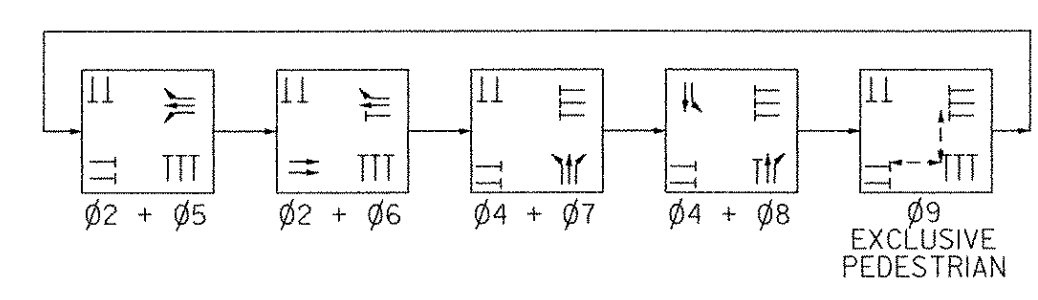


SEE SHEET PAVEMENT MARKINGS AND SIGNS LAYOUT SHEETS
SEE TRAFFIC SIGNAL SHEET 4 FOR SIGNAL COORDINATION CHART

PHASING DIAGRAM



TEST RESULTS					VEHICLE LOOP DETECTOR							
INDUCTANCE (μH)		RESISTANCE @ 77°F		LEAKAGE TO GROUND	LANE	LOOP NO.	SIZE	TYPE	NO. TURNS	CALL φ	MODE	AMP.
CALCULATED	MEASURED	CALCULATED	MEASURED									
126		0.41			SB RT	2A	6'x40'	QUAD	2	φ 2	PRESENCE	NON-DELAY
130		0.47			SB TH	2B	6'x40'	QUAD	2	φ 2	PRESENCE	NON-DELAY
133		0.51			SB LT	3	6'x40'	QUAD	2	φ 5	PRESENCE	NON-DELAY

ALL CALCULATED VALUES ARE AT THE CONTROLLER.
MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.

LOCAL PROGRAMMING	PHASE								
	1	2	3	4	5	6	7	8	9
MINIMUM GREEN		8		8	8	6	8	8	-
EXTENSION		2.0		2.0	2.0	2.0	2.0	2.0	-
YELLOW CLEARANCE		4.0		4.0	4.0	4.0	3.0	4.0	-
ALL RED CLEARANCE		2.0		2.0	2.0	2.0	2.0	2.0	-
MAXIMUM GREEN I-75 SEC		32		31	17	9	14	11	
MAXIMUM GREEN II-75 SEC 6:00 AM - 9:00 AM		36		27	22	8	8	13	
MAXIMUM GREEN III-75 SEC 2:00 PM - 4:00 PM		32		31	19	7	14	11	
MAXIMUM GREEN IV-75 SEC 4:00 PM - 6:00 PM		24		39	11	7	10	23	
WALK		-		-	-	-	-	-	9
FLASHING DON'T WALK		-		-	-	-	-	-	23
RECALL		OFF		MAX	OFF	OFF	OFF	MAX	OFF
MEMORY		N/L		N/L	N/L	N/L	N/L	N/L	-

