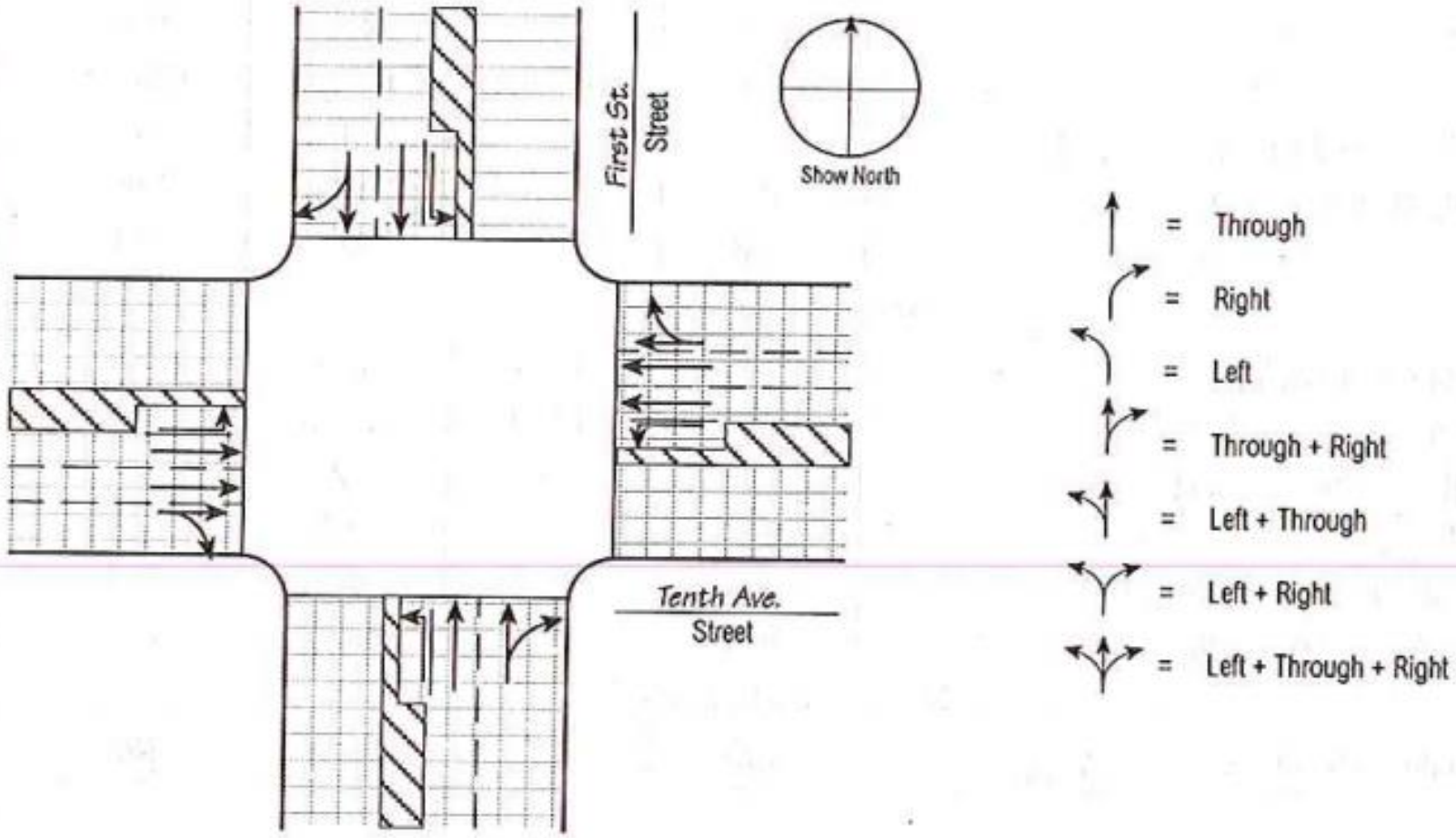


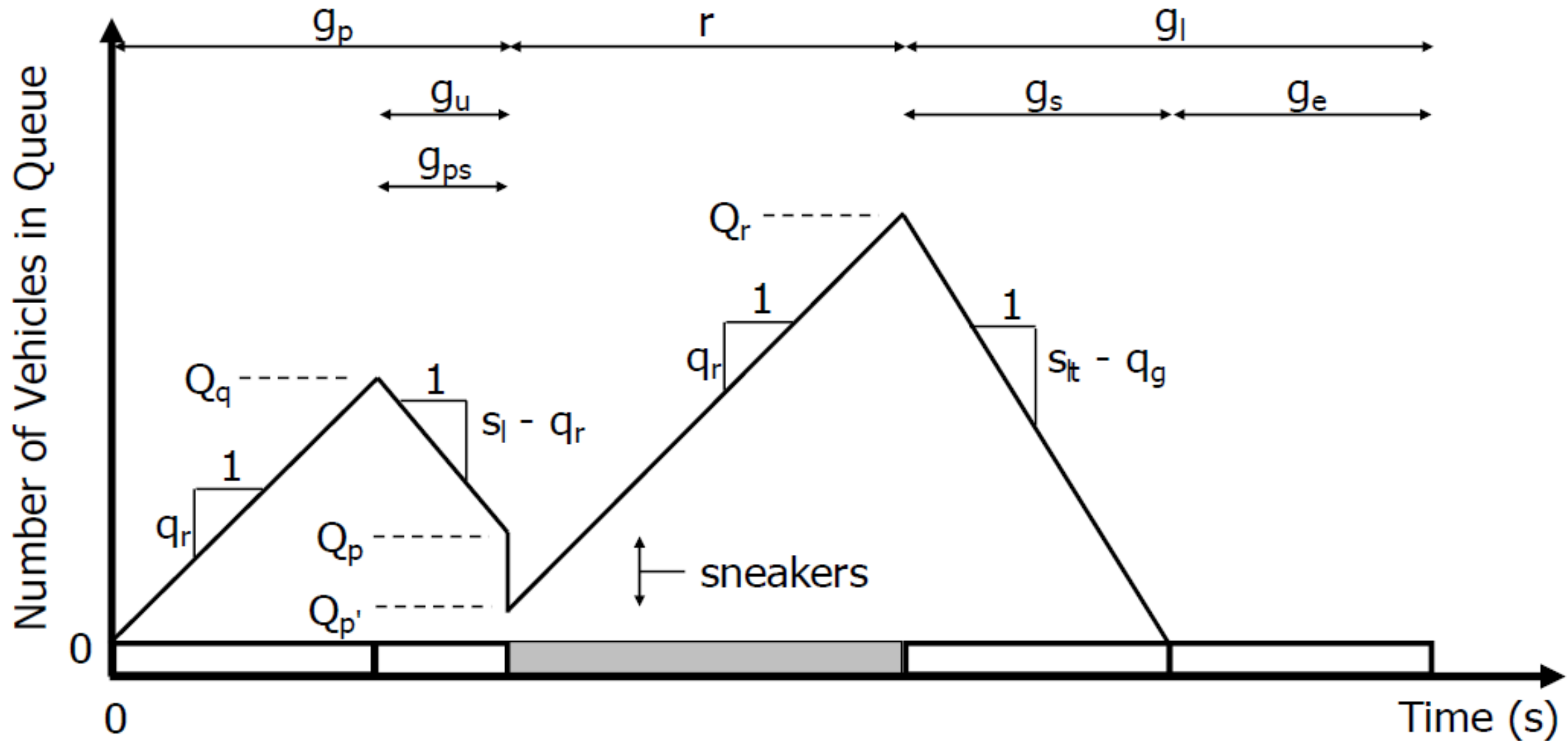
