MAINE TURNPIKE AUTHORITY

ADDENDUM NO. 2

CONTRACT 2019.02

CONTRACT 2019.02

KENNEBUNK TRAVEL PLAZAS

PARKING

EXPANSION MILE 25.5 SB AND NB

AND ROUTE 35 TRAFFIC SIGNALS

The bid opening date is Tuesday November 19, 2019 at 11:00 am.

The following changes are made to the Proposal, Specifications and Plans.

PROPOSAL

Proposal Sheets P-3 shall be deleted and replaced with revised sheets attached hereto.

- Changing Item 643.911 Quantity to 2.
- Changing Item 643.912 Quantity to 2.

PLANS

• Plan Sheets EQ-01 (2 of 158), CD-06 (14 of 158), LGT-02 (88 of 158), SGNL-01 (100 of 158), SGNL-02 (101 of 158), SGNL-04 (103 of 158) are deleted and replaced with the attached.

QUESTIONS

Question 1: How will muck excavating be paid for?

<u>Answer:</u> Muck excavation shall be paid for as common excavation.

Question 2: SP-168 Does the AC pipe need to be removed by a licensed abatement specialist as stated or per DEP requirements?

Answer: AC pipe shall be removed by a licensed abatement specialist.

Question 3: Note 4 in the earthwork section of GN-01 it is required to compact granular borrow, subbase gravel, base gravel to 98%. Is this correct?

Answer: No, Granular borrow, aggregate base, and aggregate subbase shall be compacted to 95%.

Contract 2019.02 Addendum 02

Question 4: Is there grading information available for SB STA 375+00 to 380+00?

Answer: No, this work should be constructed based on the typical section on sheet TS-02 and plan sheet SP-04.

Question 5: Is the Maine Turnpike going to provide a virgin letter for the petroleum contaminated soils?

Answer: Yes.

Question 6: Is the scale on Signal Plan 2 is correct at 1"=50' or should it be 1"=40"?

Answer: The scale should be 1"=40'.

Question 7: Can you confirm that the 30' Mast Arm in the North West is 30' and not 25' as measured.

Answer: Mast arm drafting and the equipment and work items list has been updated. The mast arm was labeled correctly.

Question 8: The signal time for Alewive and Alfred road is missing the phase 4 pedestrian timing, can the MTA please provide this timing. Also, the pedestrian clearance timing for phase seem longer than need, can the MTA please confirm.

Answer: Sheet SGNL-04 has been revised.

Question 9: Will the authority require hot rubber on all surface joints for the widening, ramps and parking lots?

Answer: Hot rubber will be required on all joints for the widening and ramps and will not be required for the joints within the parking lots.

Question 10: Can the minimum width for the pipe & conduit trench details located on sheet CD-06 & LGT-02 be confirmed?

Answer: The minimum width on sheet CD-06 has been updated to be ½ ID + 1.5 FT (min. 3 FT). This detail label has also been revised to remove the reference to conduits.

The minimum width on sheet LGT-02 has been updated to be 1.5 FT. This detail label has also been revised to remove the reference to standard pipe.

Question 11: Could we get a list of locations for the Underdrain Delineator Posts (Item 606.356).

Answer: Underdrain Delineator Posts shall be located as noted in the 606.01 including one at every culvert outlet, guardrail terminals/trailing ends, electrical junction boxes, and per Maine DOT standard detail 645(07) for proposed new ramps.

Contract 2019.02 Addendum 02

ATTACHMENTS

• Addendum No. 2		(3 pages)
 Revised Proposal Sheet 		(1 pages)
• Revised Plan sheets		(6 pages)
Notes: The above items shall be considered	lered as part of the bid submit	ttal.
The total number of pages included wit	th this addendum is ten pages	s (10).
All bidders are requested to acknowled faxing this sheet to Nathaniel Carll, Pt 7739. Bidders are also required to acknowled bid package.	urchasing Department, Main	e Turnpike Authority at 207-871-
Business Name		
Print Name and Title		
Signature		
Date November 14, 2019		
	Very truly yours,	
	MAINE TURNPIKE AU	UTHORITY
	Nathaniel Carll Purchasing Department Maine Turnpike Authority	

Contract 2019.02 Addendum 02

	1		Ι.		NTRACT NO: 2019.02	
Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers	Bid Amount in Numbers	
	·			Dollars Cent	Dollars Cer	nts
				BROUGHT FORWARD		
643.911	Mast Arm Pole - 25' Mast Arm	Each	2			
643.912	Mast Arm Pole - 30' Mast Arm	Each	2			
643.913	Mast Arm Pole - 35' Mast Arm	Each	2			
643.914	Mast Arm Pole - 40' Mast Arm	Each	1			
643.92	Pedestal Pole - 8 Foot	Each	1			
643.94	Dual Purpose Pole - 30' Mast Arm and 12' Luminaire Arm	Each	1			
645.105	Remove and Stack Sign	Each	135			
645.109	Remove and Reset Sign	Each	45			
645.1211	Overhead Sign Structure and Guide Sign	Lump Sum	1			
645.161	Breakaway Device Single Pole	Each	10			
645.162	Breakaway Device Multi Pole	Each	13			
645.251	Roadside Guide Signs, Type I	Square Foot	560			

CARRIED FORWARD:	

