

PROPOSED SIGNALS

A B,C,D,E,F,G,H P1 - P6

R
R
Y
G
G

NOTES: 1. ALL INDICATIONS SHALL BE "LED" TYPE LENS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

MOUNTED. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH CUT TUNNEL VISORS AND 5" SOLID BACKPLATES.

2. ALL OVERHEAD SIGNALS SHALL BE RIGIDLY

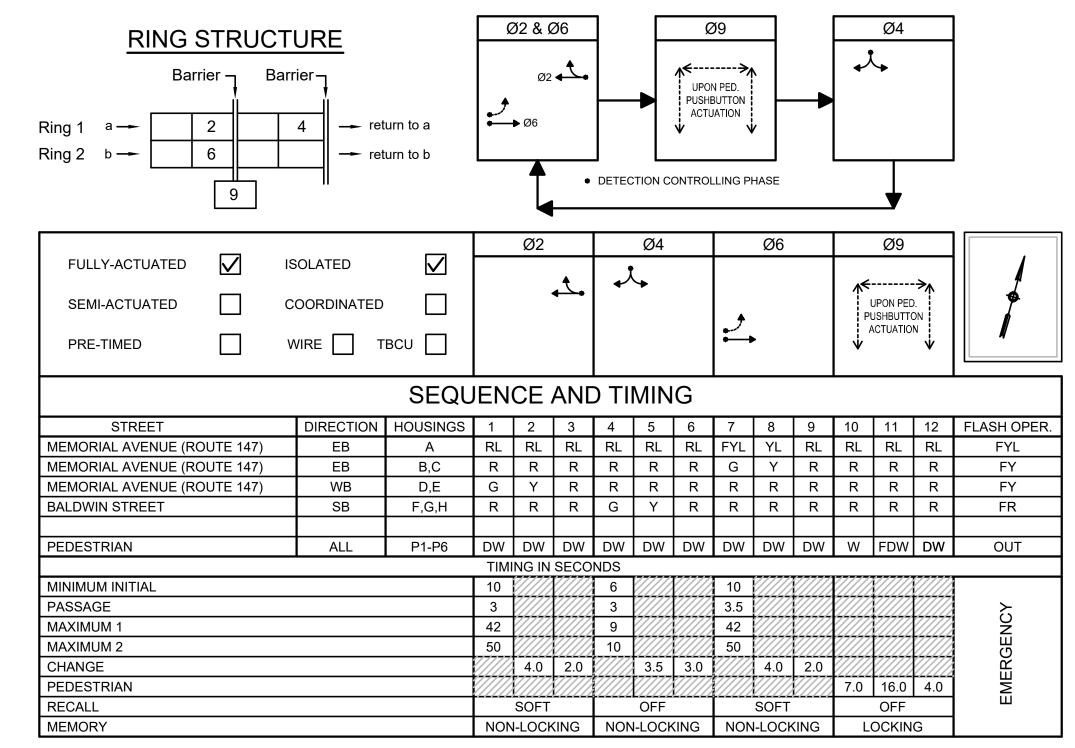
- 3. ALL VEHICLE SIGNAL HEAD BACKPLATES SHALL INCLUDE A 3" RETRO-REFLECTIVE BORDER IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- 4. ALL PEDESTRIAN DISPLAY SHALL BE "FULL" DISPLAYS. NO OUTLINE SYMBOL SHALL BE PERMITTED.

