# MAINE TURNPIKE AUTHORITY

# ADDENDUM NO. 2

# <u>CONTRACT</u> <u>2020.03</u>

# PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MILE 43.0 TO MILE 46.4

# The bid opening date is Thursday March 19, 2020 at 11:00 am.

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

# **GENERAL**

Intentionally left blank.

# PROPOSAL

Proposal P-sheets are deleted in their entirety and replaced. Updates reflect below changes which were noted in Addendum #1 and others noted in responses to below Addendum 2 Questions.

403.213 HMA 12.5mm Nominal Maximum Size (Base and Intermediate Base Course): Quantity reduced to move surface course to Item 403.2081.

403.2081 HMA 12.5mm Nominal Maximum Size (Polymer Modified): Quantity moved from surface course of Item 403.213 to this Item.

639.18 Field Office, Type A: Item is deleted and replaced with Item 639.181 Field Office, Type A-P (See Special Provision for updated text)

652.44 Pace Vehicle – New Item with Quantity of 250 calendar days

652.4501 Truck Mounted Attenuator – 24,000LB: Item is deleted from Contract and Quantity moved to Item 652.45

652.45 Truck Mounted Attenuator: Quantity moved from Item 652.4501 to this Item.

# **SPECIFICATIONS**

- Special Provision 104.4.6 Utility Coordination
  - Special Provision page SP-11, Granite State Gas/Unitil section, is updated to include three plan sheets showing a 50% complete design of the proposed gas line replacement; pages numbered SP-11A, SP-11B, and SP-11C.

- Special Provision 401
  - Special Provision Hot Mix Asphalt Pavements (Asphalt Rich Base Mixture) is deleted in its entirety and replaced. See Attached. Revisions relative to payment and minimum bitumen content.
- Special Provision 403
  - Special Provision 403 Hot Mix Asphalt Pavement Table and Complimentary Note callouts are deleted and replaced. See Attached. Revisions relative to adding changing HMA type for median construction and the use of material transfer vehicle.
- Special Provision 403
  - Special Provision 403 Hot Mix Asphalt Pavement was updated to add Item 403.2081 Hot Mix Asphalt, 12.5mm (Polymer Modified)-RAP.
- Special Provision 639
  - Special Provision 639 and Item 639.181 Field Office, Type A-P (Permanent Field Office), added in Addendum 01, is deleted in its entirety and replaced with Special Provision 639 and Item 639.181 Field Office, Type A-P. This will be a temporary field office.
- Special Provision 650
  - The contractor shall make a "pen and ink" change to Special Provision page SP-153, first paragraph of Section 650.31 Variable Message Sign (VMS); The sentence shall be deleted and replaced with, "The VMS shall be a Daktronics model VF-2020-27x120-66-A."
- Special Provision 650
  - The contractor shall make a "pen and ink" change to Special Provision page SP-159, first paragraph of Section 650.31 Variable Message Sign (VMS); the sentence shall be deleted and replaced with, "The VMS shall be a Daktronics model VF-2420-27x60-66-A."

# PLANS

- Plan sheets 2 and 3 Estimated Quantities, are deleted and replaced to reflect changes noted.
- Plan sheet 5 General Notes, is deleted and replaced to reflect changes noted.
- Plan sheet 6 Typical Section, is deleted and replaced to reflect changes noted.
- Plan sheet 8 Typical Section, is deleted and replaced to reflect changes noted.
- Plan sheet 11 Maintenance of Traffic Typical Sections, is deleted and replaced to reflect changes noted.
- Plan sheets 37 and 38 Guardrail Details, are deleted and replaced to reflect changes noted.
- Plan sheets 291 and 295 Guardrail Transition Details, are deleted and replaced to reflect changes noted.
- Plan sheet 302 Overhead Sign Structure, is deleted and replaced to reflect changes noted.

- Plan sheet 303 Overhead Sign Structure Foundation; The Contractor shall make a "pen and ink" change to Plan sheet 303, Overhead Sign Structure Foundation I, Note 2; it shall be replaced in it's entirety with the following: "Overhead sign structure and foundations, complete and in place according to these plans, shall be paid under item 645.12. Piles shall be paid under related 501 pay items"
- Plan sheet 309 Sign Structure and Foundation, is deleted and replaced to reflect changes noted.
- Plan sheets A21 and A22, Exit 44 Guardrail Details, are deleted and replaced to reflect changes noted.

# **OUESTIONS**

# The following are additional questions received. Answers to the questions are noted. Bidders shall utilize this information in preparing their bid.

- Question 1: Per the Special Provisions, traffic stoppages for blasting will only be allowed prior to 6:30am or after 6:30 PM. The State of Maine DEP Blasting statue states "Blasting may not occur in the period between sundown and sunrise or in the period 7:00PM and 7:00AM, whichever is greater." Also, the town of Scarborough only allows blasting between the hours of 8:00AM and 6:00PM, the City of Portland restricts blasting to the hours of 9:00AM to 4:00PM. I do not believe South Portland has a time restriction in writing. With these time limits, Blasting in Portland and Scarborough would not be allowed without a waiver from the Town or City. With these additional time restrictions from other agencies, will traffic stoppage time frames be allowed to be adjusted? If not, blasting may not be allowed in certain area's, or greatly restricted.
  - Answer: The MTA Supplemental Specifications and 2020.03 Special Provisions for Blasting times shall remain as they are currently stated including that the Contractor shall comply with all applicable laws, rules, and regulations of the State of Maine. MTA is not required to follow local ordinances which will be considered in the Contractor's Blasting time schedule. Final coordination and details shall be included in the required Blasting Plan.
- <u>Question 2:</u> Does this project have a Maine DEP Permit? Does this DEP permit specify a Pre Blast Survey radius for blasting? If so, what is this radius?
  - Answer: The contract does include a MaineDEP permit, specifically Permit L-27726-TG-A-N (NRPA Wetland Alteration and Water Quality Certification); see Appendix. This is not a DEP Blast Permit. As noted in response to Question 1 of this Addendum, the Contractor shall comply with all applicable laws, rules, and regulations of the State of Maine. Contractor shall also review and comply with Utility requirements relative to pre-blast surveys.
- Question 3: Plan Sheet 303 Foundation Note #2 states "piles" are incidental to Bid Item #645.12, but there are Bid Items for the H Piles. Please clarify.

- <u>Answer:</u> The piles shall be paid under the 501 pile items and not considered incidental to pay item 645.12.
- <u>Question 4:</u> Not sure if we can get 78" RCP pipe for the extension. Typically 72" or 84" RCP in that size. Is there an alternative?
  - Answer: A 78" RCP shall be used. The pipe may be acquired from an out of state fabricator. Pretech Precast Concrete Technologies out of Kansas City and Old Castle Precast provide a 78" RCP.
- <u>Question 5:</u> Can #5 epoxy coated ties (at the same spacing as the pitch) be substituted for #5 epoxy coated spirals in the pole foundations 30" & greater.
  - a. <u>Answer:</u> #5 epoxy coated ties may be substituted for the spirals if calculations are submitted showing that the size and spacing of the ties have better or equal strength as the spirals. The strength reduction factor (phi factor) is not the same for ties and spirals and any deviation from the tables used in the MeDOT standard details will require PE stamped calculations submitted to the engineer for review and approval.
- Question 6: Bid Item 603.28 Concrete Collar calls for 11 required. Is that correct?

Answer: Yes

- Question 7: In the revised Rich Bottom specification, the Payment for PGAB is based on the JMF +/-.4% but it then states that test results below the minimum shall not be permitted. 1) The minimum for payment for PGAB shows as 6.0% when the design PGAB minimum is 5.8%, which one is correct?, 2) Does that mean anything below a 6.0% or 5.8% minimum PGAB content will result in a less than 100% payment?
  - Answer: Special Provision 401 is deleted and replaced to correct as noted.
- Question 8: Are the median shoulders meant to be surfaced with the Polymer Modified HMA?
  - <u>Answer:</u> Special Provision 403 is deleted and replaced to change the median pavement to 403.213 HMA and to remove the requirement of a material transfer vehicle for the median paving.
- <u>Question 9:</u> The VMS signs specified in the contract are no longer manufactured by Daktronics. Is there a specific make and model that will be used as a substitute?

Answer: The updated VMS signs are noted for the specific locations:

- Adjacent to the Holmes Road The VMS shall be a Daktronics model VF-2020-27x120-66-A.
- Adjacent to Crosby Maintenance The VMS shall be a Daktronics model VF-2420-27x60-66-A.

<u>Question 10:</u> MTA has not allowed the use of bricks to reset catch basin frames in the past. Is this true for this contract?

<u>Answer:</u> Yes. The contractor shall make a "Pen and Ink" change to Section 604.04, add the following sentence, "Bricks may not be used to adjust basin or manhole frames."

<u>Question 11:</u> For median barrier Type A and Type B, will the MTA allow the bottom of the barrier to be cast with a vertical surface?

<u>Answer:</u> Type A and Type B median barrier shall be single slope barrier as shown in the plans with no change in the slope for a vertical surface. Minor modifications may be considered during the Shop Submittal process.

Question 12: SP-187 states 3M type XI only reflective sheeting. The Turnpike has approved Avery Dennison type XI on other projects. Is this still permitted?

Answer: No, only 3M will be accepted on this project.

# **ATTACHMENTS**

•	Addendum No. 2	(6 pages)
•	Proposal	(17 pages)
•	Specifications	(14 pages)
•	Plans	(14 pages)

**Notes:** The above items shall be considered as part of the bid submittal.

The total number of pages included with this addendum is eleven pages (51).

All bidders are requested to acknowledge the receipt of the Addendum No. 2 by signing below and faxing this sheet to Nathaniel Carll, Purchasing Department, Maine Turnpike Authority at 207-871-7739. Bidders are also required to acknowledge receipt of this Addendum No. 2 on Page P-19 of the bid package.

Business Name

Print Name and Title

Signature

Date

Very truly yours,

# MAINE TURNPIKE AUTHORITY

Nathaniel Carll Purchasing Department Maine Turnpike Authority

# SCHEDULE OF BID PRICES CONTRACT NO. 2020.03 PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4

Item	litere Deceministice	Linita	Approx.	Unit Prices		Bid Amount	
INO	item Description	Units	Quantities	Dollars	Cents	Dollars	Cents
201.11	Clearing	Acre	6.1	Donard		Donard	Conto
201.23	Removing Single Tree Top	Fach	7				
	Only						
201.24	Removing Stump	Each	7				
202.12	Removing Existing Structural Concrete	Cubic Yard	14				
202.15	Removing Existing Manhole or Catch Basin	Each	51				
202.202	Removing Pavement Surface	Square Yard	9,950				
202.206	Removing Rumble Strips	Linear Foot	8,600				
203.20	Common Excavation	Cubic Yard	148,700				
203.21	Rock Excavation	Cubic Yard	13,370				
203.211	Presplitting Rock	Linear Foot	4,440				
203.25	Granular Borrow	Cubic Yard	37,400				

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers		
				Dollars	Cents	Dollars	Cents	
				BROUGHT FORW	ARD:			
203.33	Special Fill	Cubic Yard	54				   	
203.34	Lightweight Fill	Cubic Yard	290				     	
203.52	Low Permeability Fill	Cubic Yard	960				   	
304.10	Aggregate Subbase Course - Gravel	Cubic Yard	29,100				   	
304.14	Aggregate Base Course - Type A	Cubic Yard	19,950				     	
403.207	Hot Mix Asphalt, 19.0 mm Nominal Maximum Size	Ton	18,050				   	
403.2072	19.0mm Asphalt Rich Base HMA	Ton	19,650				   	
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base Course)	Ton	4,080				     	
403.2081	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Polymer Modified)	Ton	7,900				   	
409.15	Bituminous Tack Coat RS1 or RS1h - Applied	Gallon	11,850					
419.30	Sawing Bituminous Pavement	Linear Foot	59,925					
470.08	Berm Dropoff Correction - Grindings	Ton	650					

