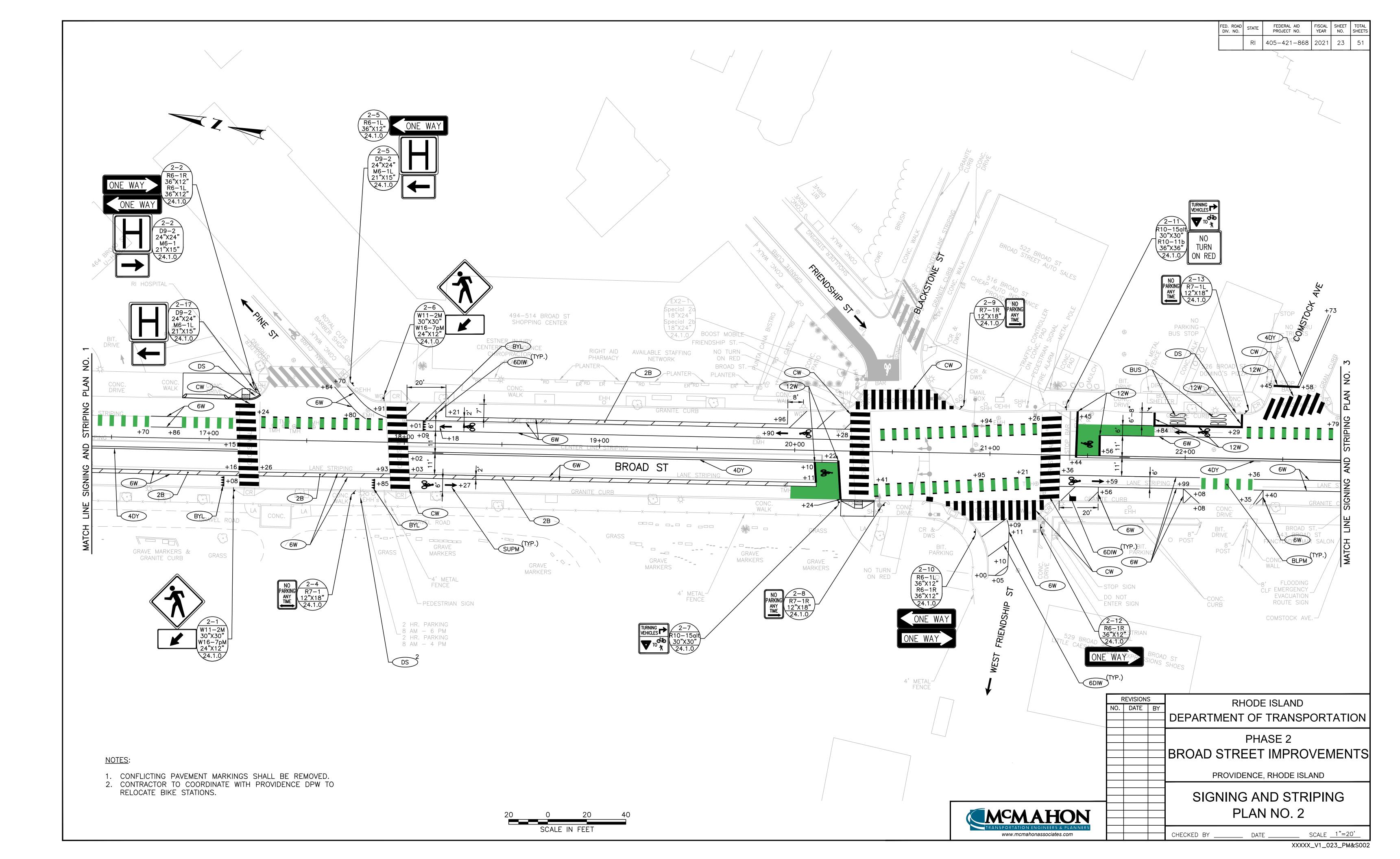
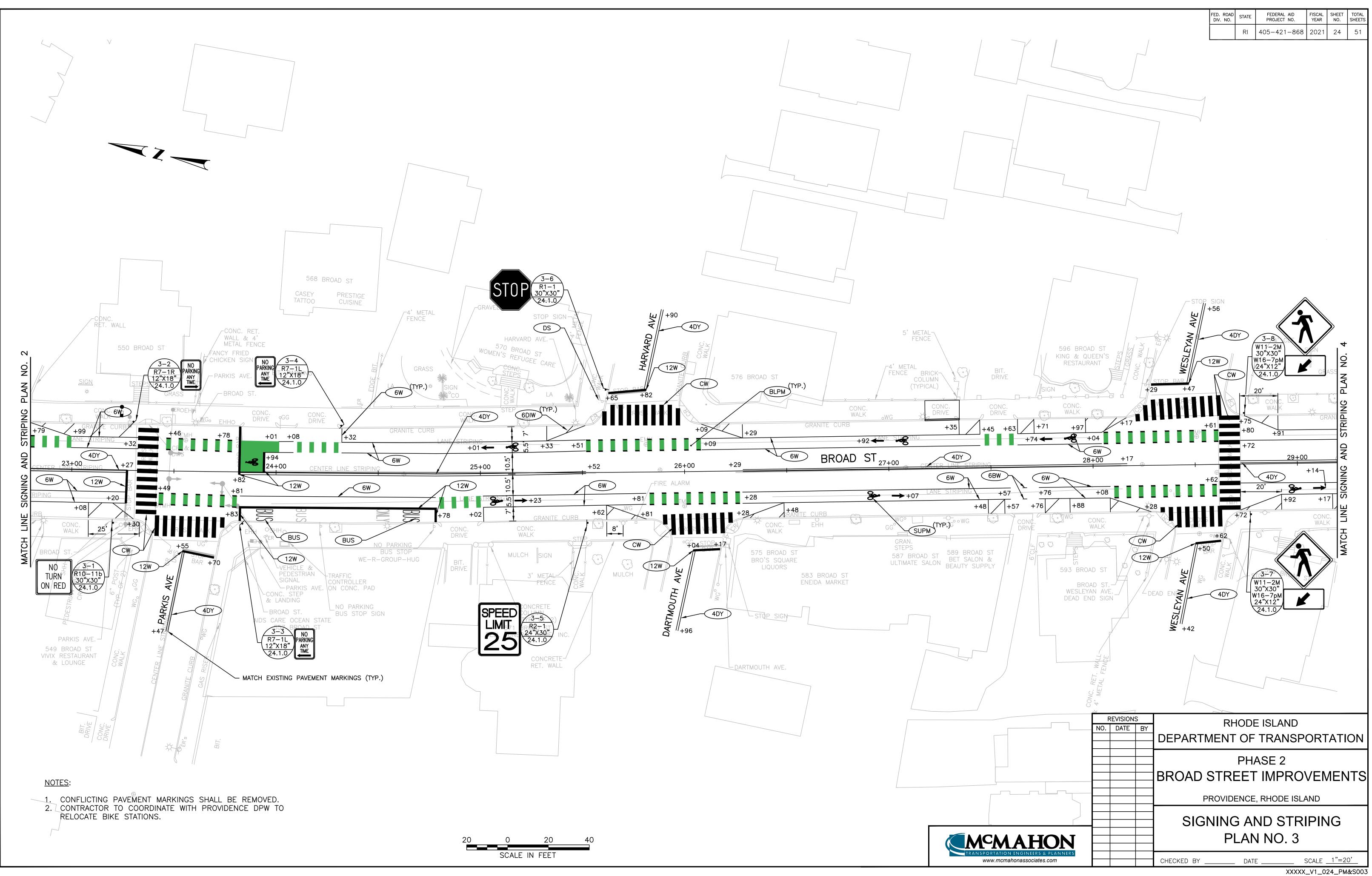
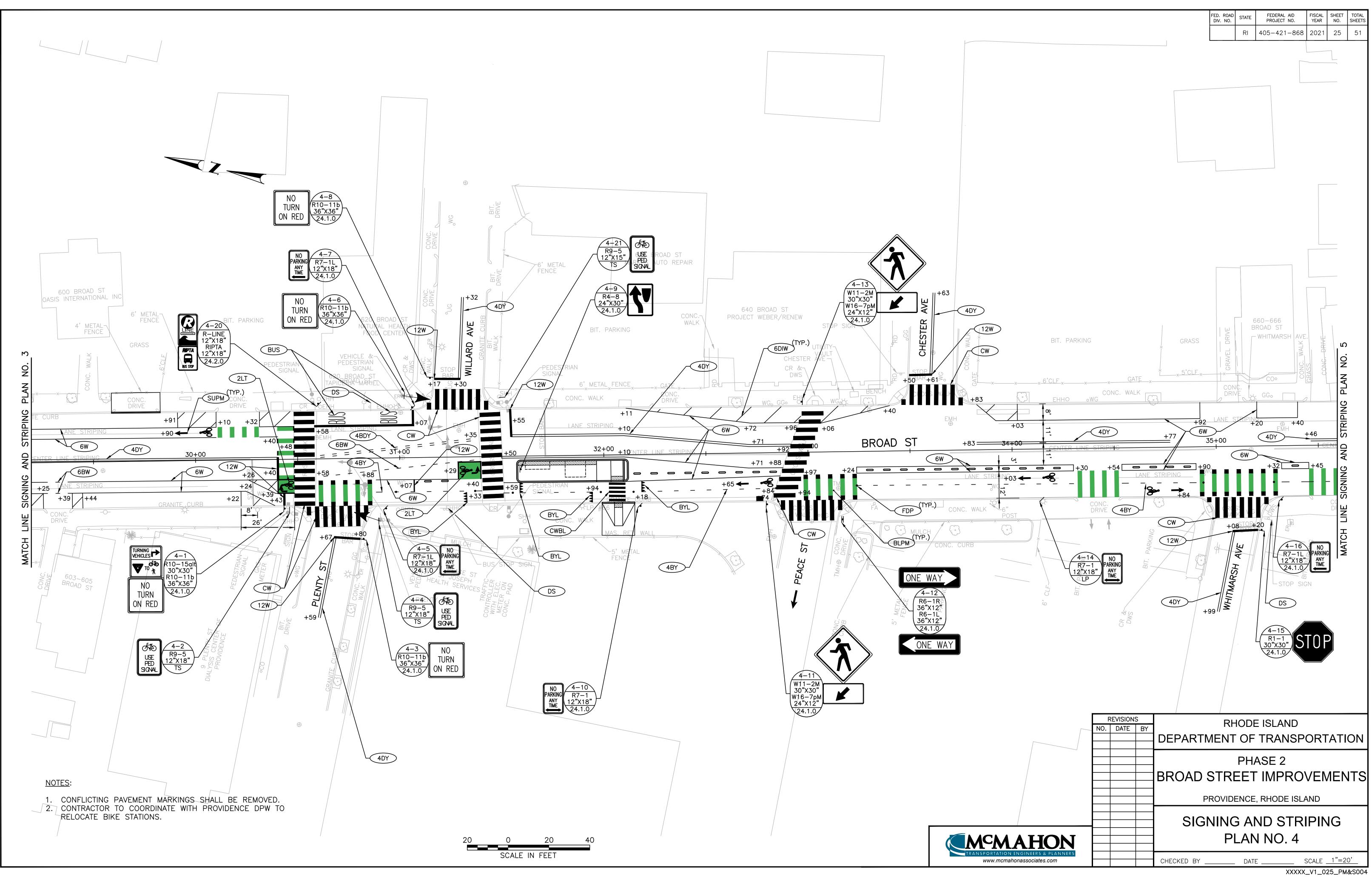


