

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
ROBERT D. STONE, VICE CHAIR
MICHAEL J. CIANCHETTE, MEMBER
ANN R. ROBINSON, MEMBER
THOMAS J. ZUKE, MEMBER
BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2020.05
NEW GLOUCESTER/W. GARDINER BARRIER
TOLL PLAZA ORT EQUIPMENT UPDATE
(MM 67.0/MM 100.0)

LOCATION MAP

PORTSMOUTH

HNTB



ROLAND A. LAVALLEEP.E., PLS
VICE PRESIDENT
DIRECTOR OF OPERATIONS

1/27/20 DATE

mo: OO1 MTATitle dan

WILLIAM H. YATES III - DIRECTOR OF INFORMATION SERVICES

8. COMMUNICATIONS

DATE

NR TARTRE, P.E., - DIRECTOR OF ENGINEERING

1/27/202

TUR

BRACKET ASSEMBLY DETAILS

13 NEW GLOUCESTER ORT SLAB PLAN

SHEET NO.

15-16 ORT DATA WIRING SCHEDULE
17-18 ORT POWER WIRING SCHEDU

INDEX OF SHEETS

MAINTENANCE OF TRAFFIC

LANES CANOPY ELECTRICAL PLAN
ORT OVERHEAD EQUIPMENT PLAN
NEW GLOUCESTER ORT LOOP
ASSEMBLY LAYOUT
ORT SPACE FRAME MOUNTING

DESCRIPTION
TITLE SHEET

19 RISER DIAGRAM

GENERAL

- I. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MaineDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES LATEST REVISION AND MaineDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- 2. CONTRACTOR IS REQUIRED TO MAINTAIN ACCESS FOR MTA TO THE EMPLOYEE PARKING LOTS OF THE PLAZAS DURING CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- 3. UPON REQUEST, THE MTA WILL SUPPLY AS-BUILT PLANS OF THE NEW GLOUCESTER TOLL PLAZA AND WEST GARDINER TOLL PLAZA TO THE
- 4. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT AS BUILT PLANS.

UTILITY

I. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT I-888-344-7233 PRIOR TO THE START OF WORK.

2. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION, ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE TIME OF NOTIFICATION. EXCAVATION AND CONSTRUCTION SIGN INSTALLATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED THEIR UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS, THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED UTILITY LOCATION MARKINGS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

TOLLING - GENERAL

I. COORDINATE LOOP LOCATIONS WITH SYSTEM INTEGRATOR FOR SOFT CUT JOINTS TO PREVENT CUTS THROUGH LOOPS.

TOLL SYSTEM INTEGRATOR

- I. THE CONTRACTOR'S SCHEDULE OF WORK SHALL ACCOUNT FOR THE TESTING AND COMMISSIONING OF THE NEW TOLLING EQUIPMENT IN EACH ORT ZONE AFTER THE CONTRACTOR'S INSTALLATION WORK IS COMPLETE AND PRIOR TO OPENING THE ORT ZONES TO TRAFFIC. SYSTEM INTEGRATOR WILL TERMINATE EQUIPMENT DURING THE CONTRACTOR'S INSTALLATION PERIOD - RESIDENT TO COORDINATE WITH MTA, TRANSCORE, AND CONTRACTOR.
- 2. TOLL SYSTEM INTEGRATOR SHALL HAVE 42 CALENDAR DAYS TO TEST AND COMMISSION ORT EQUIPMENT FOR EACH PLAZA. IF NB AND SB ZONES ARE LAGGING IN PROGRESS. THE 42 DAYS FOR TESTING AND COMMISSIONING PERIOD BEGINS AFTER THE LAST ZONE INSTALLATION IS COMPLETE.
- 3. THE ORT LANES SHALL NOT BE OPENED TO TRAFFIC UNTIL AFTER ALL NEW TOLLING EQUIPMENT HAS BEEN INSTALLED IN THE RESPECTIVE LANE AND TESTING AND COMMISSIONING HAS BEEN ACCEPTED BY THE MTA.

TOLLING - DEMOLITION

- I. THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE THE FOLLOWING: A. EXISTING CASH LANE USE SIGNALS. (LED LAMPS SHALL BE SALVAGED)
- 2. THE CONTRACTOR SHALL REMOVE AND SALVAGE THE FOLLOWING: A. EXISTING CASH LANE USE SIGNAL LED LAMPS ONLY - DELIVERED TO MTA SIGN SHOP IN CUMBERLAND. B. EXISTING AVI ANTENNAS - DELIVERED TO TRANSCORE AT 190 RIVERSIDE STREET, SUITE 38 IN PORTLAND.
- 3. REMOVAL DISPOSAL AND SALVAGE OF IDENTIFIED EQUIPMENT SHALL BE INCIDENTAL TO THE CONTRACT.

TOLLING - ORT

I. SYSTEM INTEGRATOR SHALL PROVIDE THE FOLLOWING ITEMS TO BE INSTALLED BY THE CONTRACTOR:

A. IVIS LOOP SENSORS AND ASSOCIATED TEMPLATES FOR CUTTING CONCRETE. (NEW GLOUCESTER ONLY)

B. 24 OPUS SCANNERS, TDK LAMBDA 48V TRANSFORMERS, AND ASSOCIATED POWER SUPPLY CABINETS.

C. 16 AVI ANTENNAS AND LANE KITS.

- 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING: A. AVI ANTENNA BRACKETS FOR MOUNTING TO 3" PIPE.
 - B. ALL REQUIRED JUNCTION BOXES, CONDUIT, AND ASSOCIATED WIRING.
 - C. KLIK-ITS FOR LANE SENSOR HOME RUN TERMINATION. D. CONCRETE, SYNTHETIC FIBER REINFORCEMENT, AND CLEAR PROTECTIVE
 - COATING. (NEW GLOUCESTER ONLY) E. EPOXY OVERLAY - ALL IVIS LANE SENSOR LOOPS SHALL HAVE AN EPOXY OVERLAY PER SECTION 515 OF SPECIAL PROVISIONS. (NEW GLOUCESTER
- 3. SYSTEM INTEGRATOR SHALL PROVIDE, INSTALL AND TERMINATE THE

A IVIS LOOP SENSORS

B. OPUS SCANNERS AND TDK LAMBDA 48V TRANSFORMERS (PROVIDE AND TERMINATE ONLY)

C. MULTI-PROTOCOL READERS (PROVIDE AND

TERMINATE ONLY)

D. AVI ANTENNAE (PROVIDE AND TERMINATE ONLY)

4. THE CONTRACTOR SHALL REMOVE AND RESET THE FOLLOWING: A. REAR VCARS (SYSTEM INTEGRATOR - TERMINATE ONLY)

PAVING NOTES (NEW GLOUCESTER ONLY)

- I. IO' OF THE ORT APPROACH AND DEPARTURE AREAS FOR THE NB AND SB PLAZAS SHALL BE MILLED AND REPAVED USING 1/2" HOT MIX ASPHALT 12.5 MM NOMINAL MAXIMUM SIZE.
- 2. A COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690 TYPE IV) SHALL BE APPLIED AT THE TOP SURFACE LIFT TO ALL TRANSVERSE AND LONGITUDINAL JOINTS. PAYMENT SHALL BE INCIDENTAL TO ITEM 403.208.
- 3. BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND PROPOSED HMA.
- 4. PAYMENT FOR HOT MIX ASPHALT 12.5 MM NOMINAL MAXIMUM SIZE WILL BE MADE UNDER ITEM 403.208.

TOLLING - CASH LANE (NEW GLOUCESTER ONLY)

I. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING ITEMS: A. ALL NECESSARY JUNCTION BOXES, CONDUIT AND ASSOCIATED WIRING. (ANTICIPATE USING IN PLACE WIRING TO EXISTING LANE USE SIGNALS FOR REPLACEMENT SIGNALS)

B. 6 RED 'X'/GREEN 'ARROW' LANE USE SIGNALS ON FRONT OF CANOPY. (TOLL CANOPY SUSPENDED CEILING PANELS SHALL BE REMOVED AND RESET AS NECESSARY TO ACCESS INTERIOR OF THE CANOPY FASCIA FOR SECURING LANE USE SIGNAL PELCO MOUNTING DEVICES AND WIRING SIGNAL - INCIDENTAL TO ITEM 643.711)