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ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
			BROUGHT FORV	VARD:			
501.231	Dynamic Loading Test	Each	2				
501.50	Steel H-beam Piles 89 lb/ft, delivered	Linear Foot	1,760				
501.501	Steel H-beam Piles 89 lb/ft, in place	Linear Foot	1,760				     
501.90	Pile Tips	Each	16				
501.91	Pile Splices	Each	16				
501.92	Pile Driving Equipment and Mobilization	Lump Sum	1				
509.202	Culvert Sliplining	Lump Sum	1				
511.071	Cofferdam - Red Brook NB	Lump Sum	1				
511.072	Cofferdam - Red Brook SB	Lump Sum	1				
511.073	Cofferdam - Long Creek NB	Lump Sum	1				
511.074	Cofferdam - Long Creek SB	Lump Sum	1				
511.091	Temporary Earth Support System	Lump Sum	1				

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ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers	Bid Amount in Numbers
				Dollars Cen	ts Dollars Cents
			•	BROUGHT FORWAR	):
513.09	Slope Protection - Portland Cement Concrete	Square Yard	552		
514.06	Curing Box for Concrete Cylinders	Each	1		
515.201	Pigmented Protective Coating for Concrete Surfaces	Square Yard	20		
515.202	Clear Protective Coating for Concrete Surfaces	Square Yard	110		
518.60	Repair of Vertical Surfaces < 8 inches	Square Foot	150		
526.301	Temporary Concrete Barrier, Type I	Linear Foot	31,600		
526.306	Temporary Concrete Barrier, Type 1 - Supplied by MTA (7,000 LF)	Lump Sum	1		
526.307	Concrete Barrier Type 1 - Stormwater Filter	Linear Foot	120		
526.351	Median Barrier - Type A (11,250 LF)	Lump Sum	1		
526.352	Median Barrier - Type B (3,575 LF)	Lump Sum	1		
526.353	Median Barrier - Type C (280 LF)	Lump Sum	1		
526.354	Median Barrier - Type D (1,550 LF)	Lump Sum	1		

ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers		
				Dollars	Cents	Dollars	Cents	
				BROUGHT FORV	VARD:			
526.355	Earth Retaining Barrier (882.5 LF)	Lump Sum	1					
526.362	Type C Transition Barrier	Each	2					
526.363	Type D Transition Barrier	Each	12				     	
526.364	OHSS Foundation Transition Barrier	Each	6					
526.365	Median Guardrail Transition Barrier	Each	1					
526.366	Guardrail Transition Barrier	Each	6				   	
527.341	Work Zone Crash Cushions - TL-3	Unit	17					
527.3411	Work Zone Crash Cushions - TL-3 - Left In Place	Unit	3					
602.30	Flowable Concrete Fill	Cubic Yard	50					
603.155	12 inch Reinforced Concrete Pipe - Class III	Linear Foot	930					
603.159	12 Inch Culvert Pipe Option III	Linear Foot	460					
603.165	15 inch Reinforced Concrete Pipe - Class III	Linear Foot	175					

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
		-		Dollars	Cents	Dollars	Cents
	·			BROUGHT FORV	VARD:		
603.175	18 inch Reinforced Concrete Pipe - Class III	Linear Foot	1,744				
603.195	24 inch Reinforced Concrete Pipe - Class III	Linear Foot	440				   
603.205	30 inch Reinforced Concrete Pipe - Class III	Linear Foot	210				   
603.215	36 inch Reinforced Concrete Pipe - Class III	Linear Foot	75				
603.225	42 inch Reinforced Concrete Pipe - Class III	Linear Foot	56				
603.28	Concrete Collar	Each	11				   
603.50	78 inch Reinforced Concrete Pipe - Class IV	Linear Foot	8				   
604.09	Catch Basin Type B1	Each	22.375				   
604.096	60" Catch Basin Type B1-C	Each	1				     
604.18	Adjusting Manhole or Catch Basin to Grade	Each	4				
604.182	Cleaning Existing Catch Basin and Manhole	Each	9				
604.248	Catch Basin Type F6	Each	118				

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ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
			BROUGHT FORV	VARD:		•	
604.26	Catch Basin Type B5	Each	42				
604.40	Secure Catch Basin Grate	Each	9				
605.016	6 Inch PVC Underdrain	Linear Foot	3,700				
605.018	8 Inch PVC Underdrain	Linear Foot	550				
605.09	6 Inch Underdrain Type B	Linear Foot	5,800				
605.11	12 Inch Underdrain Type C	Linear Foot	5,300				     
605.12	15 Inch Underdrain Type C	Linear Foot	2,900				
605.13	18 Inch Underdrain Type C	Linear Foot	1,537				   
605.15	24 Inch Underdrain Type C	Linear Foot	80				     
606.1301	31" W Beam Guardrail - Mid- way Splice (7' Steel Post, 8" Offset Blocks, Single Faced)	Linear Foot	2,850				
606.1307	31" W-Beam Guardrail - Mid- way Splice Flared Terminal	Each	8				
606.132	31" W Beam Guardrail - Mid- way Splice (7' Steel Post, 8" Offset Blocks, Double Faced)	Linear Foot	340				

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers		
				Dollars	Cents	Dollars	Cents	
				BROUGHT FORM	/ARD:			
606.1351	31" W-Beam Guardrail - Mid- way Splice Terminal End - Anchored End	Each	5					
606.1723	Bridge Transition - Type III	Each	5					
606.1724	Bridge Transition - Type III, Modified	Each	2				   	
606.353	Reflectorized Flexible Guardrail Marker	Each	16					
606.356	Underdrain Delineator Post	Each	127				   	
606.3561	Delineator Post-Remove and Reset	Each	202					
606.3605	Guardrail - Remove, Modify and Reset Single Rail	Linear Foot	100				     	
606.3631	Guardrail - Remove and Dispose	Linear Foot	20,250				   	
607.17	Chain Link Fence - 6 foot	Linear Foot	820				   	
610.08	Plain Riprap	Cubic Yard	612				   	
610.18	Stone Ditch Protection	Cubic Yard	530				   	
610.181	Temporary Stone Check Dam	Cubic Yard	623				   	

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ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
			BROUGHT FORV	VARD:			
613.319	Erosion Control Blanket	Square Yard	46,950				
615.07	Loam	Cubic Yard	11,390				
618.14	Seeding Method Number 2	Unit	928				
618.143	Special Seeding	Unit	25				
619.1201	Mulch - Plan Quantity	Unit	895				
619.1202	Temporary Mulch	Lump Sum	1				
620.56	Drainage Geotextile	Square Yard	3,200				
620.561	Impervious Liner	Square Yard	3,150				
620.58	Erosion Control Geotextile	Square Yard	2,146				
620.60	Separation Geotextile	Square Yard	7,000				
626.122	Quazite Junction Box (18x11)	Each	47				
626.22	Non-metallic Conduit	Linear Foot	6,550				

Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers		
				Dollars	Cents	Dollars	Cents	
				BROUGHT FORW	/ARD:		<u> </u>	
626.223	Horizontal Directional Drilled Conduit	Linear Foot	250				   	
626.31	18 Inch Diameter Foundation	Each	1					
626.32	24 Inch Diameter Foundation	Each	46					
626.33	30 Inch Diameter, 8 Feet or Less Foundation	Each	7				   	
626.332	30-Inch Diameter, Greater than 8-Feet Long, All 36 Inch and 42 Inch Diameter Foundations	Cubic Yard	24					
626.38	Ground Mounted Cabinet Foundation	Each	2					
626.701	VMS Foundations - Crosby	Lump Sum	1					
627.712	White or Yellow Pavement Marking Line	Linear Foot	256,900					
627.73	Temporary 6 Inch Pavement Marking Tape	Linear Foot	2,000				   	
627.731	Temporary 6 Inch Black Pavement Marking Tape	Linear Foot	2,000					
627.77	Removing Existing Pavement Marking	Square Foot	43,850				     	
627.78	Temporary Pavement Marking Line, White or Yellow	Linear Foot	230,500					

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Item No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
				BROUGHT FORW	/ARD:		<u> </u>
629.05	Hand Labor, Straight Time	Hour	230				
631.10	Air Compressor (Including Operator)	Hour	20				   
631.11	Air Tool (Including Operator)	Hour	20				   
631.12	All Purpose Excavator (Including Operator)	Hour	230				   
631.13	Bulldozer (Including Operator)	Hour	200				     
631.14	Grader (Including Operator)	Hour	30				   
631.171	Truck - Small (Including Operator)	Hour	30				   
631.172	Truck-Large (Including Operator)	Hour	200				   
631.22	Front End Loader (Including Operator)	Hour	230				   
631.32	Culvert Cleaner (Including Operators)	Hour	180				
631.36	Foreman	Hour	230				
634.175	Replacement LED Fixture	Each	1				

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ltem No	Item Item Description Units		Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
	BROUGHT FORWARD:						
634.208	Remove and Reset Light Standard	Each	24				
634.2083	Remove and Stack Lighting Standard	Each	6				
634.221	Temporary Highway Light	Each	4				
634.231	Conventional Light Standard With LED Fixture	Each	10				
639.181	Field Office, Type A-P	Each	1				
645.105	Remove and Stack Sign	Each	12				
645.109	Remove and Reset Sign	Each	5				
645.1099	Remove and Dispose Sign	Each	32				
645.12	Overhead Guide Sign: (STA 2133+14)	Lump Sum	1				
645.161	Breakaway Device Single Pole	Each	10				
645.162	Breakaway Device Multi Pole	Each	15				
645.251	Roadside Guide Sign, Type I	Square Foot	1,380				

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ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
	BROUGHT FORWARD:						
645.2511	Sheet Aluminum Overlay, Type I	Square Foot	288				   
645.271	Regulatory, Warning, Confirmation and Route Assembly Sign, Type I	Square Foot	500				
645.289	Steel H-Beam Poles	Pound	11,600				   
645.501	Remove and Reset Mainline Sign No. 1	Lump Sum	1				   
645.502	Remove and Reset Mainline Sign No. 2	Lump Sum	1				   
645.503	Remove and Reset Mainline Sign No. 3	Lump Sum	1				
645.504	Remove and Reset Mainline Sign No. 4	Lump Sum	1				   
645.505	Remove and Reset Mainline Sign No. 5	Lump Sum	1				   
645.506	Remove and Reset Mainline Sign No. 6	Lump Sum	1				   
645.507	Remove and Reset Mainline Sign No. 7	Lump Sum	1				
645.508	Remove and Reset Mainline Sign No. 8	Lump Sum	1				
645.509	Remove and Reset Mainline Sign No. 9	Lump Sum	1				

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ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	
				Dollars	Cents	Dollars	Cents
	BROUGHT FORWARD:						
645.510	Remove and Reset Mainline Sign No. 10	Lump Sum	1				
645.511	Remove and Reset Mainline Sign No. 11	Lump Sum	1				
645.512	Remove and Reset Mainline Sign No. 12	Lump Sum	1				
645.513	Remove and Reset Mainline Sign No. 13	Lump Sum	1				   
645.514	Remove and Reset Mainline Sign No. 14	Lump Sum	1				
645.515	Remove and Reset Mainline Sign No. 15	Lump Sum	1				
645.516	Remove and Reset Mainline Sign No. 16	Lump Sum	1				
645.517	Remove and Reset Mainline Sign No. 17	Lump Sum	1				
645.518	Remove and Reset Mainline Sign No. 18	Lump Sum	1				
645.519	Remove and Reset Mainline Sign No. 19	Lump Sum	1				   
645.520	Remove and Reset Mainline Sign No. 20	Lump Sum	1				
645.521	Remove and Reset Mainline Sign No. 21	Lump Sum	1				