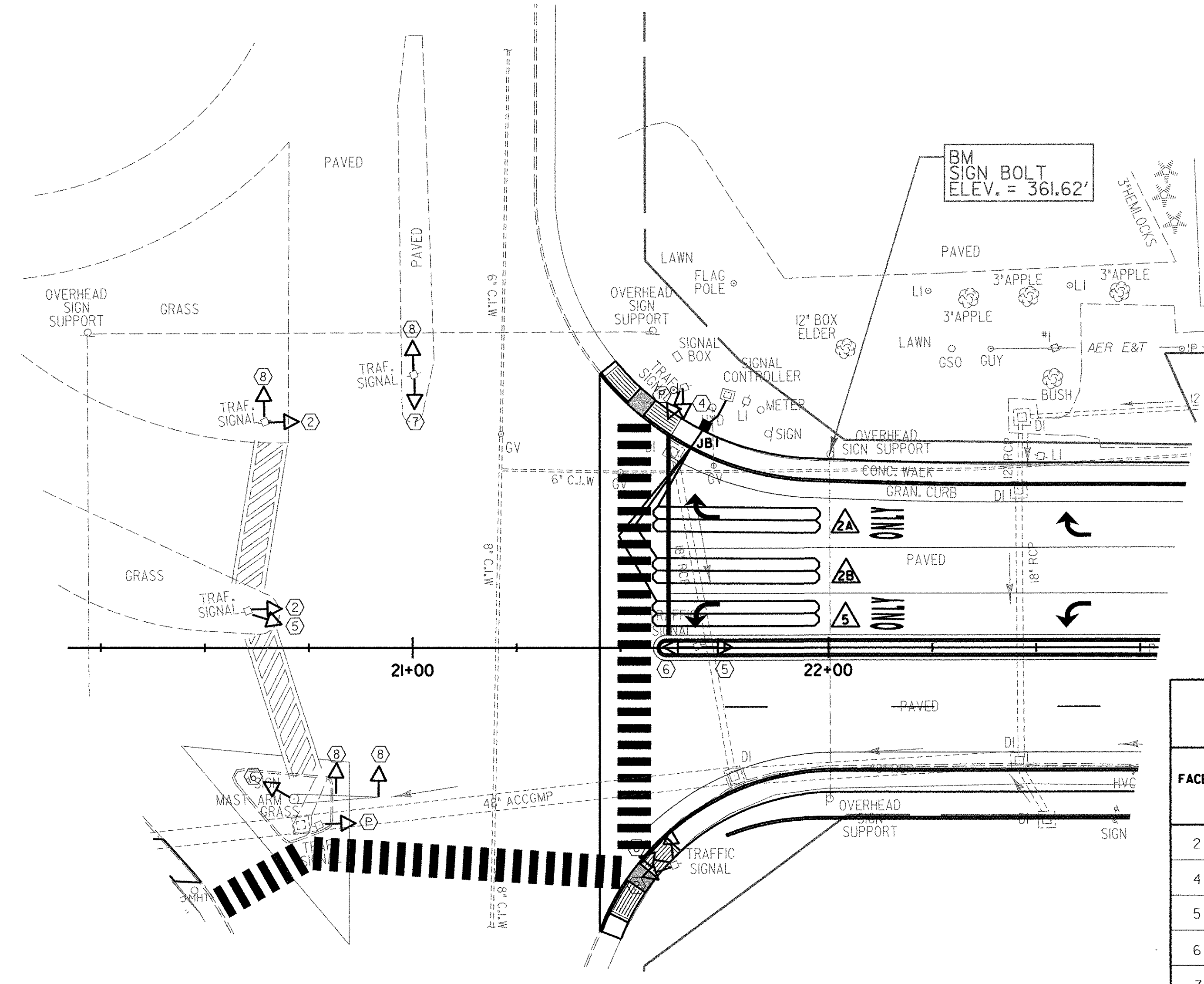


TABLE OF CHANGE SEQUENCE																	FLASHING OPERATION									
FACE	R/W	φ2 + φ5				φ2 + φ6				φ4 + φ7				φ4 + φ8				φ9								
		CLEAR TO		ALL OTHER PHASES		CLEAR TO		ALL OTHER PHASES		CLEAR TO		ALL OTHER PHASES		CLEAR TO		ALL OTHER PHASES										
2	G	G	G	Y	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR	
4	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	Y	R	R	R	R	R	R	FY
5	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	B
6	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
7	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	B
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	FY
9	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FD	DW	B	