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201.11 201.23 201.24	ITEM DESCRIPTION	UNIT	PLAZA EXPANSION	INTERCHANGE PAVING	SIGNAL IMPROVEMENTS	PROJECT TOTAL
	Clearing	AC	7	0	0	7
01.24	Removing Single Tree Top Only	EA	27	0	0	27
02.15	Removing Stump Removing Existing Manhole or Catch Basin	EA EA	27 6	0	0	6
02.13	Removing Pavement Surface	SY	13000	600	0	13600
02.203	Pavement Butt Joints	SY	0	2400	0	2400
02.22	Removing and Stockpiling Boulders	EA	41	0	0	41
03.20	Common Excavation	CY	55300	0	0	55300
03.2312	Health and Safety Plan	LS	1	0	0	1
03.2333	Disposal/Treatment of Special Excavation	TON	250	0	0	250
03.2334	Disposal/Treatment of Contaminated Groundwater	GAL	100000	0	0	100000
03.25	Granular Borrow	CY	4450	0	0	4450
03.43	Foamed Glass Aggregate Lightweight Fill	CY	1200	0	0	1200
03.45	Clay Borrow	CY	200	0	0	200
04.10	Aggregate Subbase Course - Gravel	CY	29400 307		0	29400 30700
04.14	Aggregate Base Course - Type A	TON	7700 9000	0	0	7700 9000
03.207	Hot Mix Asphalt, 19.0 mm Nominal Maximum Size Hot Mix Asphalt, 12.5 mm - RAP	TON	4300	0	0	4300
		_				110000000
03.2081	Hot Mix Asphalt, 12.5 mm (Polymer Modified) - RAP	TON	1650	1250	0	2900
03.2084	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (sidewalks, drives, islands & incidentals)	TON	290	0	0	290
03.212 03.213	Hot Mix Asphalt, 4.75 mm Nominal Maximum Size	TON	345 5050	450	0	795 5050
09.15	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base Course) Bituminous Tack Coat RS-1 or RS1H - Applied	GAL	5950	0 1250	0	7200
11.12	Crushed Stone Surface	TON	5950	0	0	54
19.30	Sawing Bituminous Pavement	LF	10800	0	0	10800
26.306	Temporary Concrete Barrier, Type I - Supplied by Authority (3520 LF)	LS	1	0	0	1
26.307	Concrete Barrier Type I - Stormwater Filter	LF	100	0	0	100
27.341	Work Zone Crash Cushions - TL-3	UNIT	5	0	0	5
27.342	Work Zone Crash Cushions - TL-2	UNIT	1	0	0	1
02.30	Flowable Concrete Fill	CY	110	0	0	110
03.05	6"PVC Pipe	LF	52	0	0	52
03.155	12 inch Reinforced Concrete Pipe - Class III	LF	1050	0	0	1050
03.1552	12 inch Reinforced Concrete Pipe - Class IV	LF	200	0	0	200
03.165	15 inch Reinforced Concrete Pipe - Class III	LF	130	0	0	130
03.175	18 inch Reinforced Concrete Pipe - Class III	LF	770	0	0	770
03.179	18 Inch Culvert Pipe Option III	LF	50	0	0	50
03.195	24 inch Reinforced Concrete Pipe - Class III	LF	520	0	0	520
03.205	30 inch Reinforced Concrete Pipe - Class III	LF	440	0	0	440
03.215	36 inch Reinforced Concrete Pipe - Class III	LF	300	0	0	300
03.225	42 inch Reinforced Concrete Pipe - Class III Concrete Collar	LF EA	120	0	0	120
04.09	Catch Basin Type B1	EA	21	0	0	21
04.093	60" Catch Basin Type B1	EA	3	0	0	3
04.094	72" Catch Basin Type B1	EA	1.5	0	0	1.5
04.11	Catch Basin Type C1	EA	1	0	0	1
04.16	Altering Catch Basin to Manhole	EA	1	0	0	1
04.164	Rebuilding Catch Basin	EA	1	0	0	1
04.18	Adjusting Manhole or Catch Basin To Grade	EA	3	0	0	3
04.182	Cleaning Existing Catch Basin and Manhole	EA	4	0	0	4
04.244	Catch Basin Type F4	EA	2	0	0	2
04.248	Catch Basin Type F6	EA	2	0	0	2
04.30	Oil-Water Separator System	EA	1	0	0	1
05.016	6 Inch PVC Underdrain	LF	1550	0	0	1550
05.018	8 Inch PVC Underdrain	LF	600	0	0	600
05.09	6 Inch Underdrain Type B	LF	810	0	0	810
05.10 05.13	6 Inch Underdrain Outlet 18 Inch Underdrain Type C	LF LF	23 140	0	0	23 140
06.1301	31" W-Beam Guardrail - Mid-Way Splice (7' Steel Posts, 8" Offset Blocks, Single Faced)	LF	1850	0	0	1850
06.1307	31"W-Beam Guardrail - Mid-Way Splice Flared Terminal	EA	2	0	0	2
06.1351	Terminal End - Anchored End - 31" W-Beam Guardrail	EA	2	0	0	2
06.356	Underdrain Delineator Post	EA	230	0	0	230
06.3561	Delineator Post – Remove and Reset	EA	58	0	0	58
06.3605	Guardrail - Remove, Modify and Reset Single Rail	LF	190	0.0	0.0	190
06.3606	Guardrail - Remove, Modify and Reset Double Rail	LF	25	0.0	0.0	25
06.79	Guardrail 350 Flared Terminal	EA	2	0	0	2
07.24	Remove and Reset Fence	LF	220	0	0	220
07.44	Safety Fence	LF	4470	0	0	4470
8.08	Reinforced Concrete Sidewalk	SY	220	0	0	220
08.26	Curb Ramp Detectable Warning Field	SF	0	0	48	48
09.12	Vertical Curb Type 1 - Circular	LF	85	0	0	85
00.001	Terminal Curb Type 1 - 4 foot	EA	2	0	0	2
	Teminal Curb Type 1 - 8 foot	EA	1	0	0	1
09.238	Curb Type 3	LF	150	0	0	150
09.238 09.31		LF	2350	0	0	2350 140
09.238 09.31 09.34	Curb Type 5	TT				
09.234 09.238 09.31 09.34 09.35	Curb - Type 5 - Circular	LF	140			60,000
09.238 09.31 09.34 09.35 09.38	Curb - Type 5 - Circular Reset Curb Type 1	LF	790	0	0	790
09.238 09.31 09.34 09.35 09.38 10.08	Curb - Type 5 - Circular Reset Curb Type 1 Plain Riprap	LF CY	790 180	0	0	790 180
09.238 09.31 09.34 09.35 09.38 10.08 10.18	Curb - Type 5 - Circular Reset Curb Type 1 Plain Riprap Stone Ditch Protection	LF CY CY	790 180 120	0 0 0	0 0 0	790 180 120
09.238 09.31 09.34	Curb - Type 5 - Circular Reset Curb Type 1 Plain Riprap	LF CY	790 180	0	0	790 180