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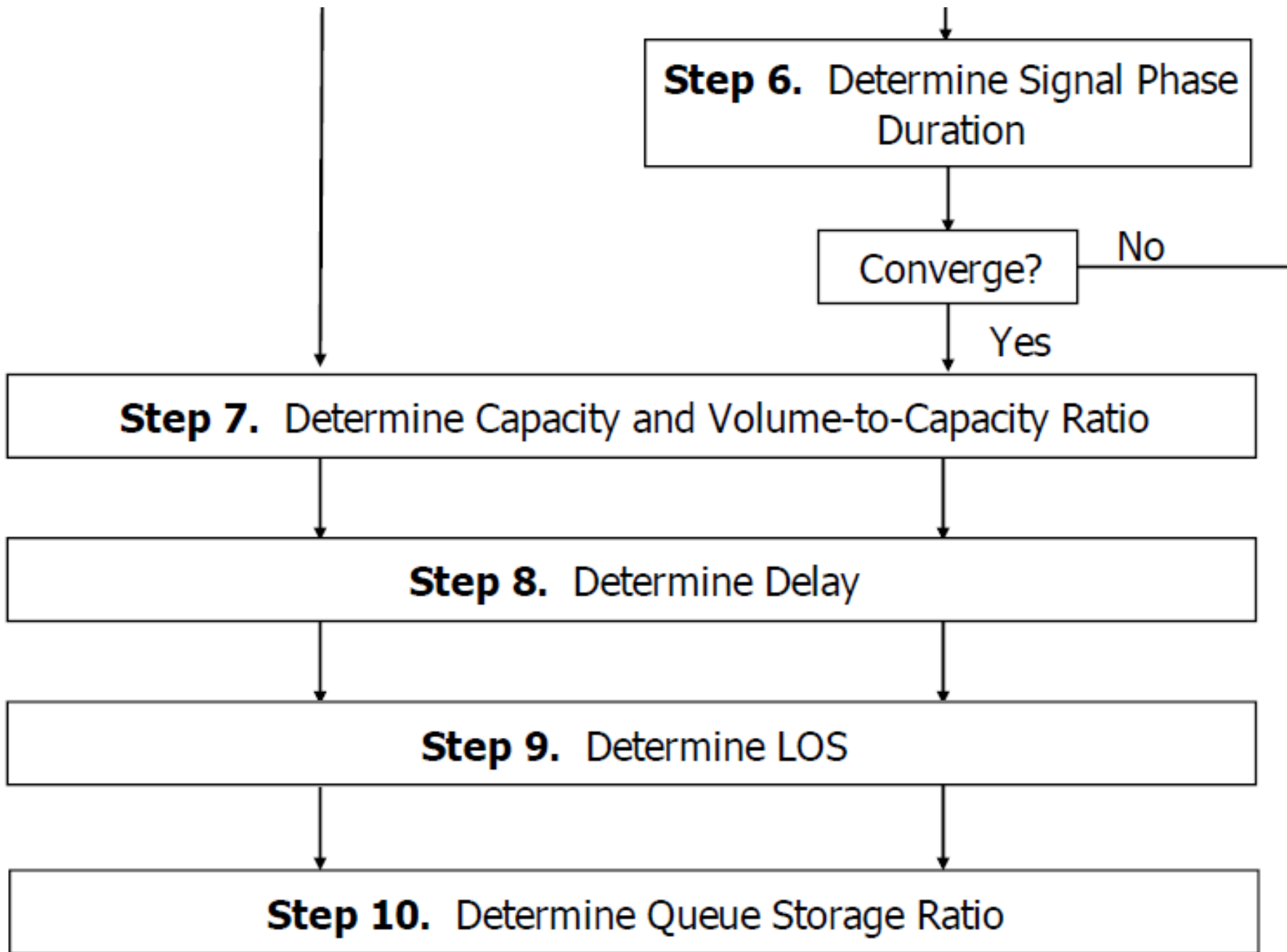
2015.04.01

