

PVC ELECTRICAL CONDUIT SLEEVE	
LOCATION	DIAL
209+91, 53' LT - 209+96, 53' LT	6"
209+93, 44' RT - 209+95, 35' RT	8"

WIRED CONDUIT (PVC)		
NO.	DIAL	REMARKS
1	1"	SIGNAL
2	3"	LOOPS & SIGNALS
1	2"	POWER
1	2"	SIGNAL
2	2"	LOOPS & SIGNAL

JUNCTION	
LOCATION AND	REMARKS
209+93, 44' RT	209+93, 35' RT

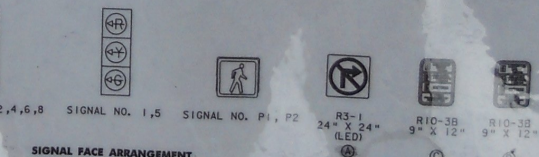
VEHICLE DETECTOR LOOPS										
LOOP NO.	LANE	CALL #	SIZE (FT)	TYPE & NO. TURNS	DELAY OR PRESENCE	INDUCTANCE CALC. ACT.	RESISTANCE CALC. ACT.	LEAKAGE TO GROUND	RECALL	
EXISTING	SB LT	1	6x30	QUAD - 2	PRESENCE					LOCK
EXISTING	NB TH, RT	2	6x55	QUAD - 1	PRESENCE					SOFT
EXISTING	EB TH, LT	4	6x30	QUAD - 2	PRESENCE					NON-LOCK
EXISTING	EB RT	4B	6x30	QUAD - 2	DELAY					NON-LOCK
EXISTING	NB LT	5	6x40	QUAD - 1	PRESENCE					LOCK
EXISTING	SB TH	6	6x70	QUAD - 2	PRESENCE					SOFT
EXISTING	WB TH, LT	8	6x30	QUAD - 2	PRESENCE					NON-LOCK
EXISTING	WB RT	8D	6x30	QUAD - 2	DELAY					NON-LOCK

COORDINATION TIMINGS (SECONDS)										
DIAL SPLIT	CYCLE LENGTH	PHASES								OFFSET
		1	2	4	5	6	8	SEC	X	
1-1	80	13	50	17	13	50	17	73	91	
1-2	80	13	39	28	13	39	28	5	6	
1-3	60	12	29	19	12	29	19	9	15	

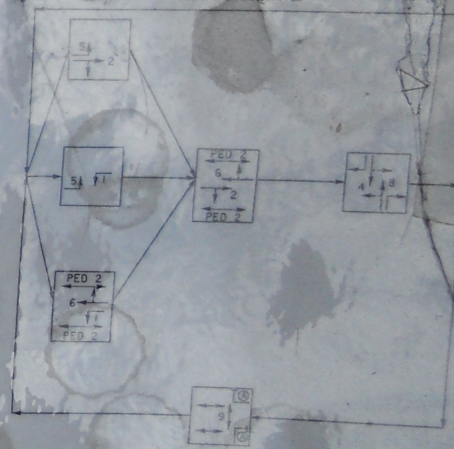
FOR ALL OTHER TIMES, THE INTERSECTION SHALL OPERATE IN FREE MODE (MAX 1).

CONTROLLER TIMINGS (SECONDS)										
PHASE	MIN. GREEN	PASSAGE	YELLOW	RED	MAX 2	MAX 1	WALK	FDW	DW	
1	6	2	4	2	15	15	-	-	-	
2	16	2	4	2	55	60	-	-	-	
4	8	2	4	2	30	30	-	-	-	
5	6	2	4	2	15	15	-	-	-	
6-PED 2	16	2	4	2	55	60	5	9	2	
8	8	2	4	2	30	30	-	-	-	
9	-	-	-	-	-	-	5	13	2	

NOTES: 1. TOO COORDINATION SHALL CALL SYSTEM TO MAX 2.
 2. MAX 1 SHALL BE IN EFFECT FOR FREE OPERATION.
 3. PHASES 2 AND 6 SHALL BE IN HARD RECALL DURING COORDINATION.
 4. DURING COORDINATION, MAXIMUM TIMES ON COORDINATION PHASES 2 AND 6 SHALL BE DISABLED.
 5. PED 2 SHALL BE RECALLED WITH PHASE 6.
 6. PHASE 9 SHALL BE CALLED ONLY UPON ACTIVATION OF PUSH BUTTONS FOR SIGNAL HEAD P1.