20	0	20	40
	SCALE	IN FEET	

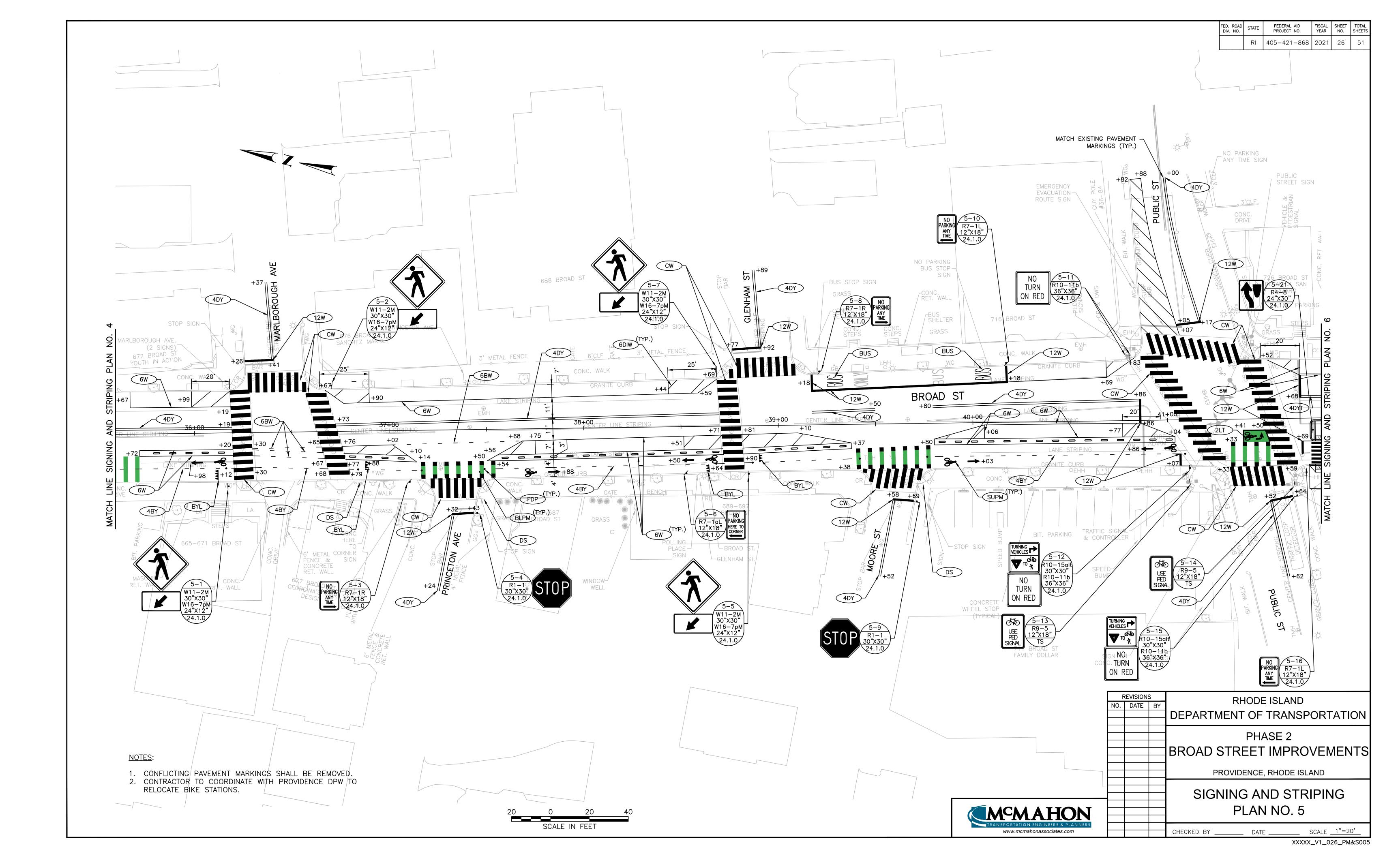


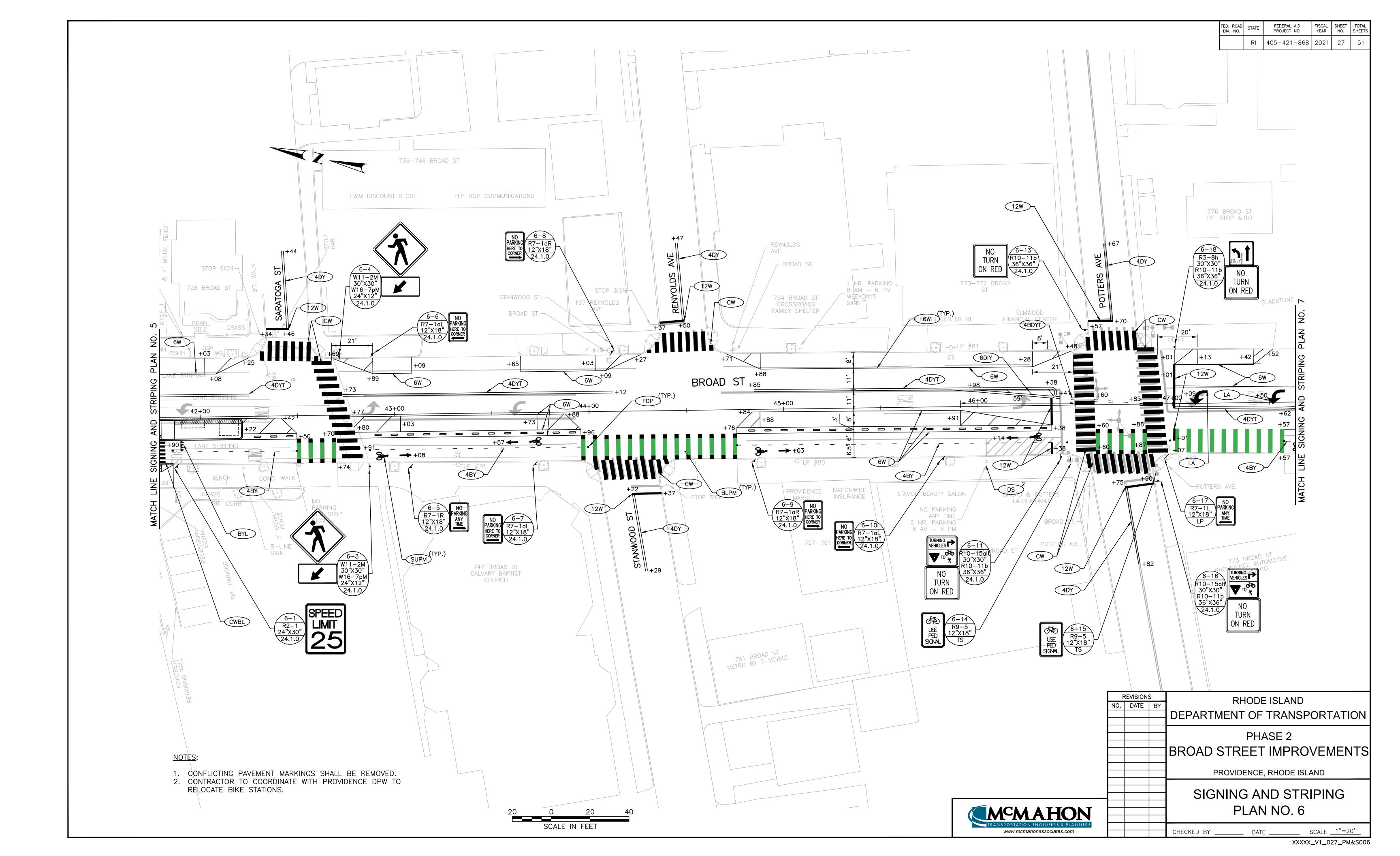


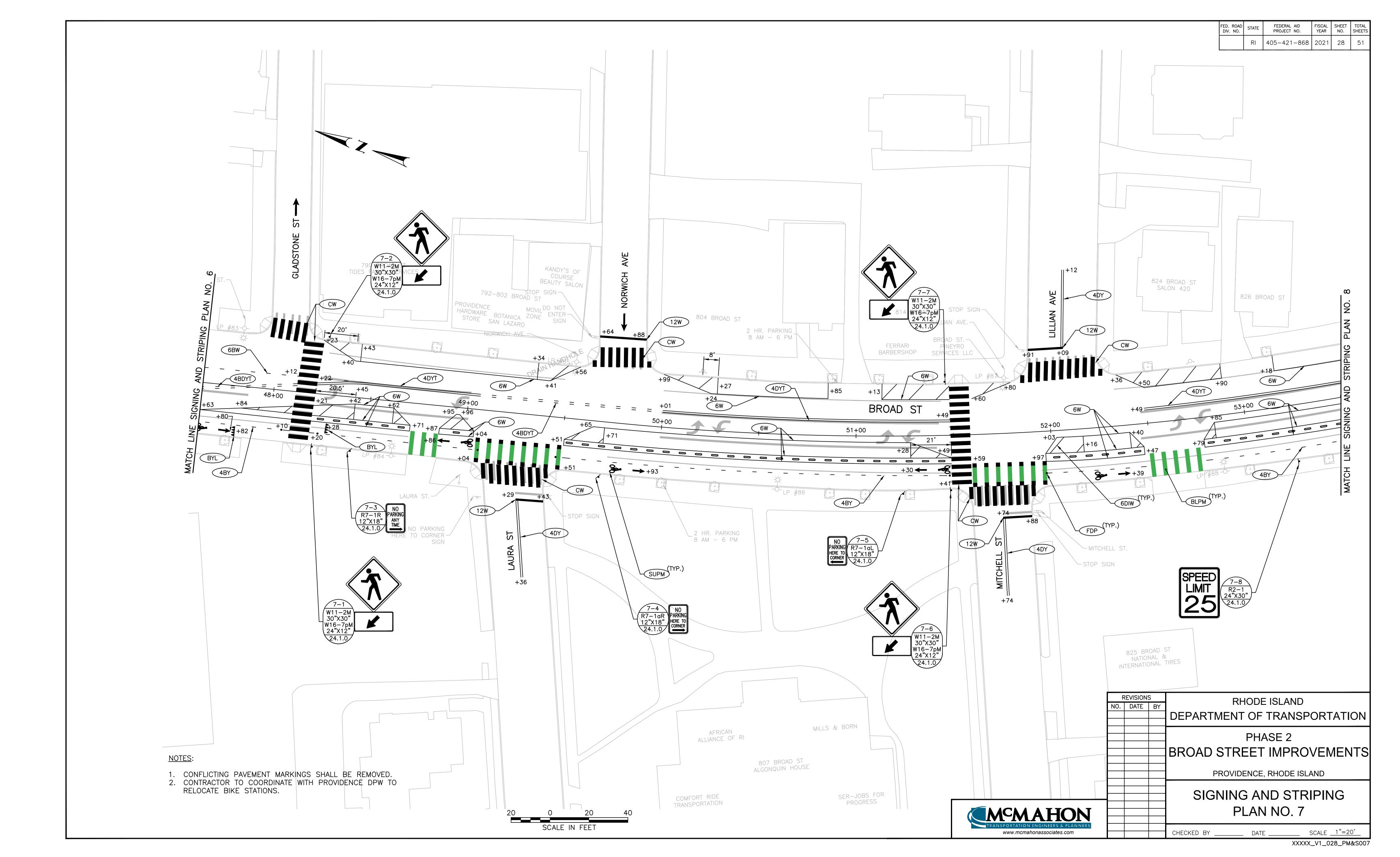
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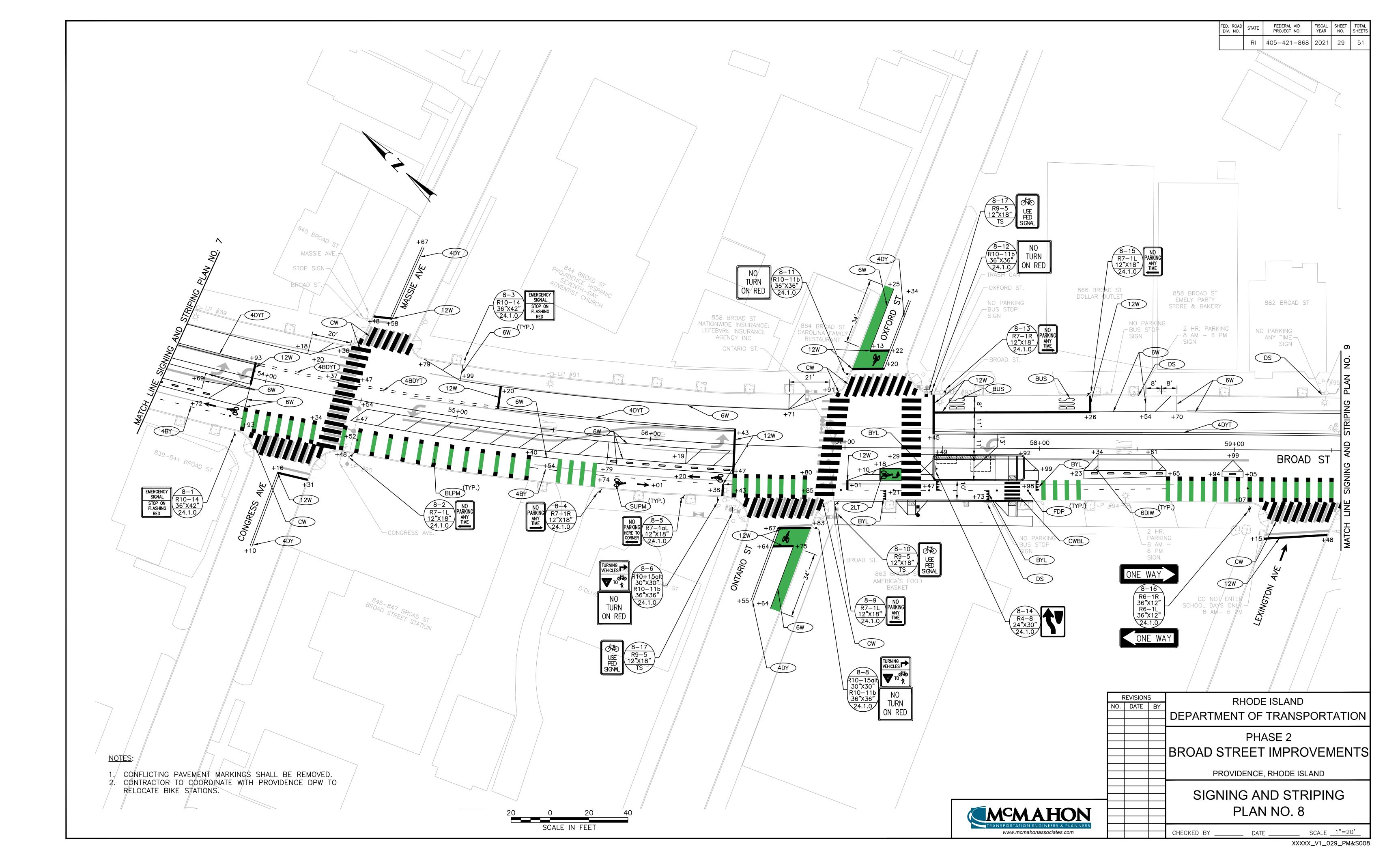


