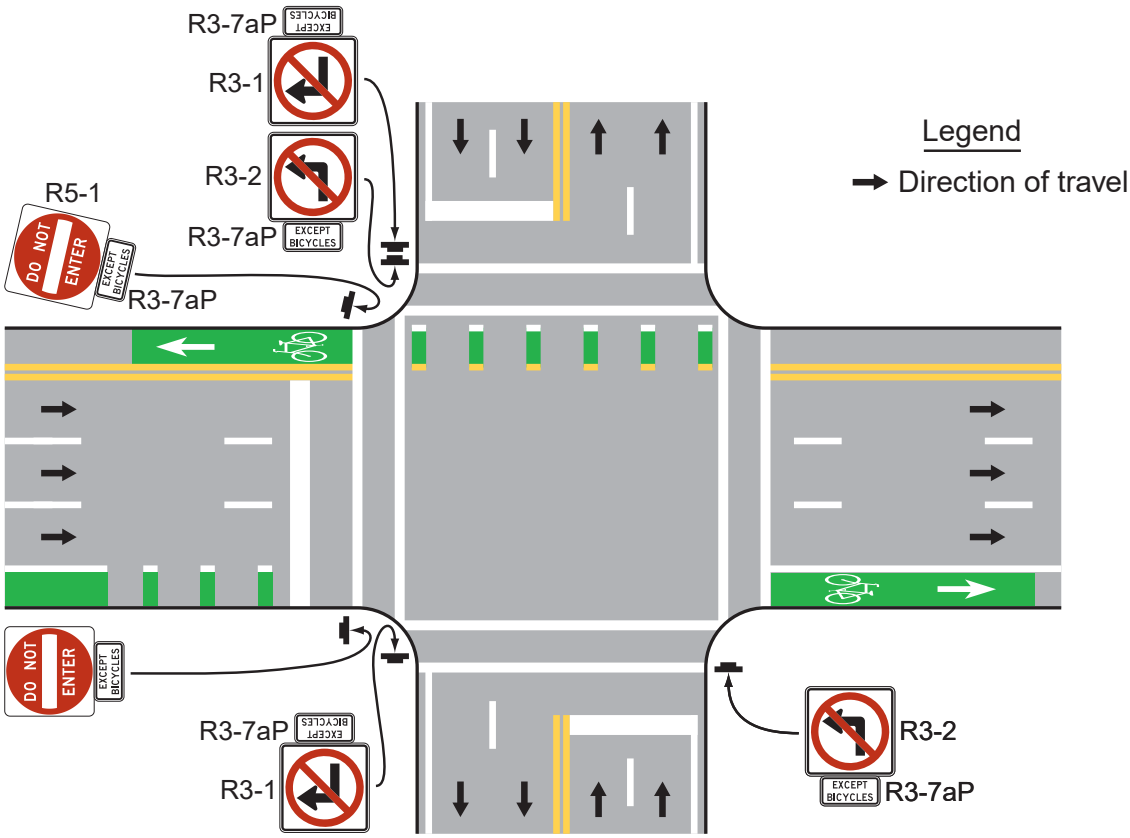
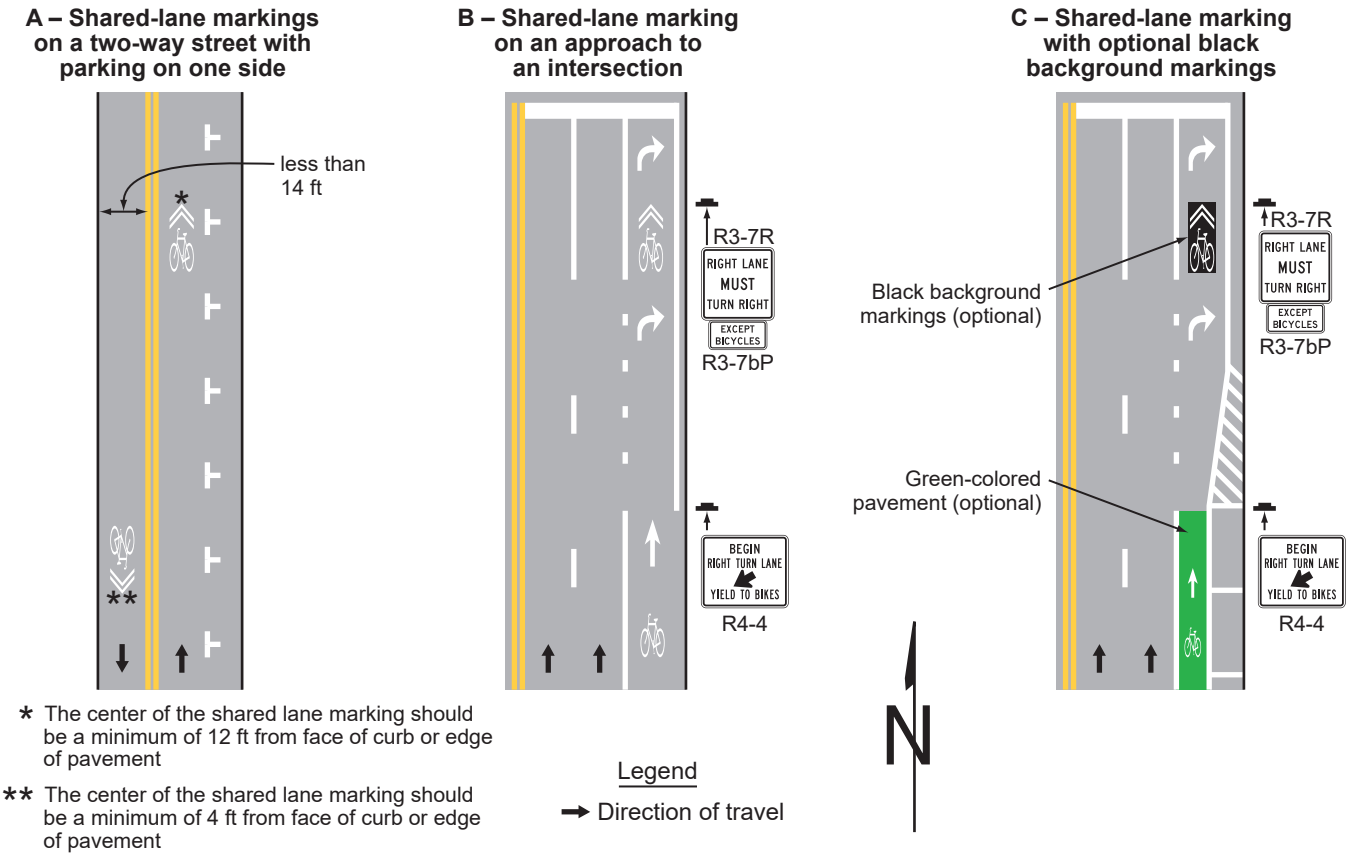
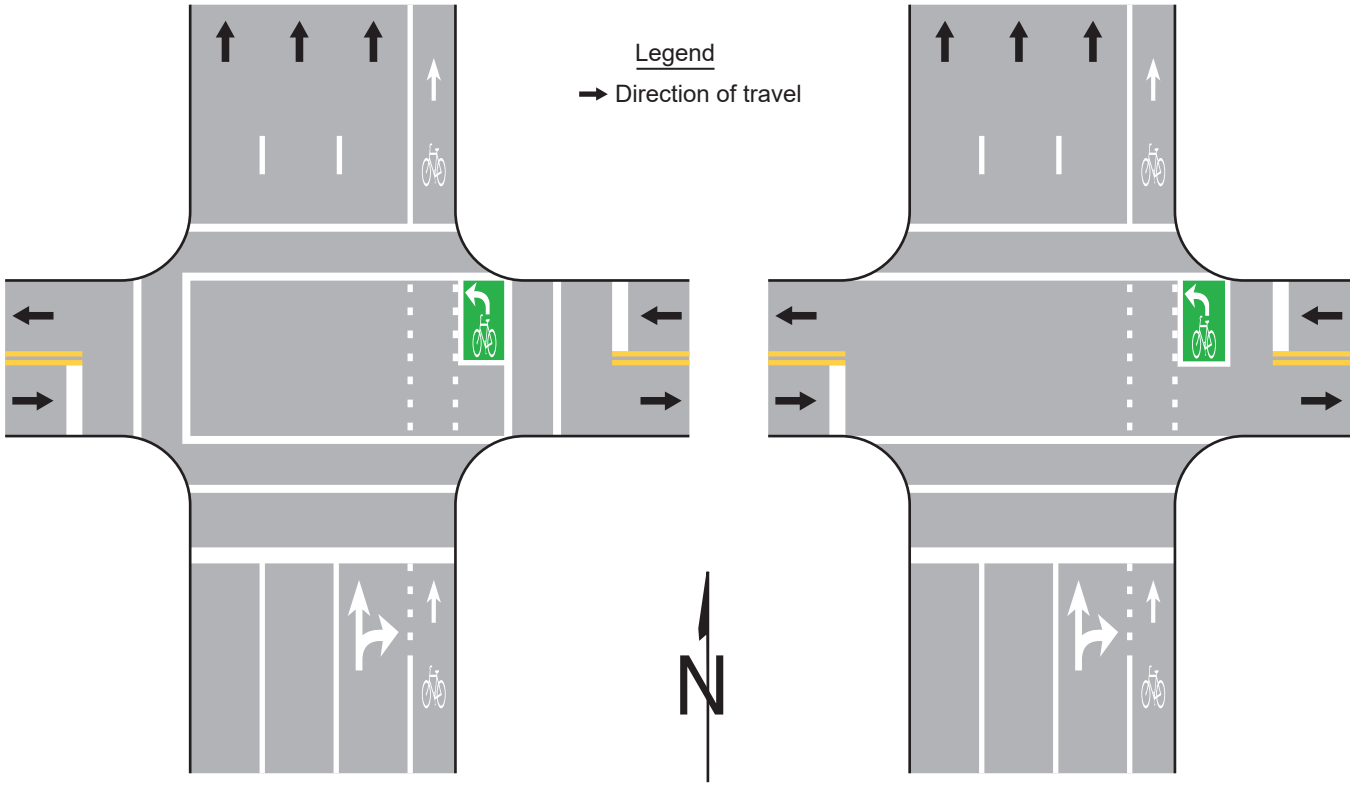


