

**CONTROLLER TIMING CHART**

PHASE	1	2	3	4	5	6	7	8	9
IN USE	X	X	X	X	X	X	X	X	X
TRAFFIC MOVEMENT	↙	↑	↘	→	↖	↓	↗	←	↕
MIN. GREEN	5	8	5	8	5	8	5	8	0
MAX 1 - GREEN (OFF)	5	36	6	18	6	36	6	18	0
MAX 2 - GREEN (AM)	7	33	7	23	10	30	5	25	0
MAX 3 - GREEN (PM)	8	36	6	24	8	36	8	22	0
YELLOW CLEARANCE	4.0	4.5	4.0	4.5	4.0	4.5	4.0	4.5	3.0
ALL RED CLEARANCE	2.0	2.5	2.0	2.5	2.0	2.5	2.0	2.5	2.0
VEHICLE EXTENSION	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
DELAY GREEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WALK	0	0	0	0	0	0	0	0	7
PEDESTRIAN CLEAR	0	7	0	7	0	7	0	7	19
RECALL MODE		SOFT				SOFT			

**SCHEDULE PLAN**

SCHEDULE NO.	DAY PLAN	DAYS	DATES
1	1	MON, TUE, WED, THU, FRI	1-31
1	2	SAT, SUN	1-31

**COORDINATION PLAN**

PATTERN	COS	CYCLE	OFFSET	SPLIT PHASES / SPLIT TIMES								
				1	2	3	4	5	6	7	8	9
1	111	92	0	11	43	12	25	12	43	12	25	1
2	211	96	0	13	39	13	30	16	37	11	32	1
3	311	96	0	13	43	12	31	14	43	14	29	1

**ACTION PLAN**

PLAN NO.	PATTERN	FLASH	REFERENCE
1	1	NO	MAX 1
2	2	NO	MAX 2
3	3	NO	MAX 3
4	254 - FREE	NO	FREE

**WEEKDAY PEAKS**

	HOURS	
MAX 2 - AM PEAK	6:00 AM	TO 9:00 AM
MAX 1 - OFF PEAK	9:00 AM	TO 3:00 PM
	7:00 PM	TO 10:00 PM
MAX 3 - PM PEAK	3:00 PM	TO 7:00 PM
FREE	10:00 PM	TO 6:00 AM

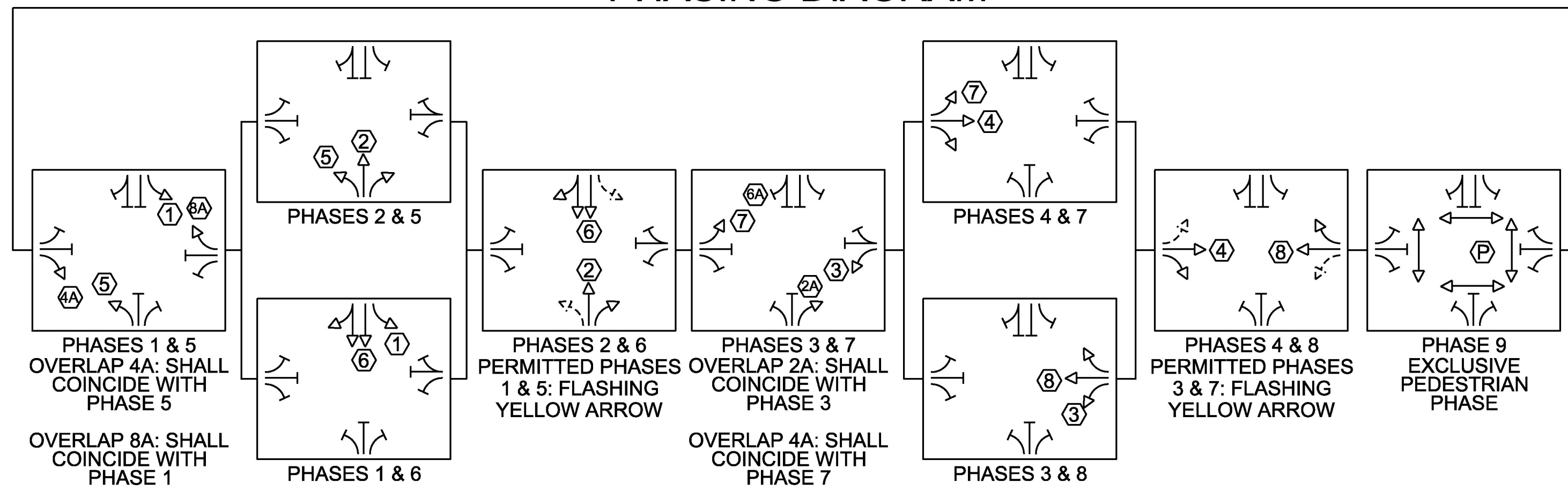
**DAY PLAN**

PLAN NO.	EVENT	ACTION PLAN	START TIME
1	1	2	6:00 AM
1	2	1	9:00 AM
1	3	3	3:00 PM
1	4	1	7:00 PM
1	5	254	10:00 PM
2	1	1	6:00 AM
2	2	3	9:00 AM
2	3	254	10:00 PM

**PREEMPTION TIMINGS**

	PREEMPTOR			
	NB	SB	EB	WB
DIRECTION	1	2	3	4
HOLD PHASE	2	6	4	8
DET LOCK	YES	YES	YES	YES
DURATION TIME	18.5	18.5	18.5	18.5
MIN GREEN	8	8	8	8
HOLD GREEN	12	12	12	12
HOLD YELLOW	4.5	4.5	4.5	4.5
HOLD RED	2	2	2	2

**PHASING DIAGRAM**



NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PROVIDED TIMINGS AT DESIGNATED INTERSECTIONS ALONG THE WILLISTON CORRIDOR. THE CONTRACTOR WILL NEED TO COORDINATE WITH THE SOUTH BURLINGTON/WILLISTON NH 2944(1)/WILLISTON NH 2949(1) PAVING PROJECT CONTRACTOR TO INSTALL TIMINGS. PAYMENT SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.

MS 568: VT ROUTE 2A & US ROUTE 2

**CONTROLLER TIMING CHART**

PHASE	1	2	3	4	5	6	7	8	9
IN USE	X	X	X	X	X	X	X	X	X
TRAFFIC MOVEMENT	↙	↑	↘	→	↖	↓	↗	←	↕
MIN. GREEN	5	8	5	5	5	8	5	5	0
MAX 1 - GREEN (OFF)	5	23.5	8	16.5	23.5	18.5	11	13.5	0
MAX 2 - GREEN (AM)	5	52	8	5	35.5	22	7	6	0
MAX 3 - GREEN (PM)	7.5	44.5	11	11.5	24.5	27.5	9	13.5	0
YELLOW CLEARANCE	4.5	4.5	4.0	4.0	4.5	4.5	4.0	3.0	4.0
ALL RED CLEARANCE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0
VEHICLE EXTENSION	2.0	2.0	4.0	4.0	4.0	2.0	4.0	4.0	0.0
DELAY GREEN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WALK									7
PEDESTRIAN CLEAR									26
RECALL MODE		SOFT				SOFT			

**SCHEDULE PLAN**

SCHEDULE NO.	DAY PLAN	DAYS	DATES
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1	2	SAT, SUN	1-31

**COORDINATION PLAN**

PATTERN	COS	CYCLE	OFFSET	SPLIT PHASES / SPLIT TIMES								
				1	2	3	4	5	6	7	8	9
1	111	92	88	12	49	13	11	35	25	11	13	1
2	211	96	78	11.5	58.5	14	11.5	42	28.5	13	12.5	1
3	311	100	26	14	51	17	18	31	34	15	20	1

**ACTION PLAN**

PLAN NO.	PATTERN	FLASH	REFERENCE
1	1	NO	MAX 1
2	2	NO	MAX 2
3	3	NO	MAX 3
4	254 - FREE	NO	FREE

**WEEKDAY PEAKS**

	HOURS	
MAX 2 - AM PEAK	6:00 AM	TO 9:00 AM
MAX 1 - OFF PEAK	9:00 AM	TO 3:00 PM
	7:00 PM	TO 10:00 PM
MAX 3 - PM PEAK	3:00 PM	TO 7:00 PM
FREE	10:00 PM	TO 6:00 AM

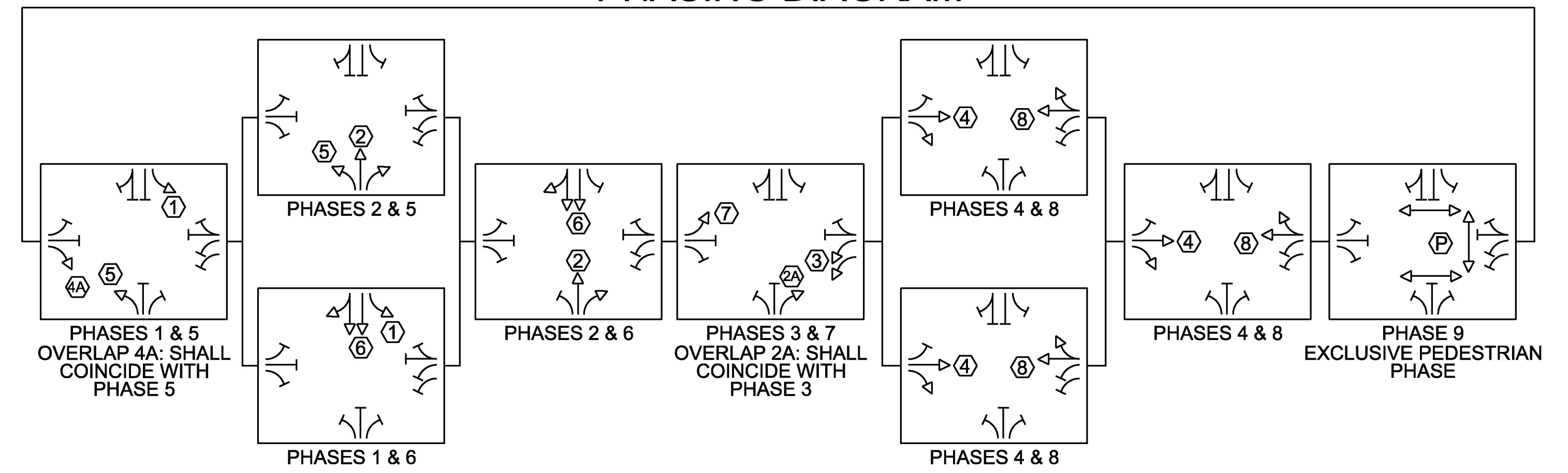
**DAY PLAN**

PLAN NO.	EVENT	ACTION PLAN	START TIME
1	1	2	6:00 AM
1	2	1	9:00 AM
1	3	3	3:00 PM
1	4	1	7:00 PM
1	5	254	10:00 PM
2	1	1	6:00 AM
2	2	3	9:00 AM
2	3	254	10:00 PM

**PREEMPTION TIMINGS**

	PREEMPTOR			
	1	2	3	4
DIRECTION	NB	SB		
HOLD PHASE	2	6		
DET LOCK	YES	YES		
DURATION TIME	18.5	18.5		
MIN GREEN	8	8		
HOLD GREEN	12	12		
HOLD YELLOW	4.5	4.5		
HOLD RED	2	2		

**PHASING DIAGRAM**



PROJECT NAME: WILLISTON-ESSEX  
 PROJECT NUMBER: STPG SGNL(46)  
 FILE NAME: t15i017sig.dgn PLOT DATE: 3/22/2017  
 PROJECT LEADER: M. LACROIX DRAWN BY: K. RECORD  
 DESIGNED BY: K. RECORD CHECKED BY: M. LACROIX  
 TRAFFIC SIGNAL LAYOUT SHEET 15 SHEET 47 OF 66

MS 572: VT ROUTE 2A & MARSHALL AVE