Item No	Item Description	Approx. Units Quantities		Unit Prices in Numbers	Unit Prices in Numbers		
		Q	Dollars	Cents	Dollars	Cents	
	BROUGHT FORWARD:						
645.522	Remove and Reset Mainline Sign No. 22	Lump Sum	1				
645.523	Remove and Reset Mainline Sign No. 23	Lump Sum	1				
645.524	Remove and Reset Mainline Sign No. 24	Lump Sum	1				
645.525	Remove and Reset Mainline Sign No. 25	Lump Sum	1				
645.526	Remove and Reset Mainline Sign No. 26	Lump Sum	1				
645.527	Remove and Reset Mainline Sign No. 27	Lump Sum	1				
645.528	Remove and Reset Overhead Mainline Sign No. 28	Lump Sum	1				
645.529	Remove and Reset Mainline Sign No. 29	Lump Sum	1				
650.101	Variable Message Sign (VMS) System - Holmes Road	Lump Sum	1				
650.102	Variable Message Sign (VMS) System - Crosby	Lump Sum	1				
650.201	VMS Ground Mounted Control Cabinet - Holmes Road	Each	1				
650.202	VMS Ground Mounted Control Cabinet - Crosby	Each	1				

Item	Itom Description	Approx.		Unit Prices in Numbers		Bid Amount in Numbers	
INO	o nem Description Onits		Dollars	Cents	Dollars	Cents	
	BROUGHT FORWARD:						
650.801	VMS Power System - Holmes	Lump Sum	1				   
650.802	VMS Power System - Crosby	Lump Sum	1				
652.30	Flashing Arrow	Each	6				   
652.312	Type III Barricades	Each	23				   
652.33	Drum	Each	770				
652.332	Drum, Left In Place	Each	50				
652.34	Cone	Each	300				     
652.35	Construction Signs	Square Foot	5,400				   
652.361	Maintenance of Traffic Control Devices	Lump Sum	1				   
652.41	Portable Changeable Messag e Sign	Each	7				
652.44	Pace Vehicle	Calendar Day	250				
652.45	Truck Mounted Attenuator	Calendar Day	2,730				

ltem No	Item Description	Units	Approx. Quantities	Unit Prices in Numbers		Bid Amount in Numbers	-
				Dollars	Cents	Dollars	Cents
	BROUGHT FORWAR						
652.47	Sequential Flashing Warning Lights	Each	100				
652.452	Automated Trailer Mounted Speed Limit Sign	Each	7				
656.50	Baled Hay, In Place	Each	30				
656.60	Temporary Berms	Linear Foot	165				   
656.62	Temporary Slope Drains	Linear Foot	138				
656.632	30 Inch Temporary Silt Fence	Linear Foot	26,300				
659.10	Mobilization	Lump Sum	1				
673.01	Stormwater Soil Filter Bed	Cubic Yard	1,030				     
674.10	Prefabricated Concrete Modular Gravity Wall - Red Brook	Lump Sum	1				
674.10	Prefabricated Concrete Modular Gravity Wall - Long Creek	Lump Sum	1				
801.03	Test Pits	Each	10			_	
				тс	DTAL:		





![](_page_25_Figure_0.jpeg)

# SPECIAL PROVISION

# **DIVISION 401**

#### HOT MIX ASPHALT PAVEMENTS

#### (Asphalt Rich Base Mixture)

Section 401 of the Maine Turnpike Authority 2016 Supplemental Specification is modified as follows:

#### 401.01 Description

The Contractor shall furnish and place one or more courses of Asphalt Rich Base Hot Mix Asphalt (ARBHMA) on an approved base in accordance with the contract documents and in reasonably close conformity with the lines, grades, thickness, and typical cross sections shown on the plans or established by the Resident. The Department will accept this work under Quality Assurance provisions, in accordance with these specifications and the requirements of Section 106 – Quality, the provisions of AASHTO M 323 except where otherwise noted in sections 401 and 703 of these specifications, and the Maine DOT Policies and Procedures for HMA Sampling and Testing.

#### 401.02 Materials

This section has been modified with the following revision:

The Asphalt Rich Base HMA shall be designed for an Air Void Target of 2.5% at 65 Gyrations.

#### 401.03 Composition of Mixtures

This section has been modified with the following revision: The Asphalt Rich Base HMA shall meet the following design criteria.

# DESIGN CRITERIA

Gradation	PGAB Minimum
9.5mm mixture	7.0 %
12.Smm mixture	6.5 %
19.0mm mixture	5.8 %

The mixture shall meet the gradation requirements of a current MaineDOT approved 9.5mm, 12.5mm, or 19.0mm 65 Gyration JMF, as required by the contract, and the minimum PGAB content noted above. The Acceptance Limit targets for gradation will be as specified on the JMF.

Property	USL and LSL
Passing 4.75 mm and larger sieves	Target+/-7%
Passing 2.36 mm to 1.18 mm sieves	Target +/-4%
Passing 0.60 mm	Target +/-3%
Passing 0.30 mm to 0.075 mm sieve	Target +/-2%
PGAB Content	Target +/-0.4%
Air Voids	2.5% +/-1.5%
Fines to Effective Binder	0.4 to 1.2
Voids in the Mineral Aggregate	LSL Only from Table 1
Voids Filled with Binder	72 -87.0 *
% TMD (In place density)	96.0% +/- 2.5%

# ACCEPTANCE LIMITS

\*A production tolerance of 4.0% will apply for the USL.

# 401.21 Method of Measurement

The following replace the pay tables in section 401.21

CORE DENSITY VS. CORE THEORETICAL MAXIMUM DENSITY				
COMPACTION 93.5-98.5 PERCENT				
PERCENT COMPACTION	PERCENT PAYMENT			
93.5 - 98.5	100			
92.5-93.4, 98.6 - 99.0	95			
92.4-91.5, 99.1 – 99.5	85			
<91.5, > 99.5 75				
Note: Percent compaction is the percentage of the field core density as compared to the				
Theoretical Maximum Density (TMD) of that core				

# AIR VOIDS – 1.0 – 4.0 PERCENT

VOIDS	PAYMENT PERCENT		
1.0 to 4.0	100		
0.5-0.9, 4.1-4.5	90		
<0.5, >4.5	75		
Note: Voids are based on the average of the test specimens fabricated at the plant for each sublot			

<u>Note</u>: Voids are based on the average of the test specimens fabricated at the plant for each sublot (500 tons).

Payment for PGAB content shall be based on the JMF aim with an allowable production tolerance of +/-0.4% except that test results which fall below the minimum PGAB content shall not be permitted:

Gradation	PGAB Minimum
9.5mm mixture	7.0 %
12.Smm mixture	6.5 %
19.0mm mixture	5.8 %

9.5 mm Asphalt Rich Base PGAB CONTENT			
% PGAB	% PAYMENT		
JMF Aim $\pm 0.4$	100		
JMF Aim + 0.5 , - 0.5 , < 7.0	95		
JMF Aim + 0.6 , - 0.6 , < 6.9	90		
JMF Aim + 0.7 , - 0.7 , < 6.8 85			
Note: PGAB content is based on samples tested at the plant for each 500 Ton sublot			

12.5 mm Asphalt Rich Base PGAB CONTENT									
% PGAB % PAYMENT									
JMF Aim $\pm 0.4$	100								
JMF Aim + 0.5 , - 0.5 , < 6.5	95								
JMF Aim + 0.6 , - 0.6 , < 6.4	90								
JMF Aim + 0.7 , - 0.7 , < 6.3	85								
Note: PGAB content is based on sample	es tested at the plant for each 500 Ton sublot								

19.0 mm Asphalt Rich	Base PGAB CONTENT
% PGAB	% PAYMENT
JMF Aim $\pm 0.4$	100
JMF Aim + 0.5 , - 0.5 , < 5.8	95
JMF Aim + 0.6 , - 0.6 , < 5.7	90
JMF Aim + 0.7 , - 0.7 , < 5.6	85
Note: PGAB content is based on samples	tested at the plant for each 500 Ton sublot

Payment will be made under:

Pay Item		<u>Pay Unit</u>
403.2102	9.5mm Asphalt Rich Base HMA	Ton
403.2132	12.5mm Asphalt Rich Base HMA	Ton
403.2072	19.0mm Asphalt Rich Base HMA	Ton

# SPECIAL PROVISION

#### SECTION 403

# HOT MIX ASPHALT PAVEMENT

Course	HMA	Item	Total	No. of	Complimentary
	Grading	Number	Thickness	Layers	Notes

# Northbound and Southbound Mainline and Shoulder Construction

Intermediate	12.5mm	403.2081	1.5"	1	A,D,E,I,J,K
Base	19.0mm	403.207	2.5"	1	C,I
Base	19.0 mm	403.2072	4.5"	2	D,I

#### Northbound and Southbound Median Construction

Intermediate	12.5mm	403.213	1.5"	1	C,I,
Base	19.0mm	403.207	2.5"	1	C,I

# Mainline – Ramp Prior to Merge with Mainline at Physical Gore

Intermediate	12.5mm	403.2081	1.5"	1	A,D,E,I,J,K
Intermediate	12.5mm	403.213	1.5"	1	C,I
Base	19.0mm	403.207	2.5"	3	C,I

# <u>Mainline – Mill & Overlay</u>

Intermediate	12.5mm	403.2081	1.5"	1	A,D,E,I,J,K
Intermediate	12.5mm	403.213	1.5"	1	C,I

#### COMPLEMENTARY NOTES

- A. The required PGAB for this mixture shall be 64E-28.
- B. RAP may not be used.
- C. The Maine DOT will conduct the job mix verification. The aggregate qualities shall meet the design traffic level of 10 to <30 million ESALS for mix placed under this contract. Minimum and Maximum PGAB content limits from 401.21 shall not apply.
- D. The MTA will conduct the job mix verification. The aggregate qualities shall meet the design traffic level of 10 to <30 million ESALS for mix placed under this contract. The design verification, Quality Control, and Acceptance tests for this mix will be performed at **75 gyrations**. (N design)
- E. A material transfer vehicle (MTV) shall be used for the placement of Hot Mix Asphalt wearing surface on all roadways including acceleration and deceleration lanes and all ramps.

- F. Joints shall be constructed as the "notched wedge" type in accordance with Subsection 401.17.
- G. Joint density will be measured in accordance with Subsection 401.165.
- H. PGAB shall conform to the provisions of 403.02 Polymer Modified PGAB for HMA
- I. The contractor shall furnish a quality control technician equipped with an approved densometer to ensure density requirements are met.
- J. Hydrated Lime shall be incorporated into the mixture.
- K. The antistrip additive Zycotherm manufactured by Zydex Industries shall be incorporated into the PGAB at a rate of 0.1%.

# SPECIAL PROVISION

# SECTION 403

# HOT MIX ASPHALT PAVEMENT

#### 403.01 Description

This work shall also consist of the construction, maintenance and removal of all temporary bituminous ramps at locations as shown on the Plans or as directed by the Resident.

