

Road Shoulder Hazards along  
Flintridge– January 2015

Hazards on road shoulders, that could pose a risk to cyclists, were identified in January 2015 by volunteers from Bike The Woodlands Coalition.

The interpretation of what constitutes a serious hazard is subjective, and may vary between volunteers.

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# Definition of hazard types:

1. **Lip:** lip protruding for several feet at least 1 inch above adjacent pavement
2. **Gap:** gap extending for several feet, in which bike tire could fall into
3. **Pothole:** hole that should be filled
4. **Rough area:** excessively rough area the should be fixed
5. **Maintenance:** not a danger to cyclists but something the county might want to be aware of
6. **Other:** items that don't fall into the above

# Severity ratings

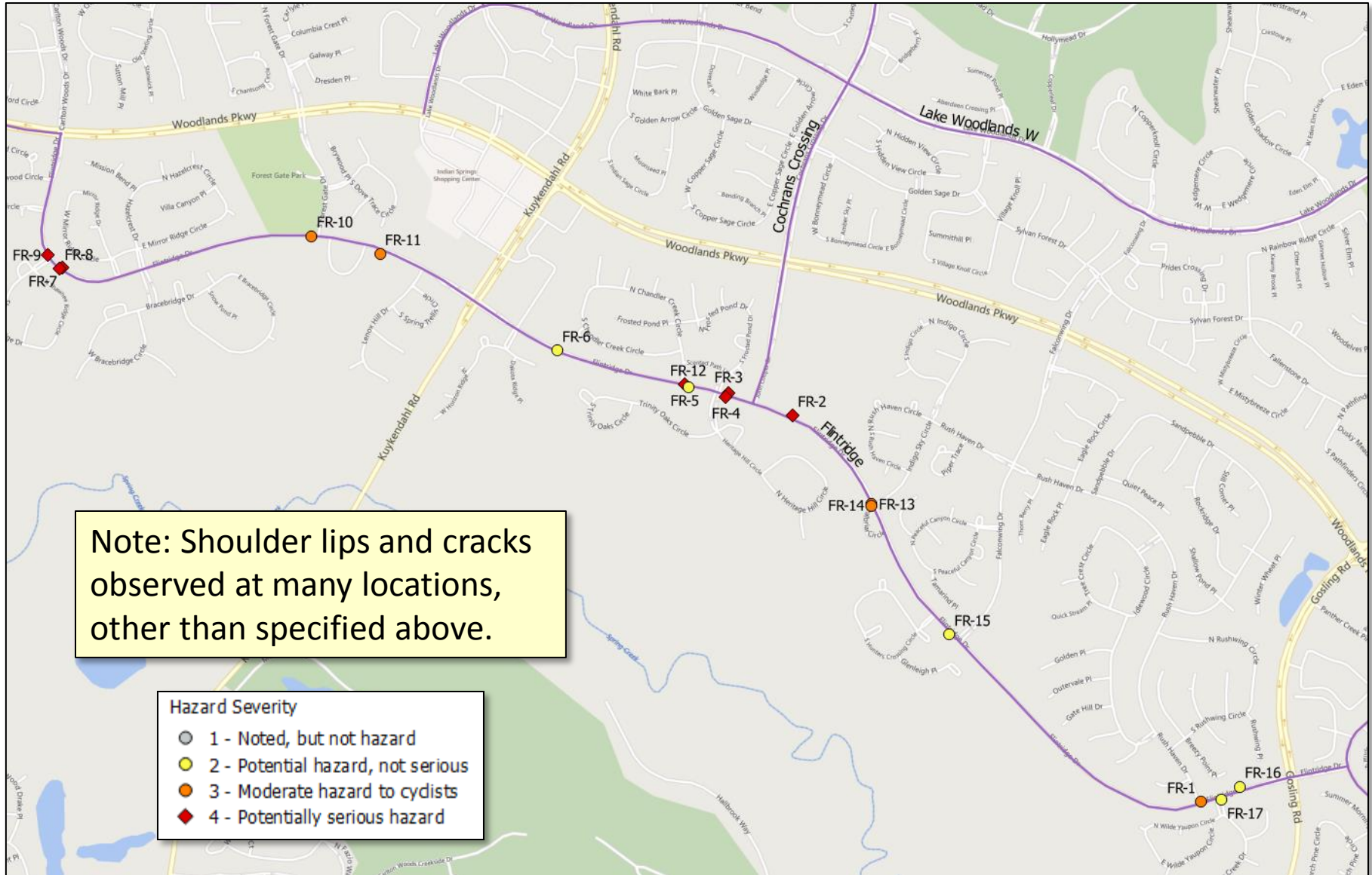
- **Level 4** - A serious and immediate danger to cyclists
- **Level 3** - Should be fixed soon; could be a danger
- **Level 2** - Potential hazard to note, but not very serious
- **Level 1** - Not hazard to cyclists, but something that the county might want to be aware of