Figure 9E-9. Examples of Shared-Lane Marking Applications



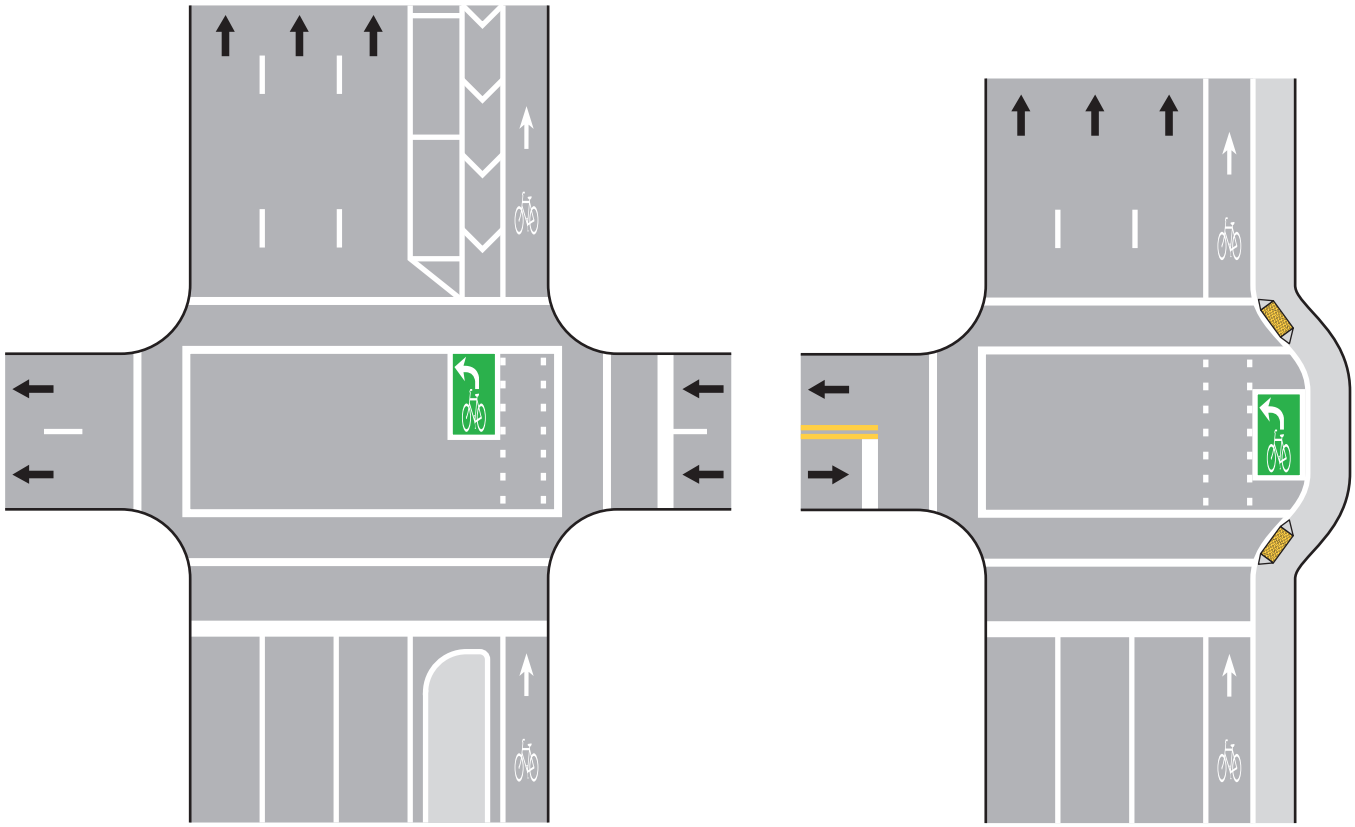
Note: For shared-lane marking design details, see the Pavement Markings chapter of the Standard Highway Signs publication

Figure 9E-10. Examples of Two-Stage Turn Box Locations at Intersections



A – Between the through bicycle lane and the parallel crosswalk

B – Between the through bicycle lane and the parallel pedestrian movement



C – On the inside of the through bicycle lane

D – Between the through bicycle lane and the sidewalk at a T-intersection

Figure 9E-11. Example of a Two-Stage Turn Box Location at an Intersection with a Two-Way Bikeway

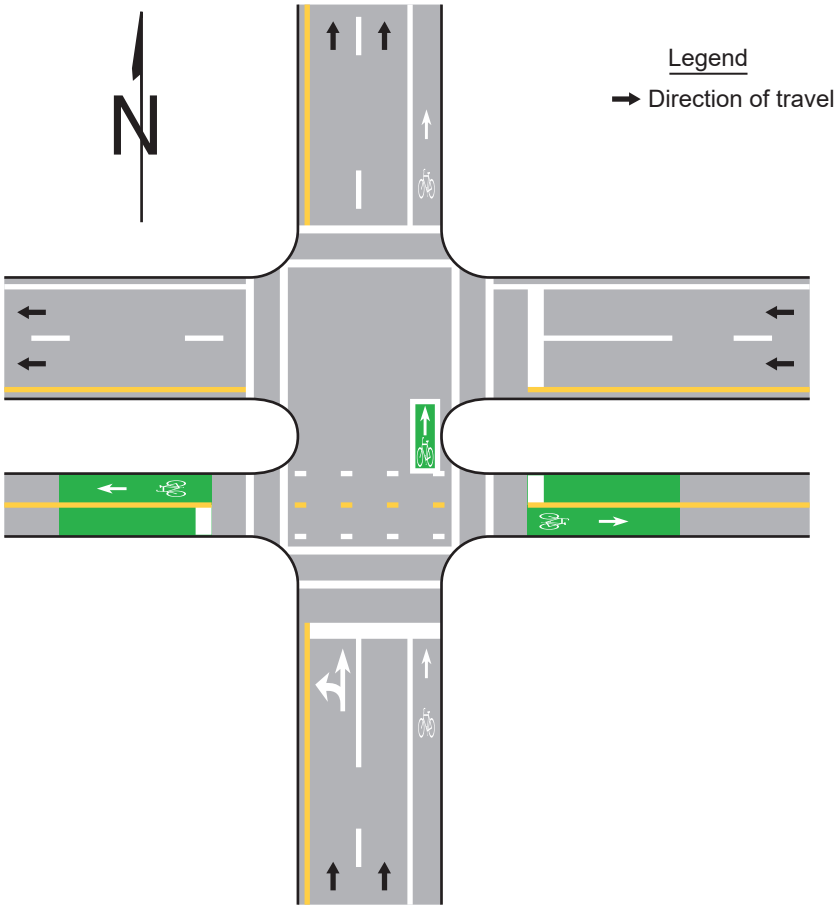
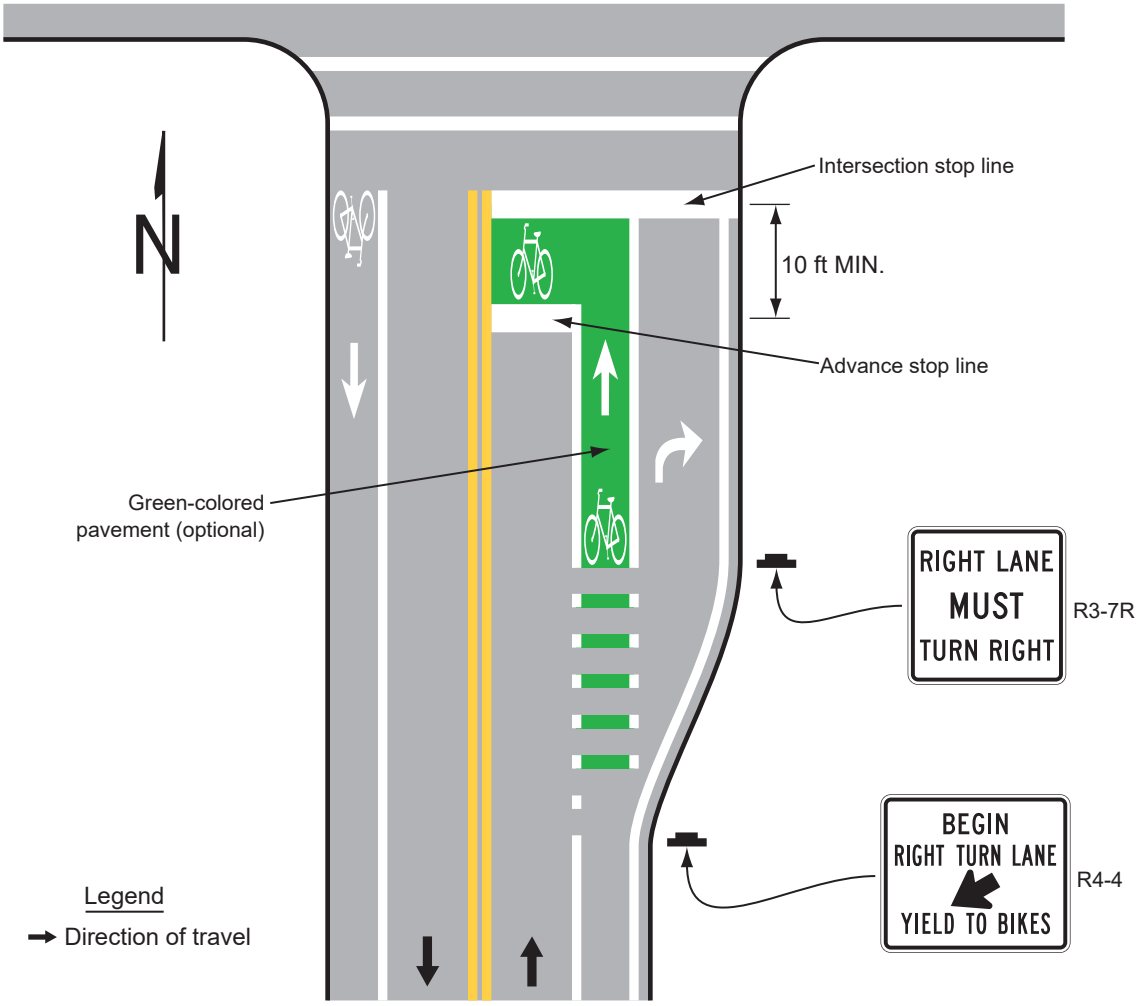
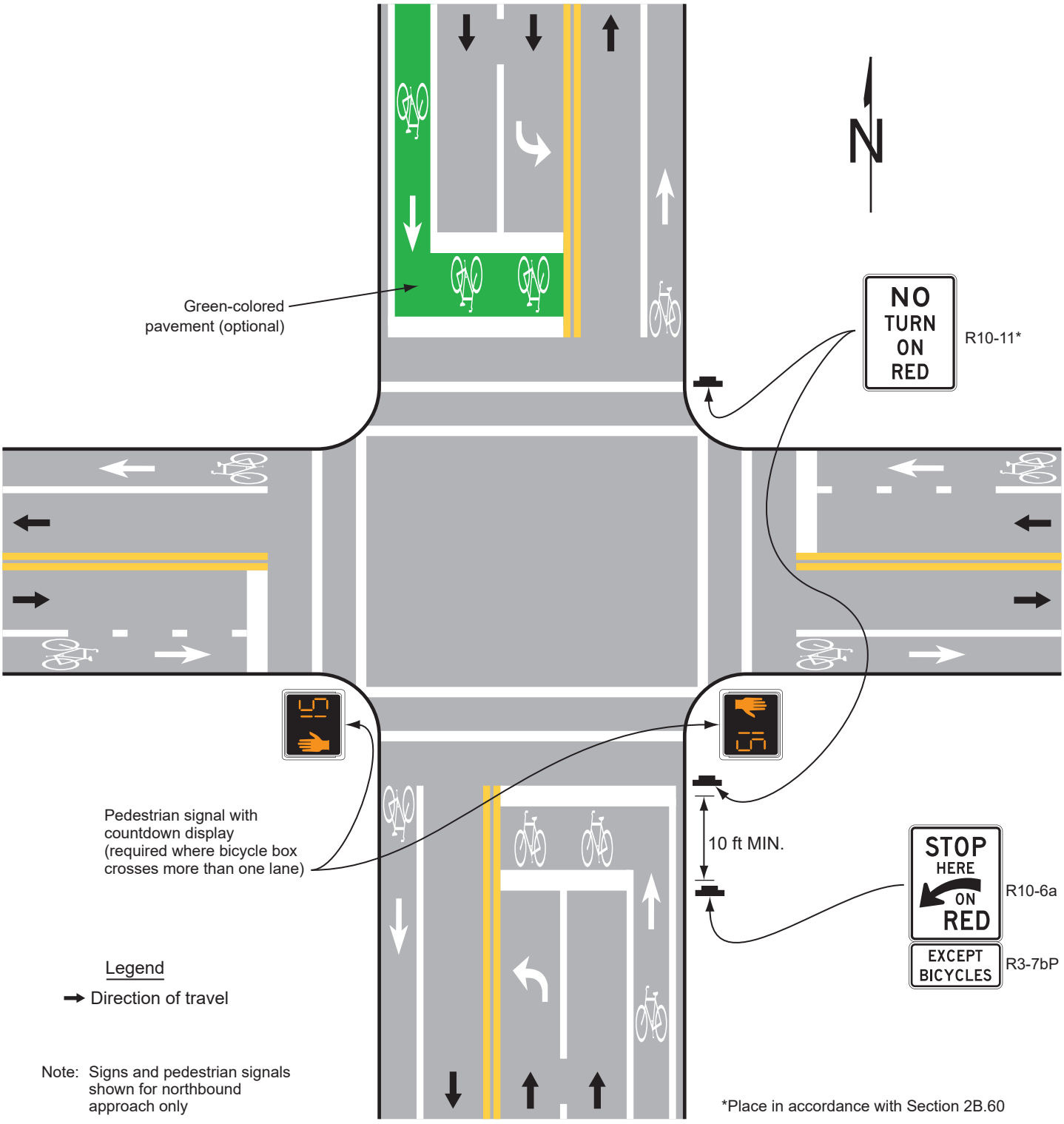


