## VDOT

## Traffic Signal Photo Enforcement Engineering Analysis Template

Local Jurisdi	ction:			VDOT District:			
		(Coun	ty/City/Town)				
Intersection:							
inconsecution.	Str	reet Name (Ro	ute #) at Street Name	(Route #)			
Intersection	annroachas :	under cons	ideration for pho	to anforcement	•		
intersection a	approaches	under cons	ideration for pho	to emorcement	•		
This Study n	arformed u	ndar tha dir	action of				
Tills Study p	criorinca ui	idel the dh	ection of	professional engine	er)		
under consid				information of	n all approaches not just those		
	al Visibility	•	cement)				
_	•		nce to Signal				
	Approach		Speed Limit (mph)	Measure (ft)	Required (ft)*		
_							
L	ale						
	*See attached	table of min	imum sight distance	requirements from	m the MUTCD.		
b.	Are "SIGN	NAL AHEA	D" signs present	t? Yes	s No		
			AD" signs needed				
			_	-	intersection? Yes No		
	Explain:						
c <u>.</u>	Informatio	n on Signal	l Heads				
		<b>T</b> G:	Lens Type	Back Plates			
_	Approach	Lens Size	(LED or Bulb)	(Yes or No)			
<u>L</u>							
	ment and M						
a.			ondition? TY				
	Explain:						
b.	Lane lines	-					
	Explain:						

d. Pavement conditions (ruts, potholes, cracking, etc.)?    Good   Explain:		clearly" marked?
Yes Explain:  No  Provide scaled diagram of intersection including: pavement markings, width of lanes	☐ Good ☐ Fair	nditions (ruts, potholes, cracking, etc.)?  Explain:  Explain:
Provide scaled diagram of intersection including: pavement markings, width of lanes		rface treatments exist? (rumble strips, texturing, pavers, etc.)  Explain:
	☐ No	
N		$\widehat{\uparrow}$
		$oldsymbol{N}$

## **B. SIGNAL TIMING & TRAFFIC DATA** (Include information on all approaches not just those under consideration for photo enforcement)

-	_		_	_
-1	•	learanc	a Inta	*** 7 O O
		леаганс	еше	I VAIS

	Posted		Width of	Yellow	Yellow Interval		All Red Interval		
Approach	Speed Limit	Grade	Intersection	Existing	Calculated*	Existing	Calculated*		

<sup>\*</sup>Reference ITE Guidelines for Determining Traffic Signal Change & Clearance Intervals dated April 2020

i F S	nclude appliorotected-per settings, offso whether signa	cable settings s missive, lead-lets, cycle lengtl	uch as rag, yellon, etc. I	ninimum green, max 1 & ow and all red, walk and pnclude analysis of peak he	ime-of-day. Information should 2, passage, minimum gap/ext, ed clearance time, recall our conditions and discuss pordination, etc) are contributing
8			_	or in as a possible contrib	utor to RLR at this intersection?
		No Expla	in:		
ł	. List com	ments or recom	mendati	ions on potential signal tir	ning or phasing changes:
3.	Vehicle Dete	ection Data			
	Approach and Movement	Detection T		Detector Location (measured from stop bar)	

4. 48-Hour Traffic Volume & Classification Data (Concurrent with 12- hour violation survey)

Approach	Da	ily Volumes	Peak Hour Volumes		
and Movement	Total	Heavy Vehicles	Total	Heavy Vehicles	

February 19, 2008 Revised August 26, 2009 Revised Jan. 30, 2013 Revised June 18,2020

**C. CRASH & ENFORCEMENT DATA** (Include information on all approaches not just those under consideration for photo enforcement)

1. Most Recent Three-Year Crash Data

4.

Collision Type	3-year Total	Number of Injury Crashes	Number of Fatal Crashes	Crashes Associated With Red-Light-Running
Angle				
Rear End				
Head On				
Sideswipe				
Pedestrian				
Bicyclist	•			
TOTAL	•			

	Pe	destrian							
	В	icyclist							
		TOTAL							
2. 0		Rate Number of o	crashes per m	nillion enter	ring vehicles:				
	b.	Locality rat	e for compari	ison (if ava	ilable):				
3. V	<b>a.</b> ]	evaluated in	red light runn tersection, if	available.	ns per year issu	ied by la	w enforce	ment at th	ne
	b.1	Date:	erved violation	-	ducted concur	rently w	ith traffic	count sur	vey)
		Approach and Movement		me Numbe	r of Violations				
						-			
		*per 1000 veh	icles			_			
forc	emei	nt and Oper	ational Issues	S					
		Describe the		experienced	l by law enfor	cement o	officers in	patrol car	s or on
	b.		he ability of l		ement officers tion.	to apprel	nend viola	tors safel	y withii
		Are pedestr				Yes	□No		

Number of pedestrians per hour?  Pedestrian crosswalk provided?  Yes	)		
Have there been any changes to the operation restriping, or increased enforcement) within Explain:		`	

## **Minimum Sight Distance**

85 <sup>th</sup> Percentile Speed	Minimum Sight
(mph)	Distance (ft)
20	175
25	215
30	270
35	325
40	390
45	460
50	540
55	625
60	715

Table 4D-2 Manual on Uniform Traffic Control Devices, (2009 Edition) Transportation Research Board (TRB), Washington, DC, 2003