

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.15 (MS-307: US 7 & SEWARD ROAD)	QUANTITY
ECONOLITE COBALT TRAFFIC SIGNAL CONTROLLER (NEMA TS2)	1
NEMA "P44" BASE MOUNTED CONTROLLER CABINET WITH 15-INCH EXTENDED BASE ON A CONCRETE FOUNDATION, POWDER COATED FLAT BLACK WITH ANCILLARY CONTROL EQUIPMENT	1
POWDER COATED FLAT BLACK STEEL MAST ARM SIGNAL POLE WITH 35 FOOT MAST ARM (MAP-1)	1
POWDER COATED FLAT BLACK STEEL MAST ARM SIGNAL POLE WITH 45 FOOT MAST ARM (MAP-2)	1
POWDER COATED FLAT BLACK STEEL MAST ARM SIGNAL POLE WITH 55 FOOT MAST ARM (MAP-3)	1
POWDER COATED FLAT BLACK STEEL MAST ARM SIGNAL POLE WITH 10 FOOT MAST ARM (MAP-4)	1
ONE WAY, 3-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5-INCH LOUVERED BACKPLATES WITH 2-INCH RETROREFLECTIVE TAPE BORDER. ALL PIECES TO BE FLAT BLACK.	7
ONE WAY, 4-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5-INCH LOUVERED BACKPLATES WITH 2-INCH RETROREFLECTIVE TAPE BORDER. ALL PIECES TO BE FLAT BLACK.	2
ONE WAY, 5-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND 5-INCH LOUVERED BACKPLATES WITH 2-INCH RETROREFLECTIVE TAPE BORDER. ALL PIECES TO BE FLAT BLACK.	2
SIGNAL MOUNTING HARDWARE	11
VEHICLE DETECTOR EXTENSION BRACKET	6
STOP BAR DETECTOR ASSEMBLY	4
ADVANCE DETECTOR ASSEMBLY	2
VEHICLE DETECTION PROCESSOR	2
ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLIES POLE MOUNTED WITH LOCATOR TONE, R10-3e SIGN, FLAT BLACK HOUSING	6
ACCESSIBLE PEDESTRIAN SIGNAL HEADS COUNTDOWN STYLE, FLAT BLACK HOUSING	3
ACCESSIBLE PEDESTRIAN SIGNAL HEADS COUNTDOWN STYLE, FLAT BLACK HOUSING POLE MOUNTED	3
PEDESTRIAN PEDESTAL POST	3
GPS TIME CLOCK	1

CONDUIT SCHEDULE

CONDUIT	WRED CONDUIT		ELECTRICAL CONDUIT		DESCRIPTION
	2"	4"	2"	4"	
STANCHION TO JB-2	41				POWER
JB-2 TO CC	17				POWER
JB-2 TO CC	17				SIGNAL/LIGHTING
JB-2 TO CC	17				VEHICLE DETECTION
JB-2 TO CC			17		FUTURE USE
CC TO MAP-2	10				SIGNAL/LIGHTING
CC TO MAP-2	10				VEHICLE DETECTION
CC TO MAP-2			10		FUTURE USE
MAP-2 TO PP-1	19				PED FACILITY
MAP-2 TO PP-1			19		FUTURE USE
JB-2 TO JB-1	119				SIGNAL/LIGHTING
JB-2 TO JB-1	119				VEHICLE DETECTION
JB-2 TO JB-1			119		FUTURE USE
JB-2 TO JB-4	82				SIGNAL/LIGHTING
JB-2 TO JB-4	82				VEHICLE DETECTION
JB-2 TO JB-4			82		FUTURE USE
JB-1 TO MAP-1	19				SIGNAL/LIGHTING
JB-1 TO MAP-1	19				VEHICLE DETECTION
JB-1 TO MAP-1			19		FUTURE USE
JB-1 TO JB-3	101				SIGNAL/LIGHTING
JB-1 TO JB-3	101				VEHICLE DETECTION
JB-1 TO JB-3			101		FUTURE USE
JB-3 TO MAP-3	20				SIGNAL/LIGHTING
JB-3 TO MAP-3	20				DETECTION
JB-3 TO MAP-3			20		FUTURE USE
JB-3 TO PP-2	9				PED FACILITY
JB-3 TO PP-2			9		FUTURE USE
JB-4 TO MAP-4	14				SIGNAL/LIGHTING
JB-4 TO MAP-4	14				VEHICLE DETECTION
JB-4 TO MAP-4			14		FUTURE USE
MAP-4 TO PP-3	37				PED FACILITY
MAP-4 TO PP-3			37		FUTURE USE
SUBTOTAL	887		447		
ROUNDING	13		3		
TOTALS	900		450		

SEE AS BUILT SCHEDULE NEXT PAGE

CONTROLLER TIMING INFORMATION

CONTROLLER TIMING CHART									
PHASE	1	2	3	4	5	6	7	8	9
IN USE	X	X		X	X	X		X	
TRAFFIC MOVEMENT	←	↑		←↑	←	↑		←↑	
MIN. GREEN	8	8		8	8	8		8	
WALK		7		7		7		7	
PED CLEAR		20		23		20		23	
DELAYED GREEN		5		5		5		5	
MAX 1 - GREEN (OFF)	28	29		32	28	29		32	
MAX 2 - GREEN (AM)	10	27		32	10	27		32	
MAX 3 - GREEN (PM)	29	33		37	29	33		37	
YELLOW CLEARANCE	4.5	4.5		4	4.5	4.5		4	
ALL RED CLEARANCE	2.5	2.5		3	2.5	2.5		3	
VEHICLE EXTENSION	3	3		3	3	3		3	
RECALL MODE		SOFT				SOFT			

COORDINATION PLAN

PATTERN	COS	CYCLE	FLASH	OFFSET	SPLIT PHASES/SPLIT TIMES									
					1	2	3	4	5	6	7	8		
1	FREE		N/A											
2	111	110	5	35	36		39	35	36					39
3	222	90	73	17	34		39	17	34					39
4	333	120	75	36	40		44	36	40					44

COORDINATED STEPS

PLAN NO.	EVENT	ACTION PLAN	TIMES			
1	1	1	12:00 AM	TO		6:00 AM
1	2	3	6:00 AM	TO		9:00 AM
1	3	2	9:00 AM	TO		3:30 PM
1	4	4	3:30 PM	TO		6:00 PM
1	5	2	6:00 PM	TO		12:00 AM

TIME OF DAY PROGRAM

WEEKDAY TIMINGS			
FLASH	12:00 AM	TO	6:00 AM
MAX 2 - AM PEAK	6:00 AM	TO	9:00 AM
MAX 1 - OFF PEAK	9:00 AM	TO	3:30 PM
MAX 3 - PM PEAK	3:30 PM	TO	6:00 PM
MAX 1 - OFF PEAK	6:00 PM	TO	12:00 AM

ACTION PLAN

ACTION PLAN	SPLIT PATTERN
1	254 - FREE
2	2
3	3
4	4
5	255 - FLASH

PROJECT NAME:	RUTLAND TOWN
PROJECT NUMBER:	NHG 019-3(60)
FILE NAME: t14t190trrf.dgn	PLOT DATE: 2/7/2017
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: P. COBURN
TRAFFIC SIGNAL INFORMATION SHEET	SHEET 10 OF 17