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	NEW GLOUCESTER QUANTITY	WEST GARDINER QUANTITY	TOTAL QUANTIT
202.12311	MILLING CONCRETE ORT SLAB -TOP 3"	SY	420	0	420
202.202	REMOVING PAVEMENT SURFACE	SY	140	0	140
103.208	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE	TON	20	0	20
109.15	BITUMINOUS TACK COAT RS-I OR RS-Ih -APPLIED	GAL	10	0	10
502.262	STRUCTURAL CONCRETE ROADWAY SLAB WEARING SURFACE	CY	40	0	40
503.90	SYNTHETIC FIBER REINFORCEMENT	LB	120	0	120
504.91	MOUNTING BRACKET ASSEMBLIES	LS	0.5	0,5	1
5/5.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY	420	0	420
5/5,23	EPOXY OVERLAY	SY	55	0	55
527.18	12 INCH SOLID WHITE PAVEMENT MARKING TAPE	LF.	1900	0	1900
527 . 712	WHITE OR YELLOW PAVEMENT MARKING LINE	LF	7000	0	7000
627 . 73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	LF	3550	4250	7800
527 . 731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE	LF	1000	0	1000
527 . 77	REMOVING EXISTING PAVEMENT MARKING	SF	8800	0	8800
527 . 78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF	8400	0	8400
529.05	HAND LABOR, STRAIGHT TIME	HR	5	5	10
631 . 10	AIR COMPRESSOR (INCLUDING OPERATOR)	HR	5	5	10
631 . II	AIR TOOL (INCLUDING OPERATOR)		5		
531 . 36	FOREMAN	HR	5	5	10
		HR		5	10
531 . 51	BUCKET TRUCK	HR	10	10	20
631.52	SCISSOR LIFT	HR	10	10	20
531.53	ELECTRICIAN	HR	10	10	20
631 . 54	ELECTRICIAN'S APPRENTICE	HR	10	10	20
643.711	LANE USE SIGNAL	EA	6	0	6
652.30	FLASHING ARROW	EA	2	2	4
652.312	TYPE III BARRICADES	EA	4	4	8
652.33	DRUMS	EA	100	100	200
652.35	CONSTRUCTION SIGNS	SF	1080	520	1600
652 . 361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.75	0.2 5	1
652 . 41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA	2	2	4
652 .4 5	TRUCK MOUNTED ATTENUATOR	CD	16	8	24
655 . 031	REMOVE AND RESET REAR VCARS MOUNT	EA	6	6	12
655 . 04	INSTALLATION OF SENSOR LOOPS	LS	1	0	1
655 . 05	INSTALLATION OF AVI ANTENNAS	EA	8	8	16
655 . 08	OPUS MOUNT INSTALLATION	EA	12	12	24
655 . //	*IO AWG WIRE	LF	6000	6000	12000
655 . 12	#I2 AWG WIRE	LF	6500	6500	/3000
655 . /4/	4PR/24 (CATEGORY 5E) SHIELDED CABLE	LF	5000	5000	10000
655 . /5/	LMR 600 CABLE	LF	1200	1200	2400
655 . /7	IVIS HOMERUN LOOP CABLE (IMSA 50-2 *14)	LF	100	100	200
655 . /7/	E-6 READER SYNC CABLE (IMSA 50-2 *18)	LF	1000	1000	2000
555.206	I" GALVANIZED RIGID METAL CONDUIT	LF	250	250	500
555,208	3" GALVANIZED RIGID METAL CONDUIT	LF	500	500	1000
555 . 210	3/4" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	LF	300	300	600
655 . 30	12"X12"X6" GALVANIZED STEEL JUNCTION BOX	EA	18	18	36
655 . 31	18"X18"X6" GALVANIZED STEEL JUNCTION BOX	EA	8	8	16
655 . 52	I" GALVANIZED RIGID METAL CONDUIT CONDULETS	EA	16	16	32
555 . 55	3" GALVANIZED RIGID METAL CONDUIT CONDULETS	EA	15	15	30
659. <i>10</i>	MOBILIZATION	LS	0.5	0,5	1

CONTRACT:2020.05

tes	Scal	le:			Designed by	:				
General Notes		NOT TO SCALE					HN	ITR		
002_Ge	No.	Revision	Ву	Date						
					CONSULTANT	PROJEC	CT MANAGER:	R. BRUCE MUNO	GER, P.E	
me						Ву	Date		Ву	Date
Filename					Designed	RBM	1/20	Checked	TC	1/20
Ē					Drawn	WWL	1/20	In Charge of	RAL	1/20