Figure 9E-12. Examples of Intersection Bicycle Boxes (Sheet 1 of 2)



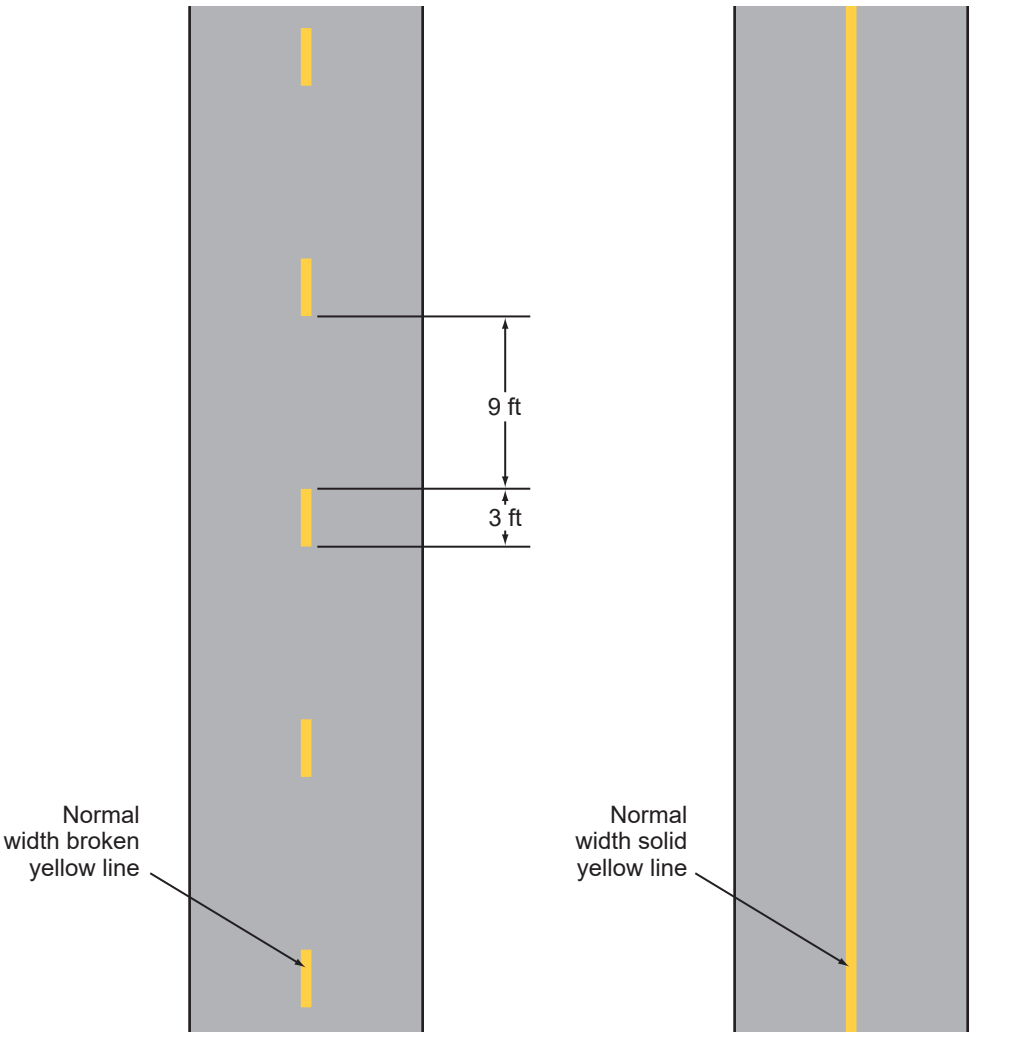
A – Bicycle box across one lane

Figure 9E-12. Examples of Intersection Bicycle Boxes (Sheet 2 of 2)



B – Bicycle box across multiple lanes

Figure 9E-13. Examples of Center Line Markings for Shared-Use Paths



A – Passing permitted **B – Passing NOT permitted**

Figure 9E-14. Example of Pavement Markings for a Shared-Use Path with Mode Separation

