



# Oregon Department of Transportation

## Left Turn Signal Phasing Investigation

Traffic-Roadway Section  
Traffic Engineering Unit  
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### General Information

Project Name: \_\_\_\_\_ EA: \_\_\_\_\_  
 Highway Name: \_\_\_\_\_ Route No.: \_\_\_\_\_  
 Highway Number: \_\_\_\_\_ Milepoint: \_\_\_\_\_ County: \_\_\_\_\_  
 Minor Street: \_\_\_\_\_ City: \_\_\_\_\_  
 District: \_\_\_\_\_

### Investigation Information

Investigator: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by \_\_\_\_\_ Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

1.) New signal: \_\_\_\_\_ Existing signal: \_\_\_\_\_  
 a.) Basis for Signal Approval: \_\_\_\_\_  
 b.) Plans to improve/modify intersection:  YES NO

2.) Existing phases<sup>3</sup>: \_\_\_\_\_ Investigated phases: \_\_\_\_\_  

1	2	3	4	Ped 2	Ped 4	1	3
5	6	7	8	Ped 6	Ped 8	5	7

3.) Signal is located in a traffic signal system: YES NO  
 a.) If yes, lead/lag phasing existing: YES NO  
 If no, location of closest signals: \_\_\_\_\_  
 If no, location of signals proposed in TSP: \_\_\_\_\_  
 b.) Pending developments in area\*: YES NO

4.) Traffic volumes meet minimum left-turn criteria<sup>1</sup>: YES NO  
 a.) If no, will traffic volumes meet minimum criteria within 5 years<sup>1</sup>: YES NO

6.) Crashes at intersection last three years<sup>2</sup>:

Year	Total crashes	Left turn crashes for investigated phase			
		Ø 1	Ø 3	Ø 5	Ø 7

a.) Nearby accesses/intersections with relevant left turn crash history\*: YES NO  
 b.) Top 10% SPIS site:  YES NO Year: \_\_\_\_\_

7.) Intersection geometry<sup>3</sup>:  
 4-leg intersection \_\_\_\_\_ Interchange ramp \_\_\_\_\_  
 T-intersection \_\_\_\_\_ Other \_\_\_\_\_  
 a.) Geometry is appropriate for PPLT phasing: YES NO

8.) Number of opposing through lanes: 1 2 3+  
 9.) Multiple left turn lanes: YES NO  
 10.) U-turns permitted: YES NO  
 11.) Opposing left turn: YES NO  
 a.) Prohibited YES NO  
 b.) Exists YES NO

12.) Major street posted speed limit: \_\_\_\_\_ MPH  
 13.) Minor street posted speed limit: \_\_\_\_\_ MPH  
 14.) Sight distance to oncoming traffic (ft):  
 • Phase 1 \_\_\_\_\_ • Phase 3 \_\_\_\_\_  
 • Phase 5 \_\_\_\_\_ • Phase 7 \_\_\_\_\_

15.) Pedestrian concerns\*: YES NO  
 16.) School Crossing: YES NO  
 17.) Railroad Preemption: YES NO

**Comments:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<sup>1</sup> See attached volume analysis

<sup>2</sup> See attached accident analysis and PRC

<sup>3</sup> See attached T.M.S. DWG, V-file, sketch, or pictures

\*If answer is yes, please provide details in comment area

Reference: [ODOT Traffic Signal Policy and Guidelines, November 2013](#)