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

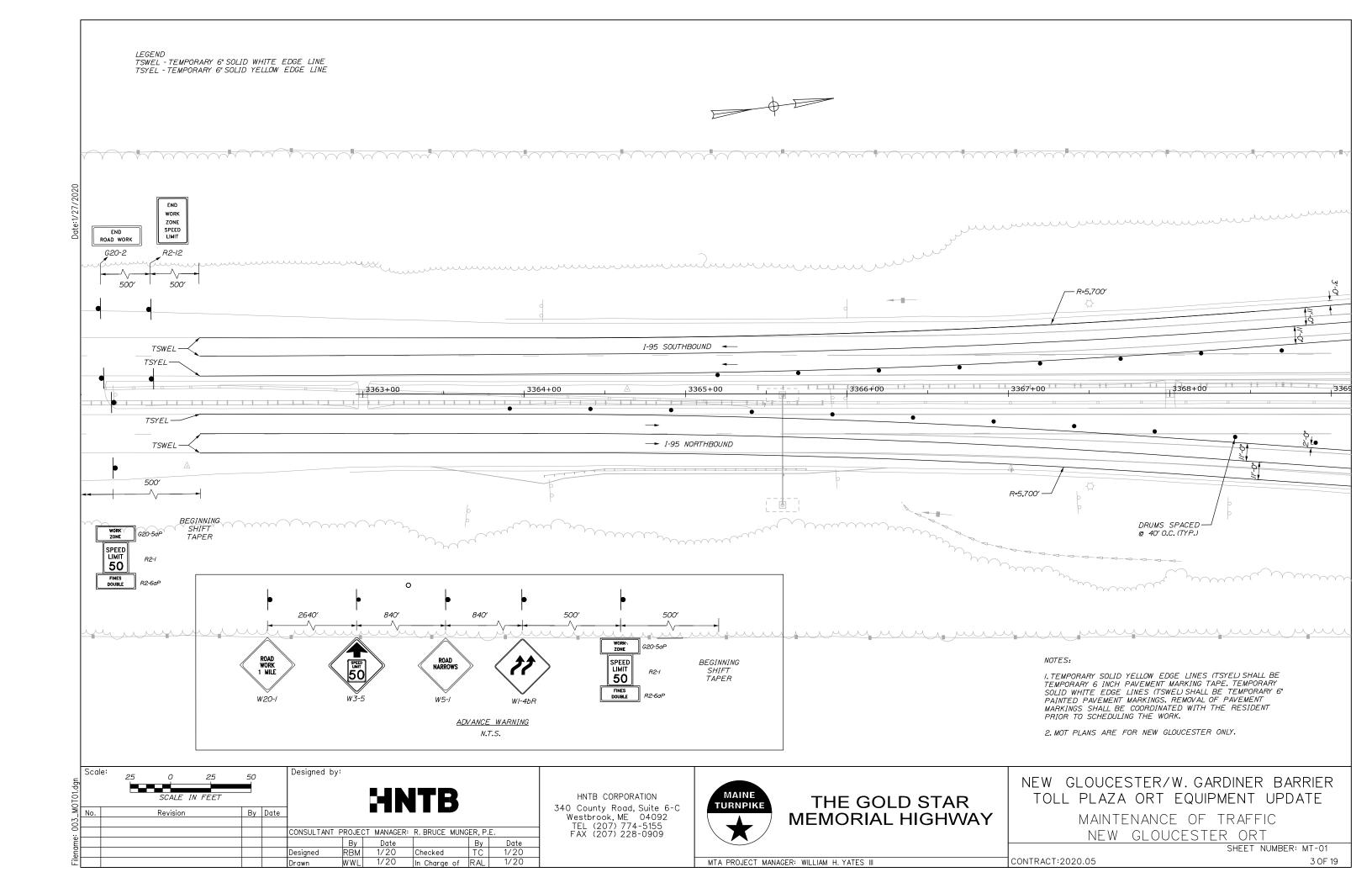


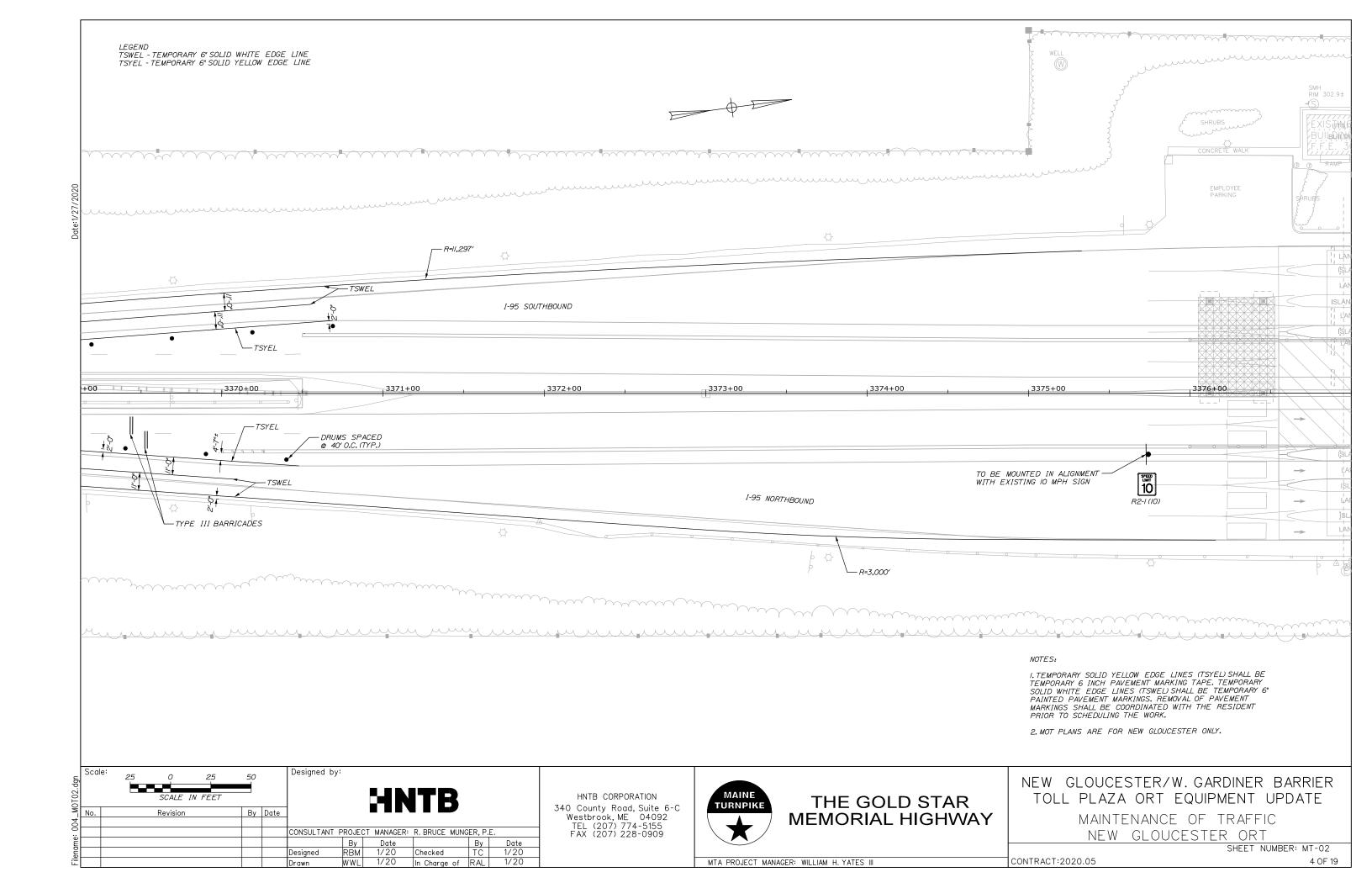
THE GOLD STAR **MEMORIAL HIGHWAY**

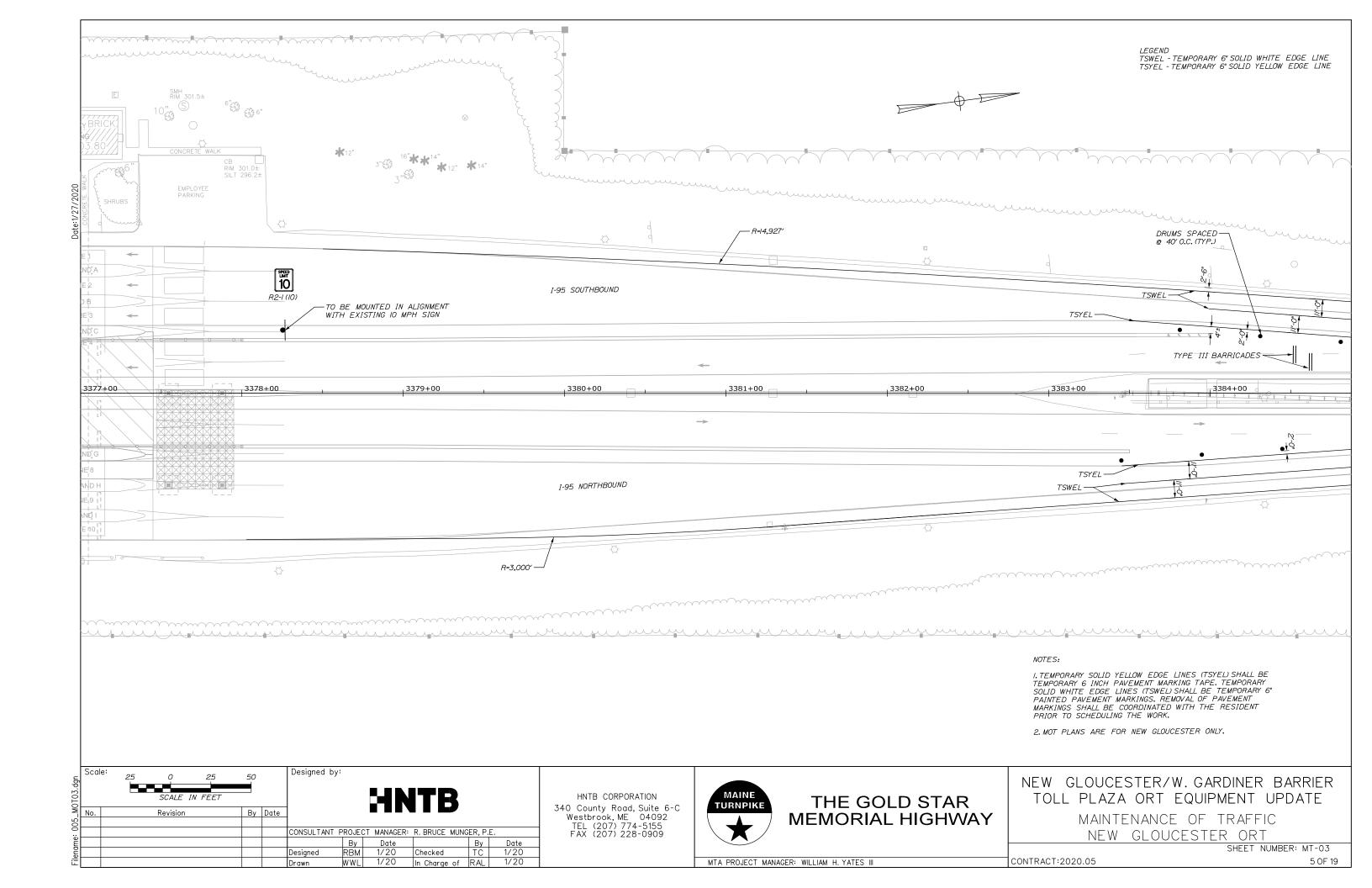
NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