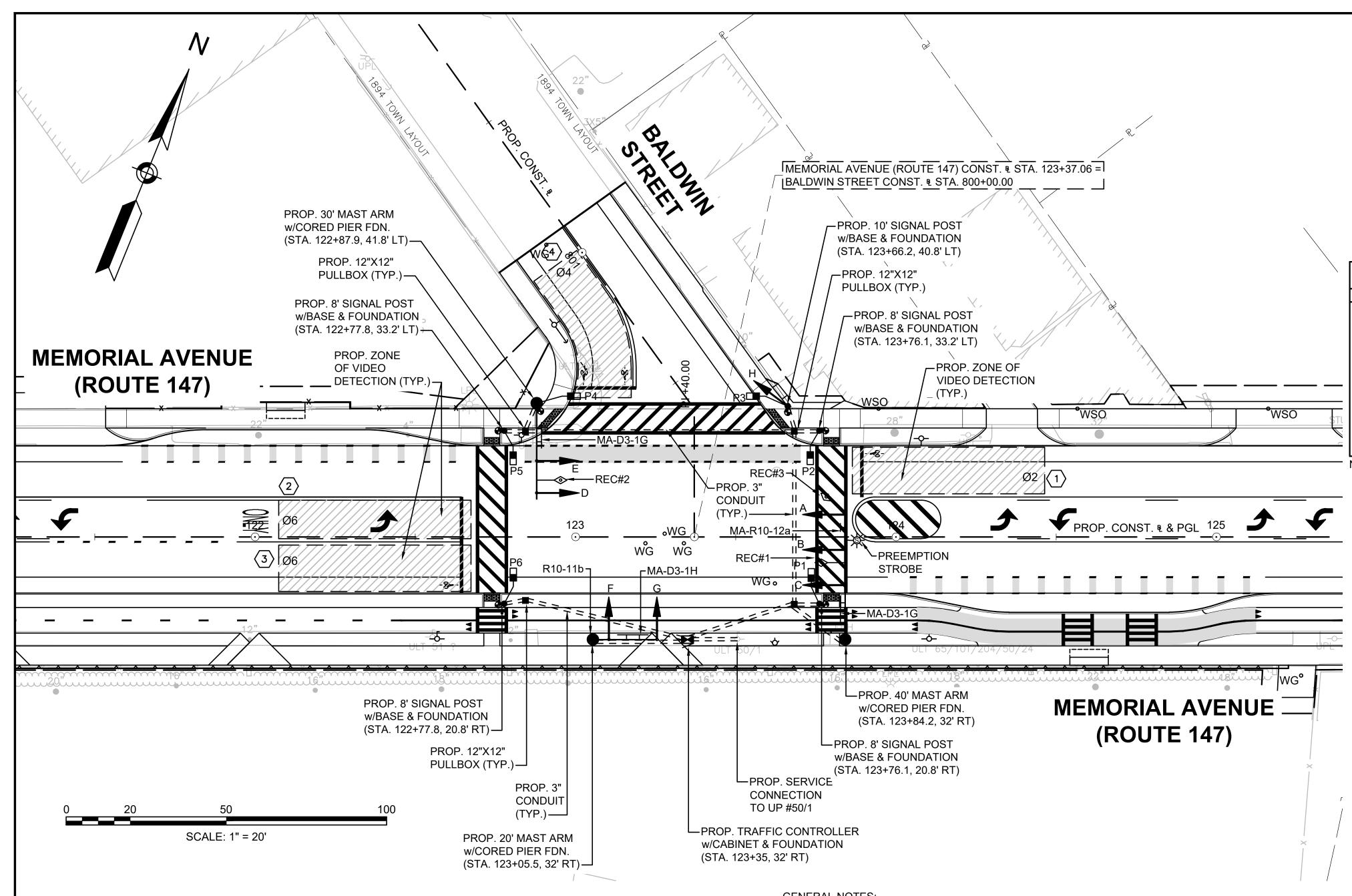
QUANTITY	DESCRIPTION
1	TRAFFIC CONTROLLER & CABINET NEMA TS2-TYPE 1 w/FOUNDATION
1	SERVICE CONNECTION (OVERHEAD FROM UTILITY POLE #50/1
1	20' MAST ARM ASSEMBLY, BASE & FDN.
1	30' MAST ARM ASSEMBLY, BASE & FDN.
1	40' MAST ARM ASSEMBLY, BASE & FDN.
1	30' MAST ARM ASSEMBLY, BASE & FDN. (NOTE: TO BE INSTALLED AT THE BEGINNING OF TWO WAY LEFT TURN LANE AT STA. 105+80, 32' LT)
4	8' SIGNAL POST, BASE & FDN.
1	10' SIGNAL POST, BASE & FDN.
8	SIGNAL HEAD, 3 SECTION
6	PEDESTRIAN HOUSING GRAPHIC LED WITH COUNTDOWN TIMER
6	AUDIBLE & VIBRO-TACTILE PEDESTRIAN PUSH BUTTON (APS TYPE) INTEGRATED R10-3e SIGN & SADDLE w/LED CONFIRMATION LIGHT
3	EXTENSION BRACKET MOUNT FOR PEDESTRIAN PUSH BUTTON (SEE NOTE 1)
1	VIDEO DETECTION SYSTEM INCLUDING CAMERA(S) AND PROCESSORS (SEE SPECIAL PROVISIONS)
4	PULL BOX 12"x12" - SD2.031 (PAY SEPARATELY UNDER ITEM 811.31)
310	3" ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL) (SCHEDULE 80) (PAY SEPARATELY UNDER ITEM 804.3)
3	UNIDIRECTIONAL SINGLE CHANNEL OPTICAL DETECTOR (RECEIVER)
2	PREEMPTION 2-CHANNEL PHASE SELECTOR
1	PREEMPTION CONFIRMATION STROBE (CLEAR)

1 FOR PEDESTRIAN PUSH BUTTON P1, P4 AND P6, AN EXTENSION BRACKET IS REQUIRED FOR MAXIMUM SIDE REACH OF 10" AS PER ADA ACCESSIBILITY GUIDELINES (ADAAG).