			EXPANSION	PAVING	IMPROVEMENTS	
618.13	Seeding Method Number 1	UNIT	15	0	0	15
618.14	Seeding Method Number 2	UNIT	380	0	0	380
518.143	Special Seeding	UNIT	38	0	0	38
519.1201	Mulch - Plan Quantity	UNIT	420	0	0	420
19.1202	Temporary Mulch	LS	1	0	0	1
20.56	Drainage Geotextile	SY	4100	0	0	4100
20.58	Erosion Control Geotextile	SY	950	0	0	950
20.60	Separation Geotextile	SY	2700	0	0	2700
21.037	Evergreen Trees (5'-6'), GP A - Pinus Resinosa (Red Pine)	EA	11	0	0	11
526.121	Quazite Junction Box (36x24)	EA	0	0	8	8
526.122	Quazite Junction Box (18x11)	EA	110	0	0	110
526.22	Non-metallic Conduit	LF	24000	0	2300	26300
526.31	18 inch Diameter Foundation	EA	0	0	1	1
526.32	24 inch Diameter Foundation	EA	53	0	0	53
526.33	30 inch Diameter, 8 feet or less Foundation	EA	16	0	0	16
526.332	30-Inch Diameter, Greater than 8-Feet Long, And all 36-Inch and 42-Inch Diameter Foundations	CY	30	0	30	60
526.35	Controller Cabinet Foundation	EA	0	0	2	2
527.712	White or Yellow Pavement Marking Line	LF	56800	8200	0	65000
527.75	White or Yellow Pavement & Curb Marking	SF	400	50	120	570
527.77	Removing Existing Pavement Marking	SF	8350	0	120	8470
527.812	Temporary Raised Pavement Markers	EA	100	0	0	100
527.941	Pavement Marking Tape - Dotted White Lane Line, 6-Inch Width	LF	430	0	0	430
529.05	Hand Labor, Straight Time	HR	40	0	0	40
	, 0					
531.12 531.13	All Purpose Excavator (including Operator) Bulklozer (Including Operator)	HR IIR	40	0	0	40 40
531.172	Truck - Large (Including Operator)	HR	80	0	0	80
531.172	Front End Loader (Including Operator)	HR	40	0	0	40
		HR	16	0	0	16
531.32 531.36	Culvert Cleaner (Including Operators)				0	16 40
34.2041	Foreman	HR	40 34	0		40 35
534.2041	Luminaires Remove and Reset Light Standard	EA EA	37	0	0	35
534.208	Remove and Reset Light Standard Conventional Light Standard	_	37 16	0	0	37 16
		EA	10	0	0	10
539.18 543.71	Field Office, Type A Traffic Signal Modifications at: Alewive Road w/Fletcher Street	EA	0	0	1	1
		LS	0	0		1
543.801 543.802	Traffic Signal at: I-95 SB w/ Alewive Traffic Signal at: I-95 NB w/Fletcher Street	LS	0	0	1	1
543.802	Video Detection System: I-95 SB with Alewive	LS	0	0		
543.832	Video Detection System: 1-95 NB with Fletcher Street	LS	0	0	1	1
543.832	Mast Arm Pole - 25' Mast Arm	EA	0	0	-3- 2	-3-
543.912	Mast Arm Pole - 30' Mast Arm	EA	0	0		-1-
543.913	Mast Arm Pole - 35' Mast Arm	EA	0	0	2	2
543.914	Mast Arm Pole - 40' Mast Arm	EA	0	0	1	1
543.92	Pedestal Pole - 8 Foot	EA	0	0	1	1
543.94	Dual Purpose Pole - 30' Mast Arm and 12' Luminaire Arm	EA	0	0	1	1
545.105	Remove and Stack Sign	EA	130	0	5	135
545.109	Remove and Reset Sign	EA	44	0	1	45
545.1211	Overhead Sign Structure and Guide Sign	LS	1	0	0	1
645.161	Breakaway Device Single Pole	EA	10	0	0	10
645.162	Breakaway Device Sings Fole Breakaway Device Multi Pole	EA	13	0	0	13
545.251	Roadside Guide Signs, Type I	SF	560	0	0	560
645.252	Roadside Guide Signs, Type I - Supplied by Authority	SF	420	0	0	420
545.271	Regulatory, Warning, Confirmation and Route Assembly Sign, Type 1	SF	420	0	150	570
545.271	Steel H-Beam Poles	LBS	5650	0	0	5650
545.511	Radar Activated Flashing LED Yield Sign	EA	0	0		
					1	1
552.30	Flashing Arrow	EA	2	0	0	2
552.312	Type III Barricades	EA	4	0	0	4
552.33	Drun	EA	490	0	0	490
552.34	Cone	EA	20	0	0	20
552.35	Construction Signs	SF	1370	0	0	1370
552.361	Maintenance of Traffic Control Devices	LS	1	0	0	1
552.38	Flaggers Partials Charactels Massac Size	HR	540	0	120	660
552.41	Portable-Changeable Message Sign	EA	2	0	0	2
552.45	Truck Mounted Attenuator	CD	12	0	0	12
552.4501	Truck Mounted Attenuator - 24,000 LB	CD	16	0	0	16
552.451	Automated Trailer Mounted Speed Limit Sign	CD	10	0	0	10
555.102	#2 AWG Wire	LF	13150	0	0	13150
555.106	#6 AWG Wire	LF	16700	0	0	16700
555.11	#10 AWG Wire	LF	5850	0	0	5850
56.50	Baled Hay, In Place	EA	20	0	0	20
556.60	Temporary Berms	LF	3000	0	0	3000
556.62	Temporary Slope Drains	LF	500	0	0	500
556.632	30 inch Temporary Silt Fence	LF	2750	0	0	2750
559.10	Mobilization	LS	0.8	0.1	0.1	1
573.01	Stormwater Filter Bed	CY	710	0	0.1	710
301.1331	6"Sewer Force Main	LS	1	0	0	1
322.3408	8-Inch Ductile Iron Water Pipe	LF	1600	0	0	1600
322.3408	8-Inch Ductile from Water Pipe 8-Inch Ductile Iron Pipe Fittings	LB	1110	0	0	1110
323.325	8-Inch Gate Valve	EA	3	0	0	3
325.325					-	
V23411	Food Truck Water Connection	LS	1	0	0	1
					0	900
327.3641 30.27	Remove 8-Inch Asbestos-Cement Pipe Horizontal Directional Drilling, 3 inch HDPE Conduit	LF LF	900 520	0	900	1420