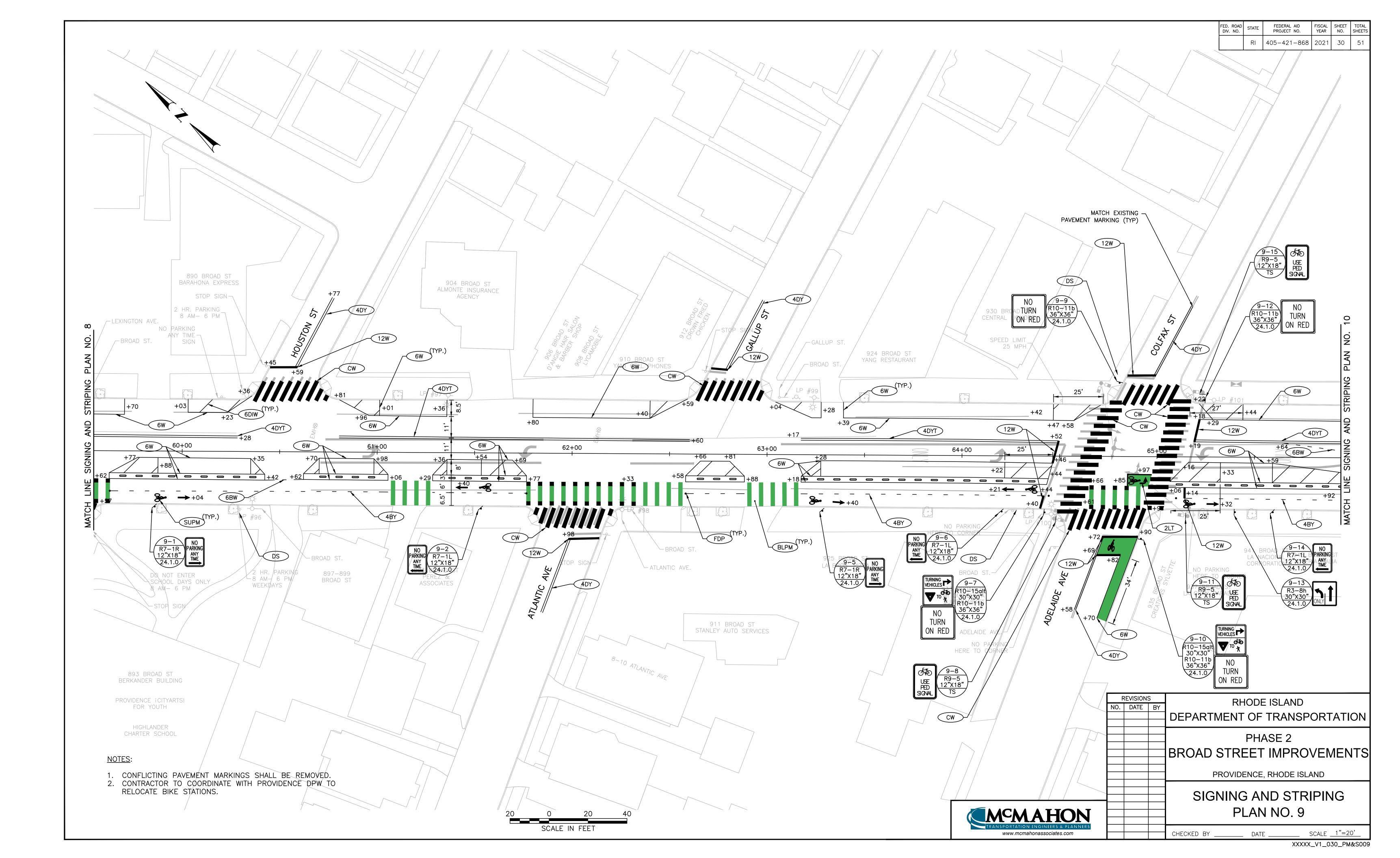


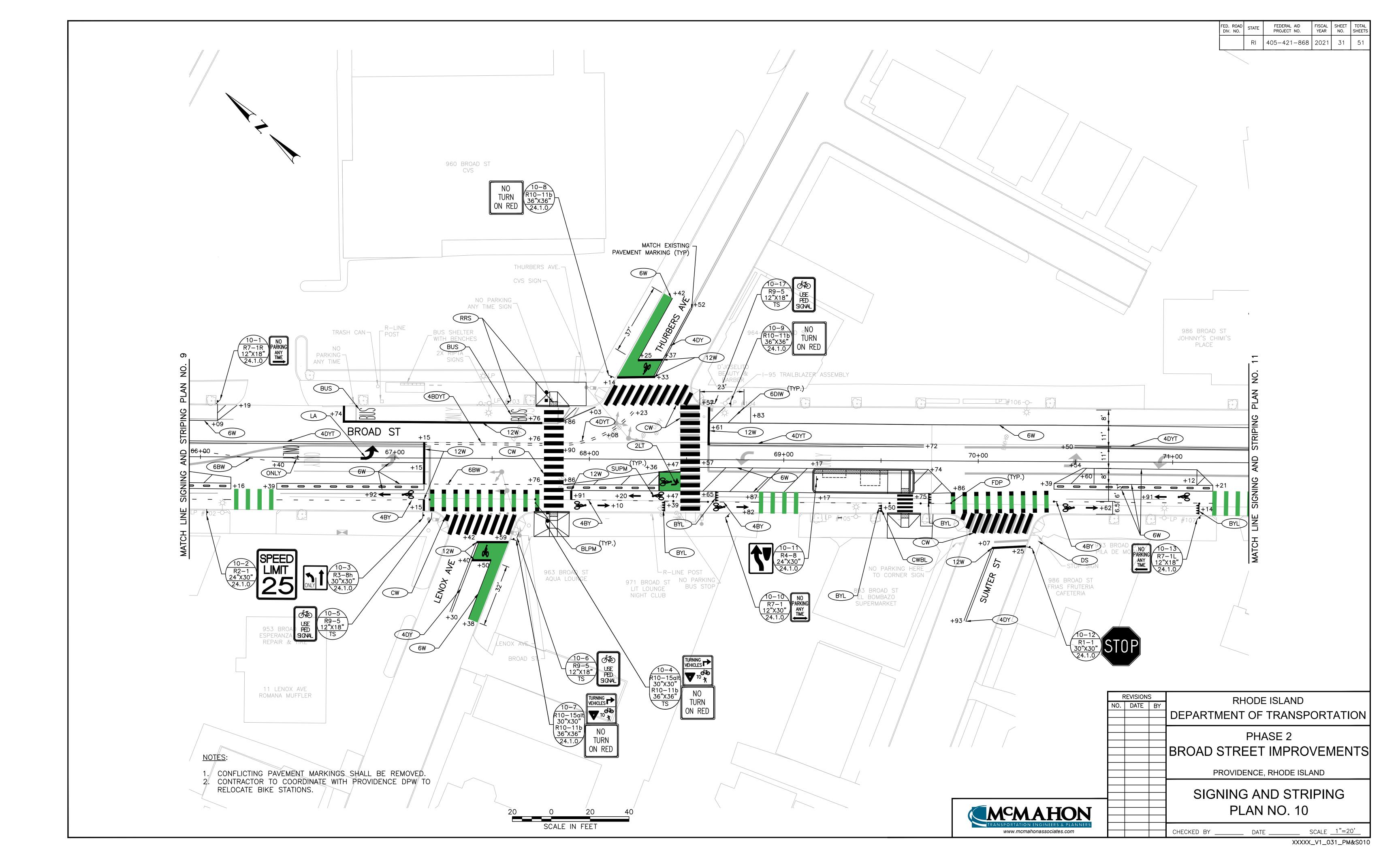


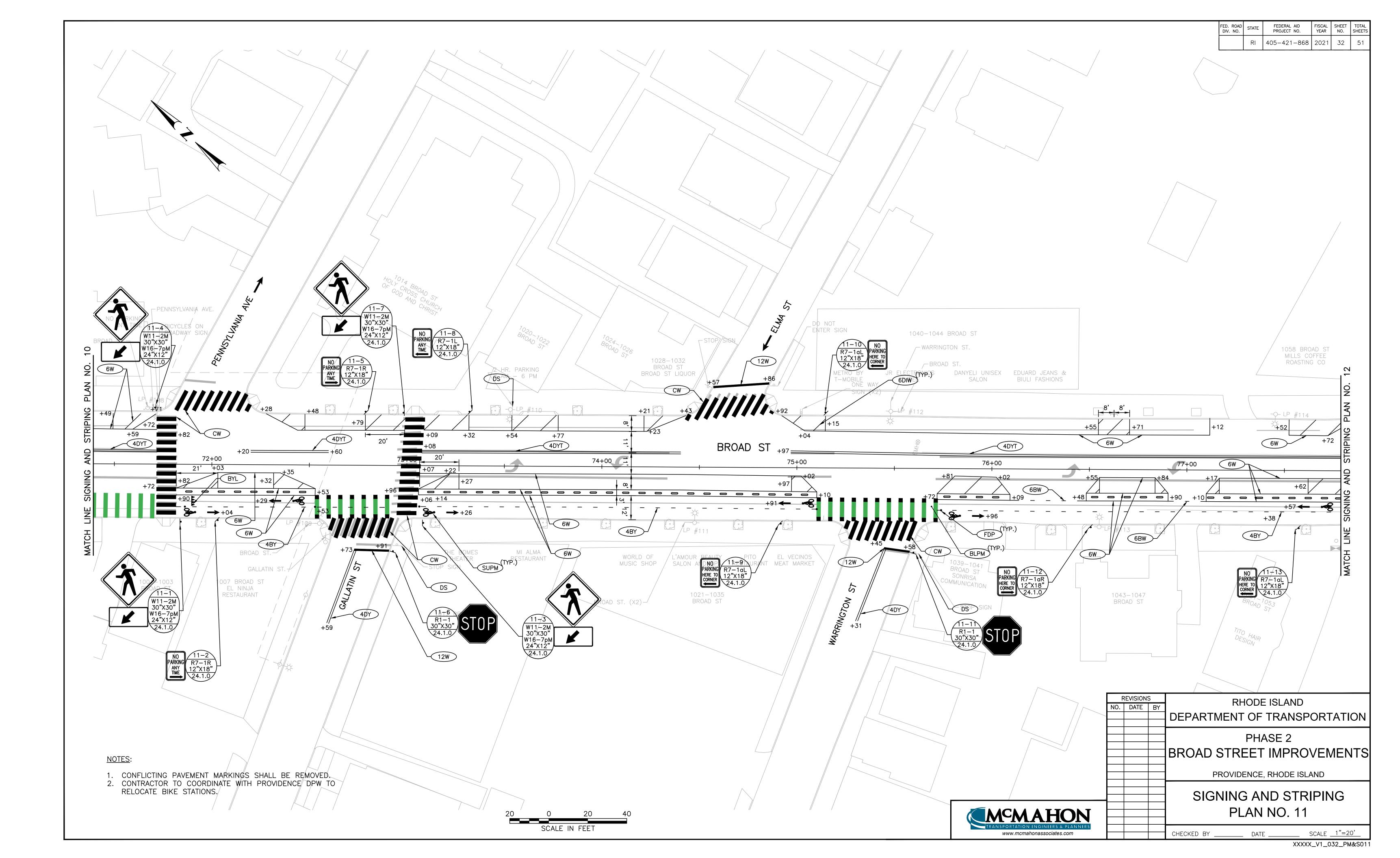


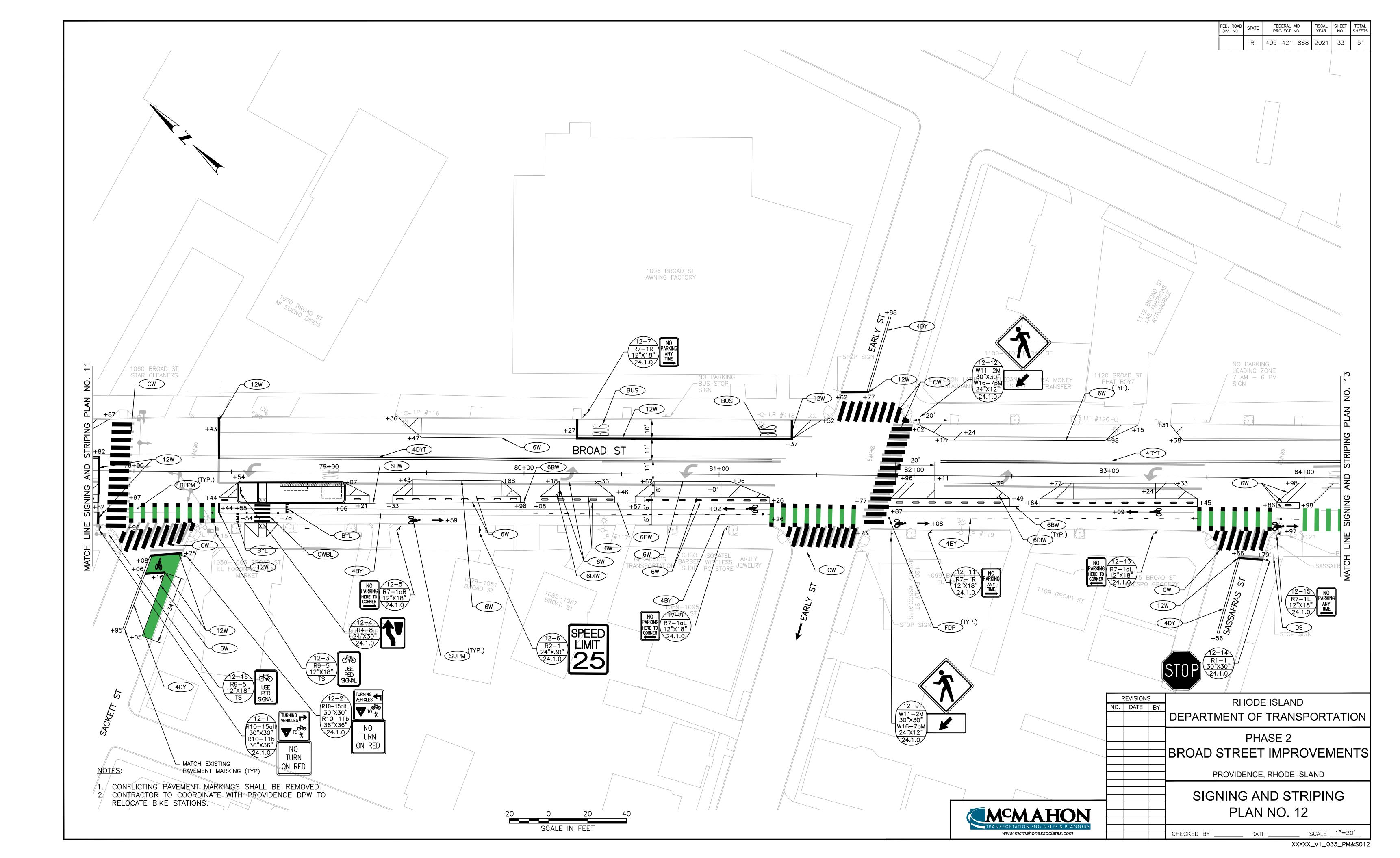


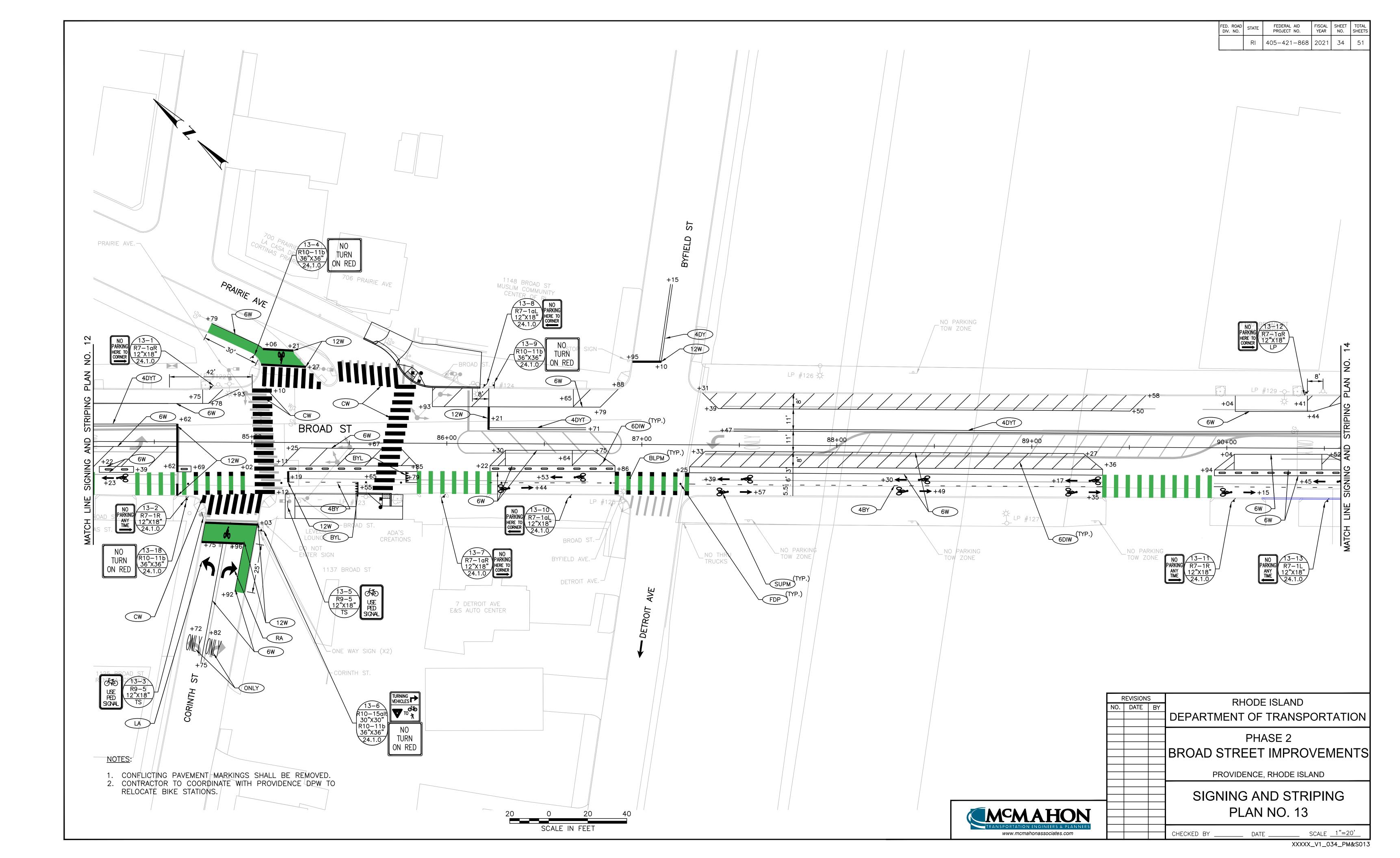


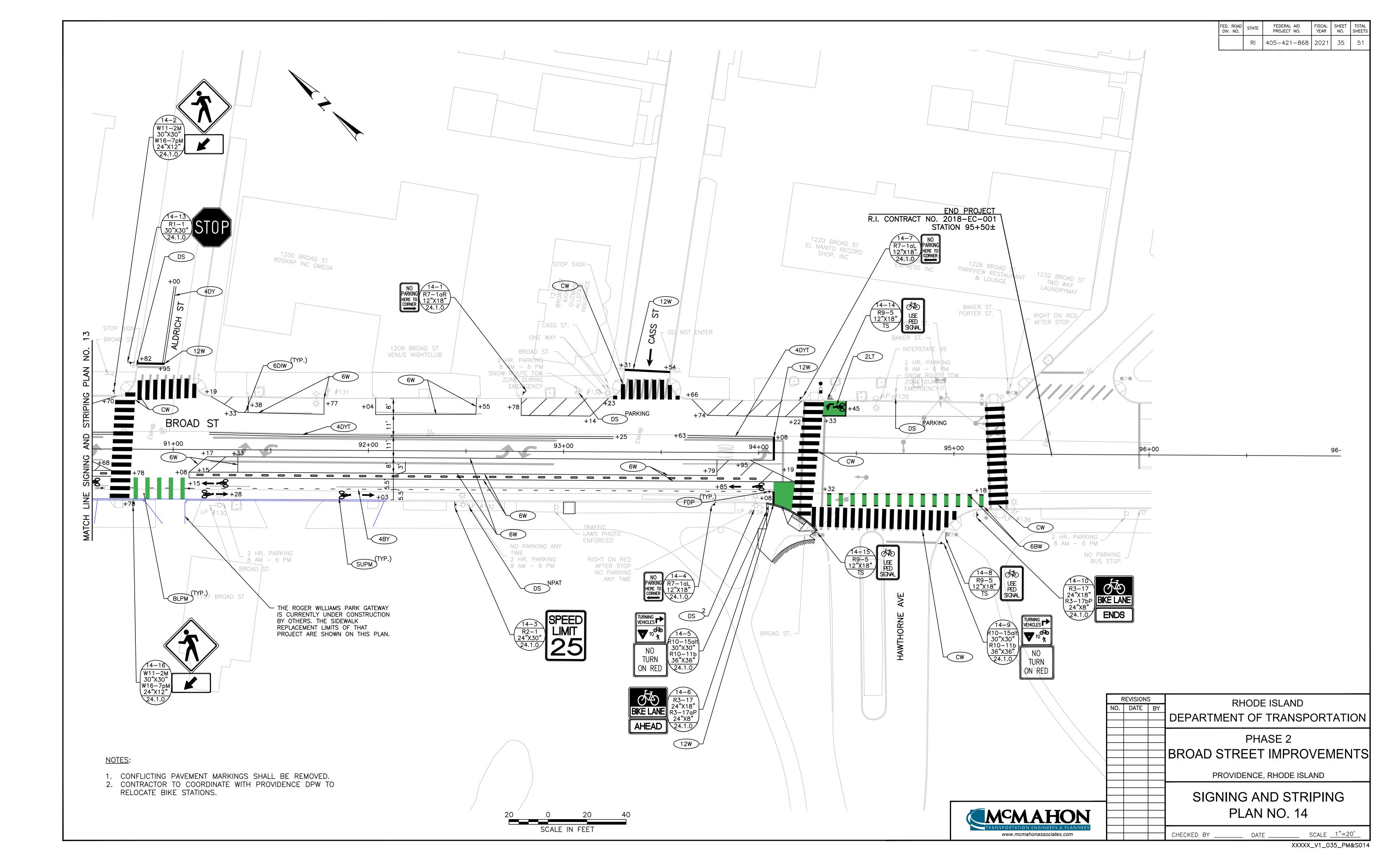


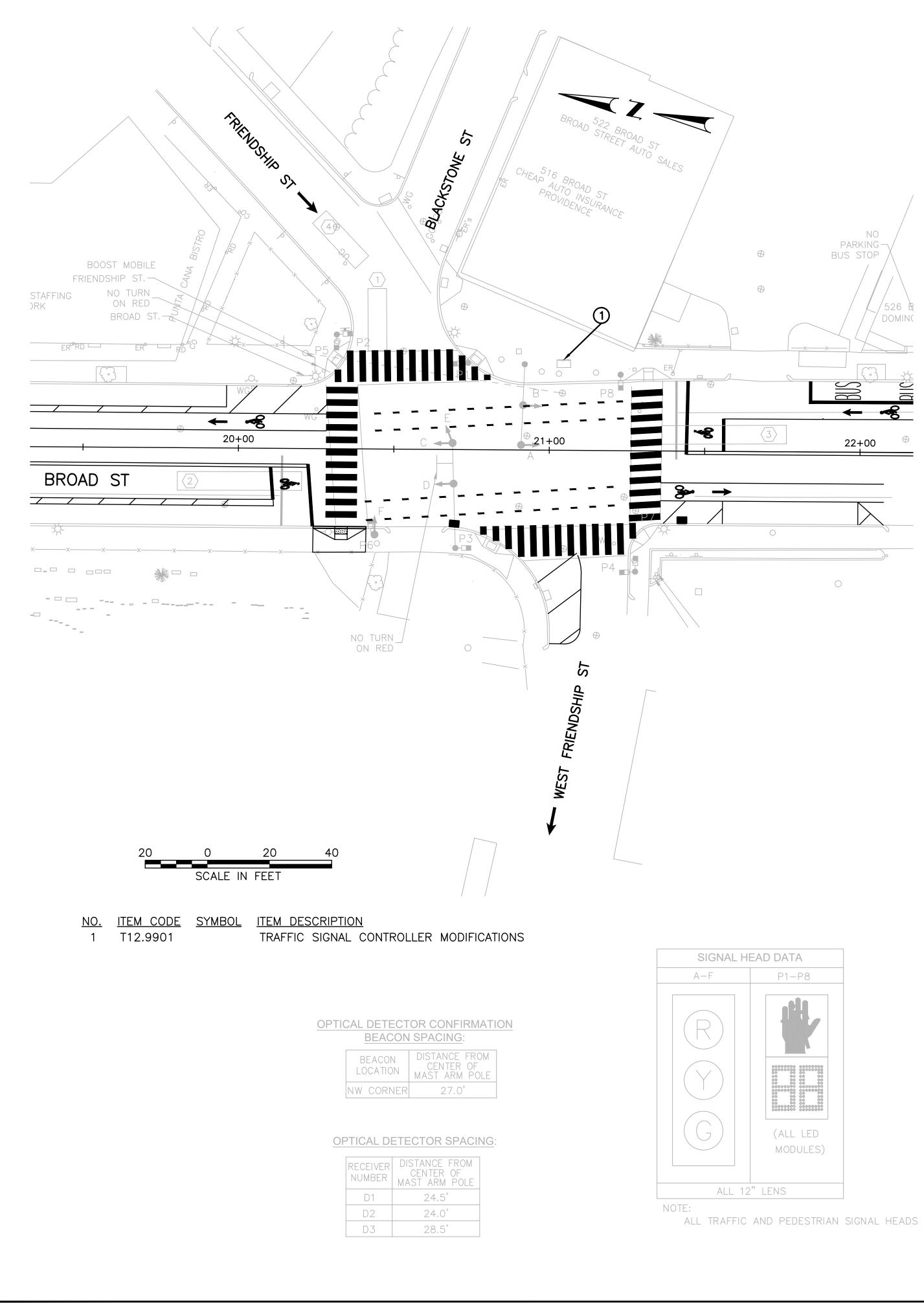












LOOP DETECTOR DATA										
DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS				
$\langle 1 \rangle$	1-6'X20'	1	2	5	Ø1	EXISTING				
2	1-6'X40'	1	2	3	Ø2	EXISTING				
$\langle 3 \rangle$	1-6'X40'	1	2	3	Ø2	EXISTING				
4	1-6'X20'	1	2	5	ø1	EXISTING				

TRAFFIC SIGNAL CONSTRUCTION NOTES:

1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.