## Hazards by road

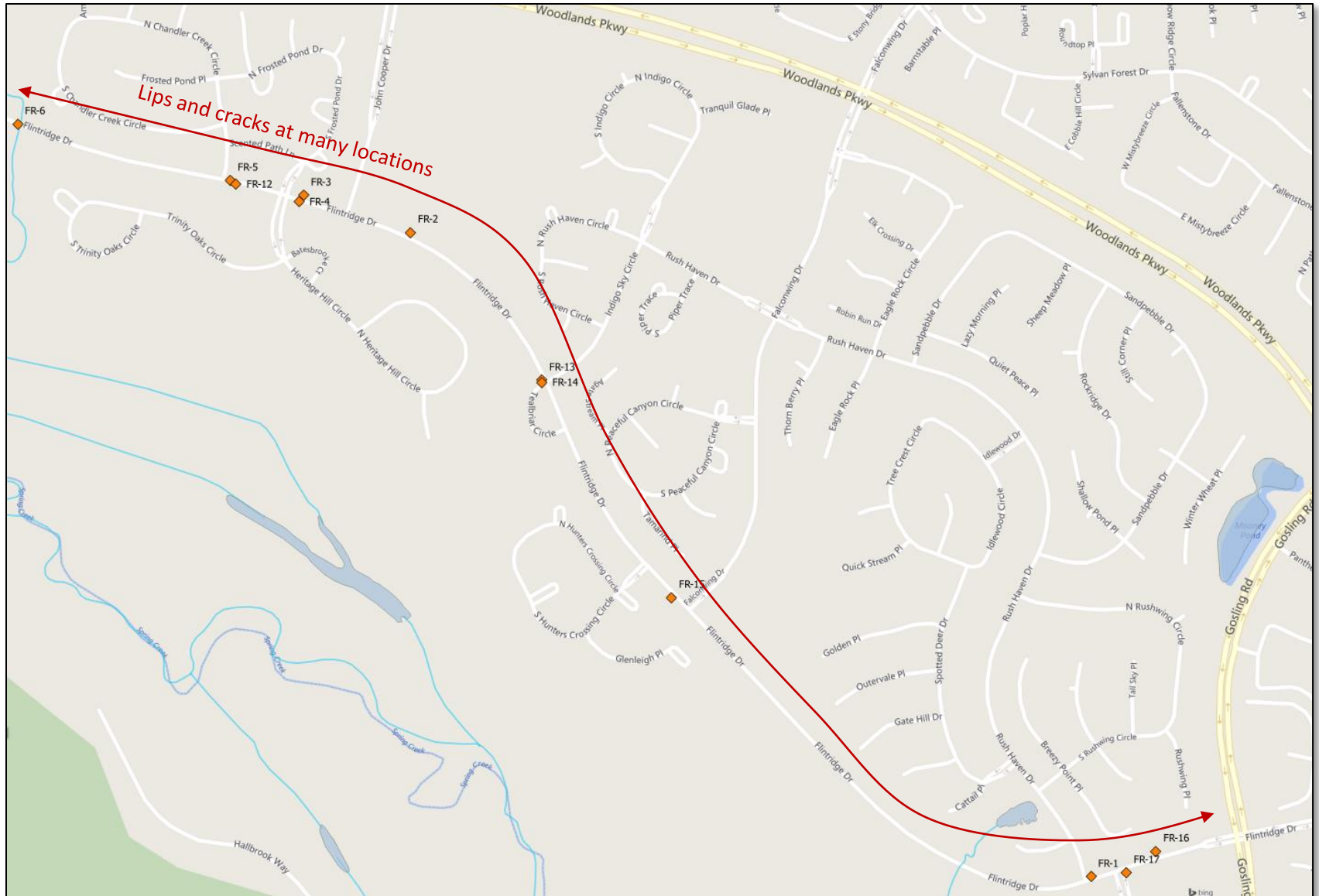
	Distance, mi	Hazard level:				Total
		1	2	3	4	
Branch Crossing	3.51	1	5	4	1	11
Cochrans Crossing	3.26		2	9	8	19
Flintridge	3.46		5	5	7	17
Lake Woodlands	6.08	8	7	18	6	39
North Panther Creek	1.25		1	3	4	8
Shadowbend	1.86	1	24	12	6	43
Shadowbend pathway	2.61		12	1		13
Sterling Ridge	1.86		3			3
Terramount	2.31		1	2		3
West Panther Creek	0.98			12	1	13
Woodlands Parkway (West)	2.61		7			7
Woodlands Parkway pathway	0.94		1	2	1	4
	<b>30.73</b>	<b>10</b>	<b>68</b>	<b>68</b>	<b>34</b>	<b>180</b>