PLAZA INTERCHANGE EXPANSION PAVING SIGNAL IMPROVEMENTS

PROJECT TOTAL

HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909



ITEM NO.

ITEM DESCRIPTION

THE GOLD STAR MEMORIAL HIGHWAY KENNEBUNK TRAVEL PLAZAS PARKING EXPANSION MILE 25.5 SB AND NB

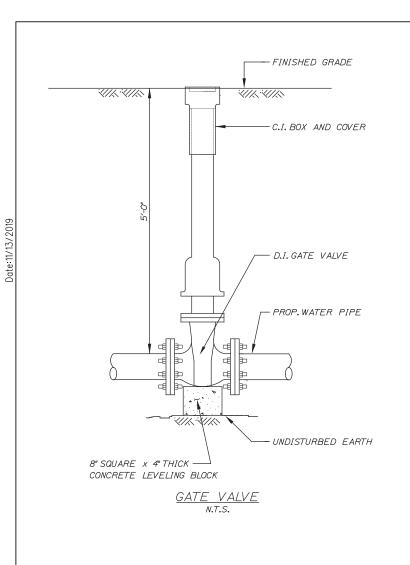
ESTIMATED QUANTITIES

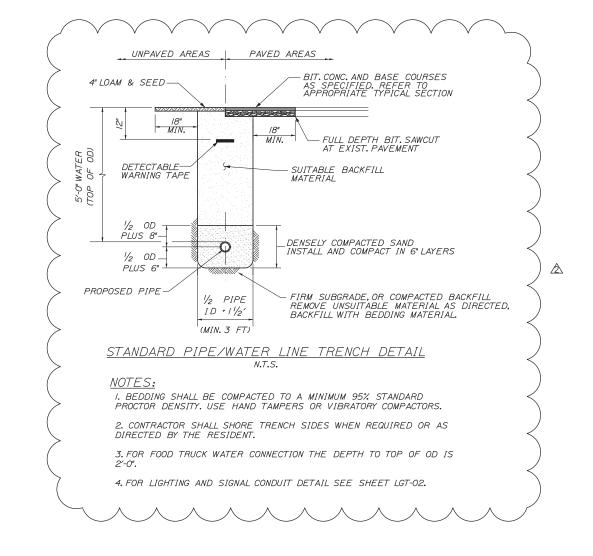
CONTRACT:2019.02

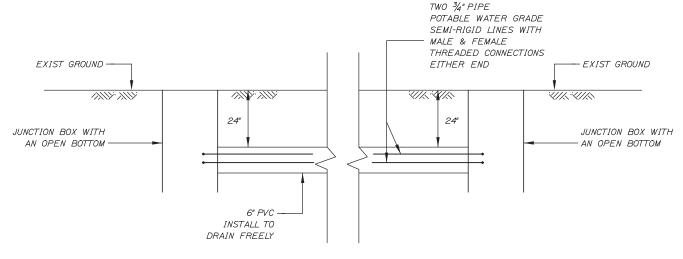
SHEET NUMBER: EQ-01

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E.,P.T.O.E.

201







FOOD TRUCK WATER CONNECTION

CONTRACT:2019.02

NOT TO SCALE

No. Revision By Date
A REVISED TRENCH DETAIL

Designed by:

CONSULTANT PROJECT MANAGER: Phillip E. Kendall II, P.E.

By Date
Designed CDH 10\19 Checked JRH 10\19
Drawn PEM 10\19 In Charge of RAL 10\19

HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909



MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E.,P.T.O.E.

