

ASSOCIATED PHASE	DIRECTION	MOVEMENT	TRAFFIC SIGNAL														PEDESTRIAN													
			FACTORS *(TEM 403-2)								CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING		
			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED	Y + R						WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)	TOTAL						P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW						
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	SEC	FT	YES	FT	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC			
1	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	NB	THROUGH/RT	35	1	42	42	10	100	20	-0.25	4.1	0.9	5.0	4.5	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-		
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	SB	THROUGH/RT	40	1	47	47	10	106	20	1.75	4.3	0.8	5.1	4.5	2	6.5	SB	6	70	YES	9	7	20.0	15.5	26.3	27.0	YES	N/A	7	16
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	1	-	-	10	-	20	-	-	-	-	4	3	7.0	WB	8	105	YES	9	7	30.0	26.0	38.0	37.0	NO	1.0	8	26

ASSOCIATED PHASE	DIRECTION	MOVEMENT	TRAFFIC SIGNAL														PEDESTRIAN																		
			FACTORS *(TEM 403-2)								CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING							
			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED	Y + R						WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)					
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)	TOTAL						P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW	X	Y					SEC	SEC	SEC	SEC	
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	SEC	FT	FT	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC									
1	SB LT	LEFT TURN	30	1	25	25	10	94	20	0	2.8	2.1	4.9	3	2	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	NB	2	58	YES	15	7	16.6	12.6	24.3	23.6	NO	0.8	8	13	-	-			
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	-	-	1	-	-	10	-	20	-	-	-	-	3	3	6.0	EB	4	80	YES	14	7	22.9	19.9	31.3	29.9	NO	1.5	9	20	-	-			
5	NB LT	LEFT TURN	30	1	25	25	10	95	20	0.75	2.8	2.1	4.9	3	2	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	SB	6	60	YES	11	7	17.1	13.1	23.7	24.1	YES	N/A	7	14	-	-			
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	1	-	-	10	-	20	-	-	-	-	3	3	6.0	WB	8	80	YES	10	7	22.9	19.9	30.0	29.9	NO	0.1	8	20	-	-			

ASSOCIATED PHASE	DIRECTION	MOVEMENT	TRAFFIC SIGNAL														PEDESTRIAN															
			FACTORS *(TEM 403-2)								CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING				
			POSTED SPEED LIMIT	PERCEPTION/REACTION TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED	Y + R						WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) P=6 IF NO PUSHBUTTON	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)		
				MPH	t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)						TOTAL	P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW	X	Y	SEC	SEC	SEC	SEC	
1	SB LT	LEFT TURN	30	1	25	25	10	98	20	1.75	2.7	2.2	4.9	3	2	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	NB	THROUGH/RT	40	1	47	47	10	71	20	1.75	4.3	0.3	4.6	4.5	2	6.5	NB	2	39	YES	11	7	11.1	6.6	16.7	18.1	YES	N/A	7	7	7	
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	EB	THROUGH/RT	25	1	32	32	10	102	20	-1.25	3.5	1.6	5.1	3.5	2	5.5	EB	4	72	YES	11	7	20.6	17.1	27.7	27.6	NO	0.1	8	18	18	
5	NB LT	LEFT TURN	30	1	25	25	10	86	20	1.75	2.7	1.9	4.6	3	2	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	SB	THROUGH/RT	40	1	47	47	10	64	20	1.75	4.3	0.2	4.5	4.5	2	6.5	SB	6	48	YES	16	7	13.7	9.2	21.3	20.7	NO	0.6	8	10	10	
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	WB	THROUGH/RT	25	1	32	32	10	99	20	-1	3.4	1.5	4.9	3.5	2	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED						Y + R	WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)						TOTAL				P	= 3.5 fps WALK TIME				
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC				
1	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2	-	-	-	1	-	-	10	-	20	-	-	-	-	4.5	2	6.5	NB	2	51	YES	8	7	14.6	10.1	19.7	21.6	YES	N/A	7	11
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	-	-	1	-	-	10	-	20	-	-	-	-	4.5	2	6.5	EB	4	76	YES	10	7	21.7	17.2	28.7	28.7	YES	N/A	7	18
5	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	-	-	-	1	-	-	10	-	20	-	-	-	-	4.5	2	6.5	SB	6	63	YES	11	7	18.0	13.5	24.7	25.0	YES	N/A	7	14
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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			POSTED SPEED LIMIT	PERCEPTION/REACTION TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED	Y + R						WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) P=6 IF NO PUSHBUTTON	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)	TOTAL														
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC				
1	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	NB	2	74	YES	11	7	21.1	17.1	28.3	28.1	NO	0.2	8	18
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	EB	THROUGH/RT	25	1	32	32	10	115	20	-1.5	3.5	1.9	5.4	4	2	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	SB	6	34	YES	9	7	9.7	5.7	14.3	16.7	YES	N/A	7	6
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	WB	THROUGH/RT	35	1	42	42	10	115	20	-1.5	4.2	1.2	5.4	4	2	6.0	WB	8	78	YES	12	7	22.3	18.3	30.0	29.3	NO	0.7	8	19

ASSOCIATED PHASE	DIRECTION	MOVEMENT	TRAFFIC SIGNAL													PEDESTRIAN														
			FACTORS *(TEM 403-2)							CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING			
			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED						Y + R	WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)	TOTAL	P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW	X	Y	SEC	SEC	SEC	SEC					
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	FT	FT	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC				
1	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	NB	2	63	YES	11	7	18.0	14.0	24.7	25.0	YES	N/A	7	14
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	SB	6	59	YES	9	7	16.9	12.9	22.7	23.9	YES	N/A	7	13
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	1	-	-	10	-	20	-	-	-	-	4	2	6.0	WB	8	82	YES	9	7	23.4	19.4	30.3	30.4	YES	N/A	7	20