Distance is distance surveyed.

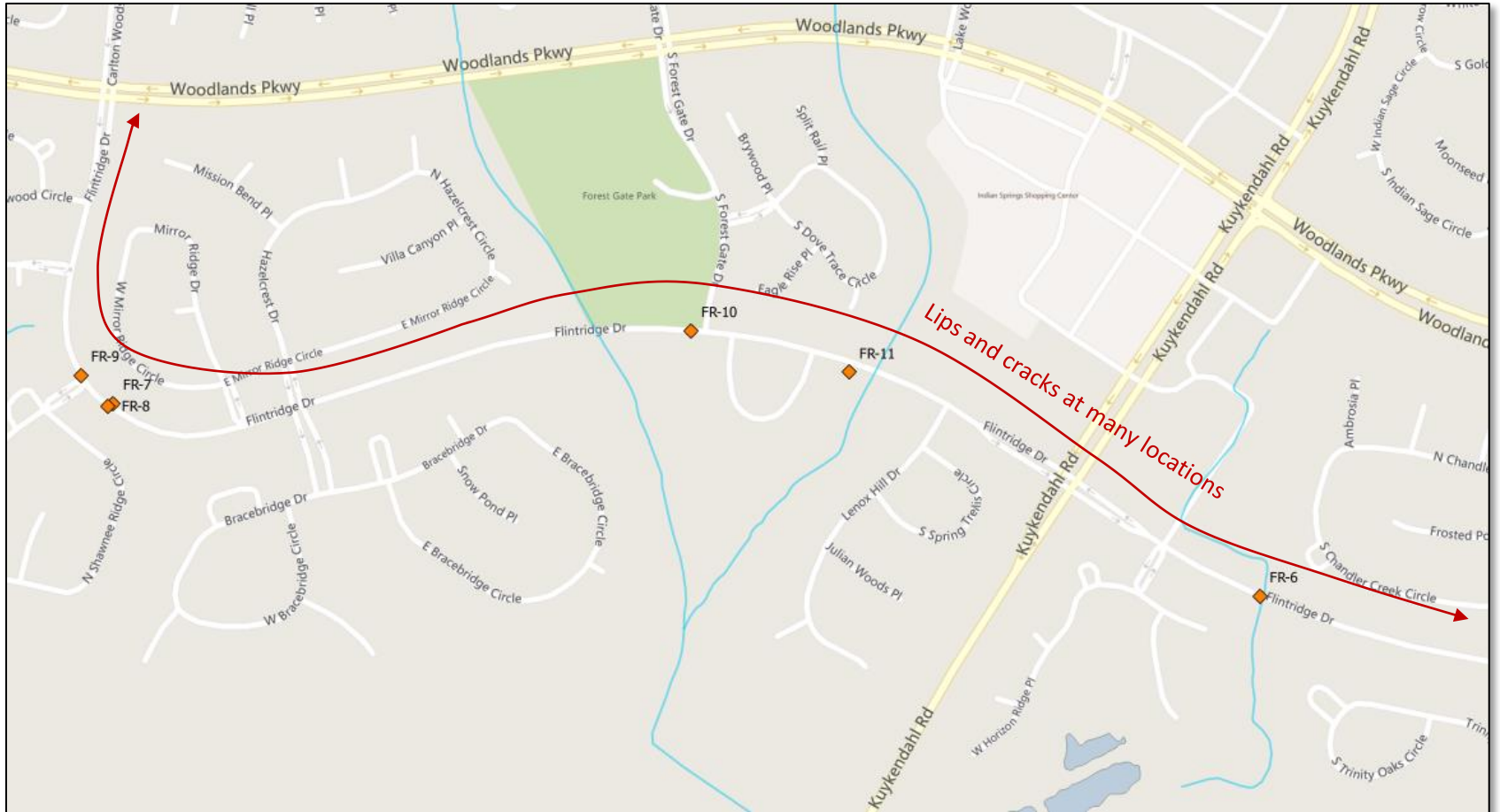
# Flintridge Hazard Locations



# Branch Crossing and Terramont Hazard Locations Locations on Flintridge



# Locations on Flintridge





Location FR 1  
Flintridge  
Eastbound

Hazard Type: Rough area    12" cracked and uneven shoulder section  
Severity: 3



IMG\_2029

Location FR 2  
Flintridge  
Eastbound and Westbound

Hazard Type: Lip and Crack  
Severity: 4

east and west bound from Gosling to Lake Woodlands. The shoulder has dropped below the height of the road by 1-2" and has also separated causing cracks to open up of over 2". The danger comes with the shoulder on being narrower (4') which causes cyclists to ride closer