

SEQUENCE AND TIMING PLAN (RESERVOIR AVE @ MASHAPAUG COMMON)											
APPROACH	ø5 (VEH)			ø6 (VEH)			ø8 (VEH)			DIRECTION	HOUSING
MINIMUM	7			7			7				
VEHICLE EXTENSION	2.4			2.4			2.4				
MAXIMUM GRN	22			23			30				
YELLOW CLEARANCE		3.0			3.0			3.0			
RED CLEARANCE			2.0			2.0			2.0		
PED WALK CLEARANCE				7/23			7/15				
RESERVOIR AVE	G	Y	R	G	Y	R	R	R	R	NEB	A1
RESERVOIR AVE, LEFT	←G	Y	R	G	Y	R	R	R	R	NEB	B1
RESERVOIR AVE	R	R	R	G	Y	R	R	R	R	SWB	A2
MASHAPAUG COMMONS	R	R	R	R	R	R	G	Y	R	SEB	A3
PED. CROSSING	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW	N-S	P1
PED. CROSSING	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	E-W	P2
DETECTOR	NON-LOCK			NON-LOCK			NON-LOCK				
RECALL	MIN-OFF			MIN-ON			MIN-OFF				

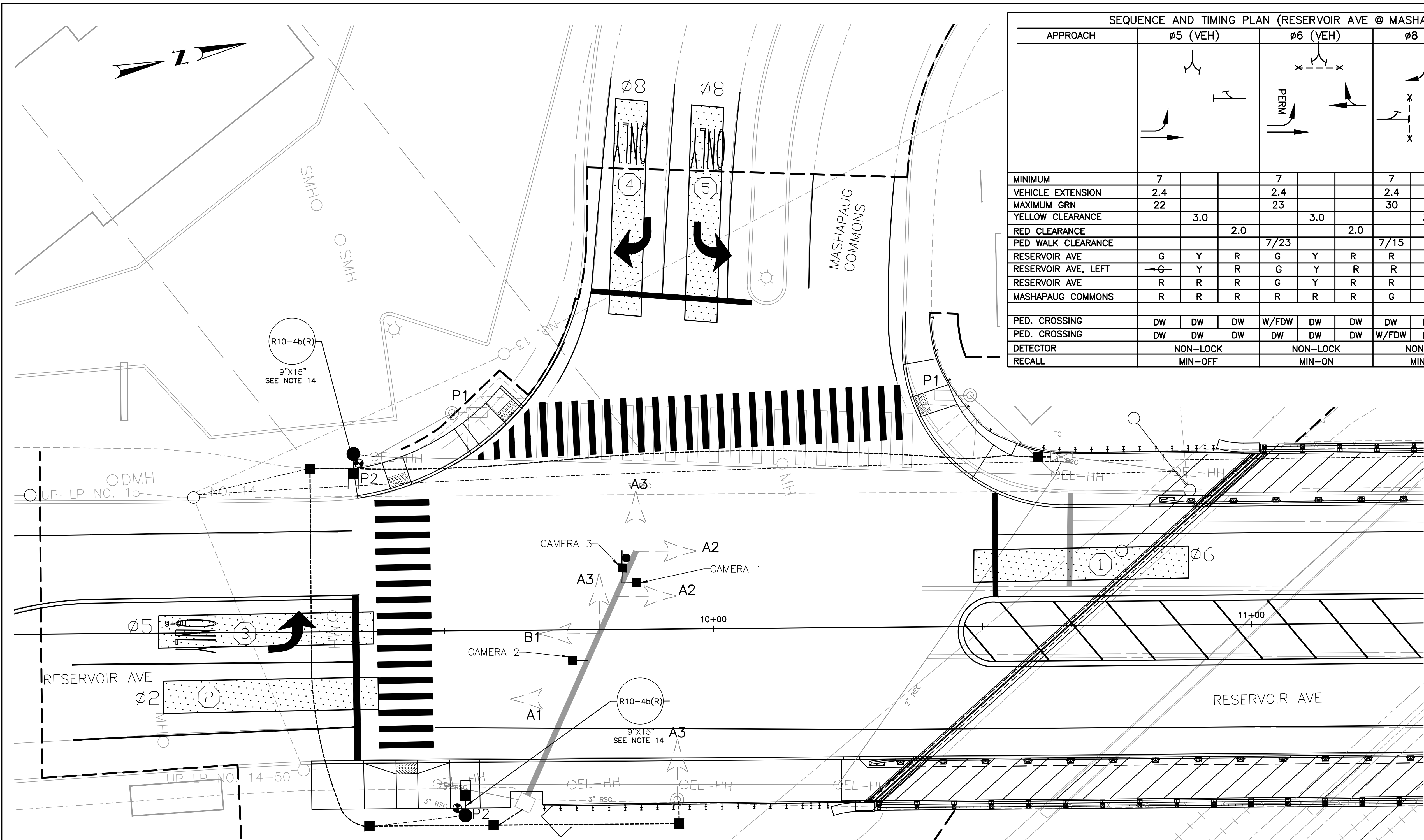
TIMING PLAN	CYCLE LENGTH	OFFSET
AM PEAK	90	11
OFF PEAK	90	76
PM PEAK	90	0

- SEQUENCE AND TIMING NOTES:**
1. PERM = PERMISSIVE
 2. OL = OVERLAP
 3. MAX GRN (AM PEAK) = 6AM-9AM
 4. MAX GRN (PM PEAK) = 3PM-6PM
 5. MAX GRN (OFF PEAK) = 9AM-3PM & 6PM-6AM
 6. PED. W/FDW UPON PUSHBUTTON ACUATION ONLY