2. PHASING CHANGES TO BE IMPLEMENTED IN CONTROLLER AND OTHER SIGNAL EQUIPMENT IN CABINET.

	S	SEQUENCE	AND	TIMING										
		~~~~					$\begin{array}{c} \downarrow \\ \leftarrow \cdots \\ \leftarrow$							
				Ģ	\$1			¢	2			øЗ		-
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	FLASH OPER.
BROAD STREET	N.B.	A,B	R	R	R	R	R	G	Y	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	R	R	R	R	G	Y	R	R	R	R	FY
FRIENDSHIP STREET	W.B.	E,F	R	G	Y	R	R	R	R	R	R	R	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P6	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P7-P8	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT
		TIMING IN	SECON											
MINIMUM INTERVAL				5				10						
VEHICLE EXTENSION				2.4				2.6						1
MAXIMUM I				15				33						
MAXIMUM II				21				52						EMERGENCY ONL Y
YELLOW CLEARANCE				3				3					ERGEN ONL Y	
RED CLEARANCE					2				2			3		
WALK			4				3				7			] ~
PEDESTRIAN CLEARANCE				3/10				4/9				11		
RECALL				PE	ED		PED				OFF			
MEMORY				NON-	LOCK			NON-	LOCK		N	ON-LO	CK	

- <u>SEQUENCE AND TIMING NOTES</u>: 1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28–4D.31 2. MAXIMUM 1 = ALL TIMES
- 3. MAXIMUM 2 NOT USED

OPERATION.

- 4. Ø3 PEDESTRIAN PHASE UPON PUSHBUTTON ACTIVATION
- ONLY. 5. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK

ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS ARE EXISTING.



	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
		RI	405-421-868	2021	36	51	
COORDINAT	ION DA	TA:					
(ALL ENTRIES	IN SECO	NDS)					
	PLAN	1	PLAN 2				
CYCLE LENGTH	90		100				
OFFSET	0		25				
SPLIT Ø1	25		33				
SPLIT Ø2	43		45				
SPLIT Ø3	22		22				
COORDINATED PHASE	ø2		ø2				
PLAN 1 – MONDAY-FRIDA	0:00AM						
PLAN 2 - ALL DAYS 2:00PM-6:00PM							
FREE - ALL OTHER TIM	IES						

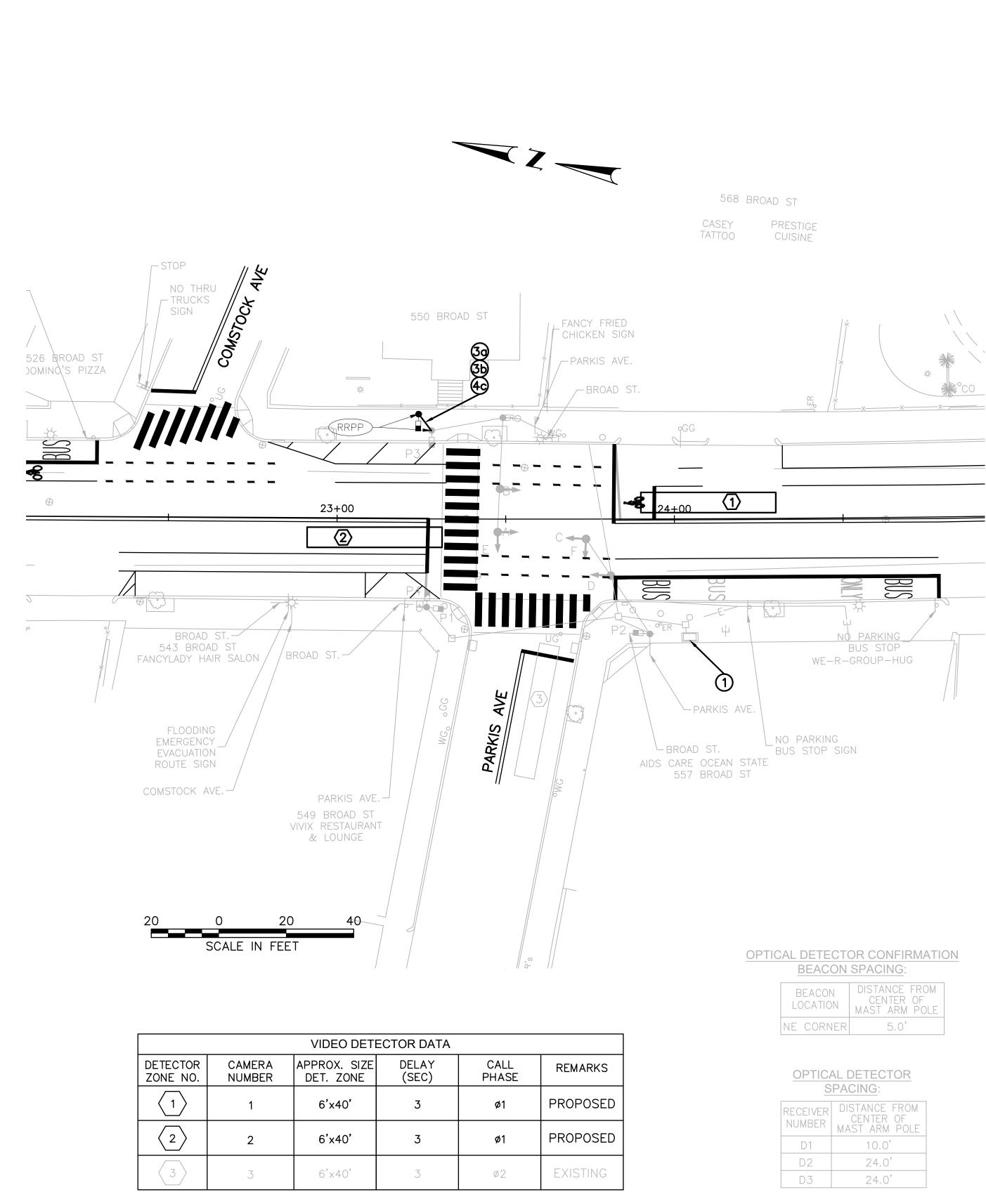
# <u>NOTES:</u>

1. Ø2 "CALL NON ACTUATED" DURING COORDINATION.

2. OFFSET: BEGINNING OF Ø2 GREEN.

- 3. PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
- 4. SPLIT TIMES EQUÁL GREEN PLUS CLEARANCES. 5. INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING
- COORDINATION.
- 6. PHASE 1 TO BE ON PED. RECALL DURING COORDINATION.

	F	REVISION	S	RHODE ISLAND
	NO.	DATE	BY	
				DEPARTMENT OF TRANSPORTATION
				PHASE 2
				BROAD STREET IMPROVEMENTS
				PROVIDENCE, RHODE ISLAND
				SIGNAL PLAN NO. 1
<b>CMAHON</b>				BROAD STREET/FRIENDSHIP STREET INTERSECTION
sportation engineers & planners www.mcmahonassociates.com				CHECKED BY DATE SCALE
				XXXXX_V1_050_SIGNAL00



<u>NO.</u>	ITEM CODE	<u>SYMBOL</u>	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
3a	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC
			CONDUIT – UNDERGROUND
RRPP	)T11.9902		REMOVE AND RELOCATE PEDESTAL POLE
	-		

С
(AL

						1	1	
				FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEE NO.
COORDIN	ATION DATA:				RI	405-421-868	2021	37
(ALL ENTRIE	S IN SECONDS	)						
	PLAN 1	PLAN 2						
CYCLE LENGTH	90	100						
OFFSET	88	8						
SPLIT Ø1	66	75						
SPLIT Ø2	24	25						
						COORDINATIO	אר	
COORDINATED PHASE	ø1	ø1	BEGINNING				JIN.	
						E OFF SHALL	BE IN	I EFF
PLAN 1 – MONDAY-FRI	DAY 7:00AM-	10:00AM	•			CLEARANCES. BE IN EFFECT	- DUR	ING
PLAN 2 - ALL DAYS 2:00PM-6:00PM			NATION.			DURING COOF		
FREE - ALL OTHER 1	TIMES				0,,22			

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	5.0'

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	10.0'
D2	24.0'
D3	24.0'

### VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	12.0'
2	19.0'
3	ON SHAFT

## PAVEMENT MARKING NOTES:

1. PAVEMENT MARKINGS SHOWN ON THIS PLAN SHALL BE SUPERCEDED BY THE PAVEMENT MARKINGS SHOWN IN THE BROAD STREET IMPROVEMENTS - RESURFACING PLAN SET, RESURFACING PLAN NO. 3.

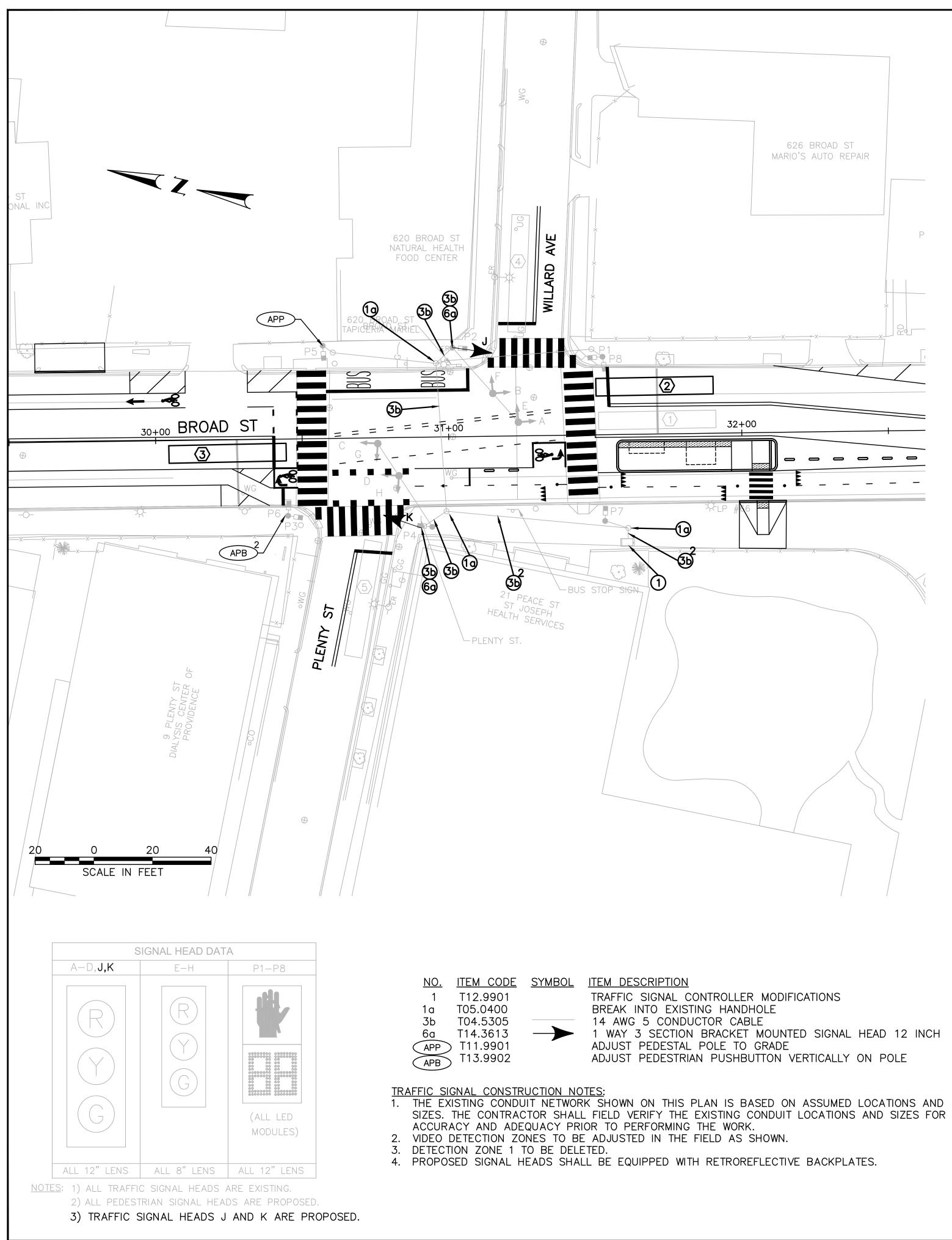
TRAFFIC SIGNAL CONSTRUCTION NOTES: 1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK. 2 VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.

2.	VIDEO	DETECTION	ZONES	10	ΒF	ADJUSTED	IN	IHE	FIELD	AS	SHOWN

														SIGNAL HEAD DAT	
		SEQUENCE	AND [·]	TIMING	}								A-D	E,F	P1-P4
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STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	FLASH OPER.		(G)		(ALL LED
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY				MODULES)
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY				
PARKIS AVENUE	E.B.	E,F	R	R	R	R	R	G	Y	R	FR		12" LENS	ALL 8" LENS	ALL 12" LENS
										<u> </u>		NOT			IEADS ARE EXISTING. Al heads are propo
PEDESTRIANS	N.B./S.B.	P1-P2	W	W/FDW		DW	DW			DW			Z) ALL	FEDESTRIAN SIGNA	AL HEADS ARE PROPO
PEDESTRIANS	E.B./W.B.	P3-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT				
		TIMING IN	SECON	IDS											
MINIMUM INTERVAL				10				6							
VEHICLE EXTENSION				2.4				2.4			]				
I MUMIXAN				28				16			_ ح [				
MAXIMUM II				48				16							
YELLOW CLEARANCE					3				3		EMERGENCY ONL Y				
RED CLEARANCE						1				1.5	EME				
WALK			3				4								
PEDESTRIAN CLEARANCE				4/7				3/10							
RECALL				Ρ	ED			PE	ED						
MEMORY				NON-	-LOCK			NON-	LOCK						
SEQUENCE AND TIMING NOTES 1. FLASHING OPERATION PER 2. MAXIMUM 1 = ALL TIMES 3. MAXIMUM 2 = NOT USED 4. CONCURRENT PEDESTRIAN OPERATION.	M.UT.C.D. SE											REVISIONS NO. DATE BY	DEPAR	RTMENT OF	E ISLAND TRANSPORT ASE 2
														USIKEEI	IMPROVEN
														PROVIDENCE	, RHODE ISLAND
															PLAN NO. 2
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						K	M	<u>C</u> M	<b>A</b> ]	HC	N		BROAD	STREET/PARKI	S AVENUE INTERSE
								PORTATION WWW.MCM8					CHECKED E	BY DAT	E SCALE _

														SIGNAL HEAD DAT	
	<u> </u>	SEQUENCE	AND	TIMING	;								A-D	E,F	P1-P4
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				<b>s</b>	، م1			Ø	\$2		-			(G)	Control C
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	FLASH OPER.				(ALL LED
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY				MODULES)
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY				
PARKIS AVENUE	E.B.	E,F	R	R	R	R	R	G	Y	R	FR		ALL 12" LENS	S ALL 8" LENS	ALL 12" LEN
													*	LL TRAFFIC SIGNAL I	
PEDESTRIANS	N.B./S.B.	P1-P2		W/FDW		DW	DW	DW	DW	DW	OUT		2) A	L PEDESTRIAN SIGN	AL HEADS ARE
PEDESTRIANS	E.B./W.B.	P3-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT				
		TIMING IN	SECON	IDS											
MINIMUM INTERVAL				10				6							
VEHICLE EXTENSION				2.4				2.4							
MAXIMUM I				28				16			<u>ک</u>				
MAXIMUM II				48				16			EMERGENC)				
YELLOW CLEARANCE					3				3		ONL ONL				
RED CLEARANCE						1				1.5	EME				
WALK			3				4								
PEDESTRIAN CLEARANCE				4/7				3/10							
RECALL				P	ED			P	ED						
MEMORY				NON-	-LOCK			NON-	-LOCK						
<ul> <li><u>SEQUENCE AND TIMING NOTES</u></li> <li>1. FLASHING OPERATION PER</li> <li>2. MAXIMUM 1 = ALL TIMES</li> <li>3. MAXIMUM 2 = NOT USED</li> <li>4. CONCURRENT PEDESTRIAN OPERATION.</li> </ul>	M.UT.C.D. SE											REVISIO NO. DATE	BY	ARTMENT OF	E ISLAND TRANSPO ASE 2
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														PROVIDENCE	E, RHODE ISLA
													+	SIGNAL I	PLAN NO