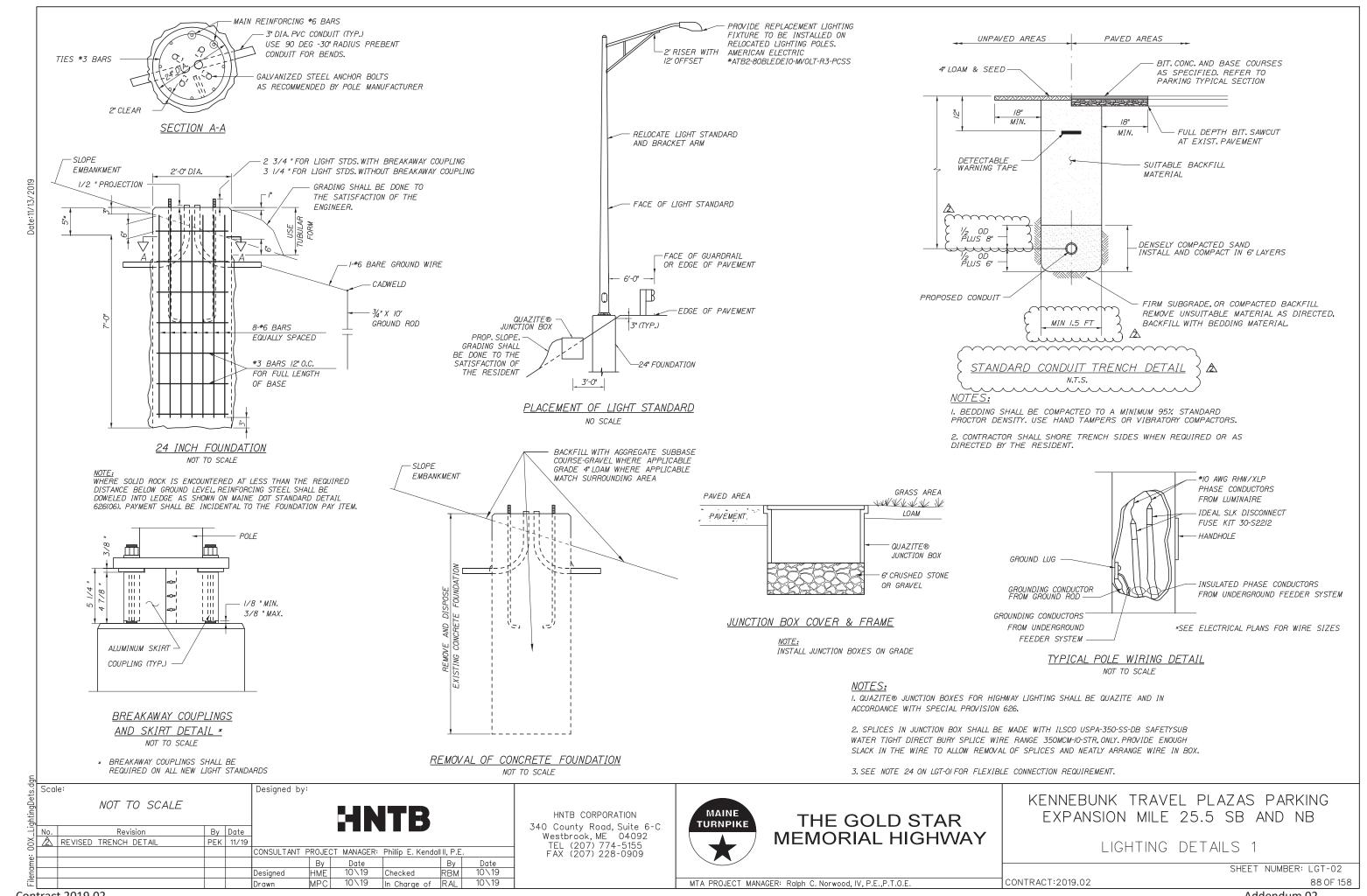
THE GOLD STAR MEMORIAL HIGHWAY KENNEBUNK TRAVEL PLAZAS PARKING EXPANSION MILE 25.5 SB AND NB

