

VEHICLE DETECTOR LOOPS

LOOP NO.	LANE	CALL #	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	INDUCTANCE CALC.	RESISTANCE CALC. ACT.	LEAKAGE TO GROUND	LOCKING MEMORY
4	SB	4	6x40	QUAD-2	PRESENCE	351	0.73		

INDUCTANCE IN MICROHENRIES
RESISTANCE IN OHMS (AT 77 DEGREES FAHRENHEIT)

LIST OF MAJOR EQUIPMENT

ITEM #	DESCRIPTION	QUANTITY
1	ITEM # 678, 15 INB RAMP	1
2	MAST ARM POLES	1
3	POWER DROP STATION	1
4	NEW 12" TRAFFIC SIGNAL HEADS	
5	W/ TUNNEL VISORS, DISCONNECT	
6	HANGERS & MOUNTING HARDWARE	
7	A. ONE-WAY 3 SECTION	6
8	POLE MOUNTED CABINET/CONTROLLER	1
9	TRUSS ARMS	2
10	BACKPLATES	6
11	WIRELESS INTERCONNECT EQUIPMENT	1

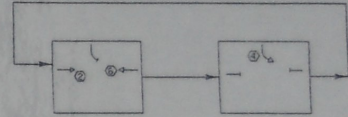
CONTROLLER TIMING CHART

US-2 & I-89 NORTH RAMPS

PHASE	1	2	3	4	5	6	7	8
TRAFFIC MOVEMENT	→	→	→	↓	←	←	←	←
MINIMUM GREEN	8	8	8	8	8	8	8	8
MAXIMUM 1 GREEN	38	10	38	10	38	10	38	10
MAXIMUM 2 GREEN	29	16	29	16	29	16	29	16
MAXIMUM 3 GREEN	29	13	29	13	29	13	29	13
YELLOW CLEARANCE	4	4	4	4	4	4	4	4
ALL RED CLEARANCE	2	2	2	2	2	2	2	2
VEH. EXTENSION	3	3	3	3	3	3	3	3

CONTROLLER TO OPERATE MAXIMUM 1 GREEN TIMINGS FROM 54:00AM-54:00PM
CONTROLLER TO OPERATE MAXIMUM 2 GREEN TIMINGS FROM 54:00PM-6:00PM
CONTROLLER TO OPERATE MAXIMUM 3 GREEN TIMINGS FROM 9:00AM-3:00PM & 6:00PM-6:00PM

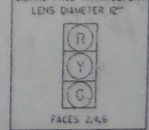
PHASING DIAGRAM



WIRED CONDUIT RUNS

DESCRIPTION	CONDUIT SIZE	DESCRIPTION
POWER POLE TO PB #2	1-1/2"	2'
PB #2 TO CONTROLLER	3/4"	POWER
LOOP #4 TO PB #1	6"	74'
PB #1 TO CONTROLLER	3/4"	LOOP #4
STATION TO CONTROLLER	10"	11'
SUBTOTALS	40'	359'
ROUNDING	10'	26'
TOTALS	50'	425'

SIGNAL FACE ARRANGEMENT



LEGEND

EXISTING	NEW	LEGEND
○	○	UTILITY POLE
○	○	LUMINAIRE
○	○	LIGHT OR WOOD POLE
○	○	MAST ARM POLE
○	○	CONTROLLER CABINET
○	○	PULLBOX/JUNCTION BOX
○	○	SIGNAL HEAD
---	---	CONDUIT
○	○	VEHICLE LOOPS
○	○	STATION
○	○	SWEEP

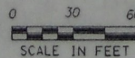
US 2 FROM SOUTH HERO

AM	OFF	PM
27	19	17
363	222	303

US 2 FROM WILTON

AM	OFF	PM
142	93	224
592	364	473

US 2 & I-89
NB RAMPS
3000
AVERAGE WEEKDAY
TRAFFIC



PROJECT NAME: COLCHESTER
PROJECT NUMBER: NHG_SQNL(22)
FILE NAME: sqnl1821
PROJECT LEADER: B. NYQUIST
DESIGNED BY: B. MCAYOY
PLOT DATE: 18-SEP-2003
DRAWN BY: B. MCAYOY
CHECKED BY:
SHEET 3 OF 3