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								PORTATION WWW.MCM8					СНЕСКЕ	) by dat	Έ S



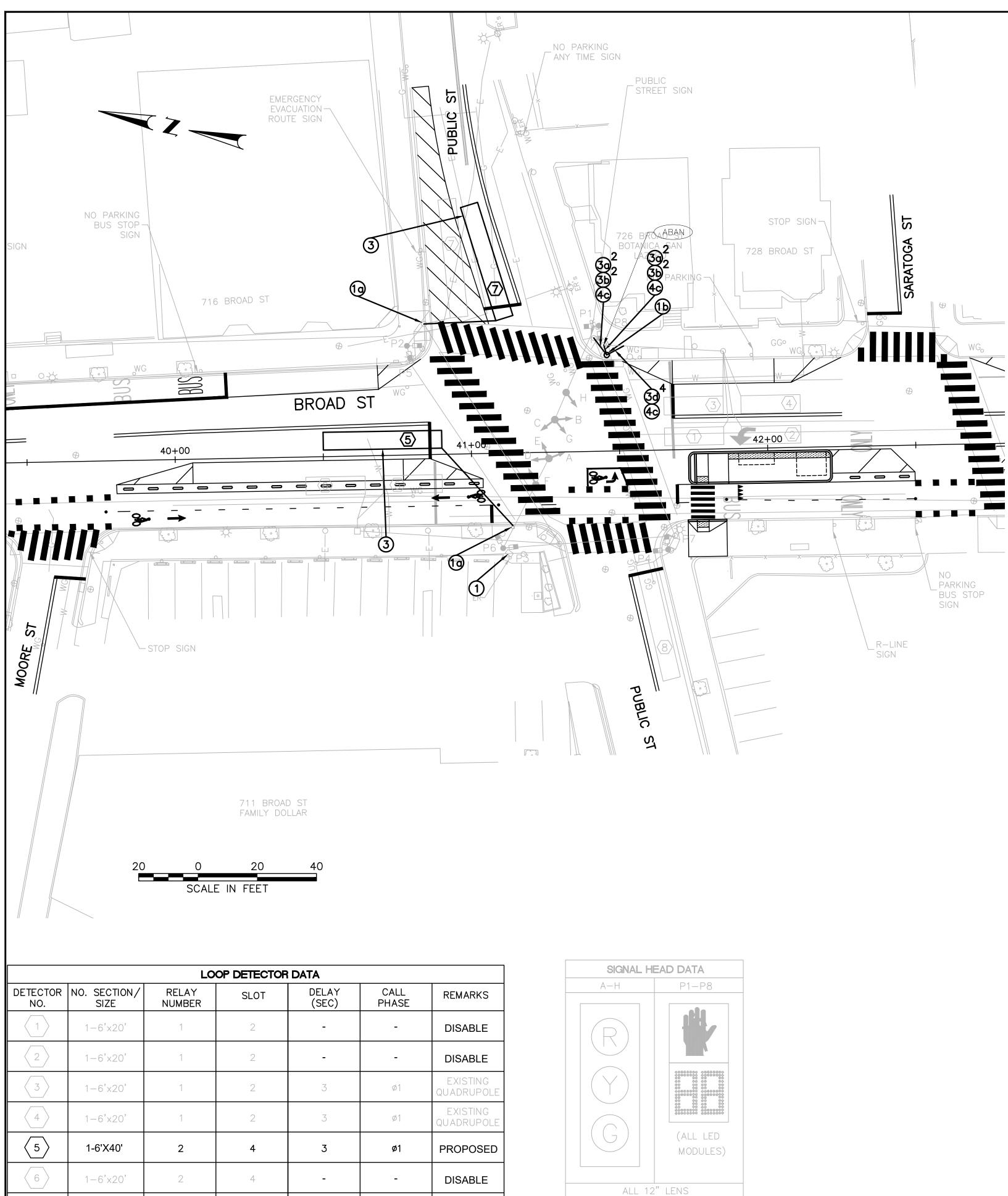


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																	21-868	2021	38	
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OAD STREET		N.B.	A,B,J	R	G	Y	R	R	R	R	R	FY								
OAD STREET		S.B.	C,D,K	R	G	Y	R	R	R	R	R	FY								
LARD AVENU		W.B. E.B.	E,F G,H	R R	R R	R R	R R	R R	G G	Y Y	R R	FR FR								
				- - -	·		· 		1	1			_							
DESTRIANS		N.B./S.B. E.B./W.B.	P1-P4 P5-P8	W DW	W/FDW DW	DW DW	DW DW	DW W	DW W/FDW	DW DW	DW DW									
		,																		
IMUM INTER	VAL		TIMING IN	SECON	10S				6				_							
HICLE EXTEN					2.4				2.4			]								
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LLOW CLEAR						3				3		ERGE								
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DESTRIAN CL	EARANCE				4/4			<u>т</u>	3/10											
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FLASHING ( MAXIMUM 1 MAXIMUM 2	= ALL OTH 2 = 10 AM-6 2 PM-6 NT PEDESTRIA	ER M.U.T.C.D. S		WALK	TICAL D	EACON	OR COI	NG:	ATION	-LOCK										
FLASHING ( MAXIMUM 1 MAXIMUM 2 CONCURREN OPERATION	$\begin{array}{r} \text{OPERATION P} \\ = & \text{ALL OTH} \\ PRODUCTION PERMITION PERMITICA PERMITION PERMITION PERMITICA PERMITICA PE$	ER M.U.T.C.D. S ER TIMES SPM WEEKDAYS PM WEEKENDS AN PHASES TO AD SPACING: DXIMATE DM CENTER OF RM POLE PROPOSED	BE REST IN N RELOCATED DISTANCE	WALK	TICAL D BI BEA LOC,	ETECT	OR COI SPACI DISTAN CENT MAST A	<mark>NG</mark> : ce froi	<u>ATION</u>	-LOCK										
FLASHING ( MAXIMUM 1 MAXIMUM 2 CONCURREN OPERATION SIGNAL HEAD A B C	OPERATION P = ALL OTHI 2 = 10 AM-6 2 PM-6 NT PEDESTRIA <u>SIGNAL HEA</u> <u>APPRC</u> DISTANCE FRC MAST A EXISTING 38.0' 26.0' 38.0'	ER M.U.T.C.D. S ER TIMES SPM WEEKDAYS PM WEEKENDS AN PHASES TO AD SPACING: DXIMATE DM CENTER OF RM POLE PROPOSED - 22.0' 37.0'	BE REST IN N RELOCATED DISTANCE  4.0' 1.0'	WALK <u>OP</u>	TICAL D BI BEA LOCA NE C SW C	ETECT EACON ACON ATION ORNER ORNER	OR COI SPACI DISTAN CENT MAST A 19 12	NG: CE FROI TER OF ARM POL 9.5' 2.0' SPACIN	ATION M _E	-LOCK										
FLASHING ( MAXIMUM 1 MAXIMUM 2 CONCURREN OPERATION	OPERATION P = ALL OTHI 2 = 10 AM-6 2 PM-6 NT PEDESTRIA <u>SIGNAL HEA</u> DISTANCE FRO MAST A EXISTING 38.0' 26.0'	ER M.U.T.C.D. S ER TIMES SPM WEEKDAYS PM WEEKENDS AN PHASES TO AD SPACING: EXIMATE OM CENTER OF RM POLE PROPOSED - 22.0'	BE REST IN N RELOCATED DISTANCE – 4.0'	WALK <u>OP</u>	TICAL D BI BEA LOC, NE C SW C	ETECT EACON ACON ATION ORNER ORNER	OR COI SPACI DISTAN CENT MAST A 19	NG: CE FROI IER OF ARM POL 9.5' 2.0' SPACIN	ATION M _E	-LOCK										
FLASHING ( MAXIMUM 1 MAXIMUM 2 CONCURREN OPERATION SIGNAL HEAD A B C D E F	$\begin{array}{r} \text{OPERATION P} \\ = & \text{ALL OTHION P} \\ = & 10 & \text{AM} - 6 \\ 2 & \text{PM} - 6 \\ 2 & \text{PM} - 6 \\ NT PEDESTRIACY PEDESTRIAC$	ER M.U.T.C.D. S ER TIMES SPM WEEKDAYS PM WEEKENDS AN PHASES TO AD SPACING: XIMATE DM CENTER OF RM POLE PROPOSED - 22.0' 37.0' 20.0' - 22.0'	BE REST IN A RELOCATED DISTANCE 	WALK <u>OP</u>	TICAL D BI BEA LOCA NE C SW C OPTICA RECEIV NUMB D1	ETECT EACON ACON ATION ORNER ORNER DIS SER MA	OR COI SPACI DISTAN CENT MAST A 19 12 12 12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NG: CE FROI TER OF ARM POL 9.5' 2.0' SPACIN FROM OF POLE	ATION M _E	-LOCK										
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FLASHING ( MAXIMUM 1 MAXIMUM 2 CONCURREN OPERATION SIGNAL HEAD A B C D E F G	$\begin{array}{rcl} & \text{OPERATION} & \text{P} \\ & = & \text{ALL} & \text{OTHI} \\ & = & 10 & \text{AM} - 6 \\ & 2 & \text{PM} - 6 \\ \text{NT} & \text{PEDESTRIA} \\ & & \\ & & \\ & & \\ \hline \hline & & \\ \hline & & \\ \hline & & \\ \hline \hline & & \\ \hline \hline & & \\ \hline \hline \\ \hline & & \\ \hline \hline \\ \hline & & \\ \hline \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \hline \hline \\ \hline \hline$	ER M.U.T.C.D. S ER TIMES SPM WEEKDAYS PM WEEKENDS AN PHASES TO AD SPACING: XIMATE DM CENTER OF RM POLE PROPOSED - 22.0' 37.0' 20.0' - 22.0' 37.0'	BE REST IN A RELOCATED DISTANCE  4.0' 1.0' 4.0'  4.0' 1.0'	WALK <u>OP</u>	TICAL D BI BEA LOCA NE C SW C OPTICA RECEIV NUMB D1 D2	ETECT EACON ACON ATION ORNER ORNER DIS SER DIS MA	OR COI SPACI DISTAN CENT MAST A 12 12 12 12 12 12 12 12 12 12 12 12 12	NG: CE FROI TER OF ARM POL 9.5' 2.0' SPACIN FROM OF POLE	ATION M E											
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				VCV	ΛΑ	Н					-	providi SIGNA	^{ence,}	RHOD	e isla I NC	.ND <b>). 3</b>		

XXXXX_V1_052_SIGNAL003



PROPOSED

EXISTING

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 $\langle 7 \rangle$ 

1-6'x40'

1-6'x40'

2

4

4

3

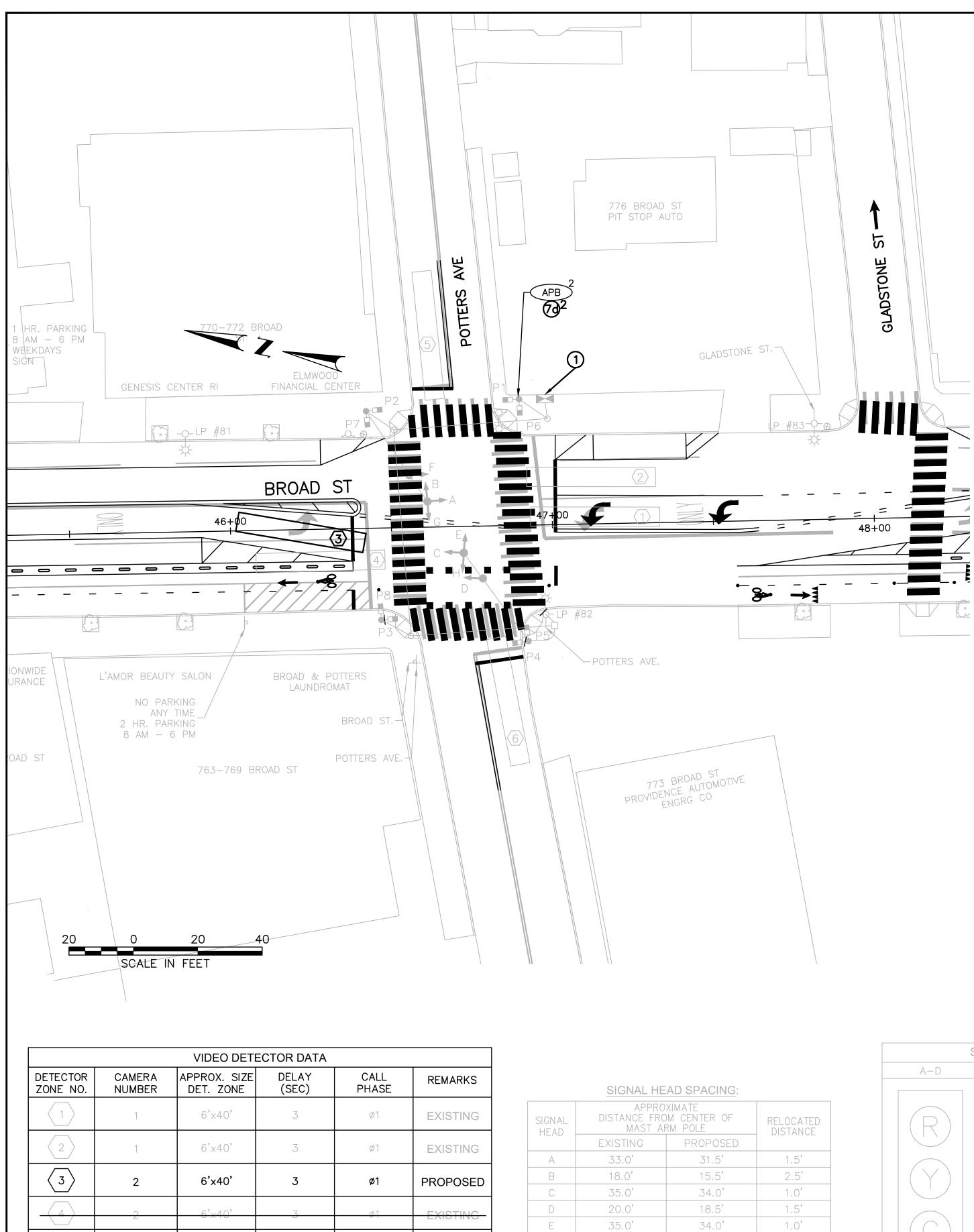
NOTES: 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING 2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

												FED. ROAD DIV. NO.	STATE FEDERAL AID PROJECT NO		SHEET NO.	TOTAL SHEETS
													RI 405-421-8	868 2021	39	51
<u>TRAFFIC SIGNA</u> 1. THE EXISTI	<u>L CONSTRUC</u> NG CONDUIT			N THIS	5 PLAN	I IS BA	ASED (	ON ASS								
LOCATIONS	AND SIZES. AND SIZES	THE CONTR	RACTOR	SHALL	FIELD	VERIF	Y THE	EXISTIN	IG COI							
2. ABANDON I	LOOPS 1 AND	) 2 IN PLA	CE.													
	OPOSED LOOF OR CONTROLL			ACENT	HAND	HOLE	and u	JIILIZE E	EXISTI	NG						
				ı												
<u>NO.</u> <u>ITEM CODI</u> 1 T12.9901		ITEM DES TRAFFIC		_	OLLER	MODIF		DNS								
1a T05.0400 1b T105.020		BREAK IN PRECAST					DHOLE	-								
3 T13.1000 3a T04.5303		TRAFFIC 14 AWG	LOOP D	ETECTO	R											
3b T04.5305		14 AWG	5 COND	UCTOR	CABL	E	אובו הב		F							
3d T04.5302 4c T06.5130		14 AWG 3 INCH 3	SCHEDUL	E 40	POLYV											
(ABAN) 201.9905	)	CONDUIT ABANDON				ANDHO	LE									
			.,	_		-										
	Ç	SEQUENCE	AND	TIMINC	}							7				
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		2		$\prec$	*	-			Ī							
		~		<b>4</b> -	<b>→</b> T			*	+ \$-							
					 ø1				1 ø2		-					
STREET	DIRECTION	HOUSINGS	<u> </u>	2	ØI 3	4	5	6	7	8	FLASH					
ET	N.B.	A,B	R	G	Y	R	R	R	, R	R	OPER FY	<u>.</u>				
ET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY					
ET	W.B.	E,F	R	R	R	R	R	G	Y	R	FR					
ET	E.B.	G,H	R	R	R	R	R	G	Y	R	FR	_				
5	N.B./S.B.	P1-P4	w	W/FDW	DW	DW	DW	DW	DW	DW		-				
5	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW		DW						
			I	1		1										
		TIMING II	N SECON	1	1	<u> </u>	1			1	1	_				
ERVAL ENSION				10 2.4				6			-					
				39				2.4								
I				52				3								
ARANCE					3				3		EMERGENCY ONLY					
NCE			3			1.5				2	EM					
CLEARANCE			3	4/11			4	3/17			-					
					ED	1			L ED	1	1					
				NON-	-LOCK				-LOCK							
ND TIMING NOTES: G OPERATION PER	M.U.T.C.D. SF	CTION 4D 2	28-4D.31													
1 = ALL OTHER 1 = 10 AM - 6PM	TIMES									REVISION	١S	DU(	DDE ISLANI	<u> </u>		
2 PM-6PM	WEEKENDS								NO.	DATE		DEPARTMENT			- A T I	
RENT PEDESTRIAN F ON.	PHASES IU E	BE REST IN	WALK									DEFARIMENT	UF IRANG		AII	
												F	PHASE 2			
												<b>BROAD STRE</b>	ET IMPR	OVEN	ΛEN	ITS
												PROVIDE	NCE, RHODE I	SLAND		
												SIGNA		NO. 4		