TRAFFIC CONTROLLER DATA						
PARAMETER	SELECTION					
PHASE ASSIGNMENTS	STD. NEMA					
OVERLAPS	STD. NEMA					
RINGS	DUAL					
DUAL ENTRY	ON (Ø2 & Ø6)					
SIMULTANEOUS GAP OUT DISABLED	YES (Ø2 & Ø6)					
MINIMUM YELLOW IN SECONDS	3					
MAX II BY INTERNAL CLOCK	YES					
NIGHT TIME FLASH BY INTERNAL CLOCK	NOT USED					

PREFERENTIAL PHASE SEQUENCE





EMERGENCY VEHICLE PREEMPTION EB WB SB PREEMPT#1 PREEMPT#2 PREEMPT#3

EMERGENCY VEHICLE PREEMPTION OPERATION

REC#1

- 1. EMERGENCY VEHICLE PREEMPTION SIGNAL SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS (RECEIVERS) LOCATED AT THE INTERSECTION.
- PREEMPTION SIGNALS SHALL BE SERVICED ON A FIRST COME FIRST SERVED BASIS. IN CASE WHERE TWO OR MORE CALLS ARE COMING IN AT THE SAME TIME, PREEMPTION SHALL BE PRIORITIZED WITH PREEMPT #1 (ROUTE 147 EB) FIRST, THEN FOLLOW BY PREEMPT #2 (ROUTE 147 WB), THEN PREEMPT #3 (BRESNAHAN STREET) AND PREEMPT #4 (COMMERCIAL DRIVEWAY).
- 3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED BY OPTICAL DETECTOR REC#1 (OR REC#2, REC#3, REC#4), THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PREEMPTION SIGNAL #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME THE RELEVANT CLEARANCE INTERVALS AND SERVICE THE SUBSEQUENT EMERGENCY VEHICLE PREEMPTION SIGNAL IF NECESSARY. NORMAL SIGNAL OPERATION SHALL RESUME PROVIDED THAT ALL PREEMPTION SIGNALS HAVE CEASED.
- 4. NORMAL VEHICLE CLEARANCES SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
- 5. PREEMPTION STROBE SHALL BE ILLUMINATED ONLY WHEN THE PREEMPTION PHASE IS ON GREEN.

GENERAL NOTES:

- 1. OPTICAL RECEIVERS MAY BE RELOCATED BY THE SIGNAL CONTRACTOR FOR OPTIMUM LINE OF SIGHT DETECTION. CHANGES SHALL BE VERIFIED BY THE ENGINEER.
- 2. THE DETECTION CAMERAS SHOWN ON THE PLAN ARE NOT FINAL. CONTRACTOR HAS THE OPTION TO INSTALL A SINGLE 360° CAMERA AND/OR MULTIPLE CAMERAS PER APPROACH TO ACHIEVE THE REQUIRED DETECTION ZONES AS SHOWN. CONTRACTOR SHALL ENSURE THE LOADING OF THE CAMERA(S) IS INCLUDED IN THE CALCULATION OF THE MAST ARM.
- 3. SEE "TRAFFIC SIGN & PAVEMENT MARKING PLANS" FOR ALL PROPOSED SIGNS AND EXISTING SIGNS.
- 4. CONTRACTOR SHALL COORDINATE WITH EVERSOURCE FOR THE INSTALLATION OF THE MAST ARMS AND THEIR FOUNDATIONS IN ORDER TO COMPLETE THE INSTALLATION WITHOUT DISRUPTION TO SERVICE. CONTRACTOR SHALL REVIEW WITH EVERSOURCE THE LOCATIONS OF PROPOSED DRILL RIGS AND CRANE LOCATIONS TO AVOID CONFLICTS.
- 4. REMOVE & STACK ALL EXISTING TRAFFIC SIGNAL EQUIPMENT COMPLETE. ABANDON ALL PULL BOXES AND HANDHOLES (R&S FRAMES & COVERS).

DETECTION DATA									
DETECTION ZONE NO.	LOCATION	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME			
1	MEMORIAL AVENUE WB THRU/RIGHT	2	2	В	-	-			
2	MEMORIAL AVENUE EB LEFT	6	6	В	-	ı			
3	MEMORIAL AVENUE EB THRU	6	6	В	-	ı			
4	BALDWIN STREET SB LEFT/RIGHT	4	4	В	-				