#### 403.02 General

The Contractor shall compose the Hot Mix Asphalt Pavement with aggregate, Performance Graded Asphalt Binder (PGAB), and mineral filler if required. The Performance Graded Asphalt Binder (PGAB) shall be polymer modified as detailed in this special provision and shall conform to the requirements of AASHTO M 332 (including Appendix 1). The PG64E-28 Binder shall contain a minimum of 2.25% Styrene-Butadiene-Styrene (SBS) polymer {BWT} in a homogeneous blend with a minimum average percent recovery of 75% as determined by AASHTO T350 @ 3.2 kPA (R3.2) on RTFO residue at 64°C to assure significant polymer load and performance. The stability of the modified binder shall be verified in accordance with ATSM D7173 using the Dynamic Shear Rheometer (DSR). The DSR G\*/sin( $\delta$ ) results from the top and bottom sections of the ATSM D7173 test shall not differ by more than 10%. The results of ASTM D7173 shall be included on the Certified Test Report.

When required PG70E-34 Binder shall be modified with Styrene-Butadiene-Styrene (SBS) polymer {BWT} in a homogeneous blend with a minimum average percent recovery of 75% as determined by AASHTO T350 @ 3.2 kPA (R3.2) on RTFO residue at 70°C to assure significant polymer load and performance. The stability of the modified binder shall be verified in accordance with ATSM D7173 using the Dynamic Shear Rheometer (DSR). The DSR G\*/sin( $\delta$ ) results from the top and bottom sections of the ATSM D7173 test shall not differ by more than 10%. The results of ASTM D7173 shall be included on the Certified Test Report.

# 403.03 Construction

All areas which have been milled or overlaid shall have a minimum length temporary ramp constructed as determined by the Resident at the milled or overlaid limits prior to opening the roadway to traffic. Temporary ramps shall be constructed using the same material as being placed on that day or as directed by the Resident. All temporary ramps are to be constructed on a sand joint. The Contractor shall be responsible for all repairs and maintenance required for the temporary ramps.

The Contractor shall be responsible for the layout of the longitudinal centerline between the travel lanes.

The sand and loose debris adjacent to the median guardrail shall be removed and disposed of by the Contractor off of Turnpike property.

The forty-five degree pavement safety edge needed between lanes 1 and 2 shall be incidental to the 202 pay items.

A minimum test strip of 100 tons placed at a nominal depth of 1 ½ inches, full lane width, shall be required. It shall be evaluated under testing requirements for mix volumetric and density. The exact location will be identified by the Authority. Prior to placement of the test strip, a leveling course (Item 403.211) shall be placed at the chosen location. A fog coat of Item 409.15, Bituminous Tack Coat, shall be applied to the level course prior to the placement of the HMA surface course, payment to be made under the 409.15 pay item. The test strip will be excluded from the remainder of the projects' QA analysis. The Contractor shall notify the Authority at least 48 hours in advance of placing the test strip. The test strip is intended to allow the Contractor to establish a method of compaction and adjust plant settings prior to mainline plant production.

#### 403.04 Method of Measurement

The construction and removal of temporary ramps on sand joints, and maintaining the ramps will not be measured separately for payment, but shall be incidental to Items 403.

The removal of sand and loose debris will not be measured separately for payment, but shall be incidental to paving items.

Hot Mix Asphalt, 12.5 mm (Polymer Modified pavement with (up to) 15% RAP, placed as a wearing surface will be measured under Item 403.2081 Hot Mix Asphalt, 12.5 mm (Polymer Modified) - RAP.

#### 403.05 Basis of Payment

Hot Mix Asphalt, 12.5 mm (Polymer Modified) pavement with (up to) 15% RAP, placed as a wearing surface will be paid under Item 403.2081 Hot Mix Asphalt, 12.5 mm (Polymer Modified) – RAP.

The following pay items are added:

Pay Item		<u>Pay Unit</u>
403.2081	Hot Mix Asphalt, 12.5 mm (Polymer Modified) – RAP	Ton

# SPECIAL PROVISION SECTION 639 ENGINEERING FACILITIES

Section 639, Engineering Facilities is deleted in its entirety and replaced with the following:

<u>639.01 Description</u> The Work shall consist of providing, erecting, lighting, equipping and maintaining a temporary Class A-P field office (facility) at the Crosby MTA maintenance yard, at mile marker 45.8 south bound for a period of 6(six) months.

<u>639.02 Materials and Submittals</u> Materials for the facility shall be of good quality customarily used in a standard frame house or office trailer construction.

<u>639.03 General</u> The temporary facility of the type called for shall be provided before the start of work, and shall remain for a period of six months The location shall be approved by the Resident.

A fire extinguisher shall be provided in each facility for electrical and chemical fires and effective on all solvents used in the facility.

Walls, roof, floor, windows, and doors shall be tightly constructed to the required area.

Furnishings shall be supplied as called for. Doors shall be equipped with locks and all keys shall be in the possession of the Resident. Windows shall be equipped with latches so they may be locked on the inside. Window screens and screen doors shall be supplied when necessary. Adequate desk and desk space shall be provided. If a portable table is supplied, it should be adjustable to accommodate the various heights of employees. A proper office chair that is 5-way adjustable is needed.

<u>639.04 Field Office</u> The walls, roof, and floor of the building shall be completely insulated with a minimum insulation value of R-15. The interior walls shall be covered with suitable wall paneling. The entire office trailer shall be for the exclusive use of the Resident. The office trailer shall be winterized and completely enclosed at the bottom, if the trailer will be used in cold weather.

A public work area will be provided in the field office that shall be designed and constructed so that individuals with disabilities can approach, enter, and exit this area.

The minimum clear width of an accessible route shall be 36 inches except at doors.

Ground floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, and slip-resistant.

The main door to the public work area shall have a minimum clear opening of 32 inches with the door opened 90 degrees, measured between the face of door and the opposite stop.

Minimum maneuvering clearances at doors shall be provided. The floor or ground area within the required clearances shall be level and clear.

The handle and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping. Lever-operated mechanisms push type mechanisms, and U-shaped handles are acceptable designs. Hardware required for accessible door passage shall be mounted no higher than 48 inches above finished floor.

Firm and sturdy steps shall also be provided with 7-inch maximum riser and 11-inch minimum depth, and at least one handrail extending from the top of the steps to a minimum 12 inches beyond the bottom of the steps. Provide a platform at the top of the steps where they meet the exterior door. All components of the steps, railings, and landing shall be pre-engineered and constructed of aluminum.

In addition to the facilities previously specified in this subsection, each field office shall meet the following minimum requirements:

Description	<u>Quantity</u>
	Type A-P
Floor Area (Outside Dimension) - ft <sup>2</sup>	450
Inside Wall Height – feet	7
Window Area - $ft^2$	55
Drafting Table Surface Area - ft <sup>2</sup>	15
Drafting Stools - each	2
Office Desks - each	2
Ergonomic Swivel Chairs -ea (5-way adjustable)	3
Folding Chairs - each	6
Lighting Units - each	4
Electric Wall Outlets - each	8
Electrical Surge Protectors - each	2
Wall Closets - each	1
Plan Rack for minimum of 6 sets of plans	1
Plastic Folding Tables (3' by 8')	3
Wastebaskets - each	2

All windows shall be provided with shades or blinds.

The toilet facility shall be for the exclusive use of Authority personnel. Toilet facilities shall be portable, maintained by the contractor, and the Contractor shall retain ownership of them at the end of the project.

The Resident will have the option to reject any furniture or supplies provided to the field office based on general condition.

One hundred ten volt, 60 cycle, continuous electric service shall be supplied for lighting and 15-amp duplex wall outlets. Lighting shall consist of LED light units with rapid start bulbs located over the work areas for a minimum of 50 foot candles overall. There shall be wall-mounted exterior lights at each exterior doorway.

Drafting surfaces shall be 40 inches above the floor and be capable of folding nearly flat up against the wall when not in use. Shelves for plans and rolls shall also be furnished overhead. Drafting stools shall be approximately 28 inches high.

Desks shall be single or double pedestal standard office type, and shall be in addition to "built-in" type desks in the office trailer.

The office shall have three total rooms. Two offices, located one at each end of the facility, each with 80to 100 SF.

Field offices shall be furnished with 2 four-drawer letter size metal filing cabinet.

Each office shall be furnished with a broom, dustpan, sweeping compound, trash bags, and with cleaning material for cleaning glass. The contractor will be responsible for disposing of trash from the field office.

The Contractor shall provide a fully functional desktop copier/scanner, capable of copying field books, for the Resident's use during the project. All maintenance and supplies, except paper, shall be the responsibility of the Contractor.

The Contractor shall provide a water cooler, with hot and cold dispenser, and shall be responsible for supplying bottled water compatible with the water cooler to maintain a constant potable water supply for the duration of the project. All maintenance and supplies shall be the responsibility of the Contractor. Alternate source of water, such as individual bottled water, may be provided as approved by resident.

The Contractor shall provide new 10 cubic-foot refrigerator with top mounted freezer in the field office that the Authority will retain.

The contractor shall provide a new 1000-watt microwave with a minimum size of 1.0 cubic foot. The Authority will retain the microwave at the end of the project.

Each office shall be furnished with a 10-person general-purpose first aid kit. The first aid kit shall be periodically inspected and refilled as necessary.

<u>639.08 Heat and Air Conditioning</u> Heat and air conditioning shall be an integral HVAC system. Each room shall have venting as required to maintain an acceptable room temperature during occupancy. All vent piping shall be insulated and be mounted behind the walls or ceiling as appropriate. One thermostat shall control all heating and cooling.

<u>639.091 Broadband Connection</u> In addition the contractor will supply one computer broadband connection, modem lease and router. The router shall have wireless access and be 802.11n or 802.11g capable and wireless. The type of connection supplied will be contingent upon the availability of services (i.e. DSL or Cable Broadband). The selected service will have a minimum downstream connection of 10Mbps, 5 Mbps upstream, and allow for unlimited data. The contractor shall be responsible for the installation charges and all reinstallation charges following suspended periods. Monthly service and maintenance charges shall be billed by the Internet Service Provider (ISP) directly to the contractor.

<u>639.10 Method of Measurement</u> Field office will be measured by the lump sum for facilities provided, equipped and maintained satisfactorily.

<u>639.11 Basis of Payment</u> The accepted quantity of field office will be paid for lump sum which payment shall be full compensation for furnishing, erecting, equipping, maintaining, furnishing electricity, heating, installing and maintaining toilet facilities, and removing the temporary facility.

Payment for these items will be made in 4 parts; the first payment of <sup>1</sup>/<sub>4</sub> to be made after the Contractor has delivered and connected the temporary office trailer to the Crosby Maintenance facility, and it has been approved. The remaining payments shall be made at intervals as follows:

A second payment of <sup>1</sup>/<sub>4</sub> shall be made when the Authority has approved the submittal for the permanent facility and the remain payments prorated over the 6 month duration.