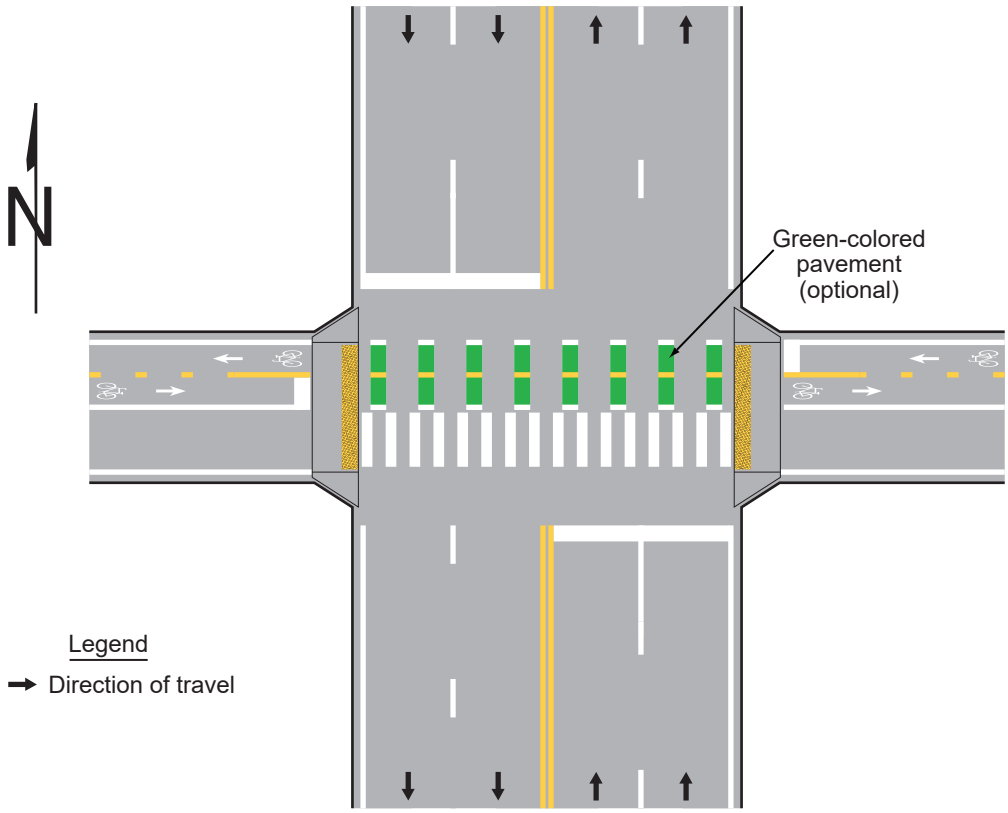


Figure 9E-15. Example of Placement of Route Markers for Shared-Use Paths

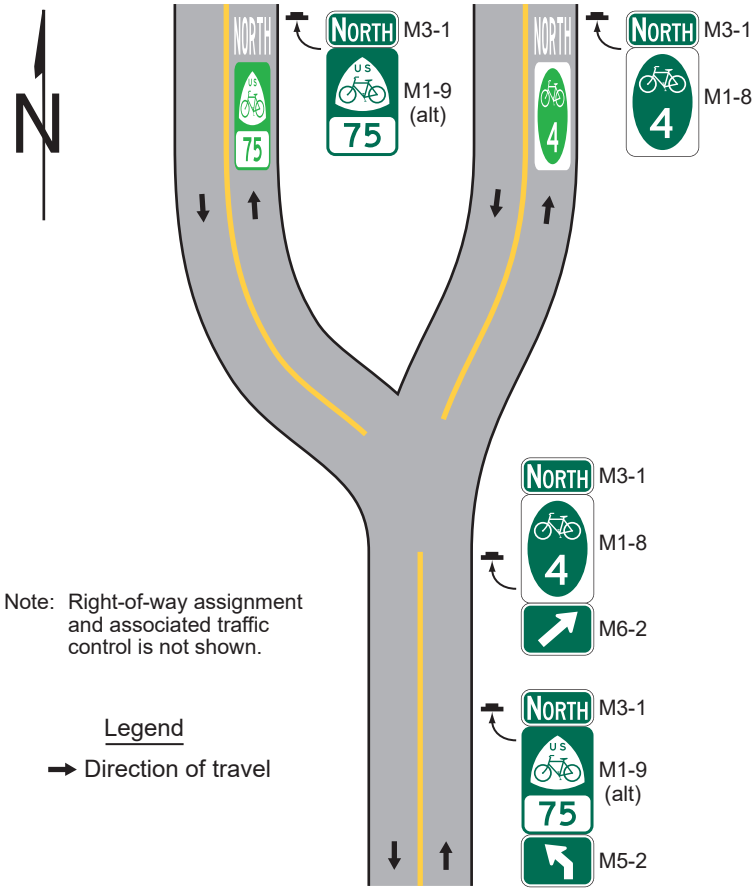
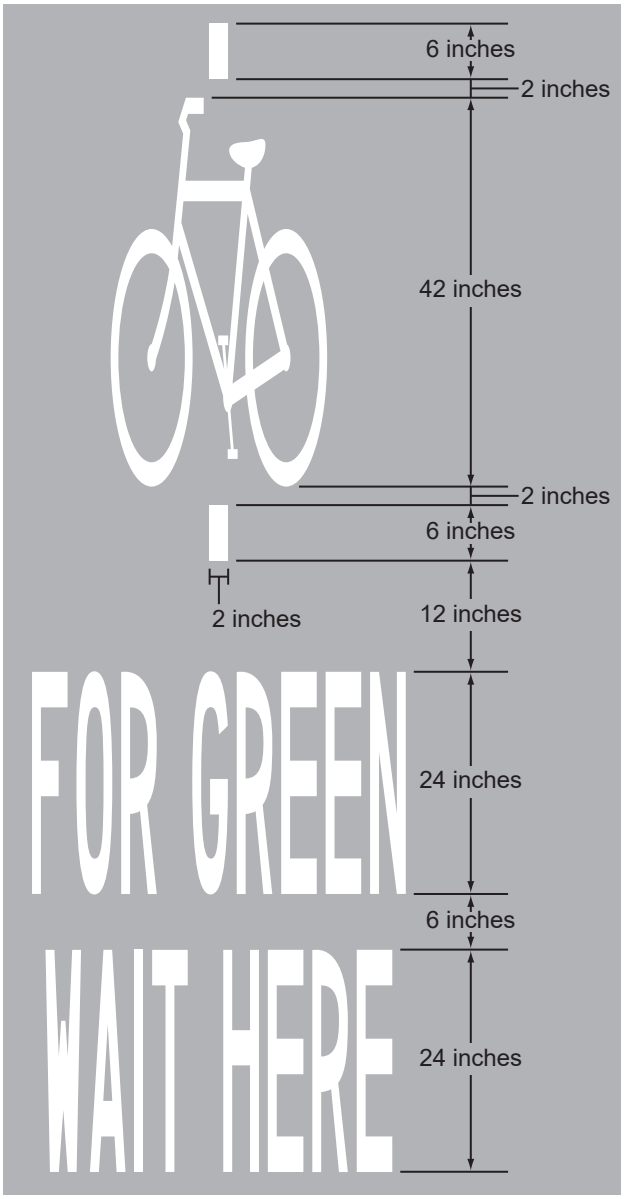
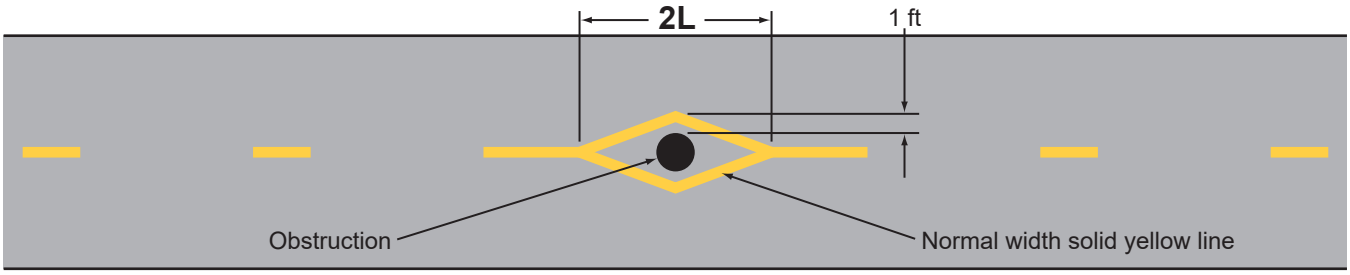


Figure 9E-16. Bicycle Detector Pavement Marking

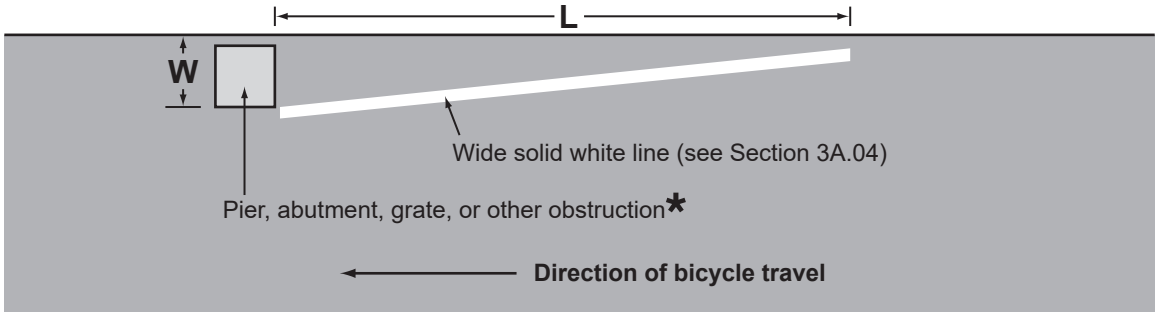


Note: The word pavement markings are optional.

Figure 9E-17. Examples of Obstruction Pavement Markings



A – Obstruction within the path



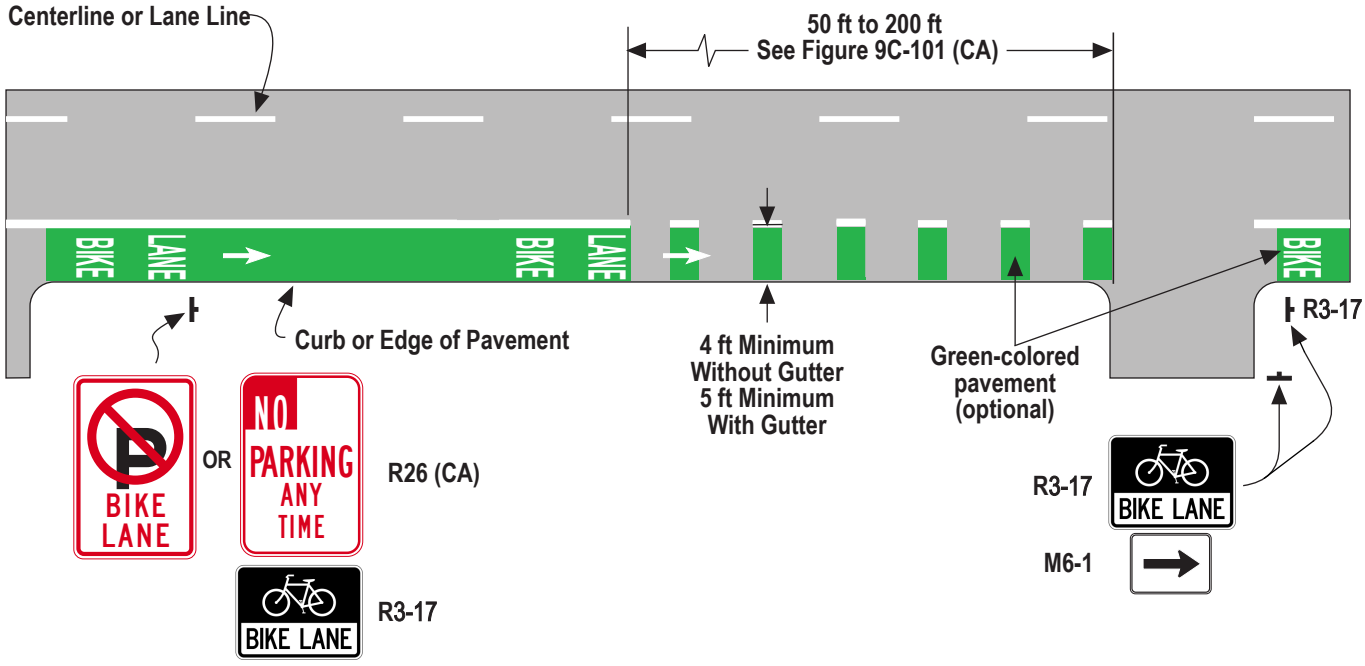
B – Obstruction at the edge of the path or roadway

