

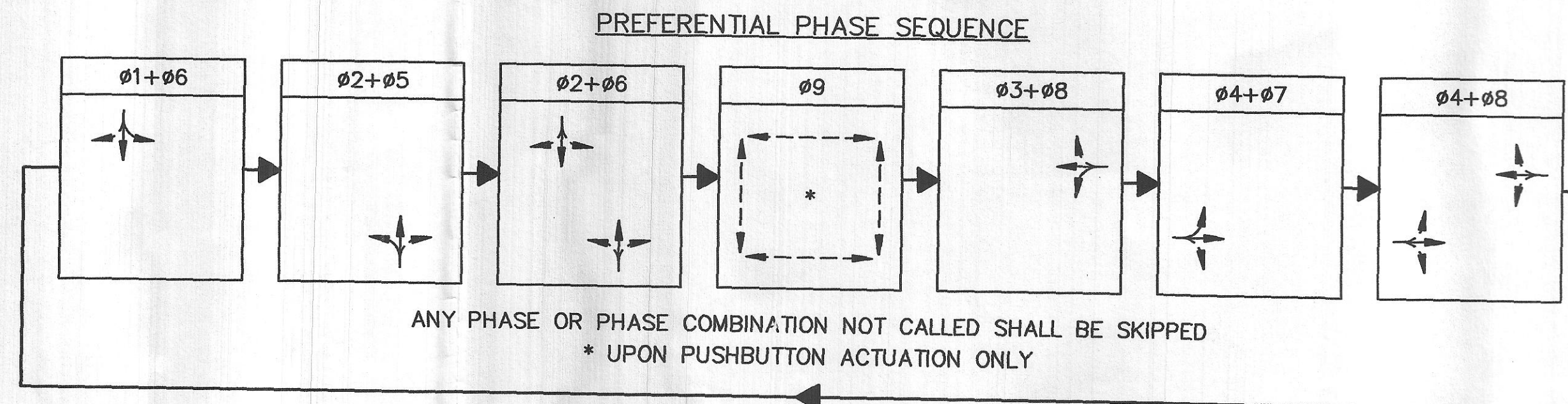
LOCATION-1

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- NOTES: 1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.12
2. DUAL ENTRY: PHASE 1 CALLS PHASE 6, PHASE 3 CALLS PHASE 8, PHASE 5 CALL PHASE 2, PHASE 7 CALLS PHASE 4.
3. PHASE 1 AND PHASE 5 ARE NOT COMPATIBLE.
4. PHASE 3 AND PHASE 7 ARE NOT COMPATIBLE.
5. PHASE 1, 3, 5 AND 7 MAY BE TURNED ON OR OFF AS A FUNCTION OF TIME OF DAY.
6. ODD PHASES MAY LEAD OR LAG.

ITEM 815.1 TRAFFIC SIGNAL CONSTRUCTION LIST OF MAJOR ITEMS REQUIRED	
QUANTITY	DESCRIPTION
1	EAGLE CABINET AND CONTROLLER: 8 PHASE TS2-TYPE 1, SPREAD SPECTRUM RADIO, OPTICOM PREEMPTION, GRAPHICS, CLOSED LOOP SYSTEM READY, GPS-TBC, FULL INPUT AND OUTPUT SUPPRESSION PACKAGE W/FOUNDATION & CONC. PAD
1	SPREAD SPECTRUM ANTENNA
1	ELECTRIC SERVICE CONNECTION
4	SIGNAL HEAD 1-WAY 3-SECTION 12" L.E.D. W/LOUVERED BACKPLATE & CAP VISOR PAINTED FACTORY GLOSS BLACK
4	SIGNAL HEAD 1-WAY 5-SECTION 12" L.E.D. W/LOUVERED BACKPLATE & CAP VISOR PAINTED FACTORY GLOSS BLACK
8	PEDESTRIAN SIGNAL HEAD 12" HOUSING PAINTED FACTORY GLOSS BLACK, L.E.D. W/SOLID HAND & MAN, PUSHBUTTONS & SIGNS
2	PREEMPTION CONFIRMATION HIGH INTENSITY CLEAR STROBE
4	OPTICOM DETECTOR (MODEL 711)
2	2-CHANNEL PHASE SELECTOR AND RACK (700 SERIES)
8	10 FT. ALUM. PEDESTAL POLE W/FND. PAINTED FACTORY GLOSS BLACK
8	QUADRUPOLE VEHICLE DETECTION LOOP 6'x23' (2 TURNS)
4	2 CHANNEL LOOP DETECTOR AMPLIFIER - RACK MOUNTED
4	R10-12 SIGN, 30"x36"
PLUS ALL MISCELLANEOUS EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL SYSTEM.	
550 FT	3" SCHEDULE 80 PVC CONDUIT
4	PULLBOX 12"x12"
4	PULLBOX 12"x24"

PROPOSED SIGNAL HEAD DATA		
A,C,E,G	B,D,F,H	P1-P8
12" L.E.D. LENSES W/5" LOUVERED BACKPLATE		12" HOUSING W/L.E.D. SIGNAL INDICATIONS



- PLAN NOTES: 1. PHASE ORDER AND LEAD/LAG LEFT TURNS MAY BE OMITTED OR PROGRAMMED AS A FUNCTION OF "TIME OF DAY".
2. VEHICLE TURNING MOVEMENTS NOT SUPPORTED BY ARROW INDICATION SHOWN AS A DASHED ARROW ON PLAN.

RECEIVER/ PREEMPT 1	RECEIVER/ PREEMPT 2	RECEIVER/ PREEMPT 3	RECEIVER/ PREEMPT 4
			
$\phi 1 + \phi 6$	$\phi 2 + \phi 5$	$\phi 3 + \phi 8$	$\phi 4 + \phi 7$

EMERGENCY VEHICLE PREEMPTION OPERATION:

1. EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT THE INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
2. PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAN THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED). OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
4. NORMAL CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
5. MINIMUM GREEN FOR PREEMPTION SEQUENCES SHALL BE 6 SECONDS.

CONSTRUCTION NOTES:

1. CONTROLLER PROGRAMMING SHALL BE ACCOMPLISHED BY QUALIFIED FACTORY REPRESENTATIVES.

DETECTOR DATA							
DETECTOR NUMBER	NUMBER SECTION/ SIZE	NUMBER OF TURNS	OPERATIONS	CALL DELAY	CALL PHASE	EXT. PHASE	LOOP CORRECT
1	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	1/6	1/6	DIRECT
2	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	2/5	2/5	DIRECT
3	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	3/8	3/8	DIRECT
4	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	4/7	4/7	DIRECT
5	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	2/5	2/5	DIRECT
6	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	1/6	1/6	DIRECT
7	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	4/7	4/7	DIRECT
8	1-6"x23"	2 QUADRUPOLE	PRESENCE	-	3/8	3/8	DIRECT

PROJECT TITLE


Coggeshall Street at
I-195 Westbound
Ramps

New Bedford,
Massachusetts

PREPARED FOR

City of New Bedford

New Bedford,
Massachusetts

WAI  **Waters & Associates, Inc.**
Transportation Engineers & Planners

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DESIGNED BY	AJD
DRAWN BY	BPD
CHECKED BY	---
DATE	JUNE 2009
SCALE	NTS

STAMP

[illegible]

DRAWING TITLE

Traffic Signal Data
Sawyer Street at
Belleville Avenue

SHEET 36 OF 45	DRAWING NUMBER
JOB NO. 5554	TR9