Payment will be made under:

Pay Item

Pay Unit

639.181 Field Office, Type A-P

Lump Sum

		ESTIMATED QUAN	ITITIES						ר ר	ESTI	MATED QUANTITIES	5				—
	TEM NO.	DESCRIPTION	EXIT 44 NORTHBOUND OFF RAMP	NORTHBOUND BARREL	MEDIAN	SOUTBOUND BARREL	TOTAL QUANTITY	UNIT	ITEM NC	DESCRIPTION	EXIT 44 NORTHBOUN OFF RAMP	D NORTHBOUND BARREL	MEDIAN	SOUTBOUND BARREL	TOTAL QUANTITY	. U
	201.11	CLEARING REMOVING SINCLE TREE TOR ONLY	0.6	2.0		3.5	6./	AC	604.40	SECURE CATCH BASIN GRATE		5	2	2 350	9	E
	201.23	REMOVING STUDEL THEE TO ONE		5		2	7	EA	605.0/8	8 INCH PVC UNDERDRAIN		240		3/0	550	+
	202,12	REMOVING EXISTING STRUCTURAL CONCRETE		7		7	14	СҮ	605.09	6 INCH UNDERDRAIN TYPE B			5,800		5,800	1
	202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN		6	4/	4	5/	EA	605.//	12 INCH UNDERDRAIN TYPE C			5,300		5,300	l
	202.202	REMOVING PAVEMENT SURFACE	3,750	2,550		3,650	9,950	SY	605./2	15 INCH UNDERDRAIN TYPE C	177		2,900		2,900	<u></u>
	202,206	COMMON EXCAVATION	6,600 8,000	41900	27 200	7,000	8,600 148,700		605.13	24 INCH UNDERDRAIN TYPE C	137		1,400		1,537 80	
	03.21	ROCK EXCAVATION	0,100	2,300	170	10,900	/3,370	CY	606./30/	3/"W BEAM GUARDRAIL - MID-WAY SPLICE		1,100	00	1,650	2,850	+
Line	)3.2//	PRESPLITTING ROCK				4,440	4,440	LF		(7' STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)						
Structure         Structure <t< td=""><td>)3.25</td><td>GRANULAR BORROW</td><td>4,300</td><td>12,700</td><td></td><td>20,400</td><td>37,400</td><td>CY</td><td>606./307</td><td>3/"W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMI</td><td>IAL I</td><td>4</td><td></td><td>3</td><td>8</td><td>+</td></t<>	)3.25	GRANULAR BORROW	4,300	12,700		20,400	37,400	CY	606./307	3/"W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMI	IAL I	4		3	8	+
	3.33	SPECIAL FILL		36		18	54		606./32	3"W BEAM GUARDRAIL - MID-WAY SPLICE			340		340	
Image: Control of the contro	3.52	LIGHIWEIGHI FILL IOW PERMEARIITY FILI		290		550	290		606 1351	3"W-REAM GUARDRAIL - MID-WAY SPLICE		3		2	5	+
N         N	4.10	AGGREGATE SUBBASE COURSE - GRAVEL	1.850	6.950	10.600	9,700	29.100	CY		TERMINAL END - ANCHORED END		5		2	5	
Image: An or and a state and a	4.14	AGGREGATE BASE COURSE - TYPE A	1,650	4,800	6,850	6,650	19,950	CY	606.1723	BRIDGE TRANSITION - TYPE III		3		2	5	
All of the strategy of the str	3.207	HOT MIX ASPHALT, 19.0 MM NOMINAL MAXIMUM SIZE	1,400	4,300	6,400	5,950	18,050	TON	606,1724	BRIDGE TRANSITION - TYPE 111, MODIFIED	1		1		2	
Construction	3.2072	19.0MM ASPHALT RICH BASE HMA	1,950	7,800	$\frown$	9,900	19,650	FOR	606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	3	7		6	16	_
Control         Control <t< td=""><td><u>7.208</u>/</td><td>HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (POLYMER MODIFIE)</td><td>D) *1,150 *</td><td><u>* 2,850</u></td><td><u> </u></td><td>3,900</td><td>7,900</td><td>TON</td><td>A 606.356</td><td>UNDERDRAIN DELINEATOR POST</td><td>29</td><td>49</td><td></td><td>49</td><td>127</td><td>+</td></t<>	<u>7.208</u> /	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (POLYMER MODIFIE)	D) *1,150 *	<u>* 2,850</u>	<u> </u>	3,900	7,900	TON	A 606.356	UNDERDRAIN DELINEATOR POST	29	49		49	127	+
	5.213	HOI MIX ASPHALI, 12.5 MM NOMINAL MAXIMUM SIZE	0	270	3,600	210	4,080	IN	606.3561	DELINEATOR POST-REMOVE AND RESET	8	94		100	202	+
No.         No. <td></td> <td>BASE AND INICERMEDIATE BASE LOURSED</td> <td></td> <td>3700</td> <td>And</td> <td>And</td> <td>AT AFO</td> <td>GN</td> <td>606.3603</td> <td>GUARDRAIL - REMOVE, MODIFI AND RESET SINGLE RAIL</td> <td></td> <td>100</td> <td>18.000</td> <td>1100</td> <td>20,250</td> <td>+</td>		BASE AND INICERMEDIATE BASE LOURSED		3700	And	And	AT AFO	GN	606.3603	GUARDRAIL - REMOVE, MODIFI AND RESET SINGLE RAIL		100	18.000	1100	20,250	+
Der Umster Ausgeber Langer 10         Too         Door         Door <thdoor< th="">         Door         Door         <t< td=""><td>30</td><td>SAWING BITUMINOUS PAVEMENT</td><td>3.200</td><td>12.500</td><td>31.000</td><td>13.225</td><td>59.925</td><td>LF</td><td>607.17</td><td>CHAIN LINK FENCE - 6 FOOT</td><td></td><td>820</td><td>10,000</td><td>1,100</td><td>820</td><td>+</td></t<></thdoor<>	30	SAWING BITUMINOUS PAVEMENT	3.200	12.500	31.000	13.225	59.925	LF	607.17	CHAIN LINK FENCE - 6 FOOT		820	10,000	1,100	820	+
Abs         Abs <td>28</td> <td>BERM DROPOFF CORRECTION - GRINDINGS</td> <td>150</td> <td>250</td> <td></td> <td>250</td> <td>650</td> <td>TON</td> <td>6/0.08</td> <td>PLAIN RIPRAP</td> <td>/3</td> <td>385</td> <td></td> <td>214</td> <td>6/2</td> <td></td>	28	BERM DROPOFF CORRECTION - GRINDINGS	150	250		250	650	TON	6/0.08	PLAIN RIPRAP	/3	385		214	6/2	
0             0	31	DYNAMIC LOADING TEST			1	1	2	EA	610.18	STONE DITCH PROTECTION		400		/30	530	1
No. 1002/00         No. 2002	50	STEEL H-BEAM PILES 89 LB/FT, DELIVERED			1,100	660	1,760	LF	610,181	TEMPORARY STONE CHECK DAM	93	210		320	623	1
No.         No. <td>501</td> <td>STEEL H-BEAM PILES 89 LB/FT, IN PLACE</td> <td></td> <td></td> <td>1,100</td> <td>660</td> <td>1,760</td> <td>LF</td> <td>6/3.3/9</td> <td>EROSION CONTROL BLANKET</td> <td>1,450</td> <td>17,100</td> <td></td> <td>28,400</td> <td>46,950</td> <td>4</td>	501	STEEL H-BEAM PILES 89 LB/FT, IN PLACE			1,100	660	1,760	LF	6/3.3/9	EROSION CONTROL BLANKET	1,450	17,100		28,400	46,950	4
Normality         Normality <t< td=""><td></td><td>PILE TIPS DUE SPLICES</td><td></td><td></td><td>10</td><td>6</td><td>16</td><td>EA</td><td>6/5.07</td><td>LUAM</td><td>/,300</td><td>4,060</td><td></td><td>6,030</td><td>//,390</td><td>4</td></t<>		PILE TIPS DUE SPLICES			10	6	16	EA	6/5.07	LUAM	/,300	4,060		6,030	//,390	4
Direct Viersensen         Oper Vie	<i>1</i>	TILE STLICES RILE DRIVING FOUTPMENT AND MODILIZATION			10	6	/6	LA	618.14	SEEDING METHUD NUMBER Z	105	<u> </u>		49/	928 25	+
Normality         Applied Set all         The set of all of	202	CUIVERT SLIPINING		0.5	0.9	0.5	/ /	15	619 1201	MUICH - PLAN QUANTITY	105	320		470	20 895	+
Procession         Process	71	COFFERDAM - RED BROOK NB		/		0.5	1	LS	6/9./202	TEMPORARY MULCH	100	PROJECT	QUANTITY		/	-
C         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdisplay< td=""><td>72</td><td>COFFERDAM - RED BROOK SB</td><td></td><td>-</td><td></td><td>1</td><td>1</td><td>LS</td><td>620.56</td><td>DRAINAGE GEOTEXTILE</td><td></td><td>1,400</td><td></td><td>1,800</td><td>3,200</td><td>-</td></thdisplay<></thdisplay<></thdisplay<>	72	COFFERDAM - RED BROOK SB		-		1	1	LS	620.56	DRAINAGE GEOTEXTILE		1,400		1,800	3,200	-
Image: Instrume Long Difference and Differe	73	COFFERDAM - LONG CREEK NB		1			1	LS	620.56/	IMPERVIOUS LINER		1,350		1,800	3,150	
Normality         Normality <t< td=""><td>74</td><td>COFFERDAM - LONG CREEK SB</td><td></td><td></td><td></td><td>/</td><td>1</td><td>LS</td><td>620.58</td><td>EROSION CONTROL GEOTEXTILE</td><td>26</td><td>1,480</td><td></td><td>640</td><td>2,146</td><td></td></t<>	74	COFFERDAM - LONG CREEK SB				/	1	LS	620.58	EROSION CONTROL GEOTEXTILE	26	1,480		640	2,146	
Image: Construction, construct with the construct         Goal         Goal <t< td=""><td>9/</td><td>TEMPORARY EARTH SUPPORT SYSTEM</td><td>/</td><td></td><td></td><td></td><td>/</td><td>LS</td><td>620.60</td><td>SEPARATION GEOTEXTILE</td><td></td><td></td><td></td><td>7,000</td><td>7,000</td><td>4</td></t<>	9/	TEMPORARY EARTH SUPPORT SYSTEM	/				/	LS	620.60	SEPARATION GEOTEXTILE				7,000	7,000	4
Image: Construction of the construction of	19	SLUPE PROTECTION - PORTLAND CEMENT CONCRETE	102	160		290	552	SY	626./22	QUAZIFE JUNCTION BOX (I8XII)	20	10		17	47	4
Date         Date <th< td=""><td>10</td><td>LURING BUX FUR LUNURETE L'ILINDERS PIGMENTED PROTECTIVE CONTING FOR CONCRETE SUREACES</td><td></td><td>0,5</td><td>20</td><td>0.5</td><td>20</td><td>EA SY</td><td>626.22</td><td>NUN-METALLIC CUNDULI HORIZONTAL DIRECTIONAL DRILLED CONDULT</td><td>3,150</td><td>1,050</td><td></td><td>2,350</td><td>6,55U 250</td><td>+</td></th<>	10	LURING BUX FUR LUNURETE L'ILINDERS PIGMENTED PROTECTIVE CONTING FOR CONCRETE SUREACES		0,5	20	0.5	20	EA SY	626.22	NUN-METALLIC CUNDULI HORIZONTAL DIRECTIONAL DRILLED CONDULT	3,150	1,050		2,350	6,55U 250	+
■         #         #	202	CIFAR PROTECTIVE COATING FOR CONCRETE SURFACES		45	20	65	110	SY SY	626.31	IS INCH DIAMETER FOUNDATION	250				250	+
Date         Date <thdate< th="">         Date         Date         <thd< td=""><td>50</td><td>REPAIR OF VERTICAL SURFACES &lt; 8 INCHES</td><td>   </td><td></td><td>150</td><td>1</td><td>150</td><td>SF</td><td>626.32</td><td>24 INCH DIAMETER FOUNDATION</td><td>16</td><td>12</td><td></td><td>18</td><td>46</td><td>+</td></thd<></thdate<>	50	REPAIR OF VERTICAL SURFACES < 8 INCHES			150	1	150	SF	626.32	24 INCH DIAMETER FOUNDATION	16	12		18	46	+
Date         Product Concert	301	TEMPORARY CONCRETE BARRIER, TYPE I	3,050	13,400	450	14,700	31,600	LF	626.33	30 INCH DIAMETER, 8 FEET OR LESS FOUNDATION		4		3	7	
State       Description       60 <td>306</td> <td>TEMPORARY CONCRETE BARRIER, TYPE I-SUPPLIED BY MTA (7,000 LF</td> <td>-)</td> <td>PROJECT</td> <td>QUANTITY</td> <td></td> <td>1</td> <td>LS</td> <td>626.332</td> <td>30-INCH DIAMETER, GREATER THAN 8-FEET LONG,</td> <td></td> <td>19</td> <td></td> <td>5</td> <td>24</td> <td>1</td>	306	TEMPORARY CONCRETE BARRIER, TYPE I-SUPPLIED BY MTA (7,000 LF	-)	PROJECT	QUANTITY		1	LS	626.332	30-INCH DIAMETER, GREATER THAN 8-FEET LONG,		19		5	24	1
metal Medicini - The A (BRO) (5)         i<	307	CONCRETE BARRIER TYPE I- STORMWATER FILTER		60		60	120	LF		ALL 36 INCH AND 42 INCH DIAMETER FOUNDATIONS						$\downarrow$
Instrume dependent - instrum	35/	MEDIAN BARRIER - TYPE A (11,250 LF)			1		/	LS	626.38	GROUND MOUNTED CABINET FOUNDATION		/	-	/	2	4
and       Bit of the second seco	.352	MEDIAN BARRIER - TYPE B (3,575 LF)			/		/	LS	626.70/	VMS FOUNDATIONS - CROSBY	10,100	/	77.000	07 700	/	+
Service         Dur         0.48         1         0.46         1.00 <th1< td=""><td>353</td><td>MEDIAN BARRIER - TYPE C (280 LF) MEDIAN BARRIER - TYPE D (1550 LE)</td><td></td><td></td><td>/</td><td></td><td>/</td><td>LS</td><td>627.73</td><td>WHITE UR YELLUW PAVEMENT MARKING LINE</td><td>10,100</td><td></td><td></td><td>93,300</td><td>256,900</td><td>+</td></th1<>	353	MEDIAN BARRIER - TYPE C (280 LF) MEDIAN BARRIER - TYPE D (1550 LE)			/		/	LS	627.73	WHITE UR YELLUW PAVEMENT MARKING LINE	10,100			93,300	256,900	+