L = WS, where W is the offset in feet and S is bicycle approach speed in mph

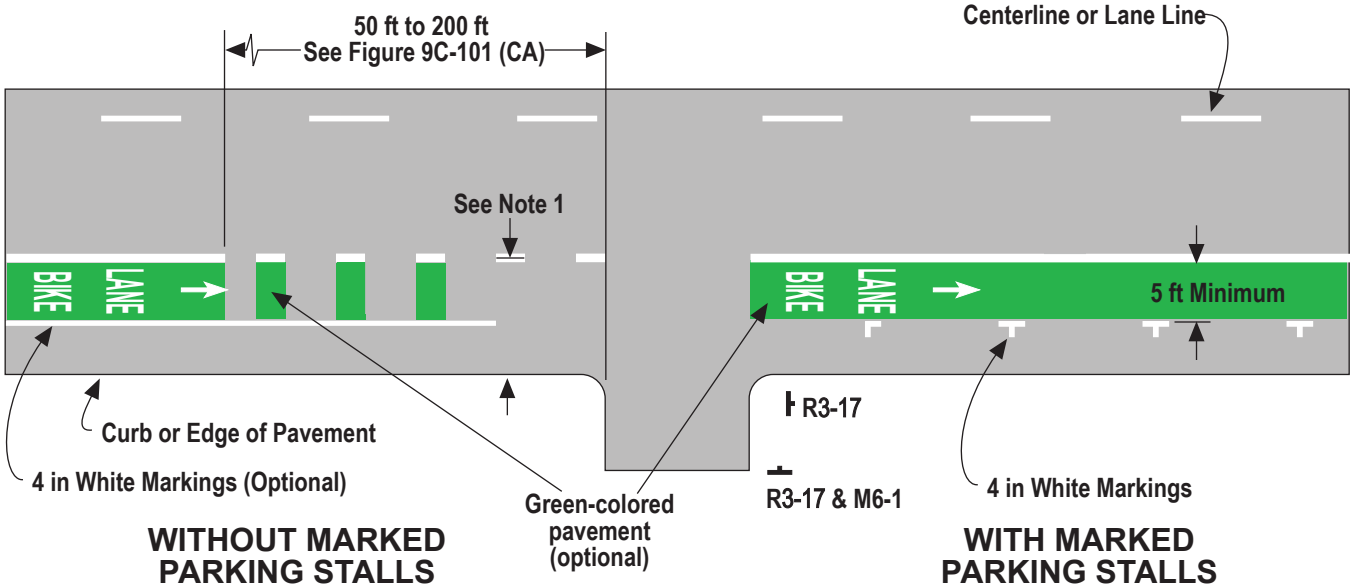
* Provide an additional foot of offset for a raised obstruction and use the formula L = (W+1) S for the taper length

Figure 9E-101(CA). Examples of Bicycle Lane Treatment Where Vehicle Parking is Prohibited/ Permitted

A. Where Vehicle Parking is Prohibited



B. Where Vehicle Parking is Permitted



NOT TO SCALE

NOTE: 11 ft Minimum for Rolled Curb
12 ft Minimum for Vertical Curb

Figure 9E-102(CA). Example of Bicycle Lane Treatment Through an Interchange

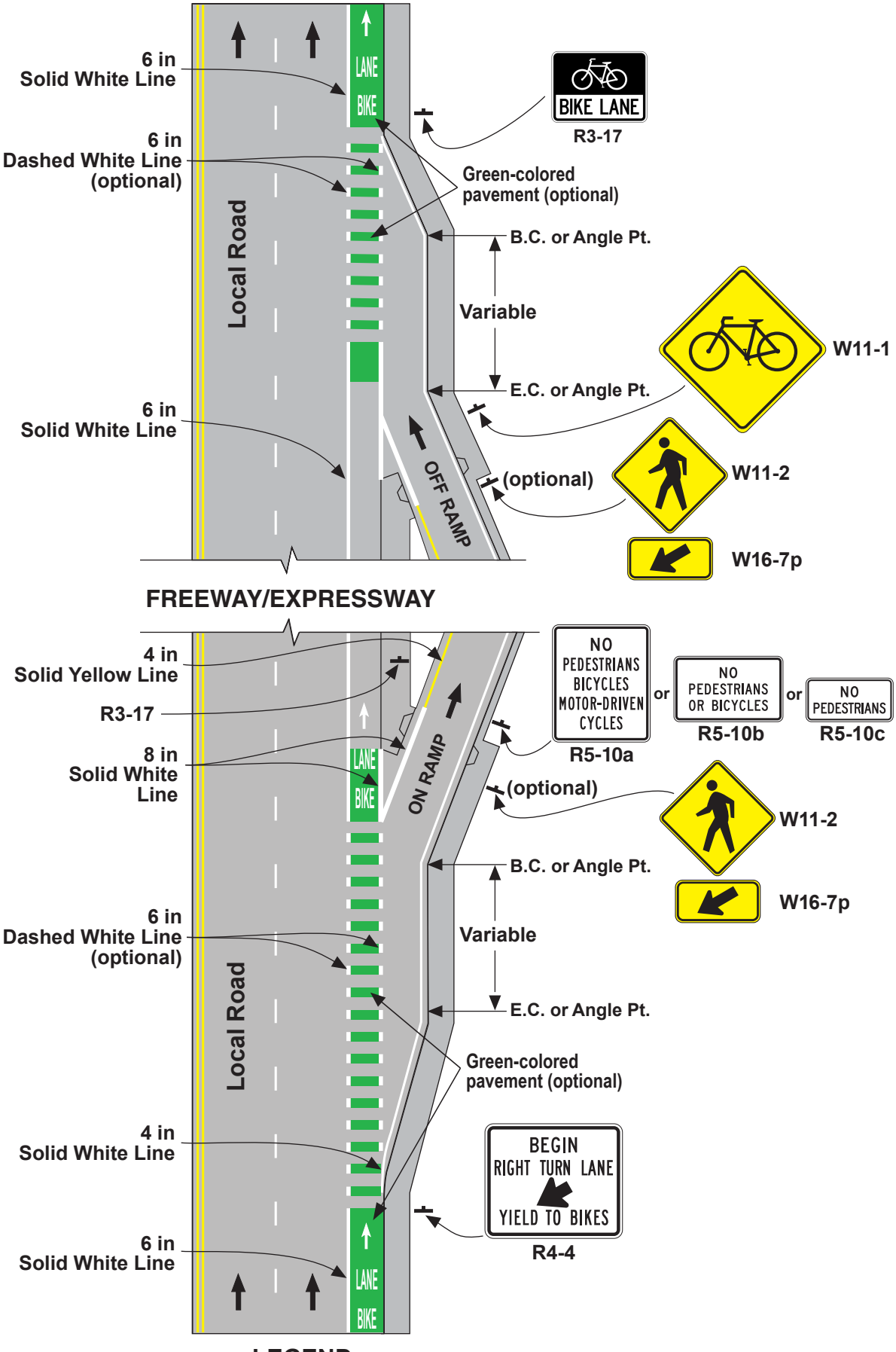
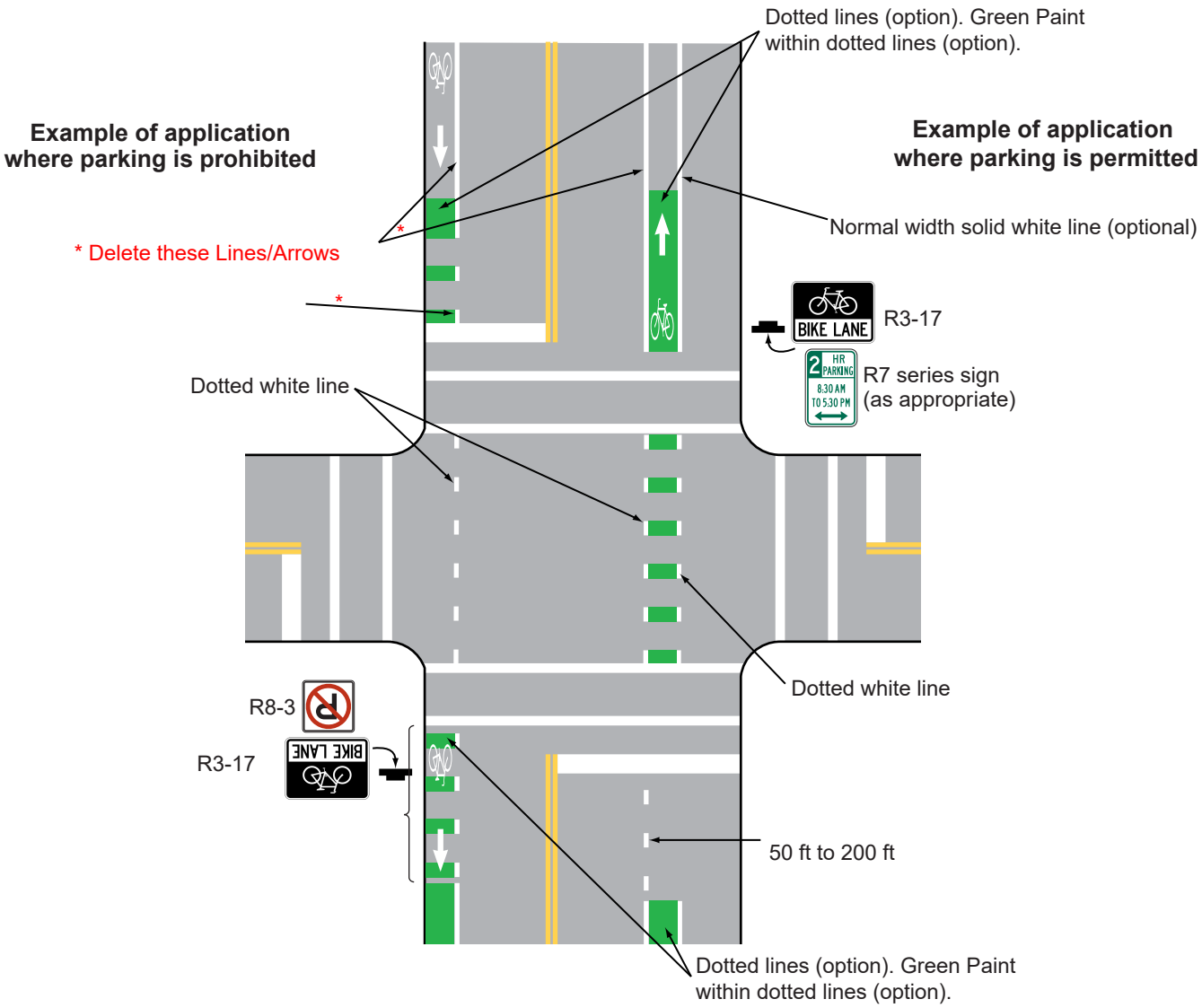


Figure 9E-103(CA). Examples of Bicycle Lane Extensions Through Intersection



NOT TO SCALE

Figure 9E-104(CA). Example of Marking for a One-Lane Roundabout with Shared Lane Markings and Bicycle Lanes