UTILITY DETAILS

SHEET NUMBER: CD-06

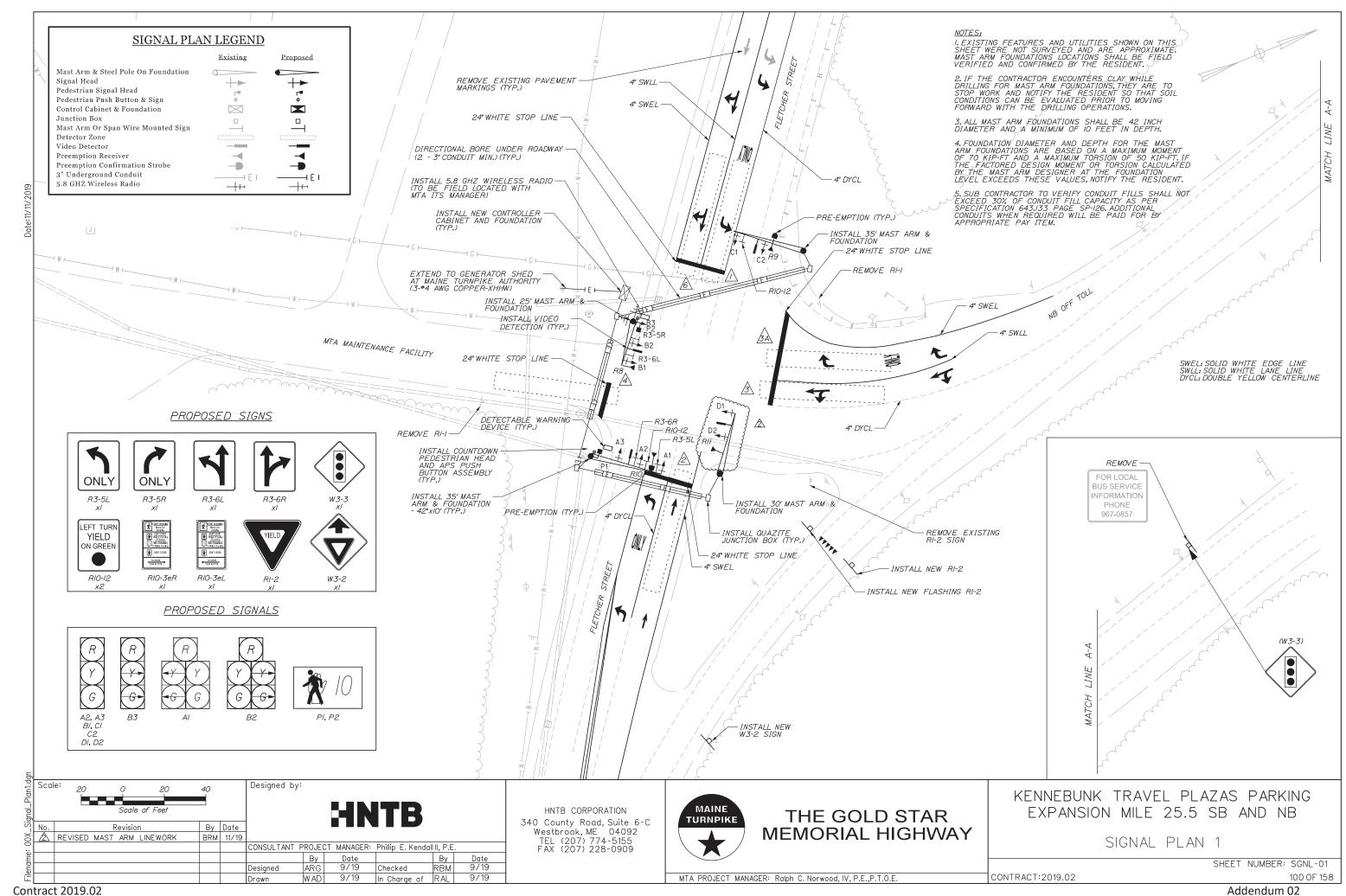
Contract 2019.02

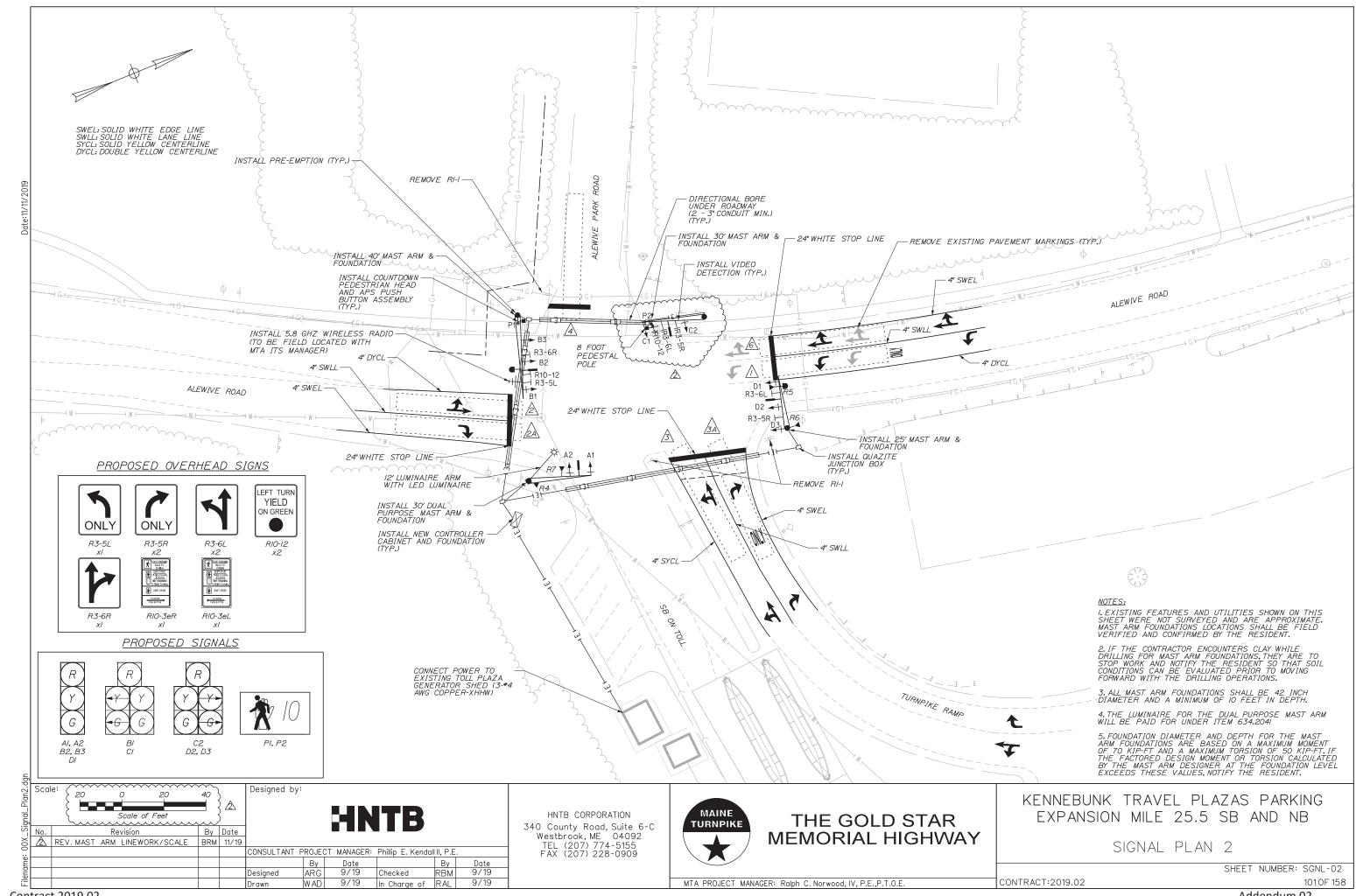
Addendum 02



Contract 2019.02

Addendum 02





PROPOSED SIGNAL TIMING TABLES

	ERE	OPERATI	ONS-CYC		11-100		
	ALFRED	ALFRED	-	ALEWIVE	ALFRED	ALFRED	-
ALEWIVE RD &	ROAD	ROAD	-	ROAD	ROAD	ROAD	-
ALFRED RD	EB L	WB TR	-	SB LTR	WB L	EB LTR	-
PHASE	1	2	3	4	5	6	7
INITIAL INTERVAL	5.0	5.0	-	5.0	5.0	5.0	-
VEHICLE EXTENSION	3.0	3.0	-	3.0	3.0	3.0	-
MAXIMUM / AM	5.0	31.0	-	46.0	5.0	31.0	-
MAXIMUM 2 PM	5.0	35.0	-	42.0	5.0	35.0	-
YELLOW	4.0	4.0	-	4.0	4.0	4.0	-
ALL RED	2.0	2.0	-	2.0	2.0	2.0	-
WALK INTERVAL	-	-	-	7.0	-	7.0	-
PED, CLEARANCE	-	-	-	15.0	-	19.0	-
RECALL	NONE	S	-	NONE	NONE	S	-
DETECTOR OPERATION	PR	PR	-	PR	PR	PR	-
FLASH	R	Υ	-	R	R	Υ	-