						Ał		NT				BROAD STREET/PL				)N
						honassoci						CHECKED BY		SCALE		
													YYY Y	** V1 05	SIGN	лдт ()()

XXXXX_V1_053_SIGNAL004

												FED. ROAD DIV. NO.STATEFEDERAL AID PROJECT NO.FISCALSHEETTOTAL SHEETS
												RI 405-421-868 2021 39 51
LOCATIONS 2. ABANDON 3. SPLICE PR	NG CONDUIT AND SIZES LOOPS 1 ANE OPOSED LOOF OR CONTROLI	NETWORK SH THE CONTRA FOR ACCURA 2 IN PLACE 2 DETECTOR	CTOR CY AN IN AD IN AD GNAL O EXIS YPE H CONE CONE CONE CONE CONE CONE CONE	SHALL F D ADEQU JACENT I CONTRO STING HA HEAVY ETECTOF DUCTOR DUCTOR DUCTOR DUCTOR LE 40 F ERGROU	FIELD VEF UACY PR HANDHOL HANDHOLE DUTY F CABLE CABLE TWISTED POLYVINY ND	DIFICA ANDHO SHIEL	HE E D PEF D UTII	CABLI	G CON ING T XISTIN	HE WO	RK.	RI 405-421-868 2021 39 31
		SEQUENCE	AND	TIMING					*			
				• [ ø	- <b>→</b> 1			¢;				
STREET	DIRECTION	HOUSINGS	1	2	3 4	+	5	6	7	8	FLAS OPER	
BROAD STREET	N.B.	A,B	R	G		2	R	R	R	R	FY	
BROAD STREET	S.B.	C,D	R	G	Y F	2	R	R	R	R	FY	
PUBLIC STREET	W.B.	E,F	R	R			R	G	Y	R	FR	_
PUBLIC STREET	E.B.	G,H	R	R	R F	8   1	R	G	Y	R	FR	_
PEDESTRIANS	N.B./S.B.	P1-P4	w	W/FDW	DW D	W	ow	DW	DW	DW	Ουτ	_
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW				W/FDW	DW	DW		
		1010				••	••  •	"/" "				_
		TIMING IN	SECON	IDS								
MINIMUM INTERVAL				10				6				
VEHICLE EXTENSION				2.4				2.4				
MAXIMUM I				39				24				
MAXIMUM II				52				3			EMERGENCY	
YELLOW CLEARANCE					3	5			3	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
WALK			3		I .	5	4			2	EV	
PEDESTRIAN CLEARANCE				4/11			·	3/17				
RECALL				PE	D		I	PE	D			
MEMORY				NON-I	LOCK			NON-	LOCK			
SEQUENCE AND TIMING NOTES: 1. FLASHING OPERATION PER 2. MAXIMUM 1 = ALL OTHER 3. MAXIMUM 2 = 10 AM-6PM	TIMES	CTION 4D.28	-4D.3	1						REVISION		RHODE ISLAND
2 PM-6PM 4. CONCURRENT PEDESTRIAN OPERATION.	WEEKENDS	BE REST IN V	VALK						NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION
												PHASE 2
												<b>BROAD STREET IMPROVEMENTS</b>
									$\vdash$			
											$\square$	PROVIDENCE, RHODE ISLAND
									Þ			SIGNAL PLAN NO. 4
		Г					<u> </u>		╘			
					MA							BROAD STREET/PUBLIC STREET INTERSECTION
					RTATION ENG W.MCMAhona			NERS				CHECKED BY DATE SCALE
					-				_	1	1	XXXXX V1 053 SIGNAL004





	S	SEQUENCE	AND	TIMING							
					<b>&gt;</b>			*	*		
		2								_	
				Ø	51			Ø	2		-
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	FLASH OPER.
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY
POTTERS AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	FR
POTTERS AVENUE	E.B.	G,H	R	R	R	R	R	G	Y	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT
		TIMING IN	SECON								
MINIMUM INTERVAL				10				6			
VEHICLE EXTENSION				2.4				2.4			1
MAXIMUM I				44				20			
MAXIMUM II				45				19			EMERGENCY ONLY
YELLOW CLEARANCE					3				3		NK CE
RED CLEARANCE						1				1.5	
WALK			3				4				]
PEDESTRIAN CLEARANCE				4/6				3/13			
RECALL				PE	ED			PE	ED		
MEMORY				NON-	LOCK			NON-	LOCK		

1. FLASHING OPERATION PER M.UT.C.D. SECTION 4D.28-4D.31

MAXIMUM 1 = ALL OTHER TIMES

MAXIMUM 2 = NOT USED

4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

### TRAFFIC SIGNAL CONSTRUCTION NOTES:

1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BAS LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY

LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR 1 2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SH

3. DETECTION ZONE 4 TO BE DELETED.

<u>NO.</u>	ITEM CODE	<u>SYMBOL</u>	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROL
(APB)	) T13.9902		ADJUST PEDESTRIAN PUS
7d	T13.9903		EXTENSION BRACKET FOR

33.0'

33.0' 35.0'

F

H

6'x40'

6'x40'

4

Ø2

Ø2

EXISTING

EXISTING

TER OF E	RELOCATED DISTANCE
OPOSED	
31.5'	1.5'
15.5'	2.5'
34.0'	1.0'
18.5'	1.5'
34.0'	1.0'
31.5'	1.5'
31.5'	1.5'
34.0'	1°

SIGNAL HEAD DATA E-H P1-P8 G (ALL LED MODULES) ALL 12" LENS ALL 8" LENS ALL 12" LENS

NOTES: 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING. 2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

SED ON ASSUMED
THE EXISTING CONDUIT
TO PERFORMING THE WORK.
HOWN.

LLER MODIFICATIONS SHBUTTON VERTICALLY ON POLE OR PEDESTRIAN PUSHBUTTON

	FED. ROAD DIV. NO.	STATE		DERAL A OJECT N		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		RI	405-	-421-	-868	2021	40	51
OPTICAL DET			νατι	ON				
	CON SPAC							
BEACON		CE FRO	MC					
	MAST A	RM PC	LE					
NE CORN SW CORN		2.0'						
	DETECTOR		CING					
RECEIVE	R DISTANCI	E FROM						
NUMBER		r of <u>M Pol</u>	E					
D1	22.							
D2 D3	28. 26.							
D4	26.							
VI	DEO DETE		1					
			-					
CAMEF NUMBI		ER OF	JM					
		4.0'						
1								
2	1	.0'						
2 3	ON S	Shaft						
2	ON S							
2 3 4	ON S	SHAFT SHAFT						
2 3 4 COORDINA	ON SON S	shaft shaft <b>\TA:</b>						
2 3 4	TION DA	SHAFT SHAFT TA: NDS)			2			
2 3 4 COORDINA (ALL ENTRIES	ON SON S	SHAFT SHAFT TA: NDS)		.AN 80	2			
2 3 4 COORDINA (ALL ENTRIES	TION DA IN SECC	SHAFT SHAFT TA: NDS)			2			
2 3 4 COORDINA (ALL ENTRIES CYCLE LENGTH DFFSET	TION DA S IN SECC PLAN 80 0	SHAFT SHAFT TA: NDS)		80 0	2			
2 3 4 COORDINA (ALL ENTRIES CYCLE LENGTH DFFSET SPLIT Ø1	TION DA S IN SECC PLAN 80 0 51	SHAFT SHAFT TA: NDS)		80 0 52	2			
2 3 4 COORDINA	TION DA S IN SECC PLAN 80 0	SHAFT SHAFT TA: NDS)		80 0	2			
2 3 4 COORDINA (ALL ENTRIES CYCLE LENGTH DFFSET SPLIT Ø1	TION DA S IN SECC PLAN 80 0 51	SHAFT SHAFT TA: NDS)		80 0 52	2			

PLAN 1 - MONDAY-PLAN 2 - ALL DAYS 2:00PM-6:00PM FREE – ALL OTHER TIMES

<u>NOTES:</u>

1. Ø1 "CALL NON ACTUATED" DURING COORDINATION.

2. OFFSET: BEGINNING OF Ø1 GREEN.

3. PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.

4. SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.

5. INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING

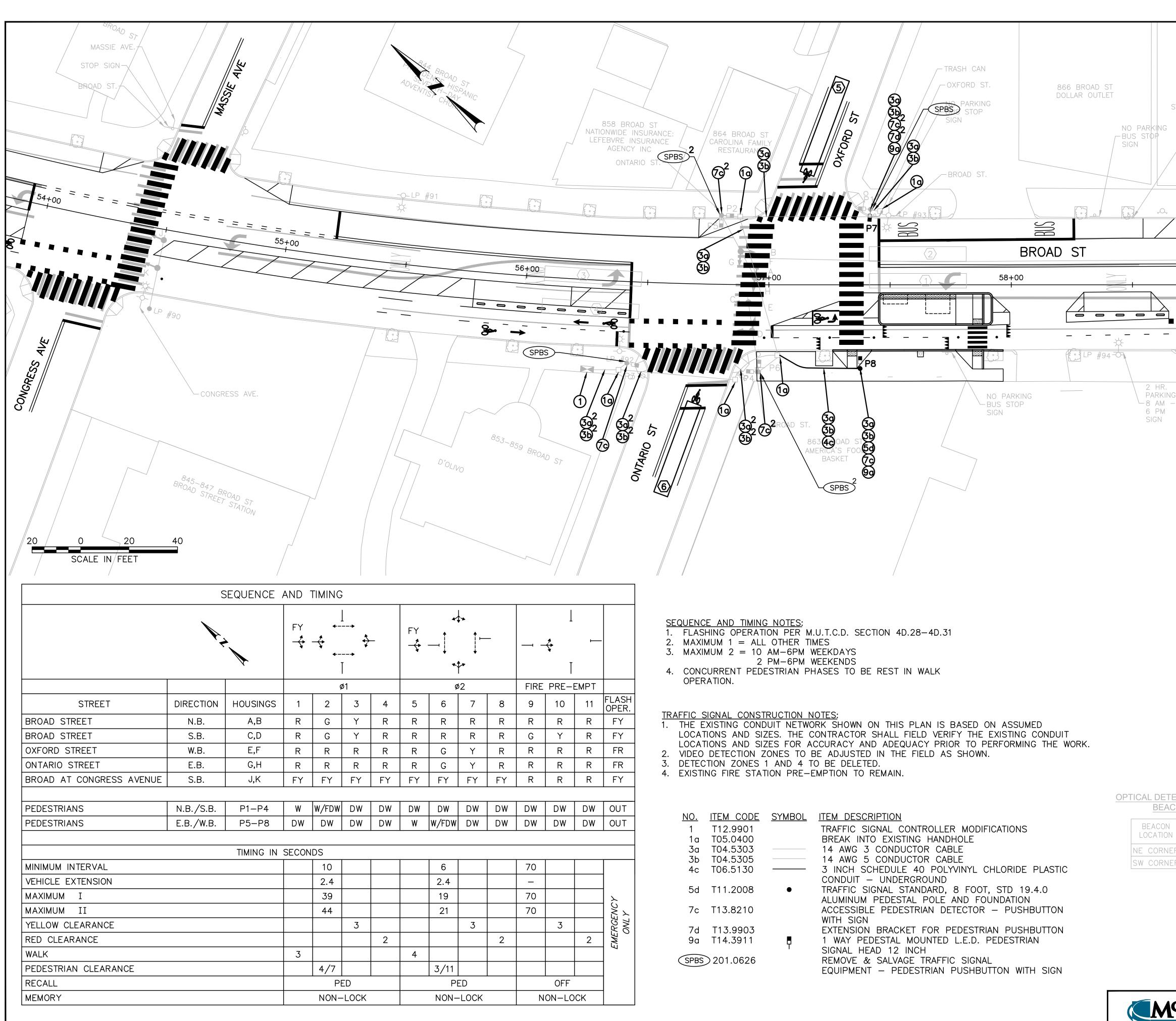
COORDINATION.

6. PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.

R	EVISION	S	RHODE ISLAND
NO.	DATE	BY	
			DEPARTMENT OF TRANSPORTATION
			PHASE 2
			BROAD STREET IMPROVEMENTS
			PROVIDENCE, RHODE ISLAND
			SIGNAL PLAN NO. 5
			BROAD STREET/POTTERS AVENUE INTERSECTION
			CHECKED BY DATE SCALE



XXXXX_V1_054_SIGNAL005



XXXXX_V1_055_SIGNAL006

VIDEO DETECTION

CAMERA DISTANCE FROM

NUMBER CENTER OF MAST ARM POLE

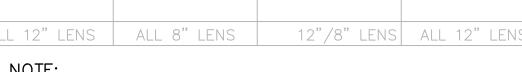
CAMERA SPACING:

AL DETECTOR CONFIRMATION BEACON SPACING:				NOMBERMAST ARM POLED119.0'122.0'
BEACON OCATION CORNER DISTANCE FROM CENTER OF MAST ARM POLE 9.0'				D221.0'219.5'D39.0'315.5'D415.0'410.5'
CORNER 11.0'	F NO.	REVISIONS DATE	S BY	RHODE ISLAND DEPARTMENT OF TRANSPORTATION
				PHASE 2 BROAD STREET IMPROVEMENTS PROVIDENCE, RHODE ISLAND
MCMAHON				SIGNAL PLAN NO. 6 BROAD STREET/ONTARIO STREET INTERSECTION
TRANSPORTATION ENGINEERS & PLANNERS www.mcmahonassociates.com				CHECKED BY DATE SCALE1"=20'

	CTOR CONFIRMATION SPACING:
BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE

AL DETECTOR CONFIRMATION BEACON SPACING:	
BLACON SFACING.	

# NOTE:



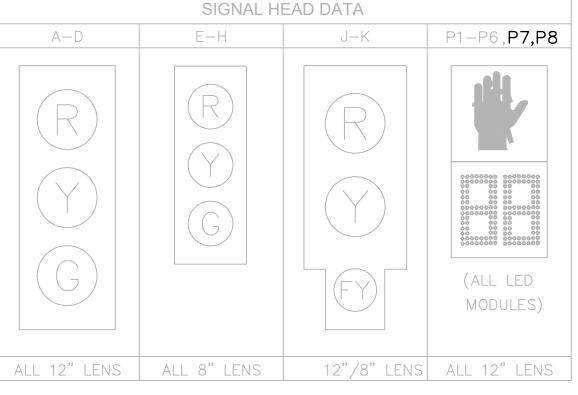




OPTICAL DETECTOR SPACING:

RECEIVER DISTANCE FROM

NUMBER CENTER OF MAST ARM POLE

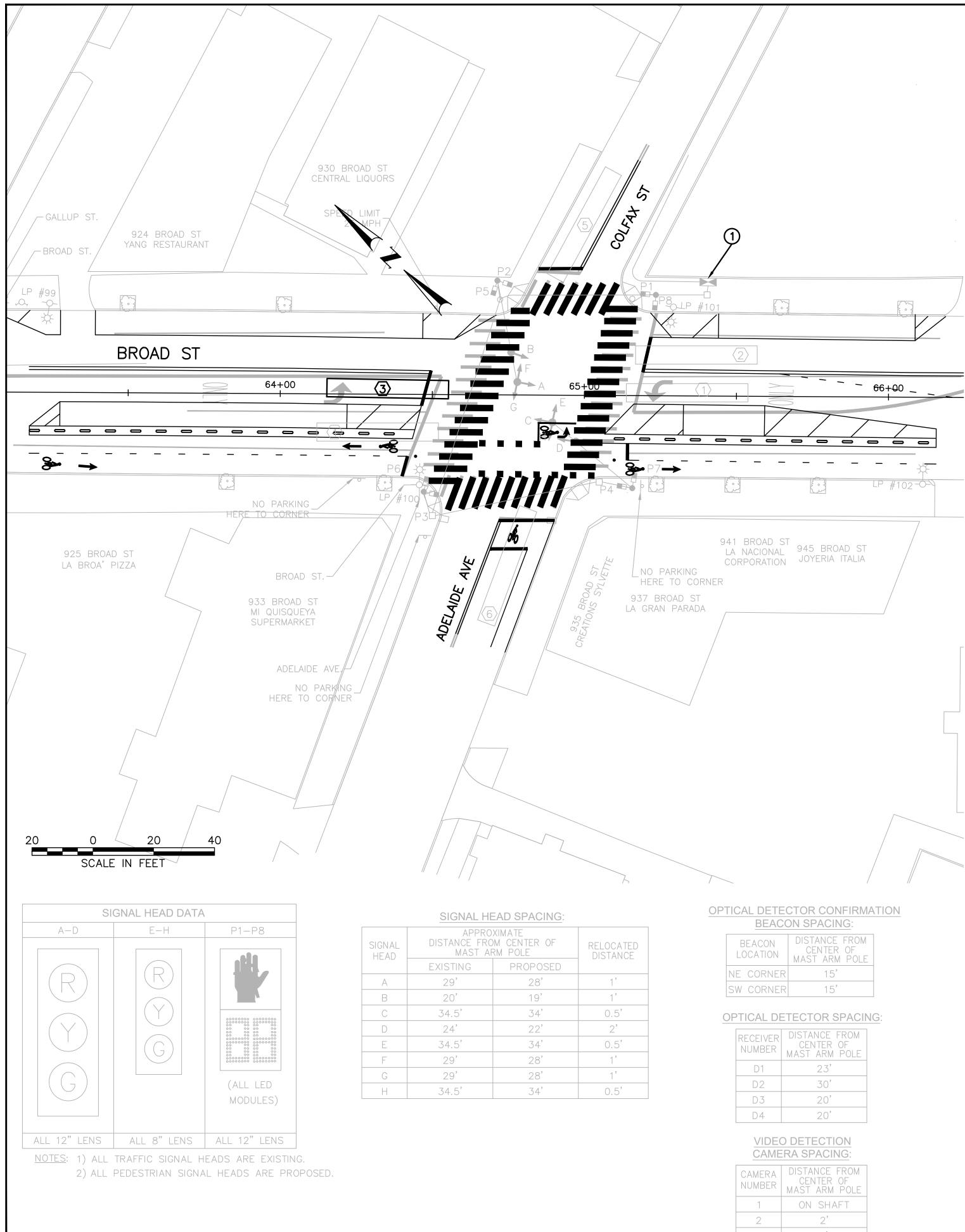