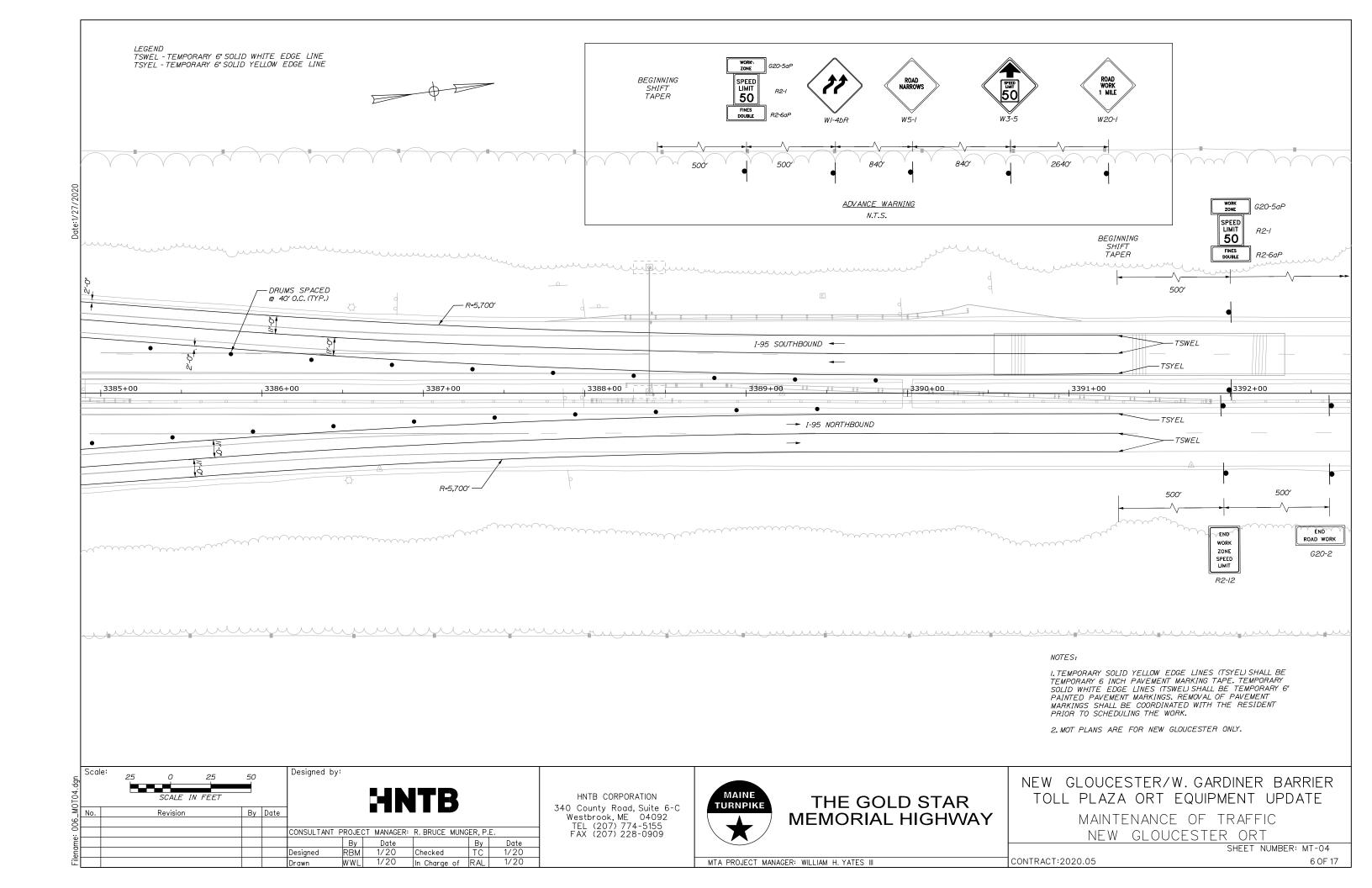
GENERAL NOTES & ESTIMATED QUANTITIES

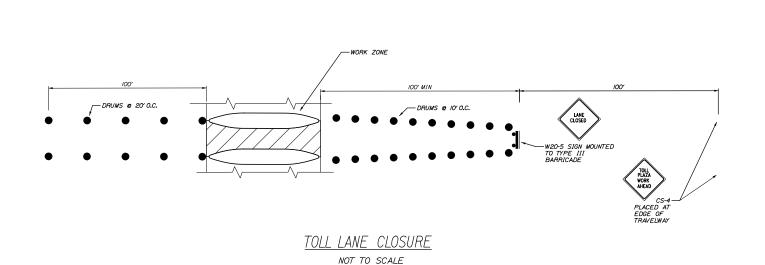
SHEET NUMBER: GN-01





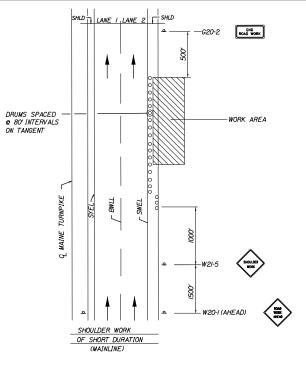






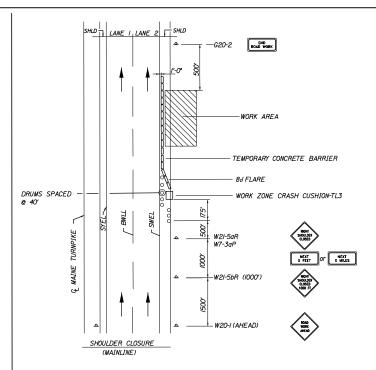
I. CONTRACTOR SHALL MAINTAIN ACCESS AT ALL ACTIVE TOLL BOOTHS FOR MTA EMPLOYEES AND PLACE DRUMS TO BLOCK MTA EMPLOYEES FROM ACCESSING THE WORK ZONE.

2. CANOPY LIGHT ABOVE CLOSED LANE SHALL BE RED.



SHOULDER WORK

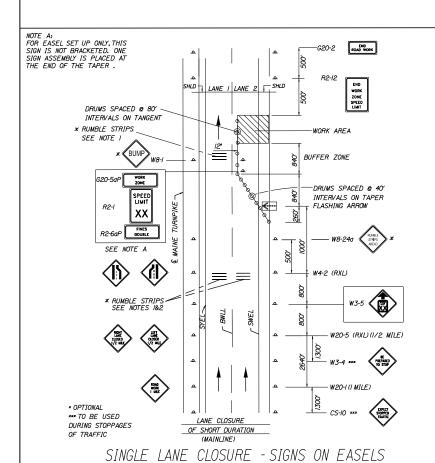
I.THE W20-I AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK CONTRACTOR



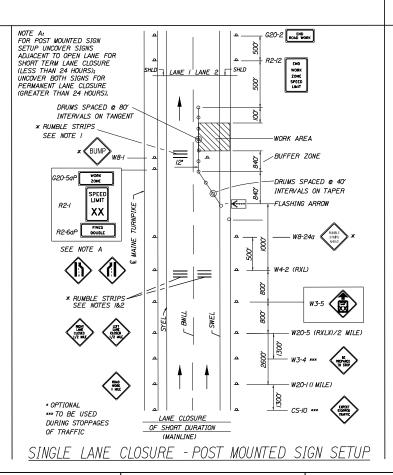
SHOULDER CLOSURE

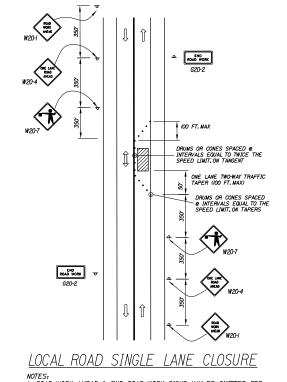
I.THE W20-I AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.

2. ONLY ONE SHOULDER CLOSURE PERMITTED PER BOUND AT ONE TIME.



Scale:





NOTES: I. ROAD WORK AHEAD & END ROAD WORK SIGNS MAY BE OMITTED FOR SHORT DURATION OPERATIONS (LESS THAN I HOUR).

2. FLAGGERS SHALL BE LOCATED SO THEY ARE CLEARLY VISIBLE TO APPROACHING DRIVERS. 3. SIGN SPACING ASSUMES LOCAL ROAD SPEED IS 40 MPH OR LESS. GENERAL MAINTENANCE OF TRAFFIC NOTES:

- ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', U.S.D.O.T., F.H.W.A., LATEST EDITION.
- THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINDR ADJUSTMENT TO BE MADE IN THE FIELD, ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
- THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 REMOVING PAVEMENT MARKINGS.
- 4. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341-WORK ZONE CRASH CUSHION -TL-3.
- SPEED LIMIT, STOP, YIELD AND EXIT SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.

ABBREVIATIONS FOR ALL M.O.T. PLANS

BWLL = BROKEN WHITE LANE LINE SWEL = SOLID WHITE EDGE LINE

SYEL = SOLID YELLOW EDGE LINE

TBWLL - TEMPORARY BROKEN WHITE LANE LINE TSWLL = TEMPORARY SOLID WHITE LANE LINE TSYLL = TEMPORARY SOLID YELLOW LANE LINE

TEMPORARY RUMBLE STRIP NOTES

- I. IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE
- IF NUMBLE STRIPS ARE USED THEI STRUL BE FLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:

 * ADJACENT TO THE WORK ZONE (LUNIT)

 * BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)

 * BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)

 * W8+15IGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT

 ANY LOCATION. ONLY ONE SET OF W8-24g SIGNS ARE REQUIRED FOR ANY OF

 THE ABOVE CONFIGURATIONS.
- 2. RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-240 SIGNS SHALL BE MOVED TO 400 AFTER THE W20-5 SIGNS.

By Date Revision CONSULTANT PROJECT MANAGER: R. BRUCE MUNGER, P.E. Ву

Designed

1/20

In Charge of RAL

wwi

Designed by:

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



THE GOLD STAR **MEMORIAL HIGHWAY** NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

MAINTENANCE OF TRAFFIC DETAILS

SHEET NUMBER: MT-05

CONTRACT:2020.05

CONSTRUCTION SIGN SUMMARY

IDENTIFI- CATION		E OF 'GN	TEXT	TEX	T DII	MENSI	ONS	(INC	HES)	NUMBER OF		COLO)R		TOTAL AREA IN
NUMBER	WIDTH	HEIGHT	TEXT		TER GHT	VERT SPA				SIGNS	BA0 GRO		LEGI BOR		SQUARE FEET
G20-2	48"	24"	END ROAD WORK		NFOF	IMENS RM TC GHWAY	"ST	ANDAR		8	С	DLORS ONFO 'STAN HIGH SIG	RM T DARD WAY	0	8.00 (64.00)
G20-5aP	48"	24"	WORK ZONE							12					8.00 (96.00)
R2-I (IO)	48"	60"	SPEED LIMIT 10							2					20 . 00 (40 . 00)
R2-I (50)	48"	60"	SPEED LIMIT 50							12					20.00 (240.00)
R2-I2	48"	60"	END WORK ZONE SPEED LIMIT							8					20 . 00 (160 . 00)
R2-6aP	48"	24"	FINES DOUBLE							12					8.00 (96.00)
WI-4bR	48"	48"	(17)			,	•			4			,		16.00 (64.00)

IDENTIFI- CATION		E OF GN	TEXT	TEX	T DII	MENSI	ONS	(INCF	HES)	NUMBER OF		COLO)R		TOTAL AREA IN
NUMBER	WIDTH	HEIGHT	IEXI	LET HEI	TER GHT	VERT SPA		ARF RTE.		SIGNS		CK- UND	LEGI BORI		SQUARE FEET
W20-I (I MILE)	48"	48"	ROAD WORK 1 MILE		NFOF	IMENS RM TO GHWAY	"STA	ANDA		12	С	OLORS CONFO "STAN HIGH SIG	RM T 'DARD WAY	0	/6.00 (/92.00)
W20-5	48"	48"	LAME							4					16.00 (64.00)
W20-5(L) (I/2 MILE)	48"	48"	LEFT LAME CLOSED 1/2 MILE							8					16.00 (128.00)
W20-5(R) (I/2 MILE)	48"	48"	RIGHT LAME CLOSED 1/2 MILE							4					16.00 (64.00)
W3-5 (50)	48"	48"	50							12					16.00 (192.00)
W4-2L	48"	48"								8					16.00 (128.00)
W4-2R	48"	48"			1		1	,	T	4	,	1	,	7	16.00 (64.00)

SIGN SUMMARY NOTES:

- I. PROPOSED SIGN LOCATIONS ARE APPROXIMATE. THE FINAL LOCATION OF THE SIGNS SHALL BE FIELD LOCATED AND APPROVED BY THE RESIDENT.
- 2. WEST GARDINER MAINTENANCE OF TRAFFIC SHALL CONSIST OF A STANDARD LEFT LANE CLOSURE WITH A 50 MPH CONSTRUCTION SPEED ZONE. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED FOR THE STANDARD LEFT LANE CLOSURE; COORDINATE WITH THE RESIDENT PRIOR TO SCHEDULING THE WORK.
- 3. THE DOWN ARROWS ON THE OVERHEAD MOUNTED 'EZ PASS ONLY/NO CASH' SIGN PANELS SHALL BE COVERED WITH A GREEN PLAQUE WHEN THE LONG TERM LANE CLOSURES ARE IN PLACE CLOSING THE ORT LANES. THE GREEN PLAQUE OVERLAYS SHALL TEMPORARILY COVER THE DOWN ARROWS AND ANY DRILLED OUT RIVETS SHALL BE PERMANENTLY FILLED WITH A RIVET. THE WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES.

	cale	e:			Designed by	:				
0T06.dgn		NOT TO SCALE					HN	ITB		
	lo.	Revision	Ву	Date]					
80 —										
					CONSULTANT I	PROJEC	CT MANAGER:	R. BRUCE MUN	GER, P.E	
me						Ву	Date		Ву	Date
and —					Designed	RBM	1/20	Checked	TC	1/20
Ĕ –					Drawn	WWL	1/20	In Charge of	RAL	1/20

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



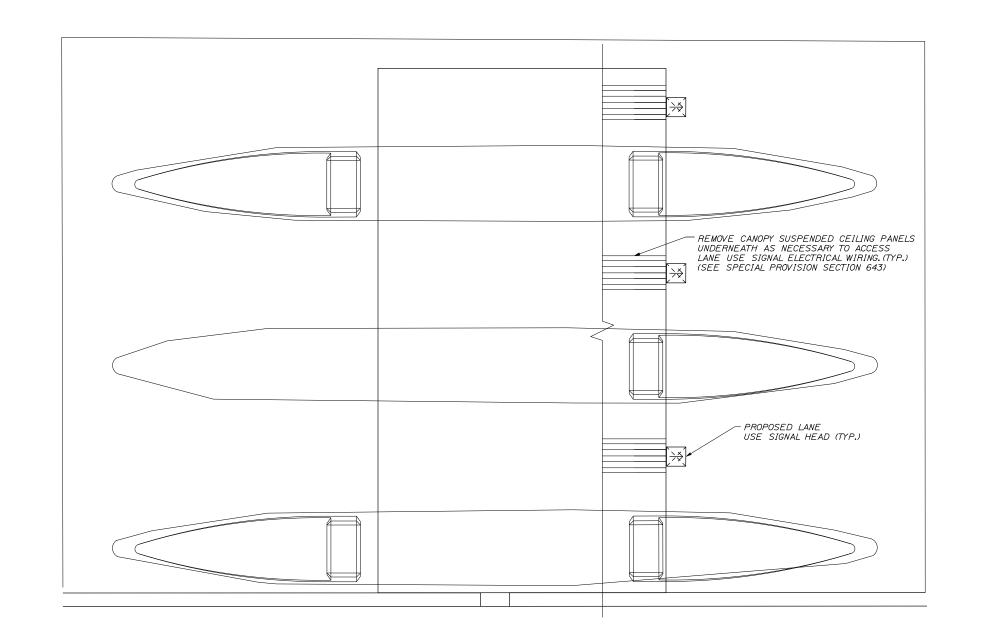
NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE MAINTENANCE OF TRAFFIC

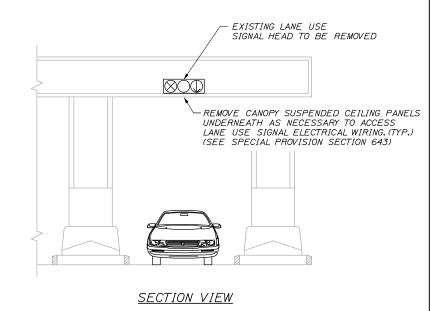
SIGN SUMMARY

SHEET NUMBER: MT-06

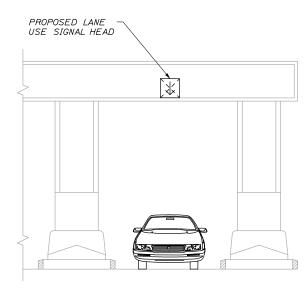
MTA PROJECT MANAGER: WILLIAM H. YATES III

CONTRACT:2020.05









SECTION VIEW

Scale	:			Designed by	:				
Scale	NOT TO SCALE						ITB		
No.	Revision	Ву	Date						
				CONSULTANT	PROJEC	T MANAGER:	R. BRUCE MUNO	SER, P.E	
					Ву	Date		Ву	Date
				Designed	RBM	1/20	Checked	TC	1/20
				Drawn	WWL	1/20	In Charge of	RAL	1/20

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



THE GOLD STAR MEMORIAL HIGHWAY

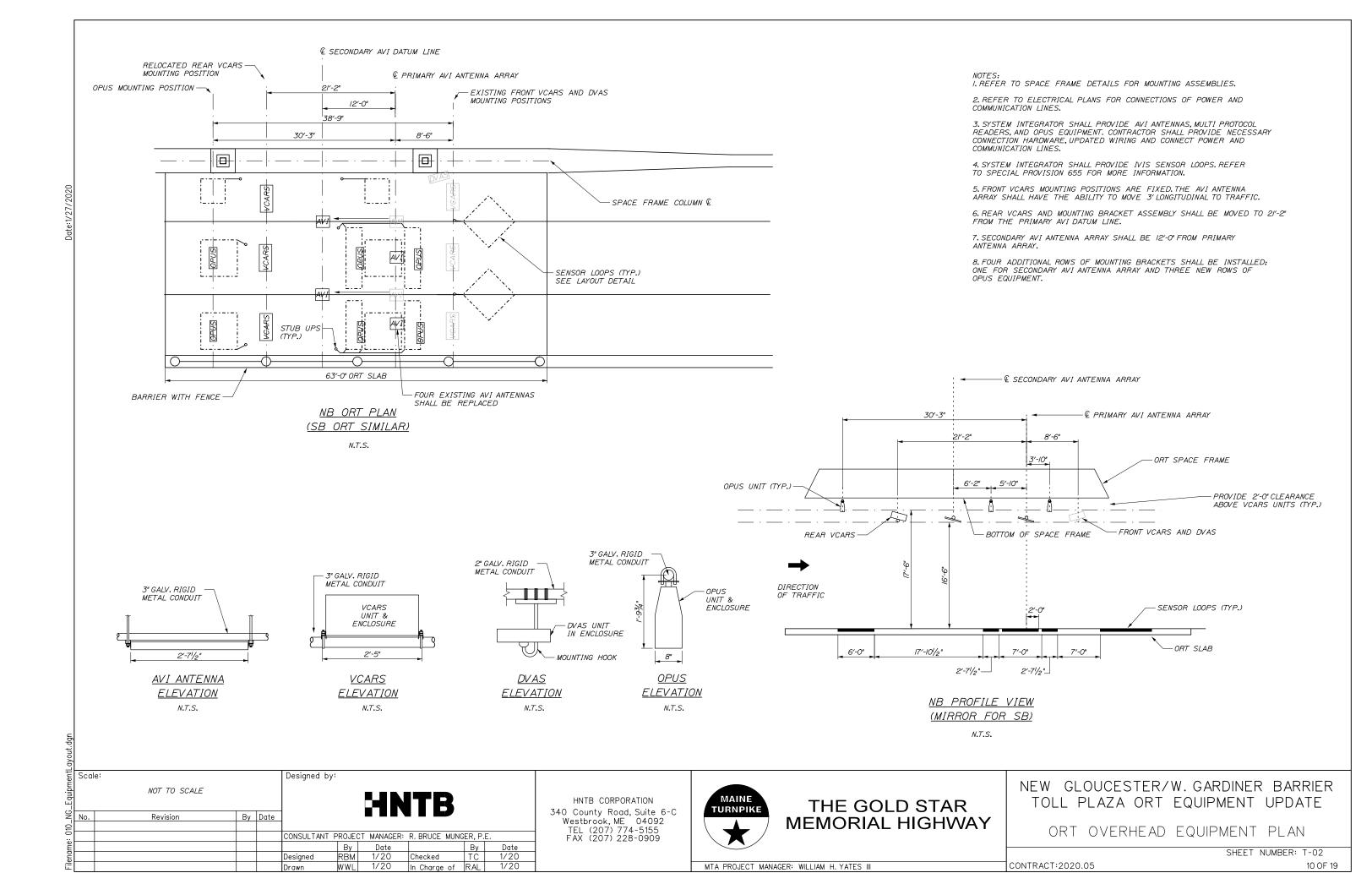
NEW GLOUCESTER/W. GARDINER BARRIER
TOLL PLAZA ORT EQUIPMENT UPDATE

NEW GLOUCESTER CASH LANE

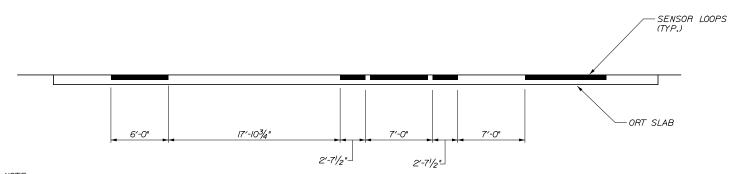
CANODY FLECTRICAL PLANE

CANOPY ELECTRICAL PLAN
SHEET NUMBER: T-01

CONTRACT:2020.05 9 OF 19

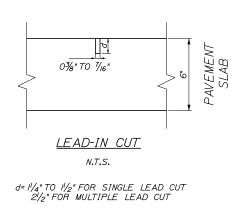


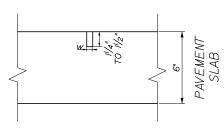
NB ORT SLAB JOINT AND SENSOR LOOP LAYOUT DETAIL PLAN (MIRROR FOR SB) N.T.S.