FREE OPERATION-CYCLE LENGTH-9C FLETCHERFLETCHER I-95 NB MTA STREET STREET RAMP MAINT. 7-95 NR & STREET STREET
EB L WB LT FLETCHER ST INITIAL INTERVAL VEHICLE EXTENSION MAXIMUM / AM 34.0 MAXIMUM 2 PM 40.0 4.0 4.0 4.0 2.0 2.0 2.0 WALK INTERVAL PED. CLEARANCE NONE PR DETECTOR OPERATION

FLETCHER ALFRED ALEWIVE AND AND AND

I-95 NB | ALEWIVE | I-95 SB

CONCURRENT PED CLEARANCE SHALL "FLASH" THROUGH YELLOW

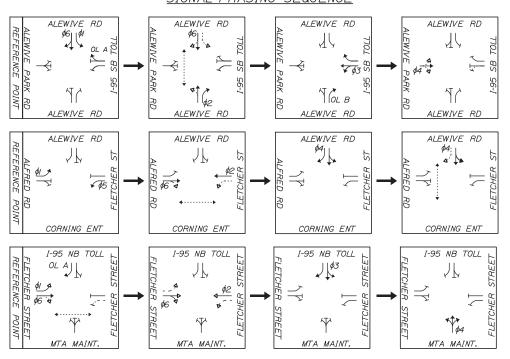
FREE OPERATIONS-CYCLE LENGTH-80
ALEWIVE ALEWIVE | 1-95 SB | ALEWIVE |
ROAD ROAD RAMP PK ROAD
SB L NB LTR WB TR EB LTR *ALEWIVE* I-95 SR & ALEWIVE RD INITIAL INTERVAL
VEHICLE EXTENSION MAXIMUM / AM MAXIMUM 2 PM 4.0 2.0 2.0 WALK INTERVAL PED. CLEARANCE DETECTOR OPERATION

NOTES: S = SOFT RECALL PR = PRESENCE MAX = MAX RECALL MAXI = FREE OPERATION C-MAX = COORDINATED MAX MAX2 = UNDER COORDINATION CONCURRENT PED CLEARANCE SHALL "FLASH" THROUGH YELLOW

SIGNAL PHASING SEQUENCE

Y = YELLOW

R = RED



CONCURRENT PED CLEARANCE SHALL "FLASH" THROUGH YELLOW

	1 33 110	7221112	1 33 30
FURNISH AND INSTALL NEW ATC LOW VOLTAGE CONTROLLER CABINET WITH FOUNDATION AND ALL ANCILLARY EQUIPMENT AND WIRING. ECONOLITE PART #ATCC 1032	1	-	/
FURNISH AND INSTALL COBALT CONTROLLER.	-	/	-
FURNISH AND INSTALL 3- AND 5- SECTION 12-INCH YELLOW SIGNAL HEADS			
WITH LED MODULES, TUNNEL VISORS AND REFLECTORIZED ALUMINUM 3- SECTION:	8	-	5
LOUVERED BACKPLATES MOUNTED ON MAST ARM OR PEDESTAL POST WITH 5- SECTION:	2	-	5
NEW MOUNTING HARDWARE. PEDESTRIAN:	2	-	2
FURNISH AND INSTALL (REPLACE) PEDESTRIAN PUSH BUTTON	-	4	-
FURNISH AND INSTALL NEW SIGNAL CABLE. SIGNAL HEAD WIRING WILL BE			
CONTINUOUS WIRING FROM CABINET TO MAST ARMS.	LS	-	LS
FURNISH AND INSTALL 3-#4 AWG XHHW CONDUCTOR CABLES FOR SIGNAL			
POWER AND GROUND.	750 <i>LF</i>	-	600 LF
FURNISH AND INSTALL NEW VIDEO DETECTION SYSTEM 4-HIGH			
DEFINITION AUTOSCOPE CAMERAS, CONTROL UNIT WITH VIDEO			
PROCESSOR CARD AND ANCILLARY EQUIPMENT WITH CAPABILITY FOR	/	-	/
REMOTE CONTROL AND DATA COLLECTION (ITEM 643.90X)			
FURNISH AND INSTALL OPTICOM PREEMPTION SYSTEM WITH 2-48V DC			
CONFIRMATION STROBES AND RECEIVERS.	/	-	/
FURNISH AND INSTALL 26"X24"X36" QUAZITE JUNCTION BOX (ITEM			
626.12.	4	-	4
FURNISH AND INSTALL NON-METALLIC CONDUIT (ITEM 626.22).	1150 LF	-	1250 LF
FURNISH AND INSTALL NON-METALLIC CONDUIT, HORIZONTAL			
DIRECTIONAL DRILL (626.211).	400 LF	-	500 LF
INSTALL MTA PROVIDED RADIO COMMUNICATION EQUIPMENT	1	/	/
FURNISH AND INSTALL MAST ARM POLE WITH 25' MAST ARM	1	-	/
FURNISH AND INSTALL MAST ARM POLE WITH 30' MAST ARM	/	-	/
FURNISH AND INSTALL MAST ARM POLE WITH 35' MAST ARM	2	-	-
FURNISH AND INSTALL MAST ARM POLE WITH 40 MAST ARM	-	-	/
FURNISH AND INSTALL DUAL PURPOSE ARM WITH 30' MAST ARM AND 12' LUMINAIRE ARM	-	-	/
FURNISH AND INSTALL 42" DIAMETER BY 10' DEEP MAST ARM FOUNDATIONS	17 CY	-	17 CY