Intersection Geometry



1. Prepare outline of steps included in the HCS solution.
2. Discuss predicted performance.
3. Discuss how to improve performance.





Intersection Data														
Traffic	Lanes	Phases	Timing	Signal	Intersection	General	Pedestrian	Bicycle	Interchanges	Optimization	Map			
Traffic														
	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Demand, veh/h	120	1300	460	80	1200	100	260	700	180	200	550	100		
Lane Width, ft	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0		
Storage Length, ft	0	0	0	0	0	0	0	0	0	0	0	0		
Saturation, pc/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0		
Grade, %		0			0			0			0			
Buses, per h			0			0			0			0		
Parking, per h	0	N	0	0	N	0	0	N	0	0	N	0		
Bicycles, per h		0			0			0			0			
Pedestrians, per h		0			0			0			0			
Arrival Type	3	3	3	3	3	3	3	3	3	3	3	3		
Upstream Filtering (I)	I-EB	1.00		I-WB	1.00		I-NB	1.00		I-SB	1.00			
Initial Queue, veh	0	0	0	0	0	0	0	0	0	0	0	0		
Speed Limit, mi/h		35			35			35			35			
Detector, ft	40	40	40	40	40	40	40	40	40	40	40	40		
RTOR, veh/h			0			0			0			0		

Visual View

Phasing

Cycle, s

Pre-Timed Signal

Offset, s

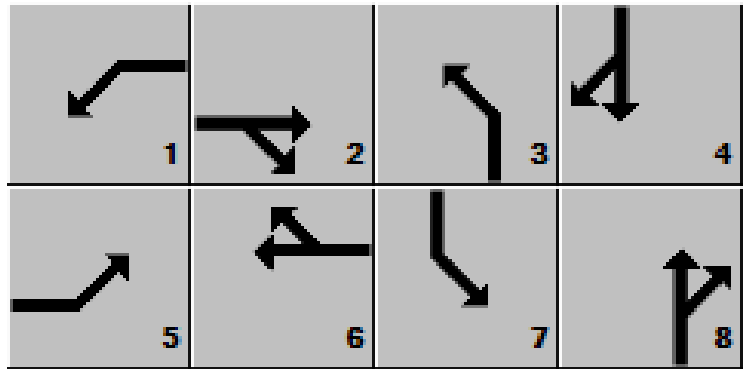
Phase 2 Direction EB

Phase 4 Direction SB

Reference Phase 2

Reference Point End

Force Mode Fixed



Side Street Split Phasing

Uncoordinated Intersection

Field-Measured Phase Times

Minimum Green, s

Lag Phase EL ET WL WT NL NT SL ST

Passage Time, s

	EL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
	()	(2)	(1)	(6)	(3)	(8)	(7)	(4)
		50.0	20.0	50.0	20.0	30.0	20.0	30.0
		4.0	4.0	4.0	4.0	4.0	4.0	4.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0
		6	6	6	6	6	6	6
	<input type="checkbox"/> EL	<input type="checkbox"/> ET	<input type="checkbox"/> WL	<input type="checkbox"/> WT	<input type="checkbox"/> NL	<input type="checkbox"/> NT	<input type="checkbox"/> SL	<input type="checkbox"/> ST
	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	<input type="button" value="v"/>	Min <input type="button" value="v"/>	Off <input type="button" value="v"/>	Min <input type="button" value="v"/>	Off <input type="button" value="v"/>	Off <input type="button" value="v"/>	Off <input type="button" value="v"/>	Off <input type="button" value="v"/>
	<input checked="" type="checkbox"/> EL	<input checked="" type="checkbox"/> ET	<input type="checkbox"/> WL	<input checked="" type="checkbox"/> WT	<input type="checkbox"/> NL	<input checked="" type="checkbox"/> NT	<input type="checkbox"/> SL	<input checked="" type="checkbox"/> ST
	E/W <input type="checkbox"/> N/S	Simultaneous Gap <input checked="" type="checkbox"/> E/W <input checked="" type="checkbox"/> N/S						

Phase Duration

Green	0.0	116.0	0.0	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	4.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Phasing

Cycle, s

Pre-Timed Signal

Offset, s

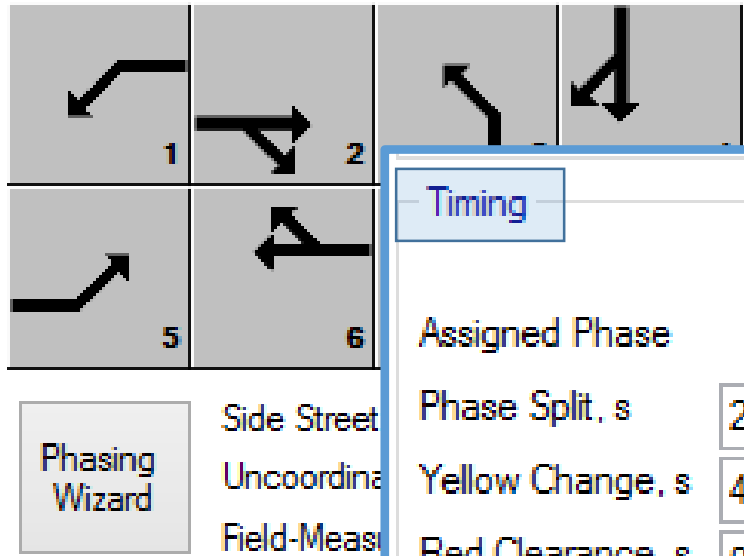
Phase 2 Direction EB

Phase 4 Direction SB

Reference Phase 2

Reference Point End

Force Mode Fixed



Timing

	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	(5)	(2)	(1)	(6)	(3)	(8)	(7)	(4)
Phase Split, s	20.0	50.0	20.0	50.0	20.0	30.0	20.0	30.0
Yellow Change, s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Red Clearance, s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minimum Green, s	6	6	6	6	6	6	6	6
Lag Phase	<input type="checkbox"/> EL	<input checked="" type="checkbox"/> ET	<input type="checkbox"/> WL	<input checked="" type="checkbox"/> WT	<input type="checkbox"/> NL	<input checked="" type="checkbox"/> NT	<input type="checkbox"/> SL	<input checked="" type="checkbox"/> ST
Passage Time, s	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	Off	Min	Off	Min	Off	Off	Off	Off
Dual Entry	<input type="checkbox"/> EL	<input checked="" type="checkbox"/> ET	<input type="checkbox"/> WL	<input checked="" type="checkbox"/> WT	<input type="checkbox"/> NL	<input checked="" type="checkbox"/> NT	<input type="checkbox"/> SL	<input checked="" type="checkbox"/> ST
Dallas Phasing	<input type="checkbox"/> E/W	<input type="checkbox"/> N/S	Simultaneous Gap		<input checked="" type="checkbox"/> E/W	<input checked="" type="checkbox"/> N/S		

Phase Duration

	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Green	0.0	116.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phasing

Cycle, s

Pre-Timed Signal

Offset, s

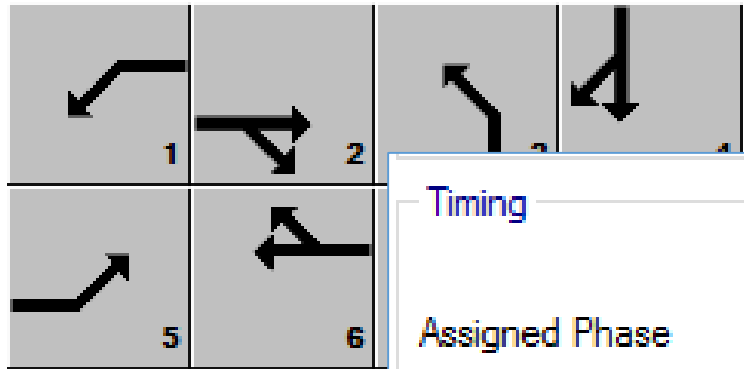
Phase 2 Direction EB

Phase 4 Direction SB

Reference Phase 2

Reference Point End

Force Mode Fixed



Side Street
Uncoordinat
Field-Measu

Phasing Wizard

Timing

	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Assigned Phase	(5)	(2)	(1)	(6)	(3)	(8)	(7)	(4)
Phase Split, s	20.0	50.0	20.0	50.0	20.0	30.0	20.0	30.0
Yellow Change, s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Red Clearance, s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minimum Green, s	6	6	6	6	6	6	6	6
Lag Phase	<input type="checkbox"/> EL	<input type="checkbox"/> ET	<input type="checkbox"/> WL	<input type="checkbox"/> WT	<input type="checkbox"/> NL	<input type="checkbox"/> NT	<input type="checkbox"/> SL	<input type="checkbox"/> ST
Passage Time, s	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Phase Duration

Green	0.0	116.0	0.0	0.0	0.0	0.0
Yellow	4.0	4.0	4.0	4.0	0.0	0.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Min Off Min Off Off Off Off

ET WL WT NL NT SL ST

N/S Simultaneous Gap E/W N/S