NOTE: I. AVI MUST HAVE ABILITY TO ADJUST ±1'.

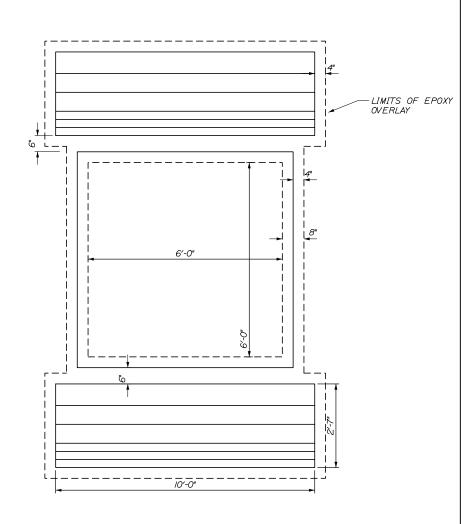
NB ORT SLAB SENSOR LOOP LAYOUT PROFILE (MIRROR FOR SB) N.T.S.





SENSOR CUT N.T.S.

w= 1/2" FOR GRADIENT ENDS 3/" FOR ALL OTHER CUTS



LOOP DETAIL AND EPOXY OVERLAY

NOTES:

CONTRACT:2020.05

I. ALL LAYOUT FOR PRIMARY AND GRADIENT SENSORS SHALL BE VERIFIED BY SYSTEM INTEGRATOR PRIOR TO CUTTING CONCRETE. SYSTEM INTEGRATOR SHALL PROVIDE AND INSTALL LANE SENSORS LOOPS. GRADIENT SENSOR LOOPS SHALL BE CUT AFTER THE EPOXY OVERLAY.

2. FOR THE EPOXY OVERLAY, $\frac{1}{4}$ DEPRESSION SHALL BE COMPLETED AFTER SAW CUTS FOR LOOPS.

3. MEASUREMENT FOR ITEM 515.23 EPOXY OVERLAY SHALL BE BY SQUARE YARD.

4. LOOP LAYOUT IS TYPICAL FOR ALL ORT LANES.

assem	Scal	e:			Designed by:					
-loop as		NOT TO SCALE					HN	TR		
1_NG.	No.	Revision	Ву	Date						
: 011.					CONSULTANT F	PROJEC	CT MANAGER:	R. BRUCE MUNG	ER, P.	
Filename:						Ву	Date		Ву	Date
bue					Designed	RBM	1/20	Checked	TC	1/20
Ĕ					Drawn	WWL	1/20	In Charge of	RAL	1/20

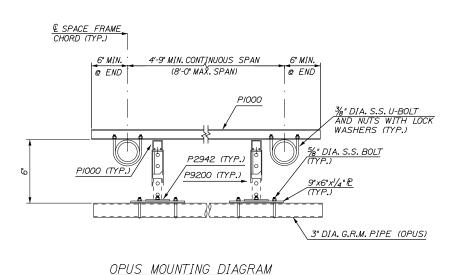
HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909

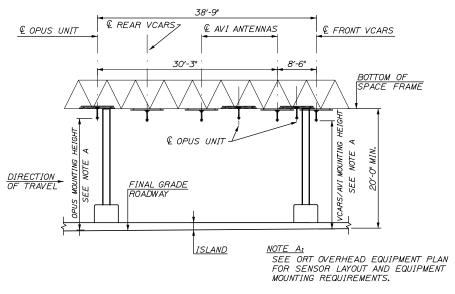


THE GOLD STAR **MEMORIAL HIGHWAY** NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

NEW GLOUCESTER ORT LOOP ASSEMBLY LAYOUT

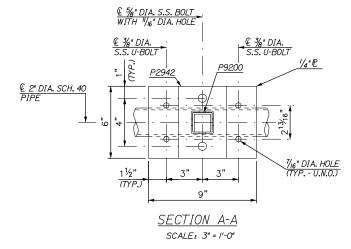
SHEET NUMBER: T-03





END VIEW N.T.S.

- I. MOUNTING BRACKET ASSEMBLIES SHALL BE CONSTRUCTED OF GALVANIZED UNISTRUT BRAND MATERIALS, OR AN APPROVED EQUAL.
- 2. SEE ELECTRICAL PLANS FOR LAYOUT OF VCARS, AVI ANTENNAS AND OPUS CAMERAS. SEE ORT EQUIPMENT LAYOUT FOR MOUNTING DETAILS.
- 3. HORIZONTAL SUPPORTS FOR EQUIPMENT MUST REMAIN WITHIN MOUNTING HEIGHT TOLERANCES. DISCONTINUITY OF 2" DIA. PIPE IS PERMISSIBLE TO ACHIEVE MOUNTING HEIGHTS.
- 4. PIPE SHALL CONFORM TO ASTM A-53, GALVANIZED.
- 5. S.S. U-BOLTS AND BOLTS SHALL CONFORM TO ASTM A-276, TYPE 304.
- 6. STEEL PLATE SHALL CONFORM TO ASTM A-572, GRADE 50, GALVANIZED.
- 7. SYSTEM INTEGRATOR SHALL PROVIDE AVI ANTENNAS, OPUS UNITS AND MPR'S.
- 8. CLEARANCE FOR VCARS UNITS SHALL BE 6" ON THE SIDES AND 2'-O" ABOVE.
- 9. € OF PIOOO FOR AVI SHALL BE II'-O" FROM FRONT VCARS €.
- 10. ALL MOUNTING BRACKET ASSEMBLIES SHALL BE CAPABLE OF +/- I' OF VERTICAL ADJUSTMENT.



PIOOO (TYP.)

P1000

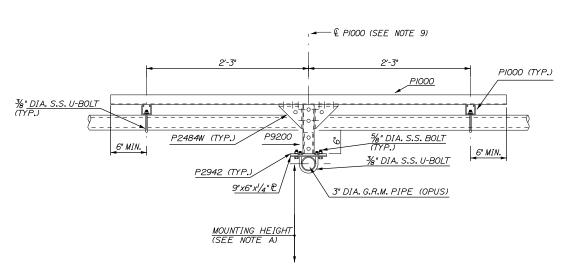
%" DIA. S.S. BOLT

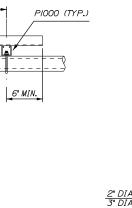
¾" DIA. S.S. U-BOLT

2" DIA. G.R.M. PIPE (AVI) 3" DIA. G.R.M. PIPE (VCARS)

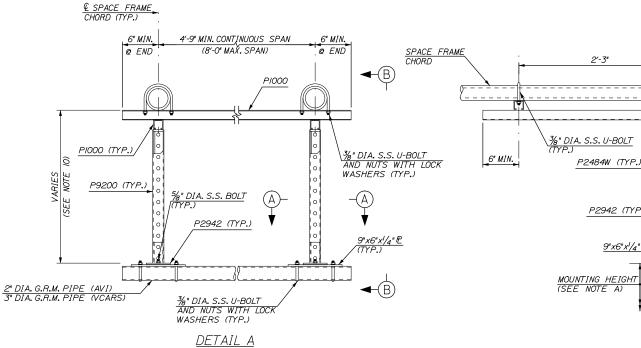
P9200

6" MIN.









VIEW B-B

P2484W (TYP.

CONTRACT:2020.05

P2942 (TYP.)

9"x6"x1/4" P

Bro S	Scale:			Designed by	:				
sndo-	NOT TO SCALE					HN	ITB		
012_NG	No. Revision	Ву	Date						
				CONSULTANT	PROJEC	T MANAGER:	R. BRUCE MUNG	ER, P.I	Ξ.
a L					Ву	Date		Ву	Date
ilename				Designed	RBM	1/20	Checked	TC	1/20
Ě				Drawn	WWL	1/20	In Charge of	RAL	1/20

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



N.T.S.

THE GOLD STAR **MEMORIAL HIGHWAY**

NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE ORT SPACE FRAME MOUNTING BRACKET ASSEMBLY DETAILS

SHEET NUMBER: T-04

3' CONCRETE WEARING SURFACE WITH SYNTHETIC FIBER REINFORCEMENT

NB ORT SOFF-CUT SLAB PLAN

N.T.S.

NOTES:

I. DEMOLITION CANNOT BEGIN WITHOUT APPROVAL FROM THE SYSTEM INTEGRATOR AND THE RESIDENT.

5. EQUIPMENT TO BE SALVAGED SHALL BE CAREFULLY PACKED AND DELIVERED TO THE MTA.

2. ANY EXISTING WORK DISTURBED OR DAMAGED BY THE ALTERATIONS OR PROPOSED WORK SHALL BE REPAIRED OR REPLACED TO THE RESIDENT'S AND AUTHORITY'S SATISFACTION AT NO ADDED COST TO THE AUTHORITY AND DISPOSED OF IN A LEGAL, LAWFUL MANNER BY THE CONTRACTOR.