to the road side of the shoulder which increases the risk of the tire either wing caught in the crack or hitting the lip and causing the cyclist to fall. When the shoulders are wider (8'), the cyclists is more prone to ride in the middle of the shoulder and less likely to hit the cracks or road lips. The photos attached are examples of the cracks and lips along Flintridge. These cracks and lips are especially dangerous to the cyclist when the need arises to avoid a curb jut out and move to the road.



IMG\_2030

The next 3 slides have additional photos of this problem.

Location FR 7  
Flintridge  
Eastbound and Westbound

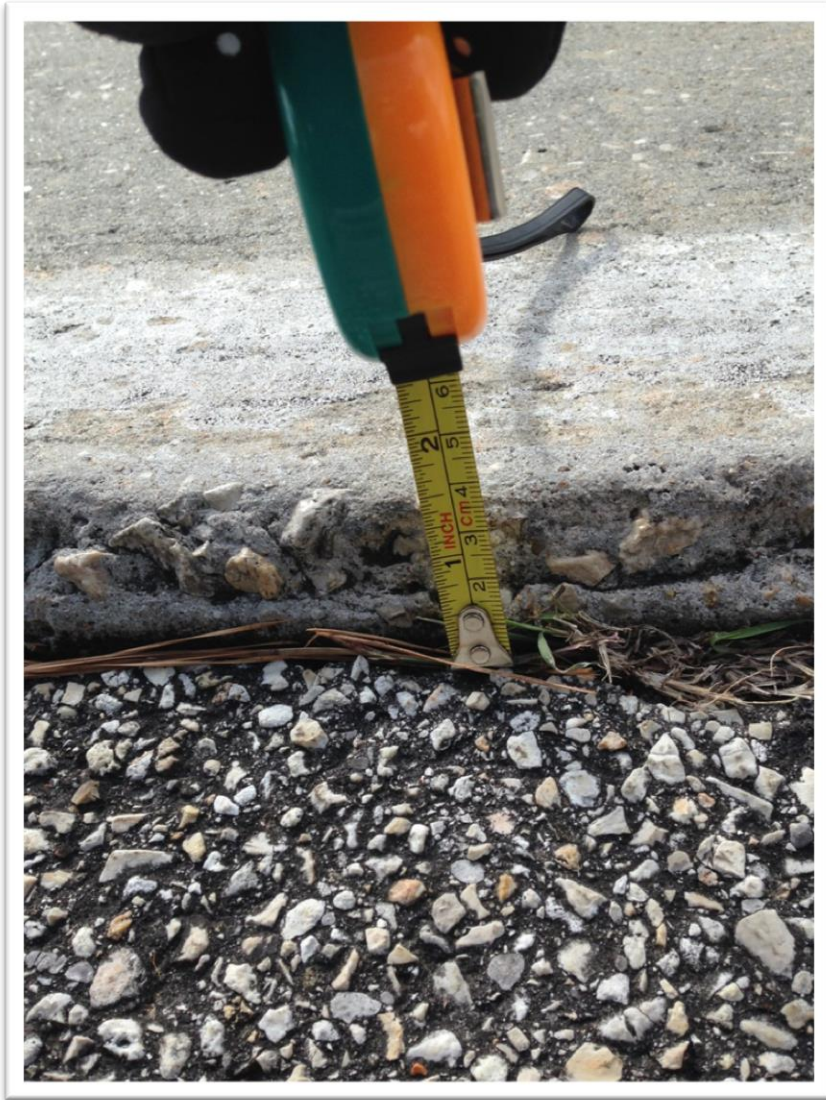
Hazard Type: Lip and Crack  
Severity: 4



IMG\_2036

Location FR 8  
Flintridge  
Eastbound and Westbound

Hazard Type: Lip and Crack  
Severity: 4



IMG\_2037

Location FR 9  
Flintridge  
Eastbound and Westbound

Hazard Type: Lip and Crack  
Severity: 4



IMG\_2049

Location FR 3  
Flintridge  
Eastbound

Hazard Type: Other  
Severity: 4

what is normally a 4 foot shoulder has been  
cut in half by over 2 feet of overgrown  
weeds/grass/sand

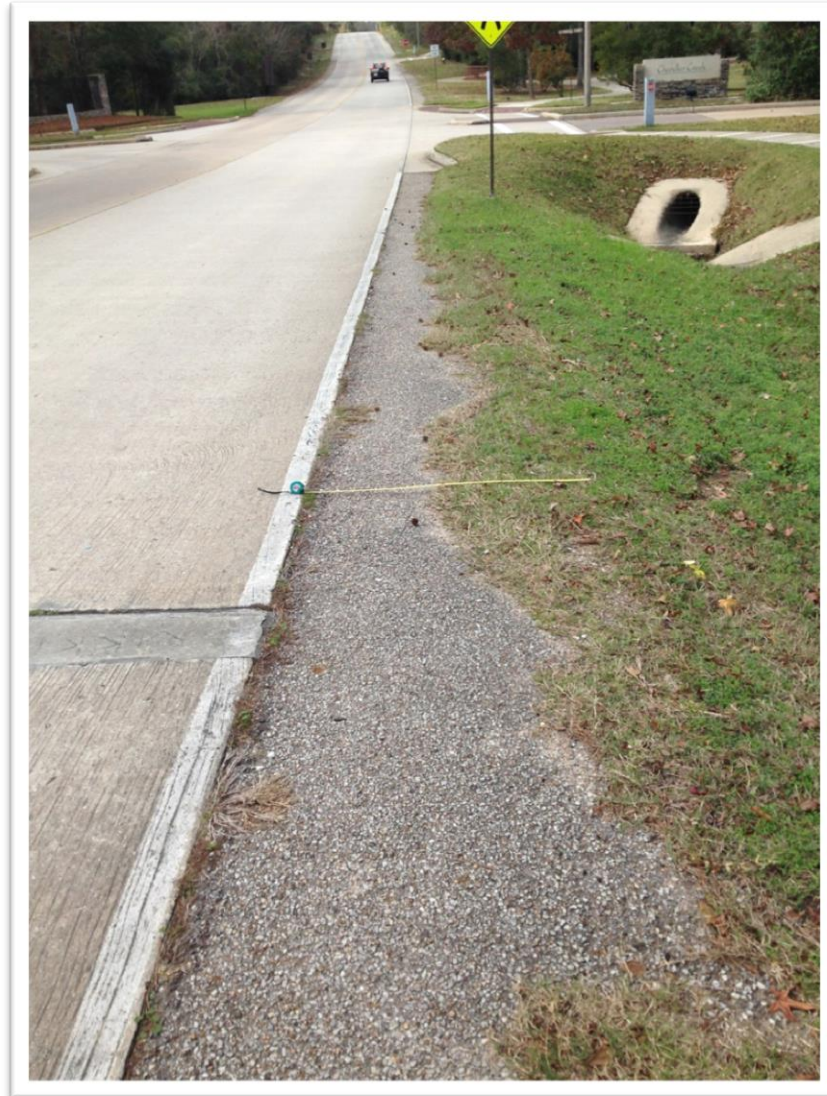


IMG\_2031

Location FR 4  
Flintridge  
Eastbound

Hazard Type: Other  
Severity: 4

what is normally a 4 foot shoulder has been  
cut in half by over 2 feet of overgrown  
weeds/grass/sand



IMG\_2033

Location FR 5  
Flintridge  
Eastbound

Hazard Type: Other  
Severity: 4

what is normally a 4 foot shoulder has been  
cut in half by over 2 feet of overgrown  
weeds/grass/sand



IMG\_2034



Location FR 6  
Flintridge  
Eastbound

Hazard Type: Other  
Severity: 2

East - several tree branches protrude into shoulder which can hit a cyclist while riding on the shoulder causing the cyclist to fall or get scratched/poked by branches.