ASSOCIATED PHASE	DIRECTION	MOVEMENT	TRAFFIC SIGNAL														PEDESTRIAN																		
			FACTORS *(TEM 403-2)								CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING							
			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED	Y + R						WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)					
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)	TOTAL						P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW	X	Y					SEC	SEC			
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	SEC	FT	FT	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC									
1	SB LT	LEFT TURN	30	1	25	25	10	102	20	1.25	2.8	2.3	5.1	3	2.5	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	NB	THROUGH/RT	45	1	52	52	10	106	20	0.25	4.8	0.6	5.4	5	2	7.0	NB	2	68	YES	10	7	19.4	14.4	26.0	26.4	YES	N/A	7	15					
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	-	-	1	-	-	10	-	20	-	-	-	-	3	2	5.0	EB	4	96	YES	13	7	27.4	24.4	36.3	34.4	NO	1.9	9	25					
5	NB LT	LEFT TURN	30	1	25	25	10	98	20	0.25	2.8	2.2	5.0	3	2.5	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	SB	THROUGH/RT	45	1	52	52	10	101	20	1.25	4.7	0.6	5.3	5	2	7.0	SB	6	55	YES	12	7	15.7	10.7	22.3	22.7	YES	N/A	7	11					
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	1	-	-	10	-	20	-	-	-	-	3	2	5.0	WB	8	89	YES	13	7	25.4	22.4	34.0	32.4	NO	1.6	9	23					

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			FACTORS *(TEM 403-2)								CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING		
			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED	Y + R						WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)	TOTAL						P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW	X	Y				
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	SEC	FT	FT	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC			
1	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	NB	THROUGH/RT	45	1	52	52	10	97	20	-0.75	4.9	0.5	5.4	5	2	7.0	NB	2	60	YES	15	7	17.1	12.1	25.0	24.1	NO	0.9	8	13
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	-	-	1	-	-	10	-	20	-	-	-	-	3	3	6.0	EB	4	95	YES	14	7	27.1	24.1	36.3	34.1	NO	2.2	10	25
5	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	SB	THROUGH/RT	45	1	52	52	10	93	20	0.5	4.8	0.5	5.3	5	2	7.0	SB	6	45	YES	10	7	12.9	7.9	18.3	19.9	YES	N/A	7	8
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

ASSOCIATED PHASE	DIRECTION	MOVEMENT	TRAFFIC SIGNAL													PEDESTRIAN																		
			FACTORS *(TEM 403-2)							CALCULATED (TEM 403-2)			FINAL CLEARANCE			PED MOVEMENT	ASSOCIATED PHASE	CROSSWALK LENGTH	PUSHBUTTON PROVIDED	DISTANCE TO PUSHBUTTON FROM CURB (furthest of the two corners)	OMUTCD 4E.06-12	OMUTCD 4E.06-07	3 fps CHECKS (OMUTCD 4E.06, 01-14)				FINAL PED TIMING							
			POSTED SPEED LIMIT	PERCEPTION/REACTIO N TIME (1s TYP)	YELLOW CHANGE APPROACH SPEED*	RED APPROACH SPEED*	DECELERATION RATE (10 fps TYP)	WIDTH OF INTERSECTION*	LENGTH OF VEHICLE (20 ft TYP)	APPROACH GRADE	YELLOW	RED	Y + R	YELLOW	RED						Y + R	WALK INTERVAL (4-7s TYP)	CALCULATED PED CLEARANCE	PED CHANGE INTERVAL (FDW)	(L+P)/(3 fps) (NOTE: P=6 IF NO PUSHBUTTON)	WALK + PED CHANGE INTERVALS + YELLOW	IS Y>=X?	ADDITIONAL WALK INTERVAL REQUIRED	FINAL WALK INTERVAL	FINAL PED CHANGE INTERVAL (FDW)				
				t	V _Y	V _R	a	W	L	g	Y	R	TOTAL	Y (3-6s TYP)	R (1-6s TYP)						TOTAL	P	= 3.5 fps WALK TIME	= 3.5 fps WALK TIME - YELLOW	X	Y					SEC	SEC	SEC	SEC
MPH	SEC	MPH	MPH	FPS	FT	FT	%	SEC	SEC	SEC	SEC	SEC	SEC	FT	FT	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC	SEC								
1	SB LT	LEFT TURN	30	1	25	25	10	145	20	1	2.8	3.5	6.3	3	3.5	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	NB	THROUGH/RT	45	1	52	52	10	115	20	-1.5	5.0	0.8	5.8	5	2	7.0	NB	2	92	YES	10	7	26.3	21.3	34.0	33.3	NO	0.7	8	22				
3	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	NB LT	LEFT TURN	30	1	25	25	10	132	20	-1.5	2.9	3.1	6.0	3	3.5	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	SB	THROUGH/RT	45	1	52	52	10	116	20	1	4.7	0.8	5.5	5	2	7.0	SB	6	73	YES	11	7	20.9	15.9	28.0	27.9	NO	0.1	8	16				
7	-	-	-	1	-	-	10	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	1	-	-	10	-	20	-	-	-	-	4.5	2	6.5	WB	8	109	YES	10	7	31.1	26.6	39.7	38.1	NO	1.5	9	27				