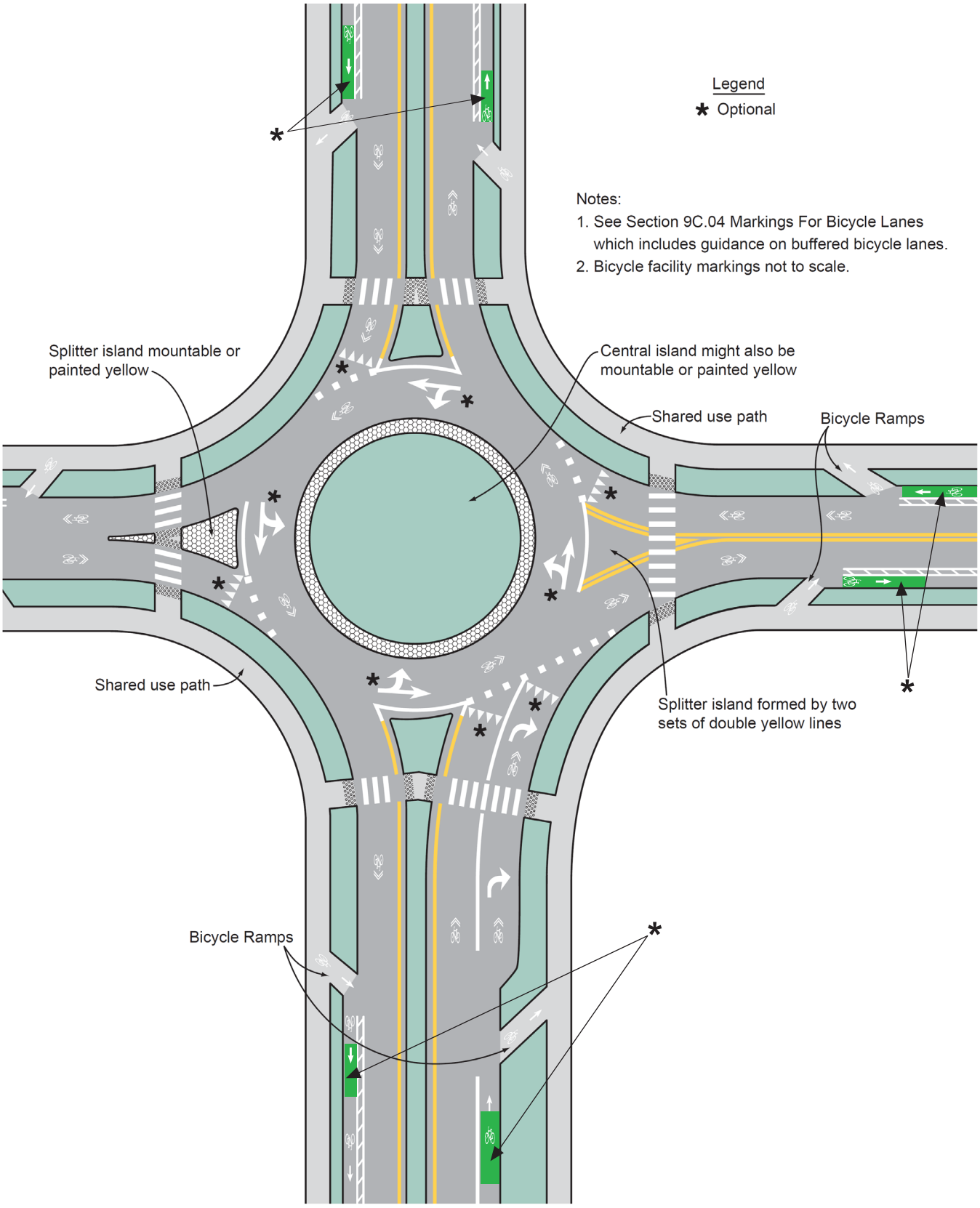
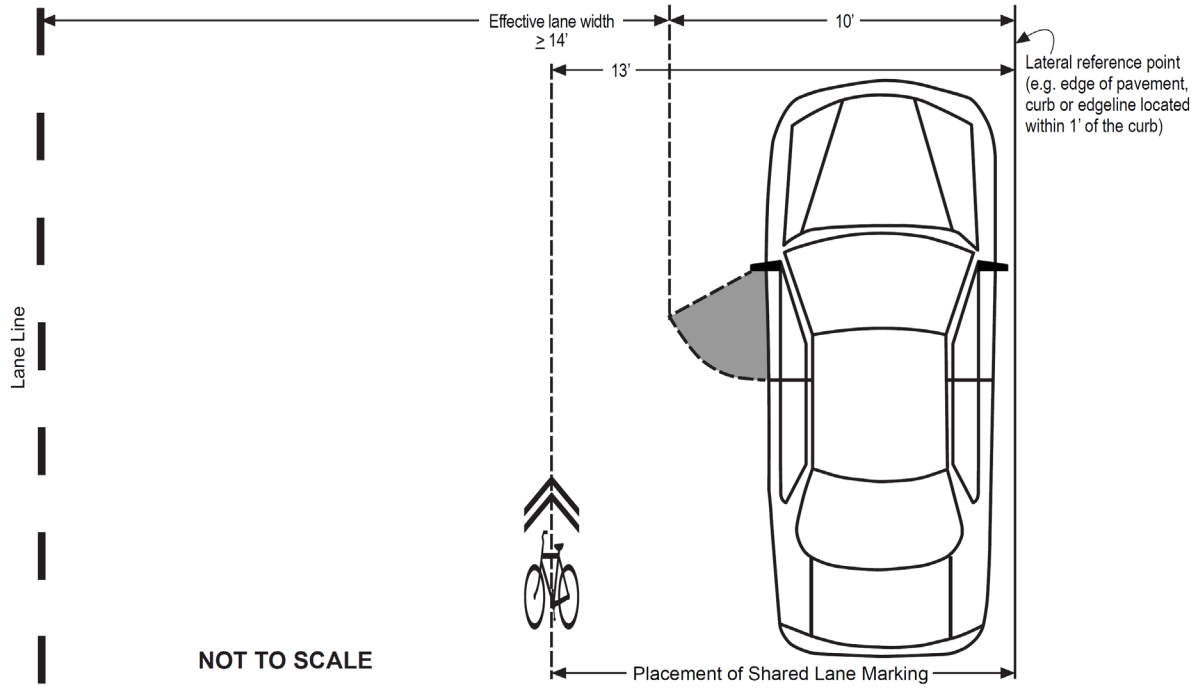
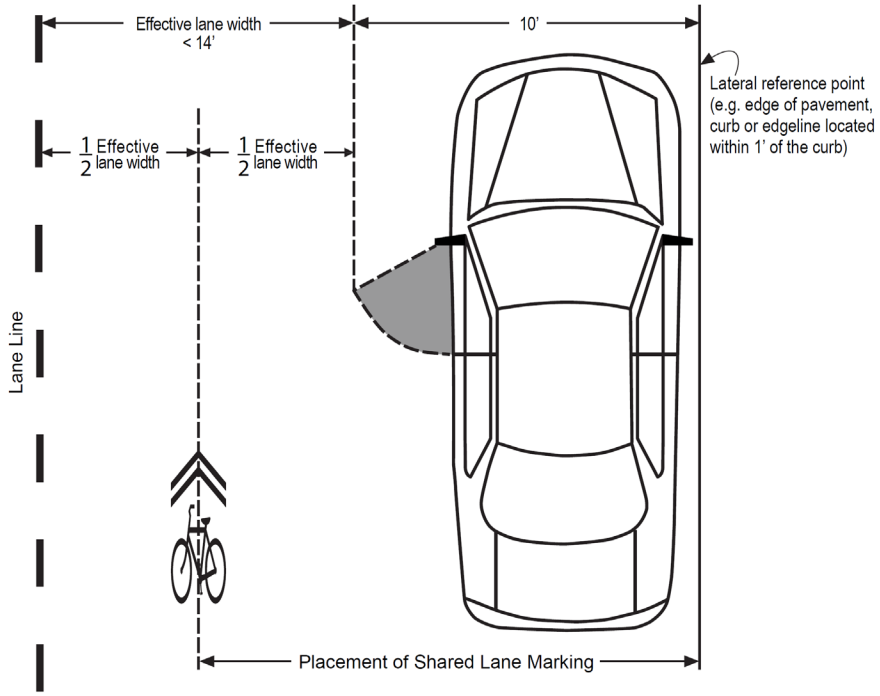


Figure 9E-106(CA). Example of Placement of Shared Lane Markings

A. Shared Lane Marking When Effective Lane Width ≥ 14'



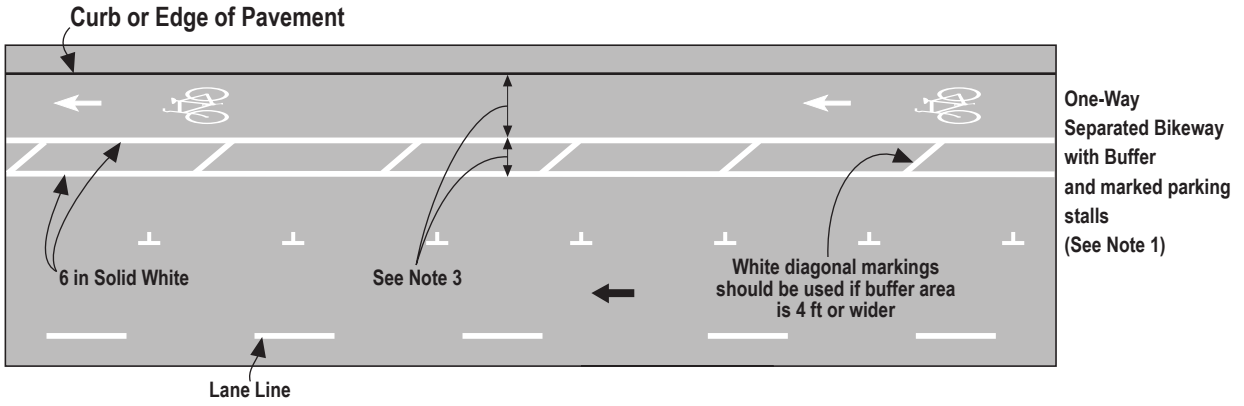
B. Shared Lane Marking When Effective Lane Width < 14'



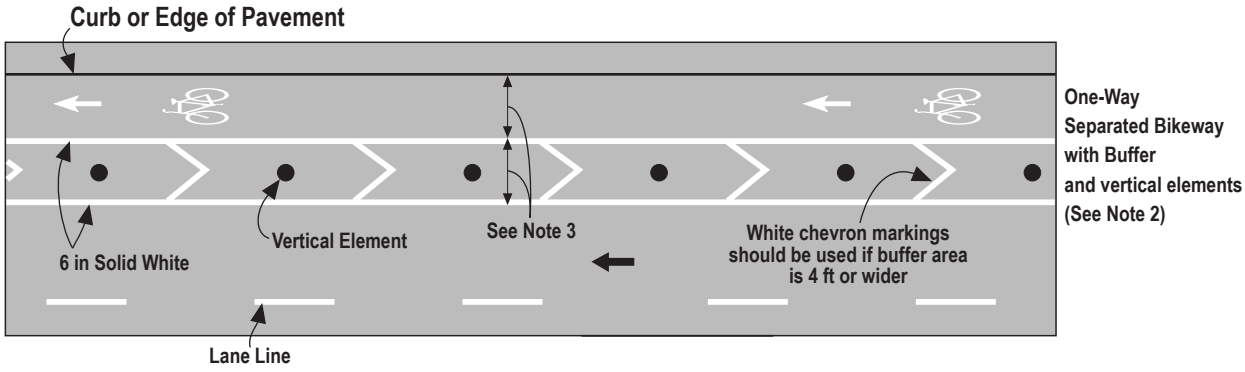
NOT TO SCALE

Figure 9E-106(CA). Examples of Markings for Separated Bikeways (Sheet 1 of 4)

A. One-Way Separated Bikeway With On-Street Parking



B. One-Way Separated Bikeway On Street With No Parking



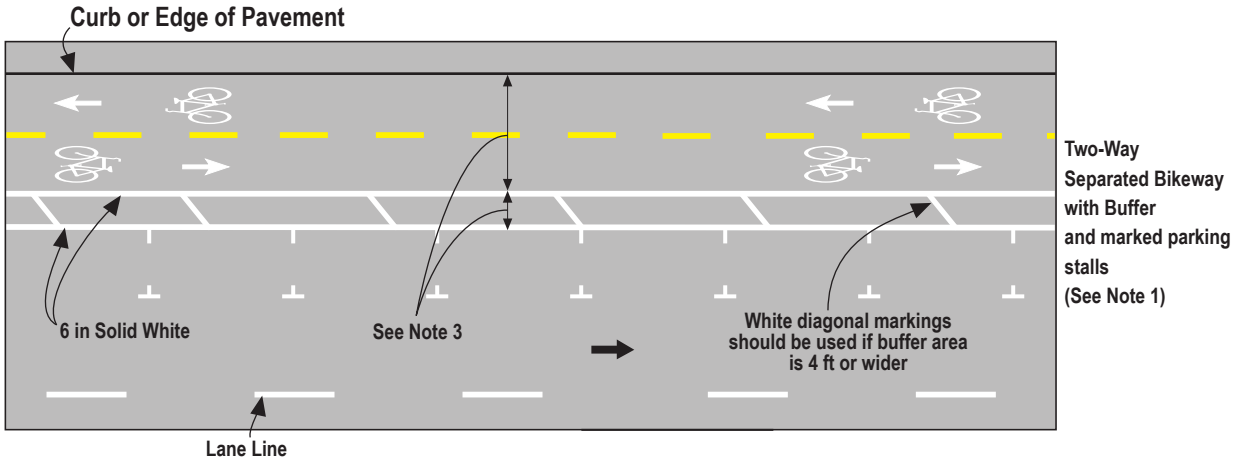
NOT TO SCALE

NOTES:

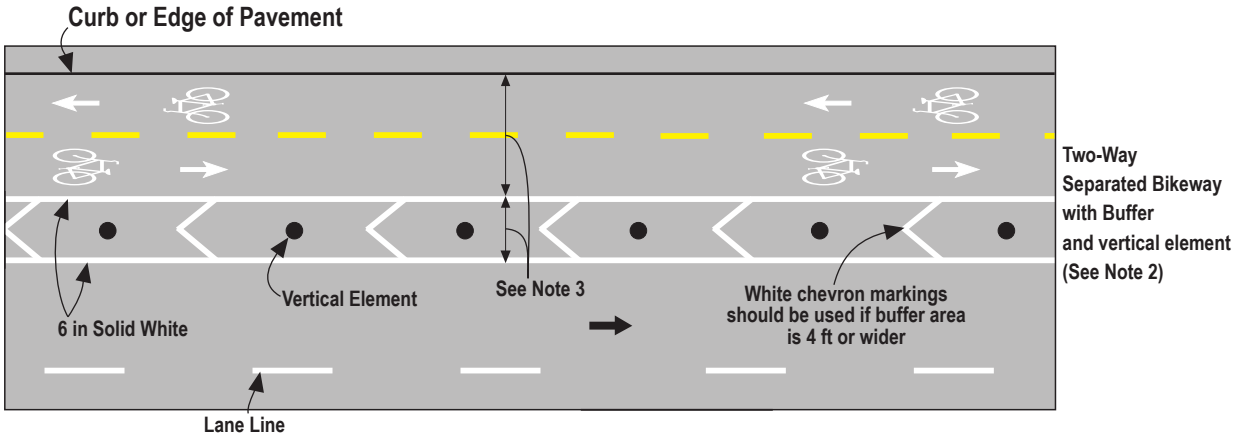
1. **See Figure 3B-23 for examples of parking space markings.**
2. **Vertical elements in the buffer are an important separation feature of the Separated Bikeway. These may include grade separation, flexible posts, inflexible physical barriers, or on-street parking. See DIB 89 for more information.**
3. **See DIB 89 for separated bikeway width and buffer width.**

Figure 9E-106(CA). Examples of Markings for Separated Bikeways (Sheet 2 of 4)

C. Two-Way Separated Bikeway With On-Street Parking



D. Two-Way Separated Bikeway With No Parking

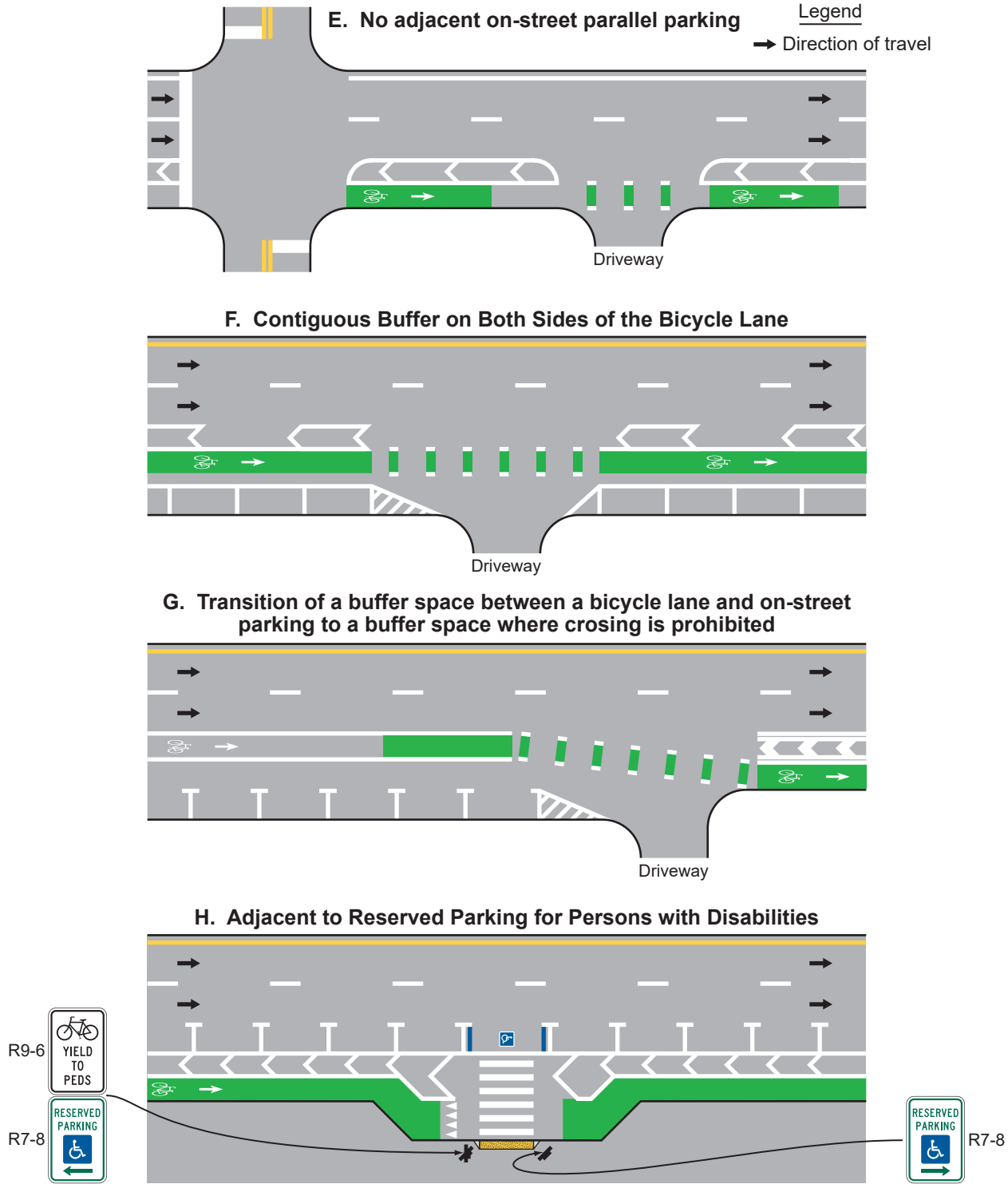


NOT TO SCALE

NOTES:

1. **See Figure 3B-23 for examples of parking space markings.**
2. **Vertical elements in the buffer are an important separation feature of the Separated Bikeway. These may include grade separation, flexible posts, inflexible physical barriers, or on-street parking. See DIB 89 for more information.**
3. **See DIB 89 for separated bikeway width and buffer width.**

Figure 9E-106(CA). Examples of Markings for Separated Bikeways (Sheet 3 of 4)

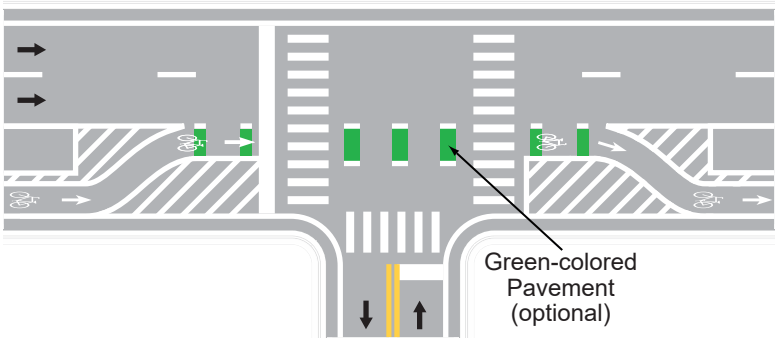


NOTES:

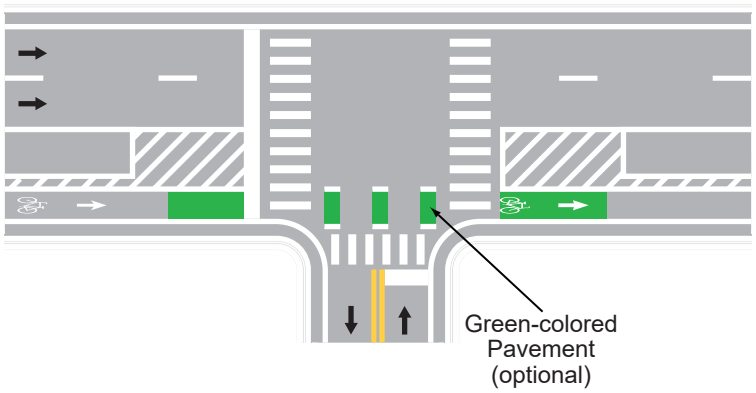
1. **See Figure 3B-23 for examples of parking space markings.**
2. **Vertical elements in the buffer are an important separation feature of the Separated Bikeway. These may include grade separation, flexible posts, inflexible physical barriers, or on-street parking. See DIB 89 for more information.**
3. **See DIB 89 for separated bikeway width and buffer width.**
4. **Optional green-colored pavement shown.**
5. **See DIB 82 for ADA requirements.**

Figure 9E-106(CA). Examples of Markings for Separated Bikeways (Sheet 4 of 4)

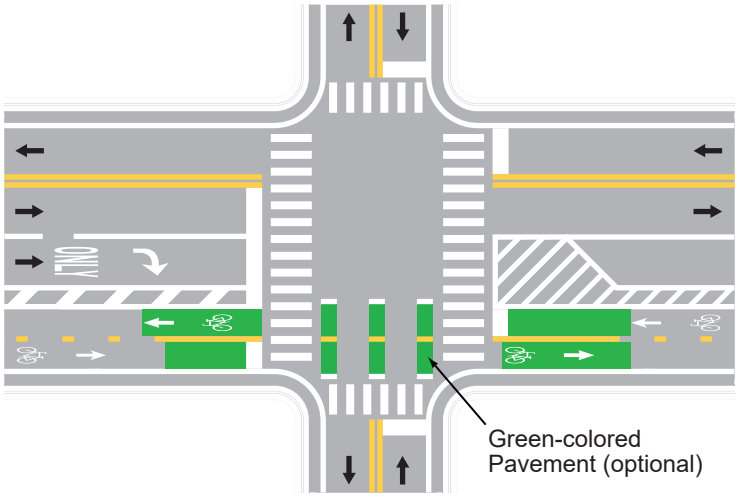
I. Separated Bicycle Lane Shift Away from Curb



J. Separated Bicycle Lane at Intersection



K. Separated Two-Way Bicycle Lane at Intersection



NOTES:

1. **See Figure 3B-23 for examples of parking space markings.**

2. **Vertical elements in the buffer are an important separation feature of the Separated Bikeway. These may include grade separation, flexible posts, inflexible physical barriers, or on-street parking. See DIB 89 for more information.**

3. **See DIB 89 for separated bikeway width and buffer width.**

Figure 9E-107(CA). Example of Intersection Pavement Markings and Signs— Bicycle Traveling Straight From Left Turn and Right Turn Only Lanes - One Way

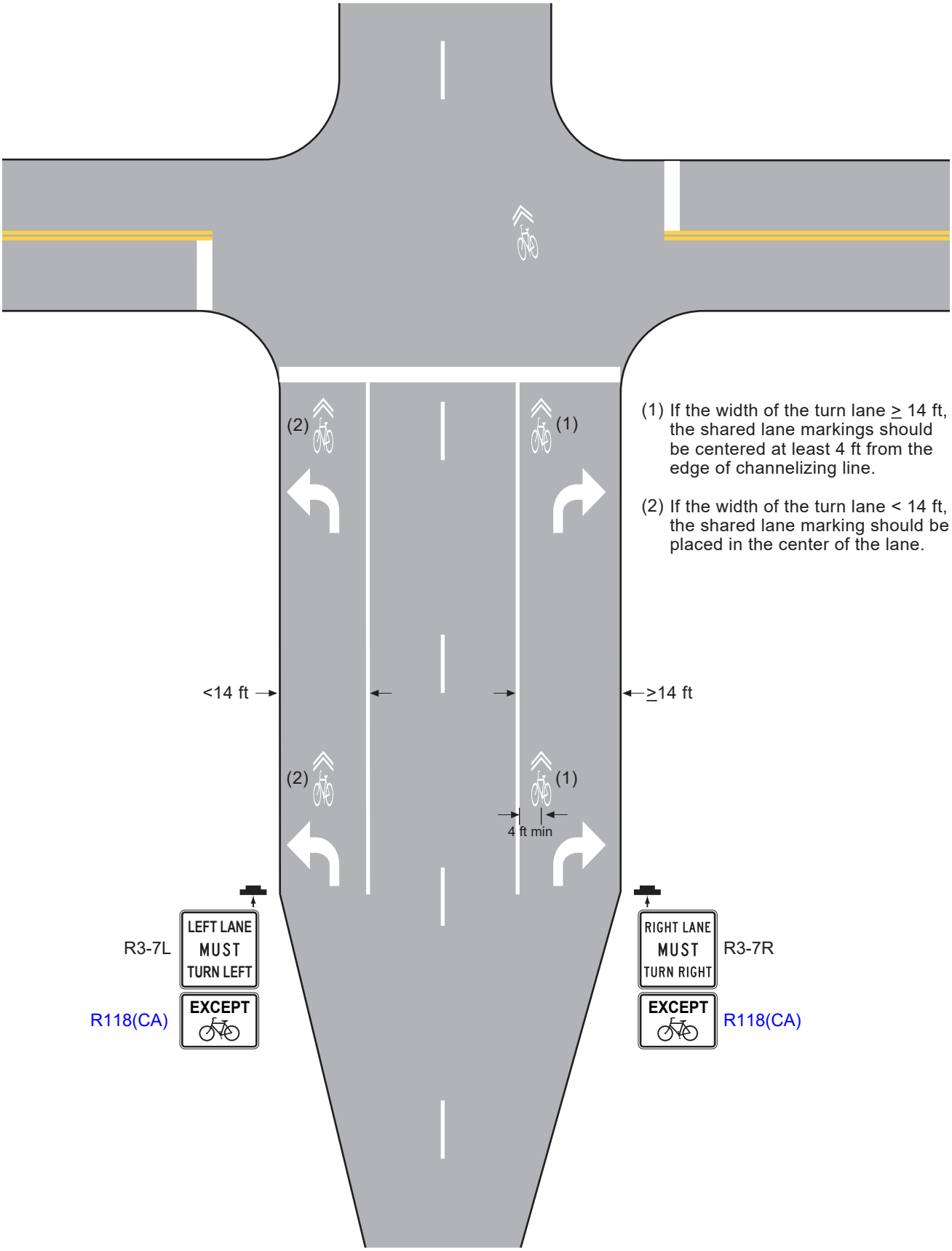


Figure 9E-108(CA). Example of Intersection Pavement Markings and Signs—Bicycle Traveling Straight From Right Turn Only Lanes

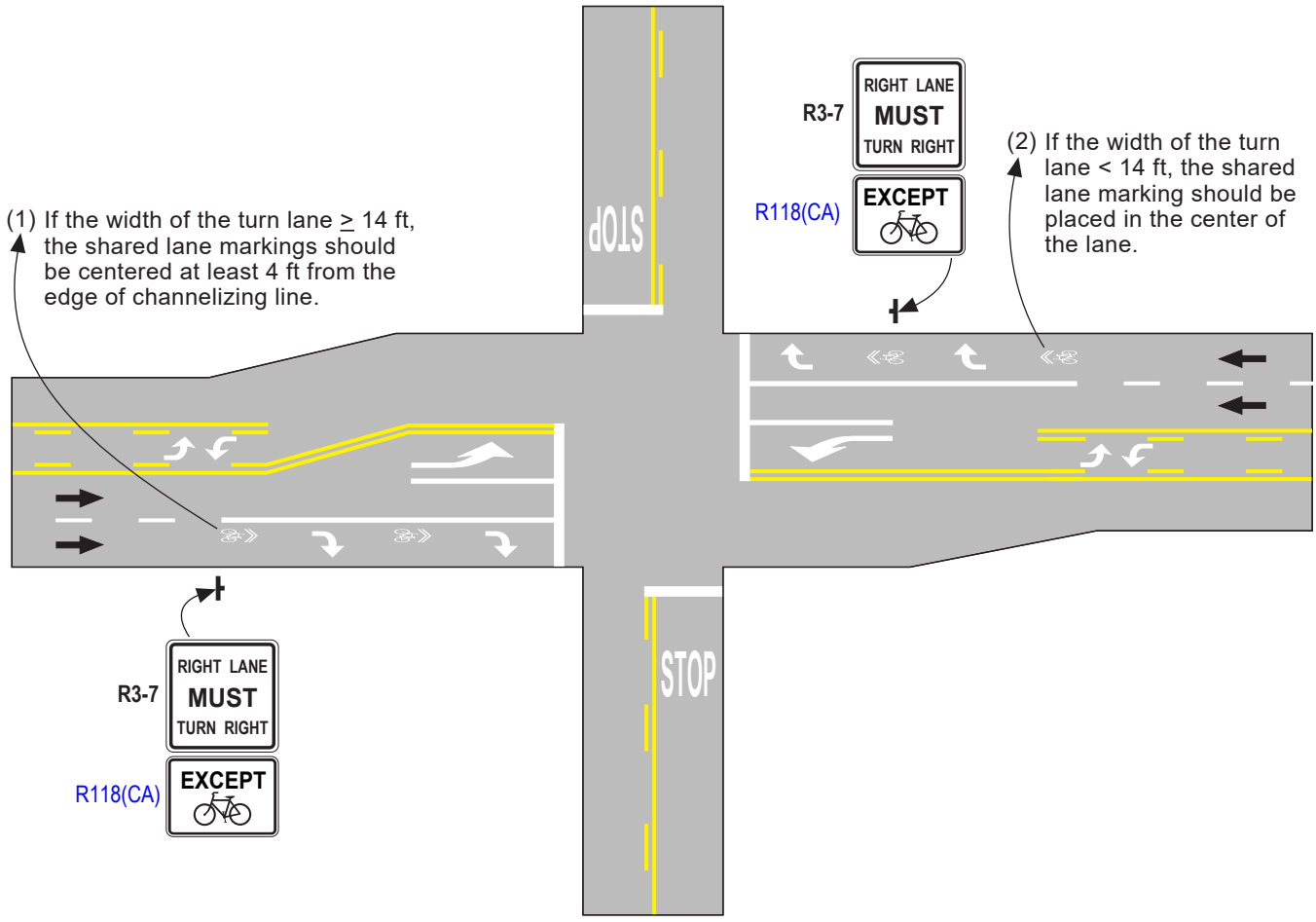


Figure 9E-109(CA). Examples of Optional Green-Colored Pavement Applications