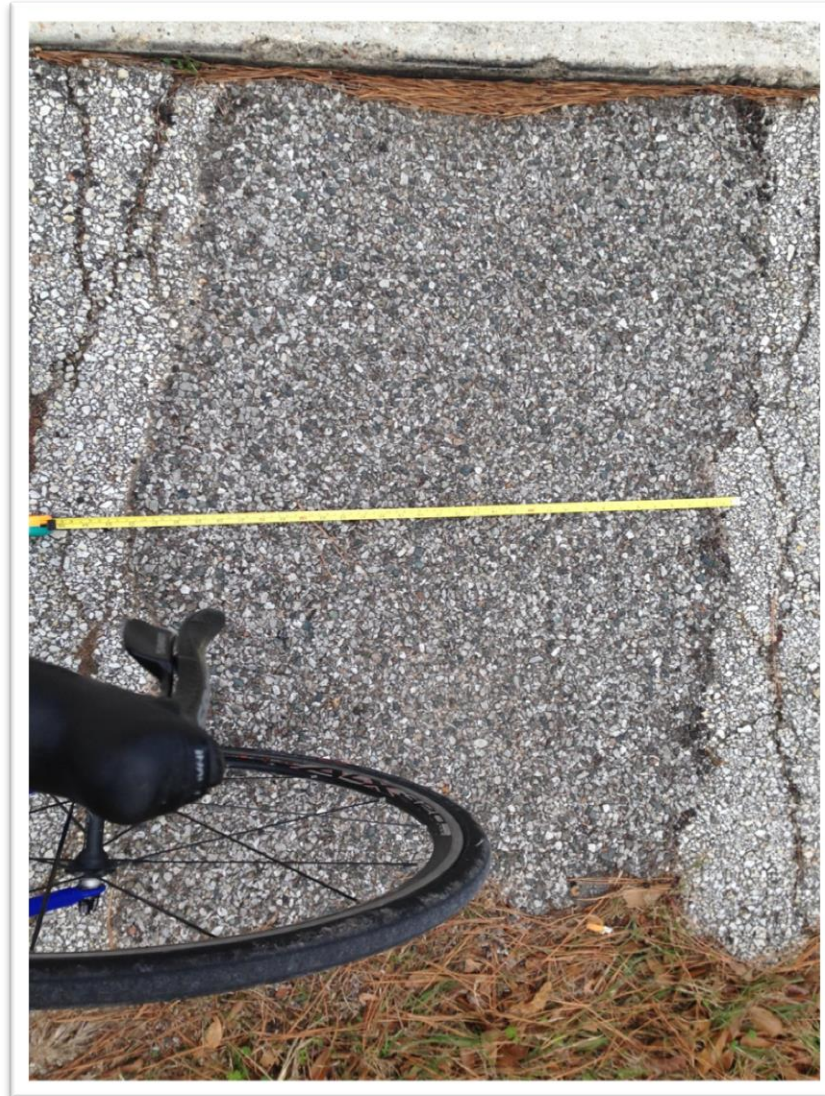


IMG\_2035

Location FR 10  
Flintridge  
Westbound

Hazard Type: Rough area  
Severity: 3

rough shoulder and big dip in road. Also notice the large lip between the shoulder and road.