SIGNAL HEAD DATA		
EXISTING TO REMAIN		
A (6)	B (1)	P1 (2)

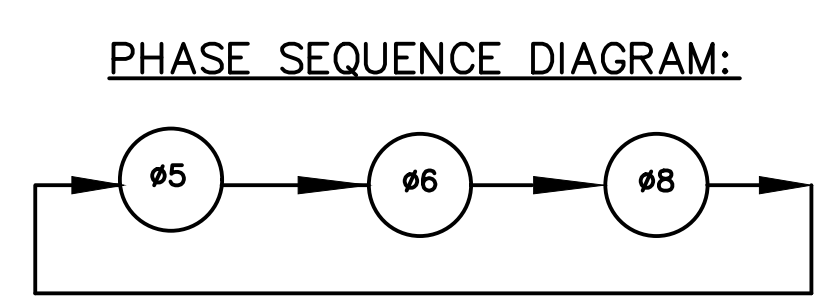
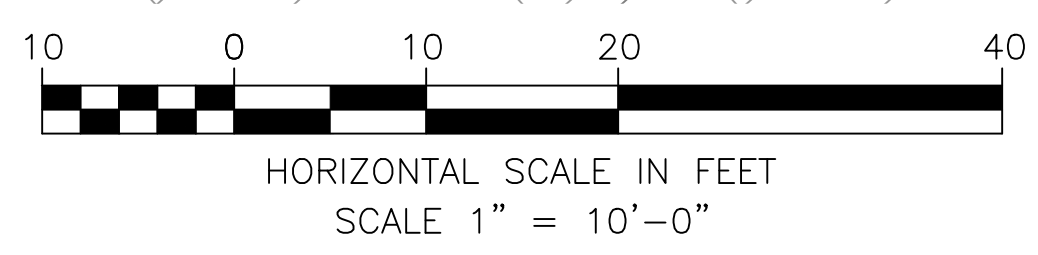
SIGNAL HEAD DATA	
PROPOSED	
P2 (2)	

- SIGNAL HEAD NOTES:**
1. ALL PROPOSED SIGNALS SHALL BE FOREST GREEN IN COLOR, MATCH EXISTING
 2. ALL PROPOSED PEDESTRIAN SIGNAL HEADS SHALL BE EQUIPPED WITH BACKPLATES.



- GENERAL NOTES:**
1. THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE VIDEO DETECTION ZONES. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
 2. A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. "BARE GROUND WIRE" WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE OF PVC CONDUIT ITEMS.
 3. FINAL PLACEMENT OF PEDESTRIAN SIGNAL HEADS, DETECTORS, STOP BARS AND CROSSWALKS TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION ACCORDING TO OBSERVED INTERSECTION CHARACTERISTICS BY THE ENGINEER.
 4. A 2-FOOT MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIANS SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
 5. WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STANDARD 43.1.0. NO PATCHES WILL BE ALLOWED.
 6. NO HANDHOLES SHALL BE INSTALLED IN WHEELCHAIR RAMPS.
 7. THE SIGNAL SHALL OPERATE IN "FREE" MODE DURING TIMES WHEN A PLAN IS NOT CALLED FOR.
 8. ALL EXISTING EQUIPMENT TO REMAIN INCLUDING, BUT NOT LIMITED TO: SIGNING, STRIPING, MAST ARMS, POLES, PEDESTRIAN HEADS, CABINET, DETECTOR EQUIPMENT, AND ALL SIGNAL EQUIPMENT.
 9. NO SPLICES ARE TO BE MADE IN THE SYSTEM. (ALL CABLES ARE TO BE RUN DIRECTLY FROM CONTROL CABINET TO SIGNALS)
 10. ALL USED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF PROVIDENCE AND DELIVERED TO A LOCATION DESIGNATED BY THE DEPARTMENT OF TRAFFIC ENGINEERING. SCRAP MATERIAL/EQUIPMENT SHALL ONLY BE DEEMED DISPOSED OF BY THE DEPARTMENT OF TRAFFIC ENGINEERING.
 11. ANY DAMAGE DONE BY THE CONTRACTOR TO EXISTING TRAFFIC SIGNAL EQUIPMENT CONDUIT OR CABLE SHALL BE REPLACED AT NO EXPENSE TO THE PROJECT.
 12. SIGNS R10-4b(L) AND R10-4b(R) WILL BE MOUNTED ON THE PEDESTRIAN SIGNAL POST.

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	PHASE	REMARKS
ø1	1	6'x40'	3	ø6	PROPOSED
ø2	2	6'x40'	3	ø2	PROPOSED
ø3	2	6'x40'	3	ø5	PROPOSED
ø4	3	6'x40'	3	ø8	PROPOSED
ø5	3	6'x40'	3	ø8	PROPOSED



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REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE REPLACEMENT
 RESERVOIR AVE. RR BRIDGE NO. 327

PROVIDENCE, RHODE ISLAND

TRAFFIC SIGNAL PLAN
 MASHAPAUG COM & RESERVOIR AVE

SHEET 2 OF 4

CHECKED BY WJM DATE 11/23/2020 SCALE AS NOTED