	SIGNAL HE	AD SPACING:	
SIGNAL HEAD	APPRO DISTANCE FRC MAST AF	RELOCATED DISTANCE	
	EXISTING	PROPOSED	
А	29.0'	_	_
В	18.0'	14.0'	4.0'
С	34.0'	29.0'	5.0'
D	20.0'	18.5'	1.5'
E	20.0	18.5'	1.5'
F	29.0	_	_
G	18.0'	14.0'	4.0'
Н	29.0'	_	_
J	22.0'	_	_
K	14.0'	_	_

VIDEO DETECTOR DATA							
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS		
	1	6'x40'		¢1	EXISTING		
2	1	6'x40'	3	Ø1	EXISTING		
$\langle 3 \rangle$	2	6'x40'	3	Ø1	EXISTING		
	2	6'x40'	3	ø1	EXISTING		
5	3	6'x40'	3	ø2	PROPOSED		
6	4	6'x40'	3	ø2	PROPOSED		

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	41	51

PARKING



	S	SEQUENCE	AND	TIMING							
				• •	→ → [	_				_	
				Ģ	ð1			Ø	2		
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	FLASH OPER.
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY
ADELAIDE AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	FR
ADELAIDE AVENUE	E.B.	G,H	R	R	R	R	R	G	Y	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT
		TIMING IN	SECON								
MINIMUM INTERVAL				10				6			
VEHICLE EXTENSION				2.4				2.4			
MAXIMUM I				44				20			
MAXIMUM II				51				23			EMERGENCY ONL Y
YELLOW CLEARANCE					3				3		RGE
RED CLEARANCE						1.5				1.5	- IME
WALK			3				4				
PEDESTRIAN CLEARANCE				4/9				3/14			
RECALL				PE	ED			PI	ED		
MEMORY				NON-	-LOCK			NON-	-LOCK		

SEQUENCE AND TIMING NOTES:

1. FLASHING OPERATION PER M.UT.C.D. SECTION 4D.28-D4.31

2. MAXIMUM 1 = ALL TIMES

3. MAXIMUM 2 = NOT USED

4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

		VIDEO DETE	CTOR DATA		
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
	1	6'×40'	3	ø1	EXISTING
2	1	6'×40'	3	ø1	EXISTING
$\langle 3 \rangle$	2	6'×40'	3	Ø1	PROPOSED
4	2	6'×40'	3	ø1	EXISTING
5	3	6'×40'	3	Ø2	EXISTING
6	4	6'x40'	3	Ø2	EXISTING

BLACON OF ACINO.					
BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE				
NE CORNER	15'				
SW CORNER	15'				

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	23'
D2	30'
D3	20'
D4	20'

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	ON SHAFT
2	2'
3	1'
4	ON SHAFT



COORDINAT	TON DATA:	
(ALL ENTRIES	IN SECONDS	)
	PLAN 1	PLAN 2
CYCLE LENGTH	90	100
OFFSET	70	75
SPLIT Ø1	61	68
SPLIT Ø2	29	32
COORDINATED PHASE	Ø1	Ø1
	•	
PLAN 1 – MONDAY-FRIDA	Y 7:00AM-	10:00AM
PLAN 2 – ALL DAYS 2:0	00PM-6:00PM	1
FREE - ALL OTHER TIN	IES	

FED. ROAD DIV. NO. STATE

RI

FEDERAL AID PROJECT NO.

FISCAL SHEET YEAR NO.

405-421-868 2021 42 51

SHEET

<u>NOTES:</u>

- 1. Ø1 "CALL NON ACTUATED" DURING COORDINATION.
- 2. OFFSET: BEGINNING OF Ø1 GREEN.
- 3. PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
- 4. SPLIT TIMES EQUAL GREEN PLUS CLEARANCES. 5. INHIBIT MAX. TERMINATION SHALL BE IN EFFECT
- DURING COORDINATION. 6. PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.

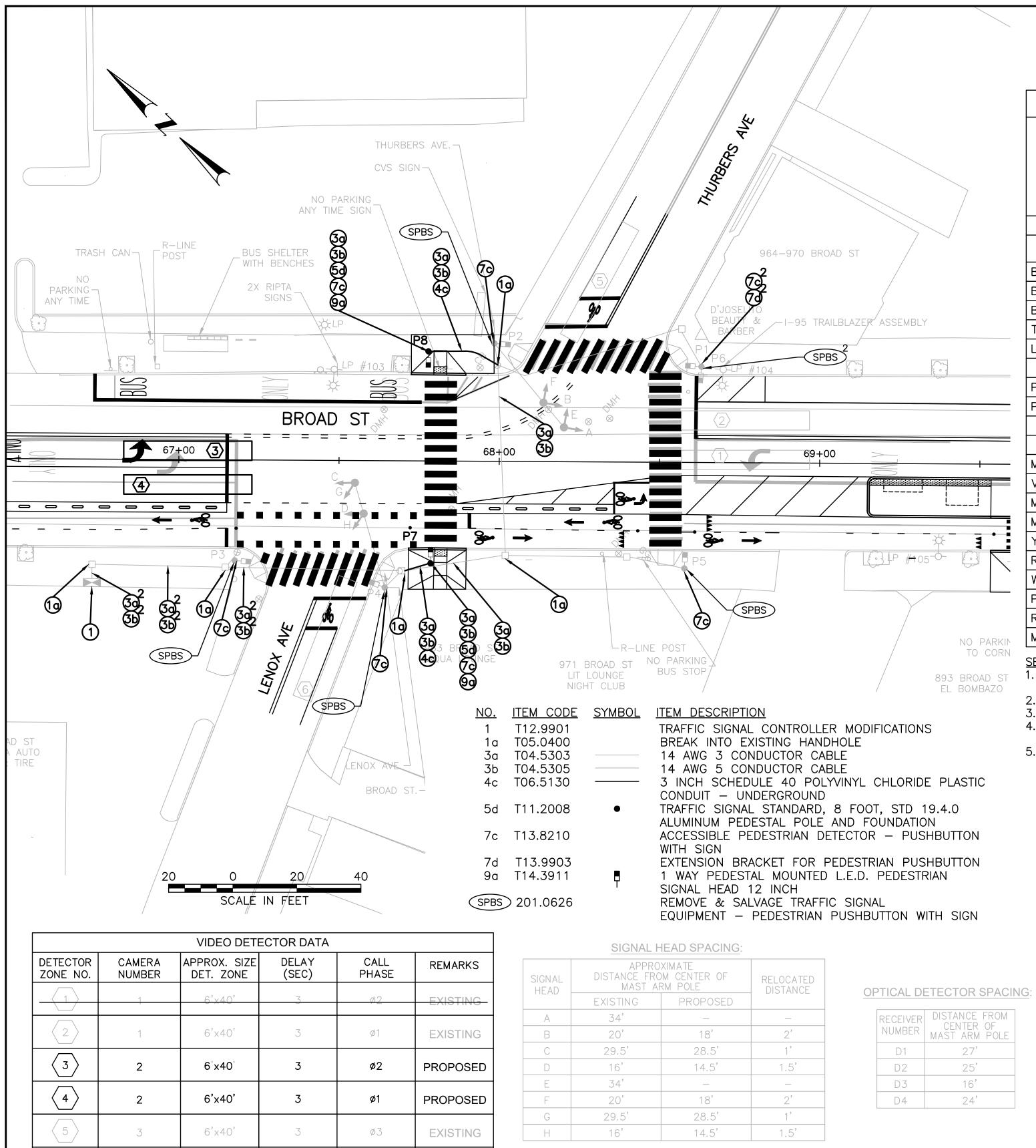
### TRAFFIC SIGNAL CONSTRUCTION NOTES:

- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED
- LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- 2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
- 3. DETECTION ZONES 1 AND 4 TO BE DELETED.

NO. ITEM CODE SYMBOL ITEM DESCRIPTION 1 T12.9901 TRAFFIC SIGNAL CONTROLLER MODIFICATIONS

REVISIONS RHODE ISLAND NO. DATE BY DEPARTMENT OF TRANSPORTATION PHASE 2 BROAD STREET IMPROVEMENTS PROVIDENCE, RHODE ISLAND SIGNAL PLAN NO. 7 **MCMAHON** BROAD STREET/ADELAIDE AVENUE INTERSECTION SCALE <u>1"=20'</u> CHECKED BY _____ DATE _____ www.mcmahonassociates.com

XXXXX_V1_056_SIGNAL007



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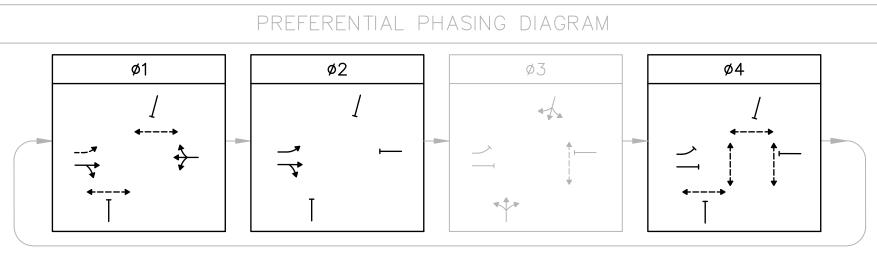
_____

6'x40'

øЗ

EXISTING

3

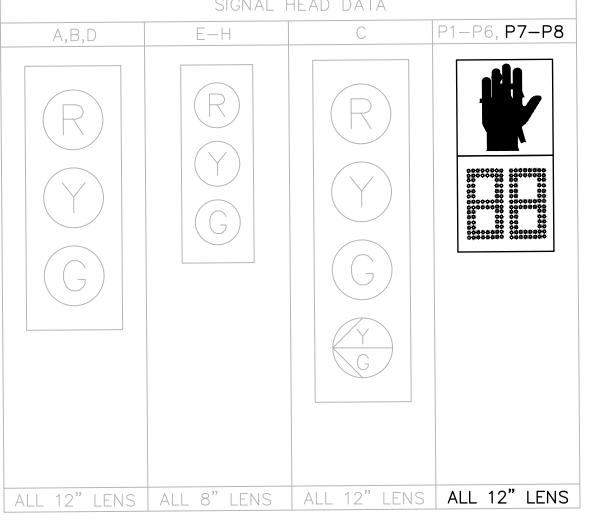


DESCRIPTIO	Ν

ER OF	RELOCATED DISTANCE
18'	2'
28.5'	1'
14.5'	1.5'
_	_
18'	2'
28.5'	1'
4.5'	1.5'

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	27'
D2	25'
D3	16'
D4	24'

																F	ED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR		tot She
																		RI 40	5-421-868	2021	43	
		SEQUENCE	AND 1	Fiming	;													7				
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	`<		-	7	•	₩ ₩			<b>—</b>	-			-			<b>—</b> —						
				•• [	•		1	ſ			*	·		Ţ	•							
					ø1			ø2			ب	ø3		•	ø4			_				
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	FLASH	+				
COAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	OPER. FY	·				
OAD STREET	S.B.	C	R	G	Y	R	G _{<g< sub="">-</g<>}	· Y -	R	R	R	R	R	R	R	R	FY	-				
OAD STREET	S.B.	D	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	FR	-				
JRBERS AVENUE	W.B.	E,F	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR					
IOX AVENUE	E.B.	G,H	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY					
DESTRIANS	N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	w	FDW	DW	OUT	_				
DESTRIANS	E.B./W.B.	P5-P6	DW	DW	DW	DW	DW	DW	DW	W	W/FDW		DW	W	FDW	DW						
		P7-P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW		_				
		TIMING IN				·	I	ı		I		·	· · · · · · · · · · · · · · · · · · ·				· · · · · ·					
NIMUM INTERVAL				10			4				6											
HICLE EXTENSION				2.4			2.4				2.4						_					
XIMUM I				35			4				16						Ъ.					
XIMUM II				36			5				16	-					SENC LY					
LLOW CLEARANCE					3			3	1			3	1 5			7	IERGE ONL	5				
D CLEARANCE			3			2.5				4			1.5	7		3	EME					
DESTRIAN CLEARANCE				4/8							3/14			/	11		1					
CALL				•	ED			I OFF			·	I PED			 OFF		-					
MORY					-LOCK		N	ON-LO	CK			-LOCK		N	DN-LO	CK						
FLASHING OPERATION PER 4D.28-D4.31 MAXIMUM 1 = ALL TIMES MAXIMUM 2 = NOT USED Ø4 PEDESTRIAN PHASE UF ACTIVATION ONLY CONCURRENT PEDESTRIAN REST IN WALK OPERATION	PON PUSHBUTT	ON 2.	THE ADEC VIDEC DETE	EXISTIN JMED L EXISTIN QUACY O DETE CTION	NG CO OCATI NG CO PRIOR CCTION ZONE EQUEN	NDUIT ONS A NDUIT TO P ZONE 1 TO	NETWC ND SIZ LOCAT ERFORI S TO E BE DEI	RK SH ES. TH IONS A MING TI BE ADJ	E CON ND SIZ HE WO USTED	TRACT ZES FC RK. AS SI	OR SHA R ACC HOWN.	ALL FIE URACY	ELD VE AND	RIFY					N CENT MAST A ER 2	<mark>NG</mark> : De from		
									C			DATA:							DETECTION			
	SIGNAL HE			6, <b>P7</b> –	DR							SECON					Г					
A,B,D	E-H	C		∪, ୮/−							F	PLAN 1	F	PLAN 2				CAMERA NUMBER	DISTANCE F CENTER MAST ARM			
								E LEN	GTH			90		100			-	1	6'			
(R)	(R)	(R)					OFFS	SET				0		0			-	2	ON SHA			
							SPLI	Γ α1				35		43			-	3	ON SHA ON SHA			
			00000 00000 00000 00000		* * *		SPLI				_	9		 	_			4				
	G		00 0000 0000 00 00				SPLI					23		26				<u>NON A</u>	<u>NOTES:</u> CTUATED"		Ç	
			80 0000 0000				SPLI					23		23		CO	ORDIN	ATION.				
G		(G)					COOF	RDINATE	ED PH	ASE		Ø1		ø1		3. PL SH	AN FO ALL BI	RCE OFF E IN EFF		G FORC		:
		Y													4		LIT TIN EARAN		AL GREEN	I PLUS		
		G												MAO	5	5. INH	HBIT M	IAX. TER	MINATION COORDINA		BE II	•
								<u> </u>	ALL D			vi-0:UC	UT IVI			6. PH	ASE 3	5 TO BE	ON PED.			



<u>NOTE:</u> PEDESTRIAN SIGNAL HEADS P7 AND P8 ARE PROPOSED.

FREE – ALL OTHER TIMES

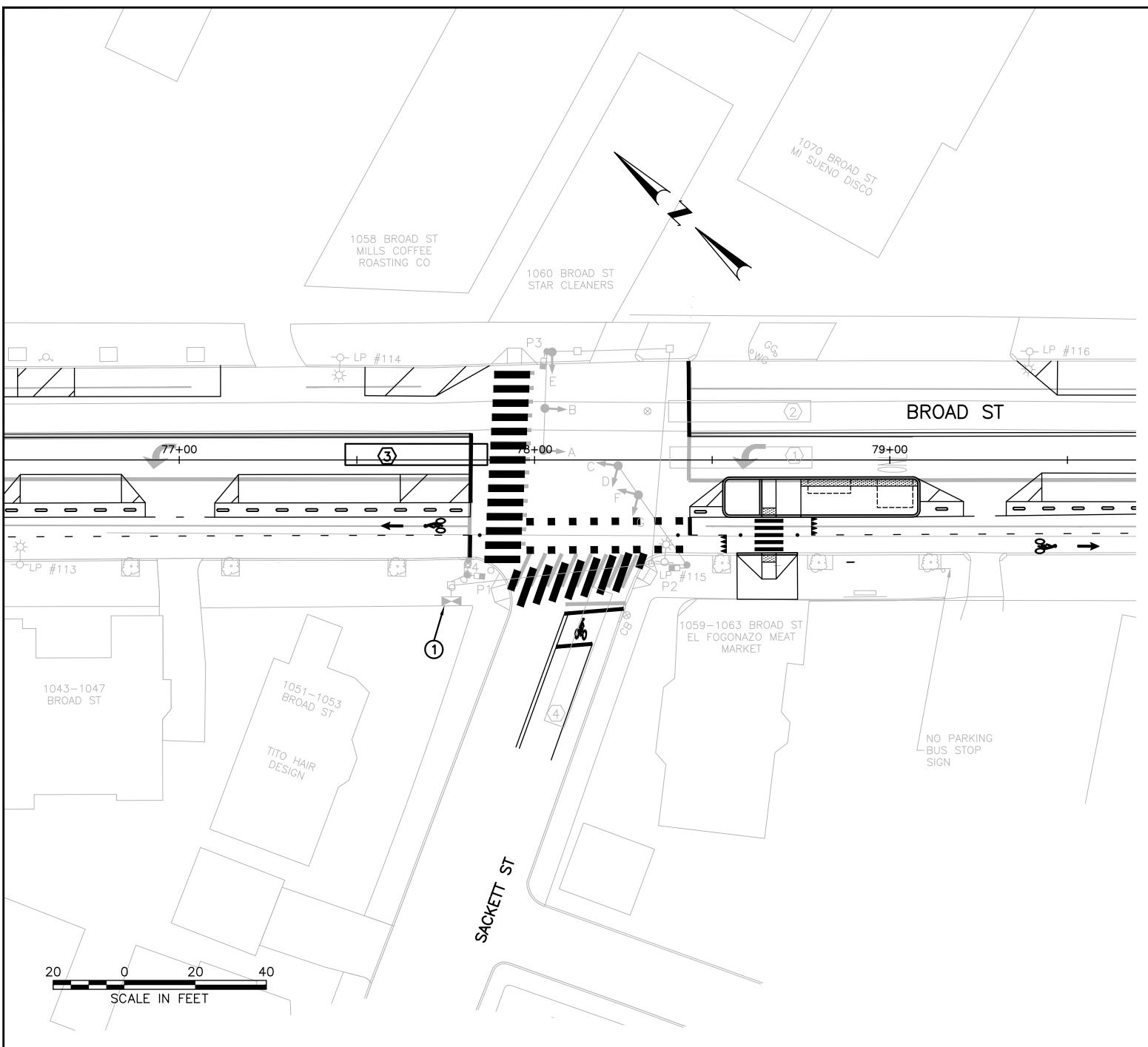
6. PHASE 3 TO BE ON PED. RECALL DURING COORDINATION.

	F NO.	REVISION: DATE	S BY	RHODE ISLAND DEPARTMENT OF TRANSPORTATION
				PHASE 2 BROAD STREET IMPROVEMENTS
				PROVIDENCE, RHODE ISLAND
				SIGNAL PLAN NO. 8