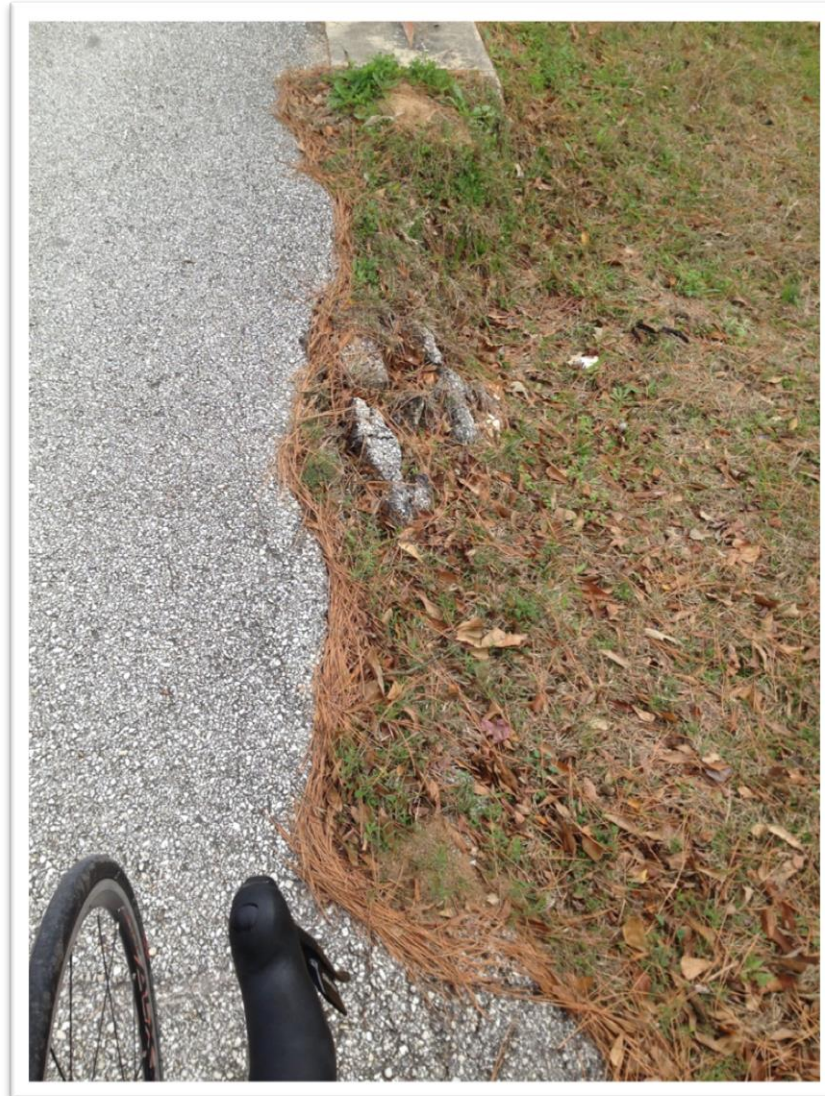


IMG\_2050

Location FR 11  
Flintridge  
Westbound

Hazard Type: Pothole  
Severity: 3

2 feet of shoulder has eroded into the side of  
the raven, reducing the overall width of the  
shoulder in half.



IMG\_2051

Location FR 12  
Flintridge  
Westbound

Hazard Type: Rough area  
Severity: 2

cracked rough shoulder 2 feet across (half of  
shoulder damaged)



IMG\_2052

Location FR 13  
Flintridge  
Westbound

Hazard Type: Lip and Crack 2 feet of shoulder hits 2" lip with front tire  
Severity: 3 going west bound



IMG\_2055

Location FR 14  
Flintridge  
Westbound

Hazard Type: Lip and Crack 2 feet of shoulder hits 2" lip with front tire  
Severity: 3 going west bound