3. ANY EXISTING WIRING AND CONDUIT DISCONTINUED UNDER THIS PROJECT SHALL BE COMPLETELY REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

4. CONTRACTOR SHALL REMOVE BY POWER-OPERATED MILLING MACHINE 3" OF EXISTING ORT SLAB WITH THE EXCEPTION OF A ONE FOOT BY ONE FOOT AREA AROUND ALL EXISTING STUB UPS, WHICH SHALL BE REMOVED BY HAND. (SEE SPECIAL PROVISIONS SECTION 202)

5. THE CONTRACTOR SHALL PLACE A 3" WEARING SURFACE USING THE MTA 'AAA DECK MIX' WITH SYNTHETHIC FIBER REINFORCEMENT AT A DOSAGE RATE OF 3 LBS./CY. THE WEARING SURFACE SHALL HAVE A TRANSVERSE BROOM FINISH. PAYMENT FOR 3" WEARING SURFACE SHALL BE MADE UNDER ITEM 502.262 STRUCTURAL CONCRETE ROADWAY SLAB WEARING SURFACE.

6. AFTER THE CONCRETE WEARING SURFACE HAS BEEN PLACED AND ALLOWED TO REACH INITIAL SET, THE CONTRACTOR SHALL SAWCUT THE TRANSVERSE AND LONGITUDINAL JOINTS 3/4" DEEP USING A SOFF-CUT SAW. SAWCUTTING OF THE CONCRETE WEARING SURFACE SHALL OCCUR NO MORE THAN 8 HOURS AFTER COMPLETION OF THE WEARING SURFACE, UNLESS OTHERWISE APPROVED BY THE RESIDENT.

7. A 1/2" FLEXIBLE FOAM EXPANSION JOINT SHALL BE INSTALLED ALONG THE CONCRETE BARRIER. SIKAFLEX-ICSL POLYURETHANE SEALANT SHALL BE 1/2" DEEP. THIS WORK IS INCIDENTAL TO ITEM 502.262.

SHEET FOR NEW GLOUCESTER ORT PLAZA ONLY

Scale:

NOT TO SCALE

NO. Revision

By Date

CONSULTANT PROJECT MANAGER: R. BRUCE MUNGER, P.E.

By Date

Designed RBM 1/20 Checked TC 1/20

Drawn

WWL 1/20 In Charge of RAL 1/20

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



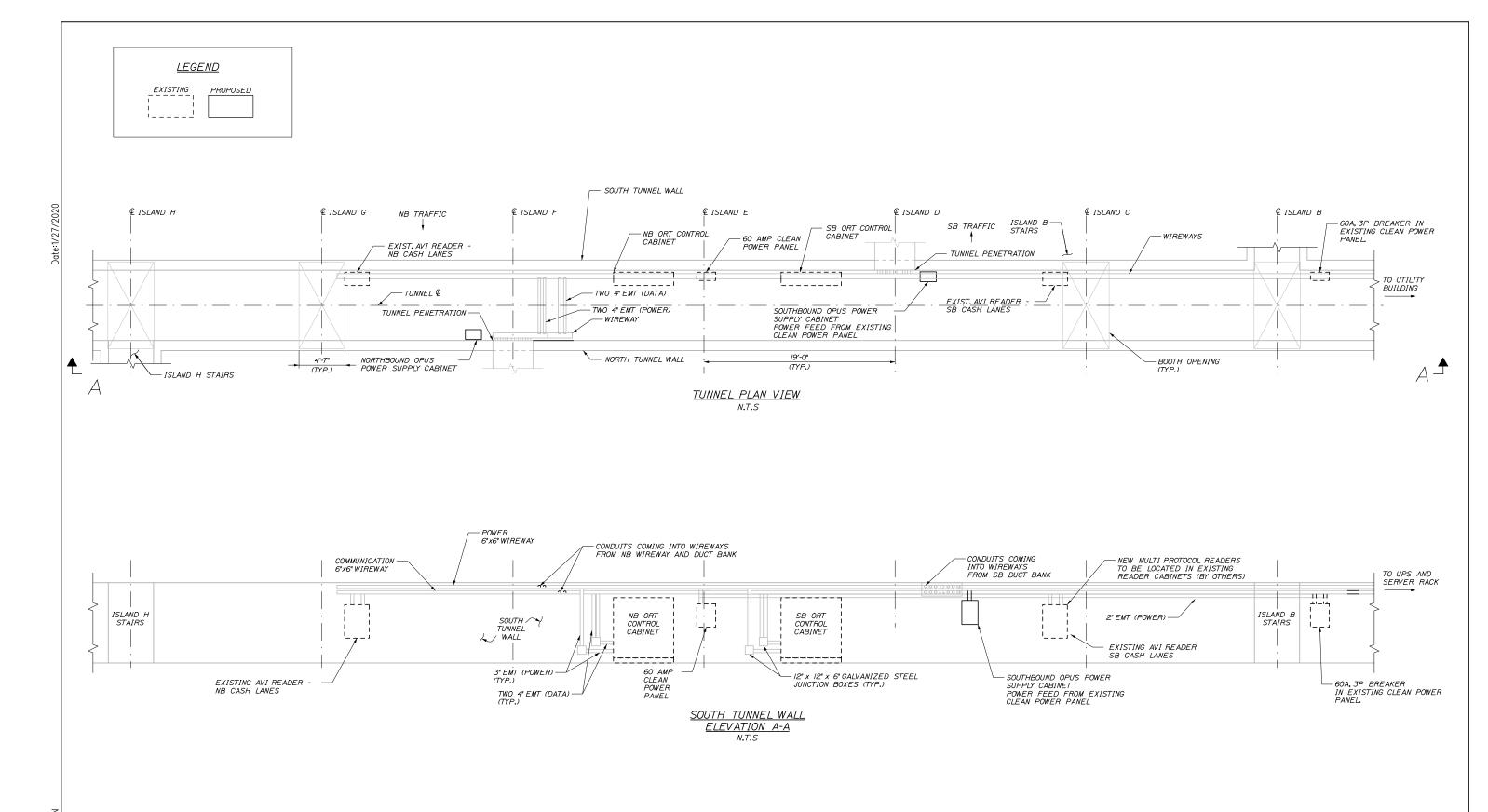
THE GOLD STAR MEMORIAL HIGHWAY NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

NEW GLOUCESTER ORT SLAB PLAN

SHEET NUMBER: T-05

CONTRACT: 2020.05

13 OF 19



NOTE: THIS SHEET SHOWS NEW GLOUCESTER, WEST GARDINER IS A MIRROR IMAGE.

Scale:

NOT TO SCALE

NO. Revision

By Date

CONSULTANT PROJECT MANAGER: R. BRUCE MUNGER, P.E.

By Date

By Date

Designed RBM 1/20 Checked TC 1/20

Drawn WWL 1/20 In Charge of RAL 1/20

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



THE GOLD STAR MEMORIAL HIGHWAY

NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT CONVERSION

ELECTRICAL DETAILS

SHEET NUMBER: T-06
CONTRACT:2020.05 14 OF 19

Wiring Shown Below is for one direction of ORT travel only. Duplicate for second ORT direction of travel.

ORT SYSTEMS NETWORK AND DATA WIRING (CONTINUED)