HON				BROAD STREET/THURBERS AVENUE INTERSECTION
EERS & PLANNERS				CHECKED BY DATE SCALE 1"=20'



CHECKED BY _____ DATE _____ SCALE 1 = 20

XXXXX_V1_057_SIGNAL008



SIGNAL HEAD	APPRO DISTANCE FRC MAST AF	RELOCATED DISTANCE	
	EXISTING	PROPOSED	
А	19'		_
В	11.5'	10.5'	1'
С	33'	32'	1'
D	20'	18'	2'
E	ON SHAFT		
F	33'	32'	1'
G	20'	18'	2'

	VIDEO DETECTOR DATA											
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS							
	1	6'x40'	3	¢1	EXISTING							
$\langle 2 \rangle$	1	6'x40'	3	Ø1	EXISTING							
3	2	6'x40'	3	ø1	PROPOSED							
4	3	6'×40'	3	Ø2	EXISTING							

	<u> </u>	SEQUENCE	AND	TIMING							
	_	₹ •	<b>4</b> , ★								
				Ø	51			ø	2		-
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	FLASH OPER
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY
SACKETT STREET	E.B.	E,F,G	R	R	R	R	R	G	Y	R	FR
PEDESTRIANS	N.B./S.B.	P1-P2	w	W/FDW	DW	DW	DW		DW	DW	
PEDESTRIANS	E.B./W.B.	P3-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT
		TIMING IN	SECON	NDS							
MINIMUM INTERVAL				10				6			
VEHICLE EXTENSION				2.4				2.4			1
MAXIMUM I				26				19			
MAXIMUM II				46				19			EMERGENCY ONLY
YELLOW CLEARANCE					3				3		
RED CLEARANCE						1				1	
WALK			3				4				
PEDESTRIAN CLEARANCE		4/8				3/13					
RECALL		PE	ED		PED						
MEMORY			NON-LOCK					NON-LOCK			

SEQUENCE AND TIMING NOTES:

1. FLASHING OPERATION PER M.UT.C.D. SECTION 4D.28-4D.31

2. MAXIMUM 1 = ALL TIMES

3. MAXIMUM 2 = NOT USED

4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

### TRAFFIC SIGNAL CONSTRUCTION NOTES:

- 1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK. 2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
- 3. DETECTION ZONE 1 TO BE DELETED.

<u>NO.</u>	ITEM CODE	<u>SYMBOL</u>	ITEM DESCRIPTION	
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS	

S	IGNAL HEAD DAT	A
A-D	E-G	P1-P4
R Y G	R Y G	(ALL LED MODULES)
ALL 12" LENS	ALL 8" LENS	ALL 12" LENS

- NOTES: 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
  - 2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	44	51

COORDINAT	TON DATA:								
(ALL ENTRIES IN SECONDS)									
	PLAN 1	PLAN 2							
CYCLE LENGTH	60	85							
OFFSET	0	0							
SPLIT Ø1	33	58							
SPLIT Ø2	27	27							
COORDINATED PHASE	Ø1	Ø1							
PLAN 1 – MONDAY-FRIDA	Y 7:00AM-	10:00AM							
PLAN 2 - ALL DAYS 2:0	00PM-6:00PM	1							
FREE - ALL OTHER TIN	IES								

NOTES:

- 1. Ø1 "CALL NON ACTUATED" DURING COORDINATION.
- 2. OFFSET: BEGINNING OF Ø1 GREEN.
- 3. PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
- 4. SPLIT TIMES EQUAL GREEN PLUS CLEARANCES. 5. INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
- 6. PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.

### OPTICAL DETECTOR CONFIRMATION **BEACON SPACING:**

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
SW CORNER	21'

### OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	18'
D2	27'
D3	23'

### VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	2.5'
2	15'
3	ON SHAFT

REVISIONS RHODE ISLAND NO. | DATE | BY DEPARTMENT OF TRANSPORTATION PHASE 2 BROAD STREET IMPROVEMENTS PROVIDENCE, RHODE ISLAND SIGNAL PLAN NO. 9 **MCMAHON** BROAD STREET/SACKETT STREET INTERSECTION CHECKED BY _____ DATE _____ SCALE _____20' www.mcmahonassociates.com

XXXXX_V1_058_SIGNAL009

2 PM-6PM WEEKENDS 4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

3. MAXIMUM 2 = 10 AM-6PM WEEKDAYS

1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-D4.31 2. MAXIMUM 1 = ALL OTHER TIMES

PEDESTRIANS

MAXIMUM I

MAXIMUM II

RED CLEARANCE

WALK

RECALL

MEMORY

MINIMUM INTERVAL

VEHICLE EXTENSION

YELLOW CLEARANCE

PEDESTRIAN CLEARANCE

SEQUENCE AND TIMING NOTES:

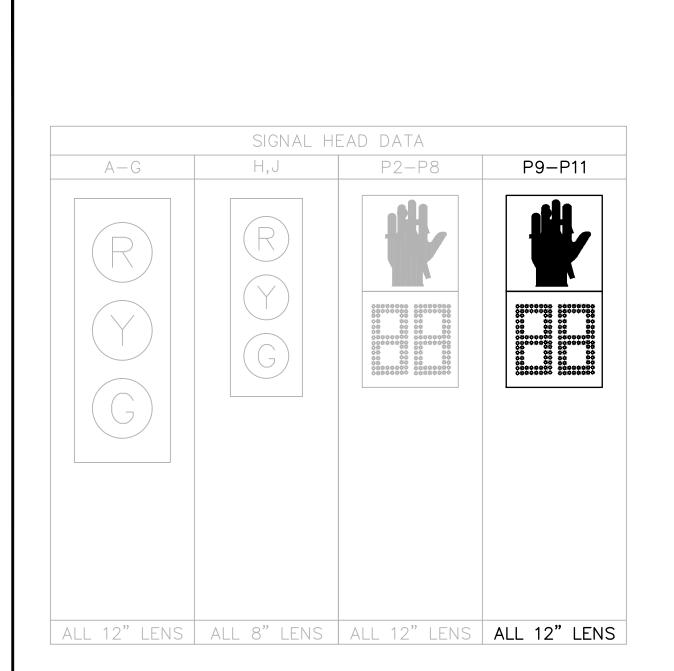
E.B./W.B.

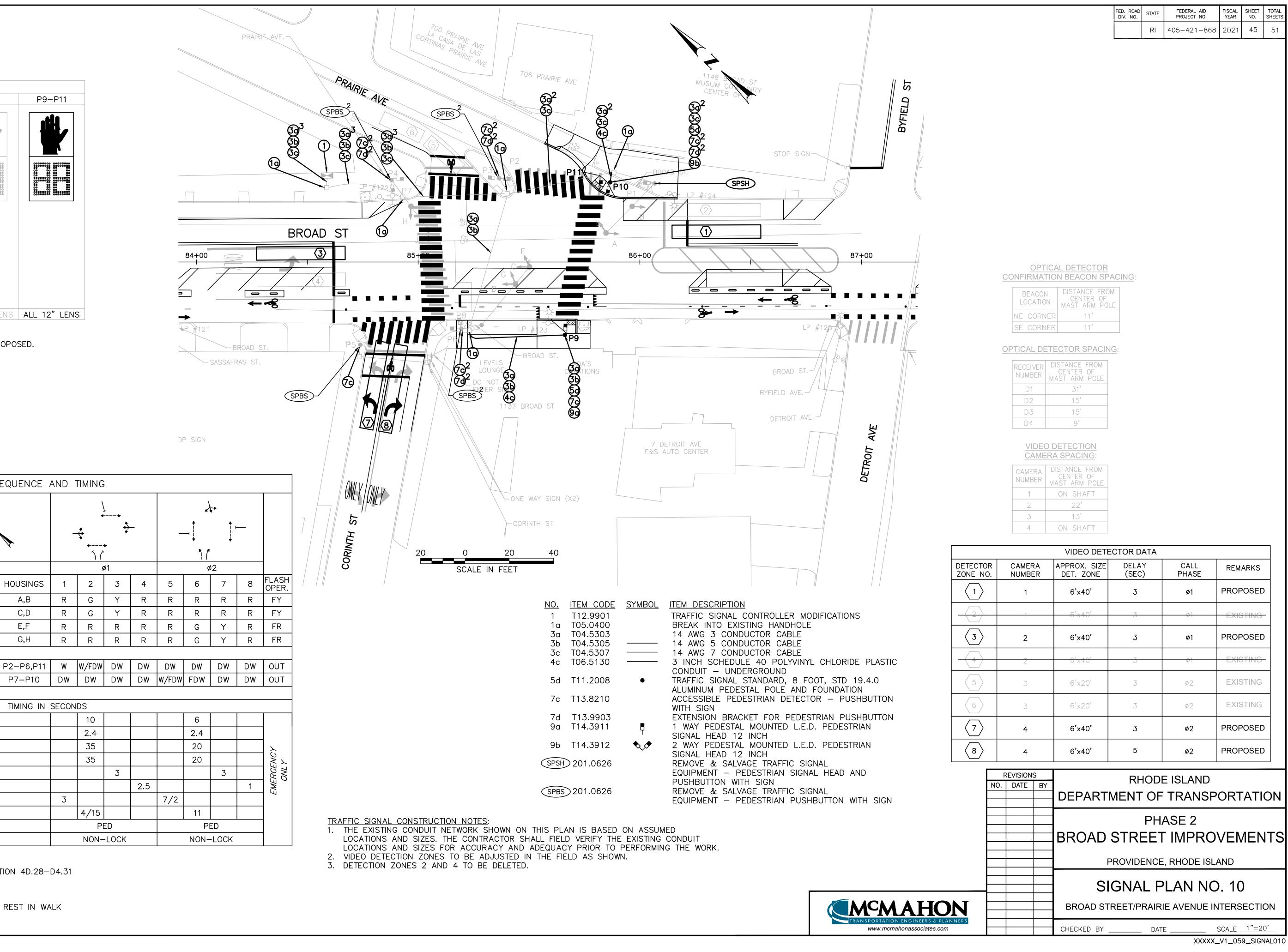
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	F  C
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	
PRAIRIE AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	
CORINTH STREET	E.B.	G,H	R	R	R	R	R	G	Y	R	
PEDESTRIANS	N.B./S.B.	P2-P6,P11	W	W/FDW	DW	DW	DW	DW	DW	DW	

TIMING IN SECONDS

SEQUENCE AND TIMING

<u>NOTE:</u> PEDESTRIAN SIGNAL HEADS P9-P11 ARE PROPOSED.





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10

2.4

35

35

4/15

PED

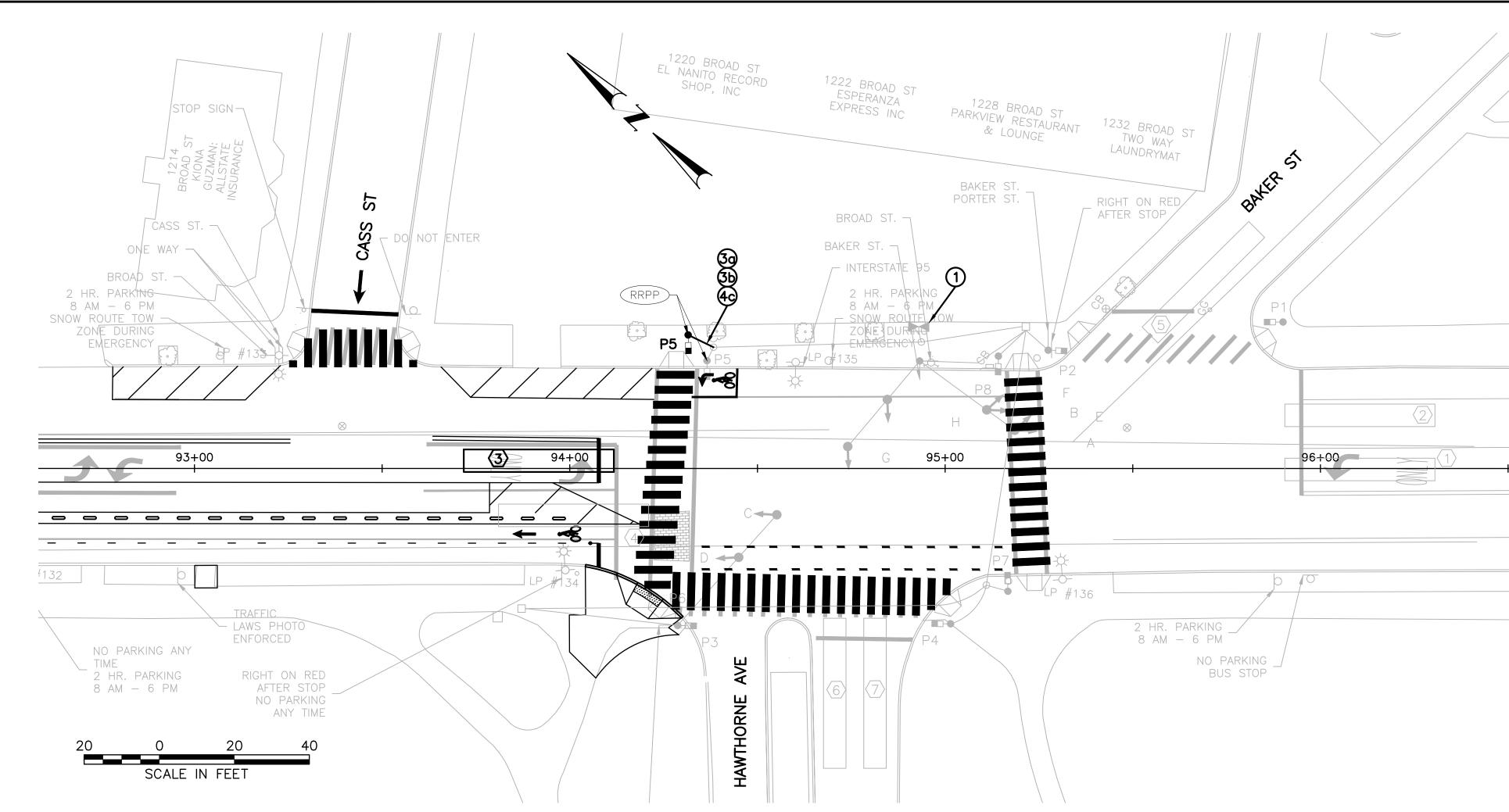
NON-LOCK

3

3

2.5

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				¢	81			Ø	2			øЗ		
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	FLASH OPER
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	R	R	R	FY
BAKER STREET	W.B.	E,F	R	R	R	R	R	R	R	R	G	Y	R	FR
HAWTHORNE AVENUE	E.B.	G,H	R	R	R	R	R	G	Y	R	R	R	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	w	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	OUT
		TIMING IN												
MINIMUM INTERVAL								6						
VEHICLE EXTENSION				2.4				2.4						-
MAXIMUM I				42				21						
MAXIMUM II				58				16			11			ΪŶ,
YELLOW CLEARANCE					3				3			3		EMERGENC)
RED CLEARANCE						1.5				2.5			2.5	O MEF
WALK			3				4							
PEDESTRIAN CLEARANCE				4/17				3/13						1
RECALL				PE	ED			PE	D			OFF		1
MEMORY				NON-	LOCK		NON-LOCK				N	DN-LO	CK	1

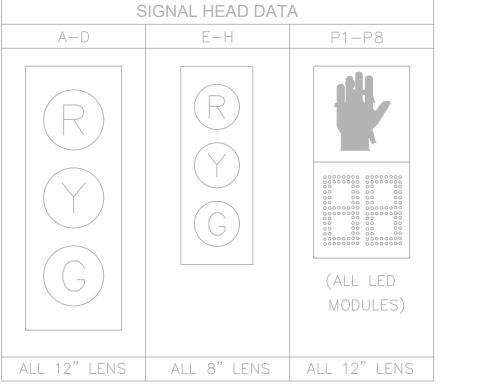
- J. MAXIMUM Z = 10 AM-6PM WEEKDATS 2 PM-6PM WEEKENDS
- 4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

- TRAFFIC SIGNAL CONSTRUCTION NOTES:
- 1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- 2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
- 3. DETECTION ZONE 4 TO BE DELETED.
- 4. CONTRACTOR TO COORDINATE WITH THE RED LIGHT CAMERA COMPANY TO MAKE NECESSARY ADJUSTMENTS DUE TO THE PROPOSED LANE REASSIGNMENT.

<u>NO.</u>	ITEM CODE	<u>SYMBOL</u>	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
Зa	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC
			CONDUIT – UNDERGROUND
RRPP	∑T11.9902		REMOVE AND RELOCATE PEDESTAL POLE

	VIDEO DETECTOR DATA												
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS								
$\langle 1 \rangle$	1	6'×40'	3	Ø1	EXISTING								
2	1	6'x40'	3	Ø1	EXISTING								
3	2	6'x40'	3	ø1	PROPOSED								
4	2	6'×40'	3	ø1	EXISTING								
5	3	6'×40'	3	øЗ	EXISTING								
6	4	6'x40'	3	Ø2	EXISTING								
$\langle 7 \rangle$	4	6'×40'	5	Ø2	EXISTING								

	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		RI	405-421-868	2021	46	51



NOTES: 1. ALL TRAFFIC SIGNAL HEADS ARE EXISTING.

2. ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

### OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	16'
NE CORNER	30'
NW CORNER	20'

### OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	36'
D2	33'
D3	32'
D4	21'

### VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	9'
2	34'
3	10'
4	4'

### SIGNAL HEAD SPACING:

SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
Α	39'	37'	2'
В	26'		_
С	39'	37'	2'
D	30'	28'	2'
E	39'	37'	2'
F	26'		_
G	24'	22.5'	1.5'
Н	9'	7'	2'

REVISIONS		S	RHODE ISLAND	
NO.	DATE	BY		
			DEPARTMENT OF TRANSPORTATION	
			PHASE 2 BROAD STREET IMPROVEMEN	
			PROVIDENCE, RHODE ISLAND	
			SIGNAL PLAN NO. 11	
			BROAD STREET/HAWTHORNE AVENUE INTERSECTION	



CHECKED BY _____ DATE _____

SCALE <u>1"=20'</u>

XXXXX_V1_060_SIGNAL011