EQUIPMENT AND WORK ITEMS

DETECTOR SCHEDULE

		DETECTOR	
	PLAN ID	STREET	DIRECTION
	1	ALEWIVE ROAD	SB L
	2	ALEWIVE RD	NB LT
I-95 SB &	2A	ALEWIVE RD	NB R∗
ALEWIVE RD	3	I-95 SB	WB L
	4	ALEWIVE PARK RD	EB LTR
	6	ALEWIVE RD	SB TR
	8	I-95 SB	WB LT
	8A	I-95 SB	WB R∗
	/	ALFRED RD	EB L
ALFRED RD &	2	FLETCHER ST	WB TR
ALEWIVE RD	4	ALEWIVE RD	SB TL/R
ALEWIVE RU	5	FLETCHER ST	WB L
	6	ALFRED RD	EB TR
	1	FLETCHER ST	EB L
I-95 NB &	2	FLETCHER ST	WB TR
FLETCHER ST	3	I-95 NB	SB LT
LLIGILIN SI	3A	I-95 NB	SB R*
	4	MTA MAINT.	NB LTR
	6	FLETCHER ST	EB TR
* INDICATE AN	8 SECON	D DELAY FOR PHASE ACTIV	ATION ONLY

DUE TO RIGHT TURNING VEHICLES.

PREEMPTION ASSIGNMENTS

FLETCHER

	ALEWIVE	ACTIVE
ID	AND I-95 SB	PHASE
R4	I-95 SB RAMP	<i>3+8</i>
R5	ALEWIVE RD	2
R6	ALEWIVE RD	I+6
R7	ALEWIVE PARK	4

	ALFRED	ACTIVE
ID	AND ALEWIVE	PHASE
RI	ALFRED RD	<i>l</i> +6
R2	FLETCHER ST	5+2
R3	ALEWIVE RD	4

	FLETCHER	ACT IV
ID	AND I-95 NB	PHASI
R8	I-95 NB RAMP	3
R9	FLETCHER RD	2
RIO	FLETCHER RD	<i>l</i> +6
RII	MTA DRIVE	4

ALL PREEMPTION 10 SEC MIN 60 SEC MAX 10 SEC MIN DWELL

VEHICLE PREEMPTION NOTES:

I. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD THE EMERGENCY ACTIVE PHASE GREEN FOR A MINIMUM OF 10 SECONDS OR UNTIL THE PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PREEMPTION PHASE CLEARANCE (4.0 SECONDS YELLOW AND 2.0 SECONDS ALL RED) AND SERVICE SUBSEQUENT EMERGENCY ACTIVE PHASES AS NECESSARY. AT THE COMPLETION OF THE PREEMPTION CYCLE, THE CONTROLLER SHALL TIME THE PREEMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION.

2. MINIMUM GREEN AND NORMAL VEHICLE CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.

3. CONFIRMATION STROBES SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PREEMPTION GREEN DWELL IS ON.

4. PREEMPTION DETECTORS WILL BE FIELD VERIFIED BY A MTA REPRESENTATIVE,

5. PEDESTRIAN CLEARANCE SHALL BE MAINTAINED THROUGH YELLOW AND RED CLEARANCE.

COORDINATION CYCLE/SPLIT/OFFSET SCHEDULE AND NOTES:

	ALEWIVE		ALFRED		FLETCHER		
	AND I-95 SB		AND ALEWIVE		AND I-95 NB		
	PLAN I	PLAN 2	PLAN I	PLAN 2	PLAN I	PLAN 2	ET.
CYCLE LENGTH	120	110	120	110	120	110	13.7-
OFFSET (BEGIN GREEN)	0	0	5	14	15	35	ן קיש
COORDINATED PHASE	<i>I+6</i>	8	4	4	<i>I</i> +6	<i>I</i> +6	NV MODE FORCE-O
SPLIT TIME Ø	22	14	12	//	35	22	≥ ≤
SPLIT TIME Ø2	36	25	45	45	55	58	5 4
SPLIT TIME Ø3	5/	56			19	19	57
SPLIT TIME \$4	//	15	63	54	//	//	COORDINATION TO FIXED FO
SPLIT TIME Ø5			//	//			18.4
SPLIT TIME Ø6	58	39	46	45	90	80	88
SPLIT TIME Ø7						-	0
SPLIT TIME Ø8							

I. OFFSET IS REFERENCED TO THE BEGINNING OF THE COORDINATION PHASE GREEN.

2. COORDINATION TO OPERATE BY SYSTEM CONTROL WITH TIME OF DAY BACKUP.

3. TRAFFIC SIGNAL CONTROLLER SHALL BE SET FOR STOP TIME IN WALK TO OFF.

WEEKDAYS, 12:00PM-12:00AM ON WEEKENDS.

A.PLAN IRUNS FROM 7-9AM WEEKDAYS AND PLAN 2 RUNS FROM 3-6PM WEEKDAYS. OPERATIONS RUN IN FREE MODE FOR ALL OTHER DAYS AND TIMES.

5. MAX I RUNS FROM 12:00-7:00AM ON WEEKDAYS, 12:00AM-12:00PM 6. MAX 2 RUNS FROM 9:00AM-3:00PM AND 6:00PM-12:00AM ON

SB MTA INTERSECTION IS THE MASTER INTERSECTION

Designed by: NOT TO SCALE

Revision By Date 🛕 REVISED TABLES CONSULTANT PROJECT MANAGER: Phillip E. Kendall II, P.E Designed 9/19 In Charge of RAL 9/19

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THE GOLD STAR **MEMORIAL HIGHWAY** KENNEBUNK TRAVEL PLAZAS PARKING EXPANSION MILE 25.5 SB AND NB

TRAFFIC SIGNAL TIMING & PHASING

CONTRACT:2019.02

SHEET NUMBER: SGNL-04

MTA PROJECT MANAGER: Ralph C. Norwood, IV. P.E., P.T.O.E.

Scale: