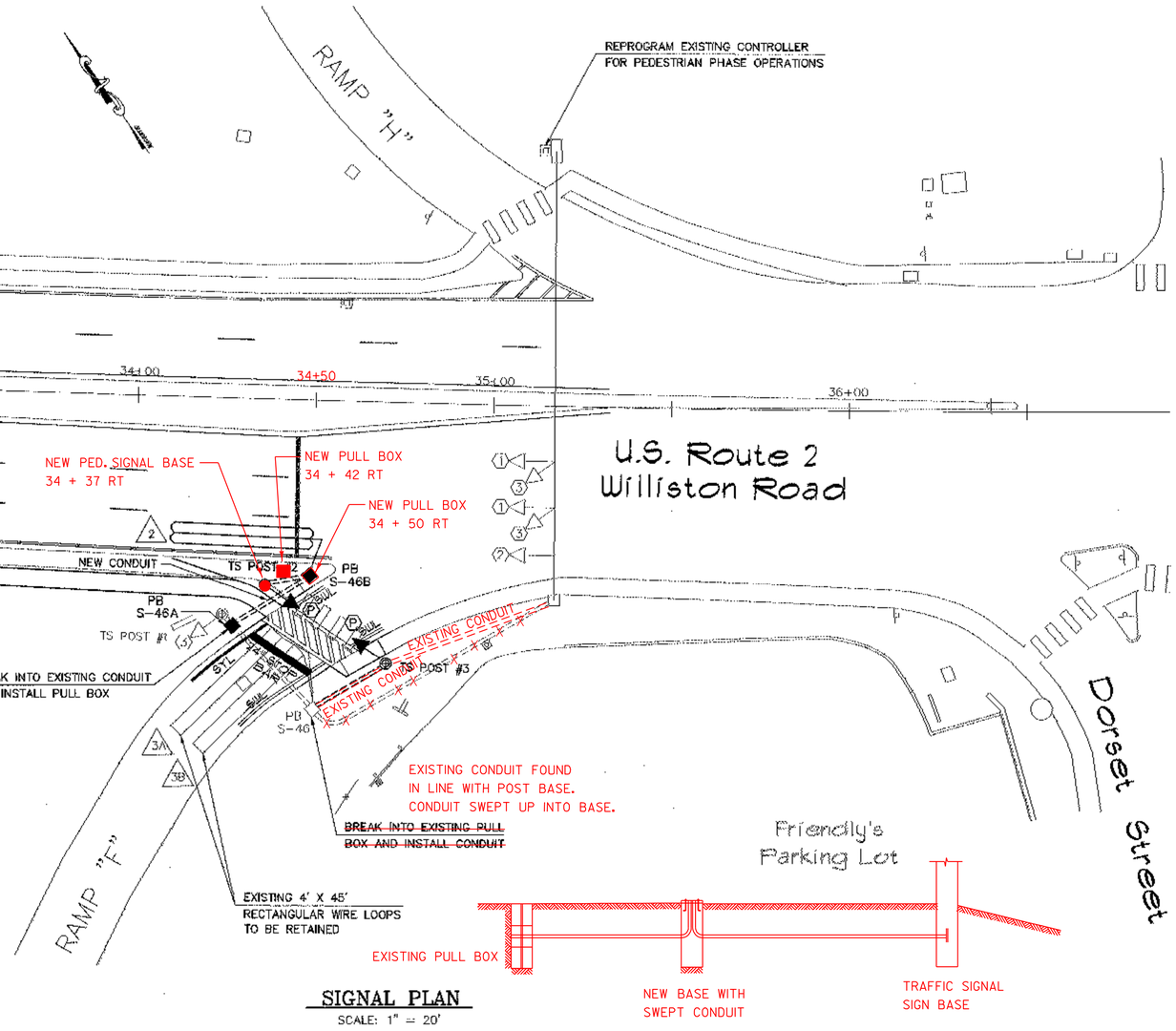


SIGNAL PLAN

SCALE: 1" = 20'

TIMING AND PHASING

TIME OF DAY PLANS		PHASE 1/EB FIRE (DWELL) R/W	CLEAR TO: ø2	CLEAR TO: ø3	PHASE 2 R/W	CLEAR TO: ø3	CLEAR TO: ø1	PHASE 3 R/W	CLEAR TO: ø1	FLASH OPERATION 11:00 PM TO 6:00 AM M-F, 12:00 AM TO 6:00 AM SAT,SUN
	VEHICLE	–			1			1		
	MINIMUM	–			8 4.2	4.2		8 4.2		
	PLAN 1 (AM MAX.)	36 2.4	2.4		35 2.4	2.4		47 4.2		
	PLAN 2 (NOON MAX.)	34 2.4	2.4		37 2.4	2.4		57 4.2		
	PLAN 3 (OFF PK MAX.)	36 2.4	2.4		26 2.4	2.4		36 4.2		
	PLAN 4 (PM MAX.)	36 2.4	2.4		32 2.4	2.4		50 4.2		
	FACE 1	G G Y R	Y R		R R R R	R R		R R R		FY
	FACE 2	G G G G	Y R		G G Y R	G G		R R R		FY
	FACE 3	R R R R	R R		R R R R	R R		G Y R		FR
	PED	W FD W W	FD W		W FD FD W	W W		DW DW DW		OUT
* SEE NOTE 1.		(2)(1)			(2)			3		

NOTES:

1. IF ø2 IS ACTUATED DURING ø1, THEN PEDESTRIAN PHASE SHALL REMAIN IN "WALK" MODE THROUGHOUT ø1 AND THEN SATISFY THE MINIMUM PEDESTRIAN WALK AND CLEARANCE TIMES DURING ø2.
2. MAINTAIN EXISTING COORDINATION PROGRAMMING IN THE ECONOLITE CLOSED LOOP SYSTEM. CONTRACTOR SHALL COORDINATE WITH VAOT TRAFFIC ENG. DEPARTMENT FOR CURRENT SPLITS AND OFFSETS.
3. CONTRACTOR SHALL RETAIN THE EXISTING PRE-EMPTION SETTINGS CURRENTLY IN THE LOCAL CONTROLLER AND CLOSED-LOOP SYSTEM.

EXISTING PROGRAM PERIODS OF OPERATION

		AM 1 2 3 4 5 6 7 8 9 10 11 12	PM 1 2 3 4 5 6 7 8 9 10 11 12	AM
SUNDAY	FLASH		3	
MONDAY	FLASH	3 1	2 3 4 3	F
TUESDAY	FLASH	3 1	2 3 4 3	F
WEDNESDAY	FLASH	3 1	2 3 4 3	F
THURSDAY	FLASH	3 1	2 3 4 3	F
FRIDAY	FLASH	3 1	2 3 4 3	F
SATURDAY	FLASH	3	2 3	

NOTES:

PLAN 1 – AM PEAK (140 SEC CYCLE): 7:00AM TO 9:30AM MON–FRI
PLAN 2 – MIDDAY PEAK (150 SEC CYCLE): 9:30AM TO 12:00PM MON SAT
PLAN 3 – OFF–PEAK (120 SEC CYCLE): 06:00AM TO 07:00AM MON–FRI
12:00PM TO 03:00PM MON–FRI
06:00PM TO 11:00PM MON–FRI
06:00AM TO 09:30AM SAT
12:00PM TO 12:00AM SAT
06:00AM TO 12:00AM SUN
PLAN 4 – PM PEAK (140 SEC CYCLE): 3:00PM TO 6:00PM MON–FRI
FLASH OPERATION: 11:00PM TO 6:00AM MON–FRI; 12:00AM TO 6:00AM SAT/SUN.

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.15	QUANTITY
PEDESTAL POST – 8'	2
TWO–SECTION WALK/DONT WALK PEDESTRIAN HEADS W/ VISORS & MOUNTING HARDWARE	2 (POST TOP MOUNTED)
6X40 QAUDRUPOLE VEHICLE LOOP DETECTOR	1
MISC HARDWARE, EQUIPMENT, ETC. TO COMPLETE INSTALLATION	**
PULL BOX	2
SCH 40 SIGNAL CONDUIT	60 LF

** THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE, ETC. ARE REQUIRED TO PROVIDE FOR A FUNCTIONING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND THE TYPES OF EQUIPMENT REQUIRED.

VEHICLE DETECTOR LOOPS									
LOOP NO.	LANE	CALL ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	INDUCTANCE CALC.	INDUCTANCE ACT.	RESISTANCE CALC.	RESISTANCE ACT.	LEAKAGE TO GROUND	LOCKING MEMORY
1	EB RT	2	6X40	QUAD–2	PRESENCE						
2	NB RT	3	4X45	RECT	PRESENCE						
3A	NB RT	3	4X45	RECT	PRESENCE						

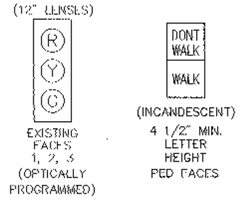
1. ALL CALCULATED VALUES ARE AT THE CONTROLLER.
2. MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.
3. 3A AND 3B ARE EXISTING RECTANGULAR LOOP DETECTORS

EQUIPMENT LOCATION CRITERIA

Ⓐ IF THE DISTANCE FROM THE CURB OR EDGE OF SHOULDER TO THE DETECTOR AMPLIFIER IS OVER 25' ±, A SHIELDED CABLE MUST BE MADE IN A JUNCTION BOX, PULL BOX, PEDESTAL BASE, OR POLE BASE. INSTALLATION OF DELEMA ZONE LOOPS MAY REQUIRE ADDITIONAL JUNCTION/PULL BOXES. JUNCTION BOXES MAY BE USED WITH LESS THAN 4 CONDUITS AND WHERE THEY WILL NOT BE RUN OVER BY VEHICULAR TRAFFIC.

Ⓑ SEE STANDARDS E–170, 171A, 171B, 171C, 172, 173, & 175 FOR ADDITIONAL INFORMATION.

SIGNAL FACE ARRANGEMENT



LEGEND

EXISTING	PROPOSED	
□	■	PULL BOX
⋈	⬅	SIGNAL HEAD
-----	-----	CONDUIT
⊕	⊕	PEDESTAL POST
|o|	▪	CONTROLLER CABINET
⊏⊐	▭	VEHICLE LOOPS

0 20 50 100 FEET

1"= 20' HORIZONTAL

VANASSE HANGEN BRUSTLIN, INC.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of SOUTH BURLINGTON	Bridge No. 68
Highway No. U.S. 2	Log Sta.
	Surv. Sta.

U.S. 2 OVER I–89

PEDESTRIAN SIGNAL PLAN

Designed By K. DANDRADE	Drawn By B.J. MASSE
Checked By C.M. BOBAY Date 1/00	Bridge Design Supervisor C.D. BAKER Date 1/00
PROJECT SOUTH BURLINGTON	PROJECT NO. STP BIKE (28)S
VHB Cad Drawing No. 50963SIG	Date 1/00
Bridge Sheet No.	Sheet 59 of 75