Video Capture and Recognition System (VCARS™) *Relocating rear VCARS*

RISER DIAGRAM NUMBER	WIRE LABEL	DESCRIPTION	WIRE	то	SIGNAL TYPE	ROUTING INSTRUCTIONS	TERMINATION
124	(ORT#)MSH.RVA	MEDIAN SHOULDER VCARS™ REAR LICENSE PLATE CAMERA A - GIGABIT DATA	4 /2444// 0475	RJ45 Both Ends, From VCARS™ Connector Panel Blue 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	In Gantry, pull 3 new cables using existing wire as a pull cable to VCARS™	Termination by Integrator
125	(ORT#)MSH.RVST	MEDIAN SHOULDER VCARS™ REAR UNIT CONTROL NETWORK AND TRIGGER	4pr/24AWG CAT-5e Shielded Burial Grade (No Gel)	RJ45 Both Ends, From VCARS™ Connector Panel Yellow 110 Jack to Designated Switch Port 110 Jack	10/100 ETHERNET 24V DC SWITCHED	Junction Box. Extend using flexible weathertight conduit to VCARS™ access panel cover. Punch and attach weathertight conduit. Attach end connector (RJ45) each end and test to Gigabit specification.	Termination by Integrator
126	(ORT#)MSH.RVB	MEDIAN SHOULDER VCARS™ REAR LICENSE PLATE CAMERA B - GIGABIT DATA		RJ45 Both Ends, From VCARS™ Connector Panel Red 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	(1	Termination by Integrator
127	(ORT#)L1.RVA	LANE 1 VCARS™ REAR LICENSE PLATE CAMERA A - GIGABIT DATA		RJ45 Both Ends, From VCARS™ Connector Panel Blue 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	In Gantry, pull 3 new cables using existing wire as a pull cable to VCARS™	Termination by Integrator
128	(ORT#)L1.RVST	LANE 1 VCARS™ REAR UNIT CONTROL NETWORK AND TRIGGER	4pr/24AWG CAT-5e Shielded Burial Grade (No Gel)	RJ45 Both Ends, From VCARS™ Connector Panel Yellow 110 Jack to Designated Switch Port 110 Jack	10/100 ETHERNET 24V DC SWITCHED	Junction Box. Extend using flexible weathertight conduit to VCARS™ access panel cover. Punch and attach weathertight conduit. Attach end connector	Termination by Integrator
129	(ORT#)L1.RVB	LANE 1 VCARS™ REAR LICENSE PLATE CAMERA B - GIGABIT DATA	Grade (No Ger)	RJ45 Both Ends, From VCARS™ Connector Panel Red 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	(RJ45) each end and test to Gigabit specification.	Termination by Integrator
130	(ORT#)OSH.RVA	OUTSIDE SHOULDER VCARS™ REAR LICENSE PLATE CAMERA A - GIGABIT DATA		RJ45 Both Ends, From VCARS™ Connector Panel Blue 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	In Gantry, pull 3 new cables using existing wire as a pull cable to VCARS™	Termination by Integrator
131	(ORT#)OSH.RVST	OUTSIDE SHOULDER VCARS™ REAR UNIT CONTROL NETWORK AND TRIGGER	4pr/24AWG CAT-5e Shielded Burial	RJ45 Both Ends, From VCARS™ Connector Panel Yellow 110 Jack to Designated Switch Port 110 Jack	10/100 ETHERNET 24V DC SWITCHED	Junction Box. Extend using flexible weathertight conduit to VCARS™ access panel cover. Punch and attach weathertight conduit. Attach end connector	Termination by Integrator
132	(ORT#)OSH.RVB	OUTSIDE SHOULDER VCARS™ REAR LICENSE PLATE CAMERA B - GIGABIT DATA	Grade (No Gel)	RJ45 Both Ends, From VCARS™ Connector Panel Red 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	(RJ45) each end and test to Gigabit specification.	Termination by Integrator

Wiring Shown Below is for one direction of ORT travel only. Duplicate for second ORT direction of travel.

LASER SCANNER (OPUS) DATA WIRING SCHEDULE

RISER DIAGRAM NUMBER	WIRE LABEL	DESCRIPTION	WIRE	ТО	SIGNAL TYPE	ROUTING INSTRUCTIONS	TERMINATION
145	(ORT#)	LANE 1 OPUS P3 SCANNER 10/100	Ann /2 AANNO CAT F	RJ45 Both Ends, From OPUS Connector Panel Blue 110 Jack to TipOut Designated 110 Jack	GIGABIT ETHERNET	In Gantry, route the 3 cables before connector attachment to OPUS Junction	Termination by Integrator
146	(ORT#)	LANE 1 OPUS P4 LEAD SCANNER 10/100	4pr/24AWG CAT-5e Shielded Burial Grade (No Gel)	RJ45 Both Ends, From OPUS Connector Panel Yellow 110 Jack to Designated Switch Port 110 Jack	10/100 ETHERNET 24V DC SWITCHED	Box. Extend using flexible weathertight conduit to OPUS access panel cover. Punch and attach weathertight conduit. Attach end connector (RJ45) each end and test to Gigabit specification.	Termination by Integrator
147	(ORT#)	LANE 1 OPUS P4 TRAIL SCANNER 10/100		RJ45 Both Ends, From OPUS Connector Panel Red 110 Jack to TipOut Designated 110 Jack			Termination by Integrator
148	(ORT#)	OUTER SHOULDER OPUS P3 SCANNER 10/100		RJ45 Both Ends, From OPUS Connector Panel Blue 110 Jack to TipOut Designated 110 Jack	GIGABII EIHERNEI	In Gantry, route the 3 cables before connector attachment to OPUS Junction	Termination by Integrator
149	(ORT#)	OUTER SHOULDER OPUS P4 LEAD SCANNER 10/100	4pr/24AWG CAT-5e Shielded Burial	RJ45 Both Ends, From OPUS Connector Panel Yellow 110 Jack to Designated Switch Port 110 Jack	10/100 ETHERNET 24V DC SWITCHED	Box. Extend using flexible weathertight conduit to OPUS access panel cover. Punch and attach weathertight conduit. Attach end connector (RJ45) each end	Termination by Integrator
150	(ORT#)	OUTER SHOULDER OPUS P4 TRAIL SCANNER 10/100	Grade (No Gel)	RJ45 Both Ends, From OPUS Connector Panel Red 110 Jackto TipOut Designated 110 Jack	GIGABIT ETHERNET	and test to Gigabit specification.	Termination by Integrator

NOTE: I. SEE DATA WIRING SCHEDULE 2

.≅	Scal	e:			Designed by:	:				
_ Data		NOT TO SCALE					HN	TB		
015_NG	No.	Revision	Ву	Date						
					CONSULTANT F	PROJEC	T MANAGER:	R. Bruce Munge	r, P.E.	
Filename:						Ву	Date		Ву	Date
el el					Designed	RBM	1/20	Checked	TC	1/20
₫[Drawn	WWL	1/20	In Charge of	RAL	1/20

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



NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

ORT DATA WIRING SCHEDULE 1

CONTRACT:2020.05

SHEET NUMBER: T-07

NOTES:

I. ALL AVI ANTENNAS, READERS AND WIRING SHALL BE REMOVED AND REPLACED WITH SYSTEM INTEGRATOR ANTENNAS AND E-6 MPR READERS. (BY OTHERS)

2. LMR 400 WIRING FOR THE AVI ANTENNAS AND READERS SHALL BE REPLACED WITH LMR 600 WIRING.

ORT SYSTEMS NETWORK AND DATA WIRING (CONTINUED)

TRANSCORE E-6 MPR (Specifications are for TRANSCORE E-6 MPR)

3. REAR VCARS SHALL BE MOVED TO 21'-2" FROM THE PRIMARY AVI DATUM LINE.

4. OLD CAT-5E DATA WIRING SHALL BE USED AS A PULL STRING FOR NEW CAT-5E WIRING TO BE INSTALLED.

Wiri	Scale:	:			Designed by:					
. Data		NOT TO SCALE					HN	ITR		
6_NG_		Revision	Ву	Date						
: 016					CONSULTANT F	PROJEC	T MANAGER:	R. Bruce Munge	r, P.E.	
Filename:						Ву	Date		Ву	Date
bue					Designed	RBM	1/20	Checked	TC	1/20
Ē					Drawn	WWL	1/20	In Charge of	RAL	1/20

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



NEW GLOUCESTER/W GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

ORT DATA WIRING SCHEDULE 2

CONTRACT:2020.05

SHEET NUMBER: T-08

NOTE: I. SEE POWER WIRING SCHEDULE 2

NOT TO SCALE No. Revision By Date CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E. By Date By Date By Date Designed RBM 1/20 Checked TC 1/20 Drawn WWL 1/20 In Charge of RAL 1/20	<u>, , </u>	Jean	o .			Designed by	-				
NO. REVISION BY DULE CONSULTANT DROJECT MANAGER: D. Bruco Mungar D.E.	ı ıl					HNTR					
	8	No.	Revision	Ву	Date						
	1										
By Date By Date						CONSULTANT	PROJEC	CT MANAGER:	R. Bruce Munge	r, P.E.	
	E E						Ву	Date		Ву	Date
Besigned RBM 1/20 Checked TC 1/20	Di G					Designed	RBM	1/20	Checked	TC	1/20
Image: Control of the	Œ[Drawn	WWL	1/20	In Charge of	RAL	1/20

Designed by:

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



NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

ORT POWER WIRING SCHEDULE 1

SHEET NUMBER: T-09

MTA PROJECT MANAGER: WILLIAM H. YATES III

CONTRACT:2020.05

48VDC

or SOW

STRANDED

293-298

(Panel#) (ORT#)

I. ALL AVI ANTENNAS, READERS AND WIRING SHALL BE REMOVED AND REPLACED WITH SYSTEM INTEGRATOR ANTENNAS AND E-6 MPR READERS. (BY OTHERS)

2. REAR VCARS SHALL BE MOVED 21'-2" FROM THE PRIMARY AVI DATUM LINE. THE LIQUID TIGHT FLEXIBLE CONDUIT RUNNING FROM THE JUNCTION BOX TO THE REAR VCARS UNITS SHALL BE REPLACED TO ACCOMODATE THE NEW LOCATION OF THE VCARS.

>	Scal	e:			Designed by:					
_ Power		NOT TO SCALE	HNTB							
3_NG	No.	Revision	Ву	Date						
: 018					CONSULTANT F	PROJEC	T MANAGER:	R. Bruce Munge	r, P.E.	
me						Ву	Date		Ву	Date
llename					Designed	RBM	1/20	Checked	TC	1/20
:≝					Drawn	WWL	1/20	In Charge of	RAL	1/20

RIGHT SHOULDER OPUS SCANNER DC POWER

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



OPUS POWER SUPPLY CABINET

OPUS SCANNER(1-3)

NEW GLOUCESTER/W. GARDINER BARRIER TOLL PLAZA ORT EQUIPMENT UPDATE

OPUS TERMINALS

ORT POWER WIRING SCHEDULE 2

SHEET NUMBER: T-10

INDIVIDUAL OPUS SCANNER

MTA PROJECT MANAGER: WILLIAM H. YATES III

CONTRACT:2020.05

