

**Route 28 Widening - PWC to Route 29
Alternatives Comparison Matrix
Intersection Operations and Travel Times**

Intersection	Existing Conditions		6 - Lanes		No-Build		6 - Lanes		6 - 7 - 8 - Lanes		
	2016		2023		2040		2040		2040		
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Rte 28 / Upperridge Dr / Old Centerville Rd											
Average Intersection Delay	51	100	25	49	42	212	37	79	30	45	
Level of Service (LOS)	D	F	C	D	D	F	D	E	C	D	
Rte 28 / Machen Rd											
Average Intersection Delay	33	104	16	27	31	130	30	27	21	26	
Level of Service (LOS)	C	F	B	C	C	F	C	C	C	C	
Rte 28 / New Braddock Rd											
Average Intersection Delay	94	97	60	39	137	159	107	37	64	51	
Level of Service (LOS)	F	F	E	D	F	F	F	D	E	D	
Rte 28 / Old Mill Rd / Green Trails Blvd											
Average Intersection Delay	22	50	23	32	29	105	34	27	24	20	
Level of Service (LOS)	C	D	C	C	C	F	C	C	C	C	
Rte 28 / Compton Rd / Ordway Rd											
Average Intersection Delay	51	69	40	34	86	62	47	59	39	34	
Level of Service (LOS)	D	E	D	C	F	E	D	E	D	C	
Travel Time (Min:Sec/MPH)	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
Northbound -											
Bull Run Bridge to I-66 On Ramp	(min:sec)	9:41	7:43	6:38	6:24	11:34	11:17	9:46	6:56	7:13	6:19
	(mph)	19.4	24.3	28.3	29.3	16.2	16.6	19.2	27.0	26.0	29.7
Southbound -											
I-66 On Ramp to Bull Run Bridge	(min:sec)	5:50	13:31	5:00	6:03	5:56	21:06	5:59	6:10	4:56	6:33
	(mph)	31.0	13.4	36.2	29.9	30.5	8.6	30.2	29.3	36.6	27.6

Note: Levels of service and travel times are based on traffic analysis for both existing and proposed conditions and are subject to change as the traffic modeling is finalized.

Level of Service (LOS) is a measure of the relative quality of traffic congestion, based on performance measures such as traffic speed and density.

LOS "A" is free flow of traffic; LOS "F" is a breakdown flow or gridlock