See         The C         Num         Out         2         0         2 <th2< th="">         2         2         <th2< td=""><td>355</td><td>EARTH RETAINING BARRIER (882.5 / E)</td><td>012</td><td>0.48</td><td>1</td><td>0.40</td><td>100</td><td>15</td><td>627.731</td><td>TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE</td><td></td><td>PROJECT</td><td>OLIANTITY</td><td></td><td>2,000</td><td>+</td></th2<></th2<>	355	EARTH RETAINING BARRIER (882.5 / E)	012	0.48	1	0.40	100	15	627.731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE		PROJECT	OLIANTITY		2,000	+
Site       Type D       Transfittom parentee       Display       Site	.362	TYPE C TRANSITION BARRIER	0.72	0.10	2	0.10	2	EA	627.77	REMOVING EXISTING PAVEMENT MARKING	2.850	23.000		18.000	43.850	+
Bit         Direct representation         Fill         Fill<	363	TYPE D TRANSITION BARRIER			12		12	EA	627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	18,500	//6,000		96,000	230,500	†
State       Juncolant       J       I       <	364	OHSS FOUNDATION TRANSITION BARRIER			6		6	EA	629.05	HAND LABOR, STRAIGHT TIME		PROJECT	QUANTITY		230	
366       GUARDARIAL TRANSITION BARRIER       I       3       2       6       5.0         367       WORK 200E CRASH USKNOWS -TK-3       I       8       8       7       9       900K       200K       200K       1       2       6       5.0       90K       90K       200K       200K <td>365</td> <td>MEDIAN GUARDRAIL TRANSITION BARRIER</td> <td></td> <td></td> <td>1</td> <td></td> <td>/</td> <td>EA</td> <td>631.10</td> <td>AIR COMPRESSOR (INCLUDING OPERATOR)</td> <td></td> <td>PROJECT</td> <td>QUANTITY</td> <td></td> <td>20</td> <td>_</td>	365	MEDIAN GUARDRAIL TRANSITION BARRIER			1		/	EA	631.10	AIR COMPRESSOR (INCLUDING OPERATOR)		PROJECT	QUANTITY		20	_
all work zone crash cusimus -11-3         i         8         8         77         WIT           30         WORK zone crash cusimus -11-3         1         2         3         WIT         55         15         50         0         1         2         3         WIT         200         Converte File         PROJECT Guartity         200         Converte         200         PROJECT Guartity         200         200         200         200         200	366	GUARDRAIL TRANSITION BARRIER	/	3		2	6	EA	631.//	AIR TOOL (INCLUDING OPERATOR)		PROJECT	QUANTITY		20	_
Day         Description         Constrainer         C	34/	WORK ZONE CRASH CUSHIONS - TL-3	/	8		8	17	UNIT	631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)		PROJECT	QUANTITY		230	_
Constraint         Constraint         Constraint         Constraint         Constraint         Product of	30	WURK ZUNE CRASH CUSHIUNS - IL-3 - LEFT IN PLACE		1		2	5		631.13	BULLDUZER (INCLUDING OPERATOR)		PRUJECT	QUANIIIY		200	4
Bit Note: Nature:         Dot         dec         Dot         dec	50   155	I LOWADLE CONCRETE FILL 12 INCH REINFORCED CONCRETE PIPE - CLASS III		35		560	930		631.14	TRUCK - SMALL (INCLUDING OPERATOR)		PRO IECT	QUANTITY		30 30	-
des       is inch. Reinfordez       concerter       pile       class       it       des       is       it       it<       it       it<       it< <th< td=""><td>59</td><td>IZ INCH CULVERT PIPE OPTION III</td><td></td><td>5,0</td><td>460</td><td></td><td>460</td><td>LF</td><td>631.172</td><td>TRUCK-LARGE (INCLUDING OPERATOR)</td><td></td><td>PROJECT</td><td>QUANTITY</td><td></td><td>200</td><td>-</td></th<>	59	IZ INCH CULVERT PIPE OPTION III		5,0	460		460	LF	631.172	TRUCK-LARGE (INCLUDING OPERATOR)		PROJECT	QUANTITY		200	-
TS       INCL. HE INFORCED. CONCRETE PIPE - CLASS. III.       BB       J.320       6       330       1/24       IF       IF<       IF<	65	IS INCH REINFORCED CONCRETE PIPE - CLASS III		150		25	175	LF	631.22	FRONT END LOADER (INCLUDING OPERATOR)		PROJECT	QUANTITY		230	1
Image: line Reinforce D concrete Pipe: -class III     230       200     440       201     200       200     440       201     30       201     30       201     440       201     30       201     30       201     30       201     30       201     30       201     440       201     30       201     440       201     30       201     440       201     21328       201     21328	175	INCH REINFORCED CONCRETE PIPE - CLASS III	88	1,320	6	330	1,744	LF	631.32	CULVERT CLEANER (INCLUDING OPERATORS)		PROJECT	QUANTITY		180	
2005       30       INCH REINFORCED CONCRETE PIPE - CLASS III       2/0       UF         2015       36       INCH REINFORCED CONCRETE PIPE - CLASS III       4/3         2025       36       INCH REINFORCED CONCRETE PIPE - CLASS III       4/3         2025       36       INCH REINFORCED CONCRETE PIPE - CLASS III       4/3         2025       36       INCH REINFORCED CONCRETE PIPE - CLASS III       4/4         2025       1       5/3       1       5/3         203       CONCRETE PIPE - CLASS III       2       1/3       1/4         203       INCH REINFORCED CONCRETE PIPE - CLASS III       4/4       4         203       CARCH BASIN TYPE BIC       2       3/2       1       2/1       6/4         204       INCH REINFORCED CONCRETE PIPE CLASS III       2       2/2       4/4       6/4       4/4         204       INCH REINFORCED CONCRETE PIPE CLASS IN AND MANHOLE       2       1/4       2/4       6/4	95	24 INCH REINFORCED CONCRETE PIPE - CLASS III		230		210	440	LF	631.36	FOREMAN		PROJECT	QUANTITY		230	_
Vert Helminokabu Councerter Prime - classs III       45       30       75       LF         225       42       Internivokabu Councerter Prime - classs III       56       56       10       64       5       11       64       6       5       11       66       6	205	30 INCH REINFORCED CONCRETE PIPE - CLASS III		210			210	LF	634.175	REPLACEMENT LED FIXTURE				/	1	_
222 Junch Treumonucle University Tree - CLASS III       30       30       30       3       4         30 To Inchreuting Columner Columner       6       5       1       6	215	36 INCH REINFORCED CONCRETE PIPE - CLASS III	_	45		30	75		634.208	REMOVE AND RESET LIGHT STANDARD	7	6			24	_
Control Logential Logenti	225	42 INCH KEINFUKCED CUNCKEIE PIPE - CLASS III CONCRETE COLLAR		56		5	56		634.2083	TEMPORARY HIGHWAY LIGHT	/			5	6	_
Image: Construction of the basin type Bi       2       13.25       7.25       22.375       EA         1	50	TA INCH REINFORCED CONCRETE PIPE CLASS - M		0		8	// 		634 231	CONVENTIONAL LIGHT STANDARD WITH LED FLYTURE	8	2		4	- 10	-
096       60° CATCH BASIN TYPE BI-C       1	09	CATCH BASIN TYPE BI	2	/3.25		7.125	22.375	EA	639.181	FIELD OFFICE, TYPE A-P	vvpvvv	0.5	$+ \cdots$	0.5	$\sim\sim\sim\sim\sim$	۲
IB       ADJUSTING MANHOLE OR CATCH BASIN TO GRADE       2       2       4       EA         IBE       CLEANING EXISTING CATCH BASIN AND MANHOLE       5       2       2       9       EA         IBE       CLEANING EXISTING CATCH BASIN TYPE F6       3       3       2       5         28       CATCH BASIN TYPE F6       3       3       2       5         26       2       2       9       EA       EA         28       CATCH BASIN TYPE F6       3       3       2       5         28       CATCH BASIN TYPE B5       3       3       42       5         NOT TO SCALE       Designed by:       NOT TO SCALE       HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, MC 04092       THE GOLD STAR MEMORIAL HIGHWAY       PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4         ISED QUANTITIES       DAM 3/20       CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.       THE GOLD STAR TAK (207) 7228-0909       THE GOLD STAR MEMORIAL HIGHWAY       ESTIMATED QUANTITIES (1 of 2)         Addendulfind2 PW/DEF       Addendulfind2 PW/DEF       Addendulfind2 PW/DEF       CONTRACT AND AREA TO THE ADD ADD ADD ADD ADD ADD ADD ADD ADD AD	096	60" CATCH BASIN TYPE BI-C			1		/	EA	645.105	REMOVE AND STACK SIGN	<u>mhida</u>	ANT TANK	$\mu$	priz v	$\overline{\gamma_{z}}$	<
B22       CLEANING EXISTING CATCH BASIN AND MANHOLE       5       2       2       9       EA         248       CATCH BASIN TYPE F6       3       36       3       42       EA         NOT TO SCALE       Designed by:       HNTB CORPORATION       36       36       3       42       EA         NOT TO SCALE       Designed by:       HNTB CORPORATION       SAFETY IMPROVEMENTS       MM 43.0 TO MM 46.4         ISED QUANTITIES       Date       By       Date       By       Date       By       Date       By       Date       Date       By       Date       Poate       Consultant PROject MANAGER: Date       Date       Date       By       Date       Date       Date       Poate       2/20         Image: Designed CAY       2/20       Checked TRS 2/20       2/20       Checked TRS 2/20       2/20       Checked TRS 2/20	8	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE		2		2	4	EA	645.109	REMOVE AND RESET SIGN	3			2	5	_
Designed       CANCH Basin TYPE F6       IIB       IIB       IIB       IIB       IIB       EA         26       CATCH BASIN TYPE B5       3       36       3       42       EA         NOT TO SCALE         Revision       By Date       Designed by:       NTB CORPORATION       Addenotifie 6-C       NOT CO SCALE       NOT TO SCALE       NOT TO SCALE       HNTB CORPORATION       Addenotifie 6-C       NOT CO SCALE       NOT TO SCALE       NOT T	82	CLEANING EXISTING CATCH BASIN AND MANHOLE		5	2	2	9	EA								1
Active Hasin TYPE B5       3       36       3       42       A         NOT TO SCALE       Designed by:       Image: Consultant Project Manager: Date A Mitchell, P.E.       Image: Consultant Project Parker Project Manager: Date A Mitchell, P.E.       Image: Consultant Project Parker Project Manager: Date A Mitchell, P.E.       Image: Consultant Project Parker Project Manager: Date A Mitchell, P.E.       Image: Consultant Project Parker Project Par	.48	CATCH BASIN TYPE F6			//8	<u> </u>	118	EA	-							
Image: CONSULTANT PROJECT MANAGER: Date A. Mitchell, P.E.     FAX (207) 228-0909       By     Date     By     Date       Designed     CAV     2/20       Checked     TRS     2/20       Addendum 52     Page 38	<u>ν</u> Λ	IOT TO SCALE  Revision By Date QUANTITIES DAM 3/20	TB		36 HNT 340 Cou Westb TEL	B CORPORATI nty Road, Su rook, ME 0 (207) 774-5	10N uite 6-C 4092 5155			THE GOLD STAR MEMORIAL HIGHWAY	P(	DRTLAND SAFETY MM 43. Imated	AREA IMPRC 0 TO	WIDENII DVEMEN MM 46	NG & TS .4	
Addendum 02 Page 88 Date 89 Date 89 Date 400 Addendum 02 Page 88 Addendum 02 Page 88		CONSULTANT PROJECT MANAGER: D	ale A. Mitchell, P.E.	D. L.	FAX	(207) 228-0	909	$ $ $\setminus$								
Addendum 02 Page 38		By Date	By	Date					$\cdot$					SHEE	L AUMBER:	:-
		Designed CAV 2/20 C	necked TRS	2/20			ļ					0.03		Addendumb	z Page 38`	

	ESTIMATED QUANTITIES	5					
ITEM NO	DESCRIPTION	EXIT 44 NORTHBOUND	NORTHBOUND BARREL	MEDIAN	SOUTBOUND BARREL	TOTAL QUANTITY	UNIT
645.1099	REMOVE AND DISPOSE SIGN	OFF RAMI	12		20	32	ΕA
645.12	OVERHEAD GUIDE SIGN: (STA 2/33+/4)				/	/	LS
645,161	BREAKAWAY DEVICE SINGLE POLE	2	3		5	10	ΕA
645,162	BREAKAWAY DEVICE MULTI POLE		//		4	/5	ΕA
645.25/	ROADSIDE GUIDE SIGN. TYPE I		950		430	1,380	SF
645.25//	SHEET ALUMINUM OVERLAY. TYPE I	288				288	SF
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN. TYPE I		350		/50	500	SF
645.289	STEEL H-BEAM POLES		7,650		3,950	//.600	LB
645.50/	REMOVE AND RESET MAINLINE SIGN NO. I		1			1	LS
645.502	REMOVE AND RESET MAINLINE SIGN NO. 2		1			1	LS
645.503	REMOVE AND RESET MAINLINE SIGN NO. 3		1			1	LS
645.504	REMOVE AND RESET MAINLINE SIGN NO. 4		1			1	LS
645.505	REMOVE AND RESET MAINLINE SIGN NO.5		1			1	LS
645.506	REMOVE AND RESET MAINLINE SIGN NO.6		1			,	15
645.507	REMOVE AND RESET MAININE SIGN NO.7		,			,	15
645,508	REMOVE AND RESET MAINLINE SIGN NO.8		,			,	15
645 509	REMOVE AND RESET MAINLINE SIGN NO.9		, ,			,	15
645 510	REMOVE AND RESET MAINLINE SIGN NO 10		, ,			,	1.5
645 5//	REMOVE AND RESET MAINLINE SIGN NO. 1		,			,	/ 5
645 512	REMOVE AND RESET MAINLINE SIGN NO.12		, ,			, ,	15
645 513	REMOVE AND RESET MAINLINE SIGN NO.13		/		1	/	15
645 514	REMOVE AND RESET MAINLINE SIGN NO.13				1	,	15
645 515	REMOVE AND RESET MAINLINE SIGN NO.15				/	/	15
645.515	REMOVE AND RESET MAINLINE SIGN NO.15				/	/	LS
645.5/6	REMOVE AND RESET MAINLINE SIGN NO.10				/	/	LS
645.511	REMOVE AND RESET MAINLINE SIGN NU. 17				1	1	LS
645.5/8	REMOVE AND RESET MAINLINE SIGN NO.18				1	/	LS
645.5/9	REMOVE AND RESET MAINLINE SIGN NO. 19				1	/	LS
645,520	REMOVE AND RESET MAINLINE SIGN NO. 20				/	/	LS
645,521	REMOVE AND RESET MAINLINE SIGN NO. 21				/	/	LS
645.522	REMOVE AND RESET MAINLINE SIGN NO.22				1	/	LS
645.523	REMOVE AND RESET MAINLINE SIGN NO. 23				1	/	LS
645.524	REMOVE AND RESET MAINLINE SIGN NU. 24				/	/	LS
645.525	REMOVE AND RESET MAINLINE SIGN NO. 25				/	/	LS
645.526	REMOVE AND RESET MAINLINE SIGN NO. 26				1	/	LS
645.527	REMOVE AND RESET MAINLINE SIGN NO. 27				/	/	LS
645.528	REMOVE AND RESET OVERHEAD MAINLINE SIGN NO. 28	/				1	LS
645.529	REMOVE AND RESET MAINLINE SIGN NO. 29		/			/	LS
650,101	VARIABLE MESSAGE SIGN (VMS) SYSTEM - HOLMES ROAD				/	/	LS
650,102	VARIABLE MESSAGE SIGN (VMS) SYSTEM - CROSBY		/			/	LS
650.20/	VMS GROUND MOUNTED CONTROL CABINET - HOLMES ROAD				/	/	ΕA
650.202	VMS GROUND MOUNTED CONTROL CABINET - CROSBY		/			/	ΕA
650.80/	VMS POWER SYSTEM - HOLMES				/	/	LS
650.802	VMS POWER SYSTEM - CROSBY		/			/	LS
652.30	FLASHING ARROW	2	2		2	6	ΕA
652.3/2	TYPE III BARRICADES	5	9		9	23	ΕA
652.33	DRUM	70	350		350	770	ΕA
652.332	DRUM, LEFT IN PLACE		50			50	ΕA
652.34	CONE	100	100		100	300	ΕA
652.35	CONSTRUCTION SIGNS		PROJECT	QUANTITY		5,400	SF
652,36/	MAINTENANCE OF TRAFFIC CONTROL DEVICES		PROJECT	QUANTITY		/	LS
652.4	RORTABLE CHANGEABLE MESSAGE STGN			$\sim$			EA
652.44	PACE VEHICLE		PROJECT	QUANTITY		250	CD .
652.45	TRUCK MOUNTED ATTENUATOR	90	1,320	A	1,320	2,730	CD.
652.458	AUTOMATED IRAHER/ HOUNTED SPEED LIMISION			$\bigcirc$	1 3	$\square$	ΈA
652.47	SEQUENTIAL FLASHING WARNING LIGHTS		PROJECT	QUANTITY		100	ΕA
656.50	BALED HAY, IN PLACE	10	10		10	30	ΕA
656.60	TEMPORARY BERMS	100	65			165	LF
656.62	TEMPORARY SLOPE DRAINS	100	38			/38	LF
656.632	30 INCH TEMPORARY SILT FENCE	1,200	//,500		/3,600	26,300	LF
659./0	MOBILIZATION		PROJECT	QUANTITY		/	LS
673.01	STORMWATER SOIL FILTER BED		410	-	620	1,030	СҮ
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - RED BROOK				/	/	LS
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - LONG CREEK		/			1	LS
801.03	TEST PITS		PROJECT	OLIANTITY	•	10	FΑ

:e:3/16/2020

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A	REVISED QUANTITIES	DAM 3.	20						TEL (207) 774-5155			
<u>.</u>	CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.							FAX (207) 228-0909				
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26			Designed	CAV	2/20	Checked	TRS	2/20				
Ē[			Drawn	GW	2/20	In Charge of	RAL	2/20		MTA PROJECT MAN	AGER: Ralph C. Norwood, IV, P.E., P.T.O.E.	

CONTRACT: 2020.03

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PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4 ESTIMATED QUANTITIES (2 of 2)

#### GENERAL NOTES:

- 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.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER 2. LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- GEOTECHNICAL INFORMATION EITHER FURNISHED OR REFERENCED IN THIS PLAN SET IS FOR THE BIDDER'S AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR THE INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
- THE GEOTECHNICAL DESIGN REPORT, INCLUDING TEST BORING LOGS TITLED PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS, MAINE TURNPIKE, GEOTECHNICAL DESIGN REPORT MAY BE 5. ACCESSED AT THE MAINE TURNPIKE AUTHORITY WEB ADDRESS: WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS
- TREE CLEARING IS NOT ALLOWED FROM JUNE ITO JULY 31. 6.
- CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND MICROSTATION 7. FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, CONCRETE BARRIER, GUARDRAIL, CULVERTS, MEDIAN DRAINAGE, FOUNDATIONS, WIRING, SIGNS, ETC.

#### EARTHWORK AND PAVEMENT NOTES:

- THE NORMAL GRUBBING WIDTH IN THE FILLS WHEN SUBGRADE IS LESS THAN 5' ABOVE EXISTING GROUND SHALL BE VARIABLE LEFT OR RIGHT.THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6' IN FIELD AREAS AND I' IN WOODED AREAS.
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE AND IN ACCORDANCE 2. WITH ALL ENVIRONMENTAL REGULATIONS.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART O OF 29 CFR PART f92.6.65D-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
- REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. 4. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 10".
- CLEARING LIMITS SHALL BE IO' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT. 5. THE ACTUAL CLEARING LINES SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE.
- EXISTING INSLOPES STEEPER THAN 2: IN PROPOSED FILL AREAS SHALL BE BENCHED 6. AS SHOWN IN THE DETAILS OR AS DIRECTED BY THE RESIDENT
- INTERPRETIVE ROCK SURFACES ARE SHOWN IN THE PLANS. ADDITIONAL INFORMATION ON 7. ROCK SURFACES CAN BE FOUND IN THE FINAL GEOTECHNICAL DESIGN REPORT.
- ROCK SHALL BE EXCAVATED I' BELOW SUBGRADE AND GRADED TO DAYLIGHT TO 8. AVOID PONDING
- MUCK EXCAVATION DEPTH HAS BEEN ESTIMATED AT 18". 9

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#### GUARDRAIL NOTES:

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- AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL ITEMS, UNLESS NOTED OTHERWISE.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL 2. TO THE PROPOSED GUARDRAIL ITEMS, UNLESS OTHERWISE NOTED.
- 3. ALL GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND ELECTRICAL CONDUITS.
- HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE INCIDENTAL TO THE GUARDRAIL ITEMS.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS SHALL BE REMOVED AND RESET. PAYMENT WILL BE MADE UNDER ITEM 606.356/ DELINEATOR POST-REMOVE AND RESET.
- W-BEAM GUARDRAIL EXISTS ON THE PROJECT SITE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING W-BEAM GUARDRAIL.