NOTE: W = WALK, FD = FLASHING DON'T WALK
DW = DON'T WALK, B = BLANK

EXISTING AVERAGE WEEKDAY TRAFFIC VOLUMES

AM	OFF	MD	PM
27	28	41	59
192	83	121	159

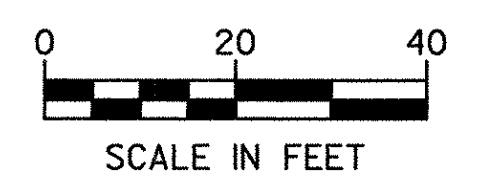
TO WHITE RIVER JUNCTION

AM	OFF	MD	PM
202	145	182	147
278	183	264	208

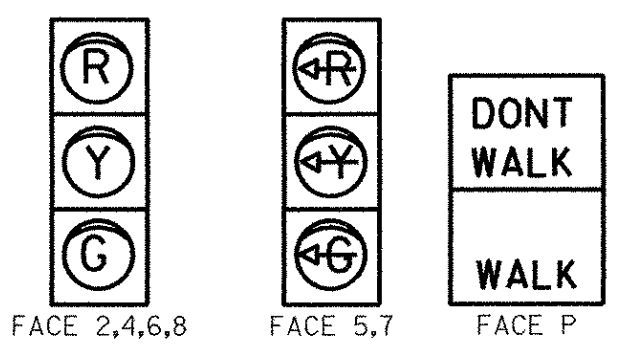
HARTFORD AVENUE

AM	OFF	MD	PM
114	136	189	196
77	104	165	217
132	135	226	296

U.S. ROUTE 4



SIGNAL FACE ARRANGEMENT (EXISTING) 12" LENSES



WIRED CONDUIT (2" PVC)
LOOP 2A TO JBI - 6'
LOOP 2B TO JBI - 6'
LOOP 5 TO JBI - 6'

WIRED CONDUIT (1 1/2" PVC)
JBI TO CONTROLLER - 8'

MAJOR EQUIPMENT LIST

EQUIPMENT ITEM NO. 678.5	U.S. ROUTE 5 VT ROUTE 14
CANTILEVER POLES W/MAST ARMS	-
PEDESTAL POSTS	-
NEW 12" TRAFFIC SIGNAL HEADS W/ TUNNEL VISORS, DISCONNECT HANGERS, BACKPLATES AND MOUNTING HARDWARE	4
ONE-WAY, 3-SECTION	-
ONE-WAY, 5-SECTION	-
TWO-WAY, 3-SECTION	-
12" FIBER OPTIC INTERNATIONAL SYMBOL PEDESTRIAN HEAD W/VISOR AND MOUNTING HARDWARE	4
SIDE MOUNTED	-
POST TOP MOUNTED	-
CONTROLLER/CABINET	1
POWER DROP STANCHION	-
SPREAD SPECTRUM RADIO ASSEMBLY	1

THE QUANTITIES LISTED ARE FOR SAW CUTTING ONLY, LEAD-IN WIRES AND/OR SHIELDED CABLE QUANTITIES FROM THE EDGE OF PAVEMENT OR CURB ARE NOT INCLUDED IN THE TOTAL. SEE STANDARD SPECIFICATION.

THE QUANTITY 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.

EQUIPMENT	ITEM NO.	UNIT	U.S. ROUTE 5 VT ROUTE 14
VEHICLE LOOP DETECTOR	678.22	LF	483
WIRED CONDUIT (1 1/2" PVC)	678.23	LF	8
WIRED CONDUIT (2" PVC)	678.23	LF	18
JUNCTION BOX	678.26	EA	1

EXISTING	NEW	LEGEND
		MAST ARM POLE (MP)
		STRAIN POLE (SP)
		CONTROLLER CABINET
		PULL BOX (PB) / JUNCTION BOX (JB)
		SIGNAL HEAD
		CONDUIT
		VEHICLE LOOPS
		PEDESTAL POST (PP)
		MAST ARM MOUNTED SIGN
		STANCHION

PROJECT: HARTFORD PROJECT NO.: RS 0113(40)

DESIGN FILE NAME: z027bdr.DGN PLOT DATE: 1/15/2007

IPARM FILE NAME: SURVEYED BY: FANTONI SURVEY DATE: 1/87

SQUAD LEADER: KEN UPMAL DRAWN BY: E. ATKINS

SHEET: 174 OF 239

DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

TRAFFIC SIGNAL SHEET 2