SIGNAL FACE ARRANGEMENT		
EXISTING	NEW	LEGEND
○	○	UTILITY POLE
○	○	LUMINAIRE
○	○	LIGHT OR WOOD POLE
○	○	STRAIN POLE
○	○	CONTROLLER CABINET
○	○	PULL BOX/JUNCTION BOX
○	○	SIGNAL HEAD
○	○	CONDUIT
○	○	VEHICLE LOOPS
○	○	PEDESTAL POST
○	○	SIGNS
○	○	DOUBLE JUNCTION BOX

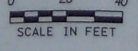


- NOTES:
- EXISTING CONDITION DATA IS BASED ON LIMITED INFORMATION. ALL LAYOUT AND EQUIPMENT NEEDS TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO ORDERING & INSTALLATION.
 - MOUNTING HEIGHT OF SIGN R3-1 SHALL BE 16' TO BOTTOM SIGN.
 - ALL NEW SIGNAL HEADS AND PEDESTRIAN SIGNALS SHALL BE LED. SIGN (A) SHALL BE LED.
 - ALL EXISTING SIGNAL EQUIPMENT THAT IS BEING REMOVED SHALL BE RETURNED TO THE VERMONT AGENCY OF TRANSPORTATION'S TRAFFIC SHOP AT THE CENTRAL GARAGE IN MONTPELIER AT THE COST OF THE CONTRACTOR. THE CONTRACTOR SHALL CALL THE TRAFFIC SHOP AT (802) 828-2680 TO ARRANGE A TIME TO DROP OFF THE EQUIPMENT.
 - ALL CONDUIT SLEEVES CROSSING PAVED ROADWAYS SHALL BE INSTALLED USING TRENCHLESS EXCAVATION. CONTRACTOR MAY REQUEST PERMISSION FROM RESIDENT ENGINEER TO USE TRENCH EXCAVATION IF SITE CONSTRAINTS EXIST. TRENCH EXCAVATION FOR ROUTE 7 CROSSINGS MAY BE REQUIRED TO BE DONE DURING EVENING HOURS, 6 PM - 6 AM. CONTRACTOR SHALL OBTAIN APPROVAL FOR NIGHT TIME WORK SEVEN DAYS IN ADVANCE FROM TOWN AND RESIDENT ENGINEER.

PLAN: 1-1 C = 88 SEC	PLAN: 1-2 C = 88 SEC	PLAN: 1-3 C = 68 SEC																																				
<table border="1"> <tr><td>01</td><td>02</td><td>04</td></tr> <tr><td>(7)(6)</td><td>(44)</td><td>(6)(11)(6)</td></tr> <tr><td>05</td><td>06</td><td>08</td></tr> <tr><td>(7)(6)</td><td>(44)</td><td>(6)(11)(6)</td></tr> </table>	01	02	04	(7)(6)	(44)	(6)(11)(6)	05	06	08	(7)(6)	(44)	(6)(11)(6)	<table border="1"> <tr><td>01</td><td>02</td><td>04</td></tr> <tr><td>(7)(6)</td><td>(44)</td><td>(6)(11)(6)</td></tr> <tr><td>05</td><td>06</td><td>08</td></tr> <tr><td>(7)(6)</td><td>(44)</td><td>(6)(11)(6)</td></tr> </table>	01	02	04	(7)(6)	(44)	(6)(11)(6)	05	06	08	(7)(6)	(44)	(6)(11)(6)	<table border="1"> <tr><td>01</td><td>02</td><td>04</td></tr> <tr><td>(6)(6)</td><td>(23)</td><td>(6)(13)</td></tr> <tr><td>05</td><td>06</td><td>08</td></tr> <tr><td>(6)(6)</td><td>(23)</td><td>(6)(13)</td></tr> </table>	01	02	04	(6)(6)	(23)	(6)(13)	05	06	08	(6)(6)	(23)	(6)(13)
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OFFSET = 73 SEC OR 91X	OFFSET = 5 SEC OR 6X	OFFSET = 9 SEC OR 15X																																				
FORCE OFF (**)	FORCE OFF (**)	FORCE OFF (**)																																				

AM NOON PM	AM NOON PM
53 189 156	110 1245 1164
56 1768 1557	127 1154 57
2 114 120	5 38 154

NOTES: OFFSETS CALCULATED FROM START OF PHASES 2+6 GREEN INTERVAL.
 * CLEARANCE INTERVAL
 ** LOCAL TIME ZERO



CENTRE & BROOKS PLAZAS

TRAFFIC SIGNAL DETAILS



PROJECT NAME: U.S. ROUTE 7/COURT STREET
 PROJECT NUMBER: NHG 019-3 (52)
 FILE NAME: trn-gmsa6.dwg
 PROJECT LEADER: MGS
 DESIGNED BY: GGG
 PLOT DATE: 04/18/2006
 DRAWN BY: TPL
 CHECKED BY: GAE
 SHEET 27 OF 33