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- 7. ALL END TERMINALS AND ATTENUATORS MANUFACTURED AFTER DECEMBER 31, 2019 SHALL MEET THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- THE TEMPORARY CONCRETE BARRIER, TYPE ITO BE LEFT IN PLACE SHALL UTILIZE BARRIER 8. SUPPLIED BY THE AUTHORITY.

TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THIS CONTRACT'S FINAL PAVEMENT SURFACE. THIS WILL RESULT IN A HEIGHT OF 30 1/2" ABOVE A FUTURE 1/2" OVERLAY INSTALLED BY OTHERS.

#### ROCK EXCAVATION NOTES:

- I. CONTRACTOR SHALL LIMIT PREDRILL HOLES TO 3" DIAMETER.
- MAXIMUM PRESPLIT SPACING SHALL BE 24".
- CONTRACTOR SHALL HOLD A MINIMUM 25 MILLISECOND DELAY BETWEEN PRESPLIT 3. HOLES AND PRODUCTION HOLES.
- 4 BLAST DESIGN SHALL KEEP THE DIRECTION OF SHOT PARALLEL TO THE ROADWAY.
- THE CONTRACTOR SHALL LIMIT VIBRATION FROM BASTING AS REQUIRED BY SPECIFICATION SECTION 105.2.7 AND AS REQUIRED BY UTILITY OWNERS. THE CONTRACTOR SHALL SELECT THEIR MEANS AND METHODS TO MEET THESE VIBRATION REQUIREMENTS.

#### UTILITY NOTES:

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS 1. OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT I-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
- 2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.
- 3. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:

BUCKEYE PIPELINE CENTRAL MAINE POWER (DISTRIBUTION) CENTRAL MAINE POWER (TRANSMISSION) CHARTER COMMUNICATIONS CONSOLIDATED COMMUNICATIONS (FAIRPOINT) CROWN CASTLE FIBER NETWORKS (LIGHTOWER) DEAD RIVER COMPANY (SEWER) FAA/PORTLAND JETPORT FIRSTLIGHT FIBER GRANITE STATE GAS MAINE TURNPIKE AUTHORITY - LIGHTING MCI WORLD COMMUNICATIONS (VERIZON) OCEAN PROPERTIES (SEWER) PORTLAND PIPE LINE CORPORATION PORTLAND WATER DISTRICT SCARBOROUGH FIRE DEPARTMENT UNITIL

THE CONTRACTOR SHALL NOTIFY THE RESIDENT IO DAYS PRIOR TO CONSTRUCTION SO 4. THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION 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 DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE UTILITY LOCATIONS.

#### DRAINAGE NOTES:

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT. ABANDONED STRUCTURES TO REMAIN SHALL BE PLUGGED WITH BRICK AND MORTAR (INCIDENTAL TO 604 ITEMS) AND FILLED WITH FLOWABLE FILL (ITEM 602.30).
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON 2. THE PLANS OR DIRECTED BY THE RESIDENT.
- IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS 3. FOR GRANULAR BORROW - UNDERWATER BACKFILL.
- ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE 4. PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CULVERT ITEMS.
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS 5. WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CATCH BASIN ITEMS
- EXISTING CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. 6. PAYMENT WILL BE MADE UNDER ITEM 604.182 CLEANING EXISTING CATCH BASIN AND MANHOLE. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR). POST CONSTRUCTION, ALL EXISTING DRAINAGE TO REMAIN AND NEW DRAINAGE SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

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ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.

8. ON PLANS. 9.

EROSION CONTROL NOTES:

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- 2.
- 4.
  - 5.

TEMPORARY BERMS AND TEMPORARY SLOPE DRAINS ARE ANTICIPATED AT ALL 6. STONE DOWNSPOUT LOCATIONS WHILE GROWTH IS BEING ESTABLISHED ON SIDE SLOPES AND PRIOR TO RIPRAP INSTALLATION.

- 7.
- 8.
- 9.
- 10.

11.

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- LIGHTING NOTES:
- 2.
- 3.
- 4.

- 9.
- POWER SOURCE

Designed by: NOT TO SCALE HNTB HNTB CORPORATION 340 County Road, Suite 6-C By Date Revision Westbrook, ME 04092 Clarify Road Surface and 3/20 TEL (207) 774-5155 CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E Guardrail Height FAX (207) 228-0909 Date 2/20 Βv Date Βv Checked Jesigned AL 2 2/20 2/20 In Charae of IRAI IGWI Drawn

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THE GOLD STAR

THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING CONSTRUCTION AS NEEDED FOR TEMPORARY USE, PRIOR TO PROPOSED DRAINAGE SYSTEMS BEING FUNCTIONAL AS IDENTIFIED

CATCH BASIN GRATES THAT WILL CARRY TRAFFIC DURING MOT OPERATIONS SHALL BE SECURED AS NOTED IN THE SPECIAL PROVISIONS.

THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT UNDER THE APPROPRIATE BID ITEMS.

4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

ALL NON-ROCK SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 2.

MULCH SHALL BE APPLIED IN SEEDED AREAS, EXCEPT WHERE EROSION CONTROL BLANKET IS SPECIFIED.

ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.

TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND 2: SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6'WIDE OR AS DESIGNATED BY THE RESIDENT.

PLACE A 2' WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ON THE SIDE SLOPES ALONG THE TOP OF THE RIPRAP AND BEHIND THE WINGWALLS.

TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING TEMPORARY MULCH AS NECESSARY, IN ACCORDANCE WITH THE LATEST EDITION OF THE BMP'S, TO MINIMIZE SOIL EROSION PRIOR TO THE APPLICATION OF THE FINAL SLOPE TREATMENT.

TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.

A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS.

TEMPORARY STONE CHECK DAMS SHALL BE PLACED IN THE EXISTING DITCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.

STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.

ALL PERMANENT WIRING SHALL BE COPPER AND WILL BE INCIDENTAL TO THE CONDUIT.

ALL RESET LIGHT STANDARDS SHALL INCLUDE NEW BREAKAWAY COUPLINGS AND MOUNTING HARDWARE. PAYMENT FOR BREAKAWAY COUPLINGS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD.

ALL USABLE EXISTING PRECAST FOUNDATIONS SHALL BE STACKED AT THE CROSBY MAINTENANCE FACILITY. PAYMENT FOR STACKING OF FOUNDATIONS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD OR REMOVE AND STACK LIGHT STANDARD.

THE CONTRACTOR SHALL VERIEY LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY LIGHTING COMPONENTS.

ALL NEW OR RESET LIGHT STANDARDS SHALL BE PLACED ON NEW 24" FOUNDATIONS.

BREAKAWAY COUPLINGS ARE REQUIRED FOR ALL PERMANENT LIGHT POLES.

EXISTING LIGHTING STANDARDS WILL VARY THROUGHOUT THE PROJECT. ALL LIGHTING STANDARDS WILL BE TEMPLATED TO ENSURE THE CORRECT BOLT PATTERN IS USED FOR EACH PROPOSED FOUNDATION

LOCATION OF ELECTRICAL CONDUIT IS SCHEMATIC ONLY.

THE CONTRACTOR SHALL NOTIFY THE RESIDENT 30 DAYS PRIOR TO EXIT 45 NB ON RAMP LIGHTING WORK SO THAT THE RESIDENT CAN COORDINATE THE

> PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4

GENERAL NOTES

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I. CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS. CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE TRANSITION SHALL BE TYPE 2, SEE DETAILS THIS SHEET.

CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.

I. ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT.

2. THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FONT OF OR DIRECTLY ABOVE THE CURB FACE.

3. STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS DESIGNATIONS PROVIDED IN PARENTHESIS RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE." 1979.

4. RAIL ELEMENT SHALL MEET ALL THE REQUIREMENTS OF AASHTO M-IBO EXCEPT AS MODIFIED ON THE PLANS. THE THRIE-BEAM

5. AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE CENTER OF THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.

8. TOP OF GUARDRAIL HEIGHT SHALL BE 32" ABOVE THIS CONTRACT'S PAVEMENT SURFACE. THIS WILL RESULT IN A HEIGHT OF 30/2" SECTION A-A <u>SECTION B-B</u> SECTION C-C 3/8" = 1'-0" 3/8" = 1'-0" 3/8" = 1'-0" 1'-6" TOP OF PAVEMENT FOR THIS CONTRACT (TYP.) SEE TYPICAL SECTIONS FOR PAVEMENT TEMPLATE FUTURE I1/2" PLACEMENT SURFACE COURSE (BY OTHERS) (TYP.) •-#5 REINFORCING BAR 2" MINIMUM COVER -SAWCUT EXIST. PAVEMENT AS NECESSARY CONCRETE CURB COMMON EXCAVATION AND AGGREGATE SUBBASE COURSE GRAVEL TO LIMITS SHOWN SHALL BE <u>TYPE 2</u> INCIDENTAL TO THE BRIDGE TRANSITION PAY N.T.S. ITEM PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS EARTH RETAINING BARRIER GUARDRAIL TRANSITION DETAILS

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![](_page_47_Figure_0.jpeg)

#### NOTES:

I. CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE EXISTING ROADWAY, MEDIAN AND FOUNDATION LOCATIONS TO VERIFY ELEVATIONS BEFORE DEVELOPING STRUCTURAL SHOP DRAWINGS FOR FABRICATION AND CONSTRUCTING THE FOOTING. IF THE ACTUAL GROUND ELEVATIONS DIFFER MORE THAN '-O", THE ENGINEER SHALL BE CONTACTED TO VERIFY THE ADEQUACY OF THE FOOTING DESIGN.

2. THE OVERHEAD SIGN STRUCTURE SHALL BE DESIGNED FOR A SIGN AREA EQUAL TO 1.5 TIMES THE ACTUAL SIGN AREA AS SPECIFIED IN THE MAINE DOT STANDARD SPECIFICATIONS 645.023.

3. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION ON THE MEDIAN PAVING TYPICAL SECTION.

<u>STA. 2/33+14.00</u> <u>OHSS I-95 MM 43.18 SB</u>

> (LOOKING DOWNSTATION) SCALE = I" = 5'-0"

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_ <u> </u> No.	Revision	By Date						Westbrook ME 04092		
₹ 1	VMS MODEL	BRG 03/20						TEL (207) 774-5155		
<u>م</u>			CONSULTANT PROJ	ECT MANAGER	Dale A. Mitch	ell, P.E.		FAX (207) 228-0909		
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Ē			Drawn PE	3 02\20	In Charge of	RAL	02\20		MTA PROJECT MANA	AGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

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DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN

EXCEPT AS MODIFIED ON THE PLANS.THE THRIE BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE

JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

NORTHBOUND OFF RAMP IMPROVEMENTS GUARDRAIL DETAILS 1

Addendum 02 Page 50" GD-1

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