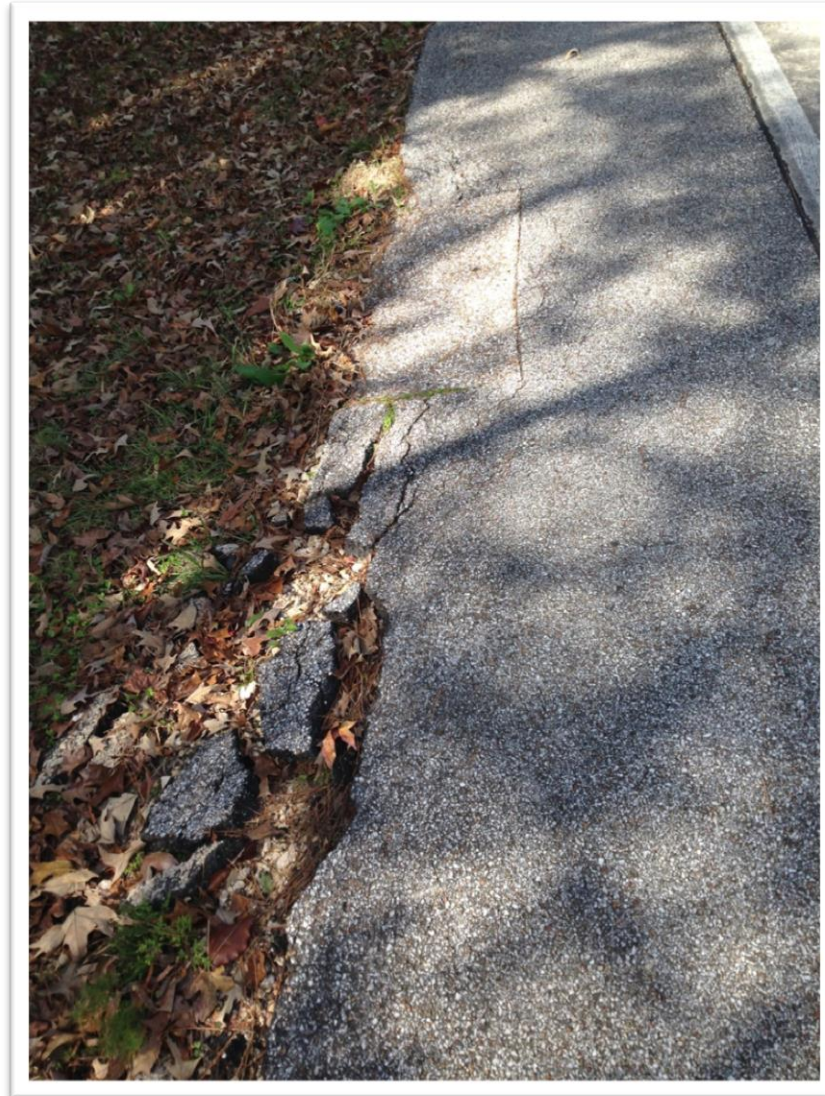


IMG\_2056

Location FR 15  
Flintridge  
Westbound

Hazard Type: Crack and Rough area  
Severity: 2

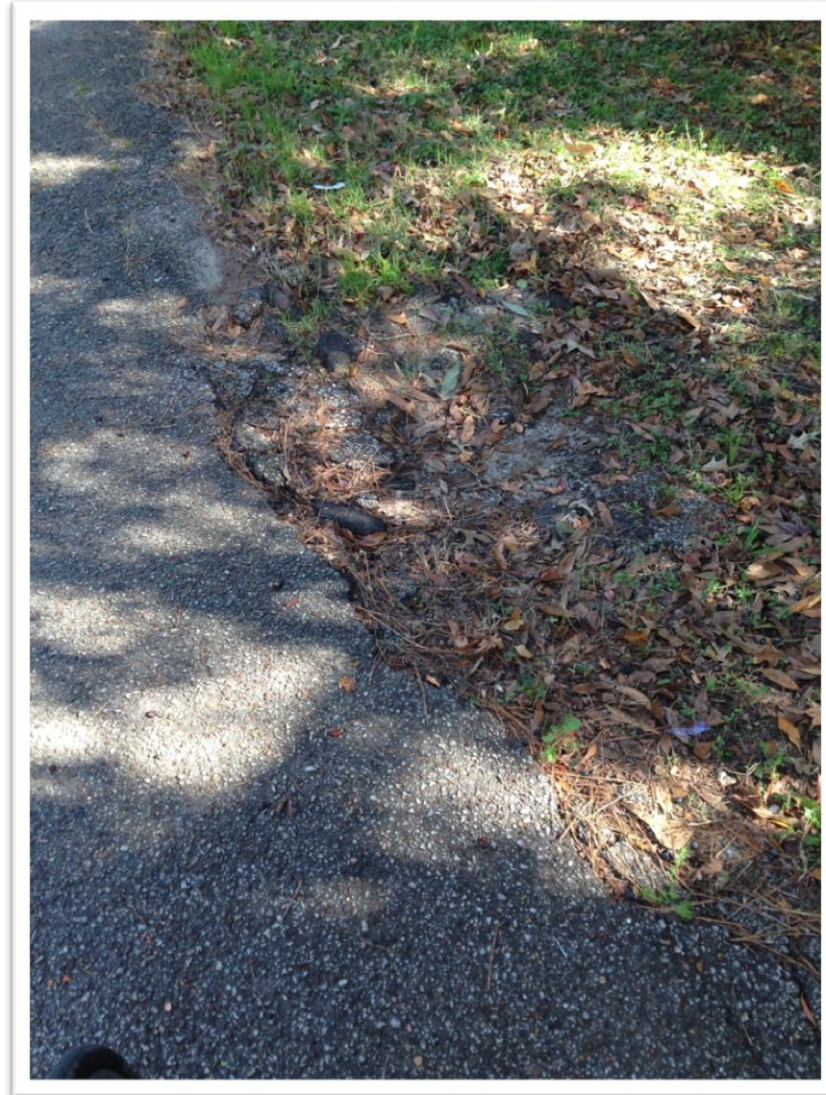
Right side of shoulder is eroding into the  
raven and crumbling apart



IMG\_2057

Location FR 16  
Flintridge  
Westbound

Hazard Type: Rough area    Rough pavement  
Severity: 2



IMG\_2058



Location FR 17  
Flintridge  
Westbound

Hazard Type: Rough area    rough pavement  
Severity: 2



IMG\_2059