

MERIDEN HARBOR BROOK BRIDGE REPLACEMENTS AND UTILITY
IMPROVEMENTS PROJECT
MERIDEN, CT

ADDENDUM NO. 3

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REQUESTS FOR INFORMATION (RFI) QUESTIONS AND ANSWERS

Q-1: Micropile Detail on Sheet SA-204 for Butler Street Bridge Abutment #2: Please confirm this detail applies to all four (4) abutments.

A-1: Yes, the Typical Micropile Details on SA-204 applies to all four (4) abutments. For instance, the approximate top of bedrock elevations are shown for both the Butler Street bridge and the Hanover Street bridge at the bottom of the detail.

Q-2: Are there any existing plans, inspection reports, or rating reports of the bridges available?

A-2: The bridges are privately owned and are not subject to the state bridge program. As such, no plans or inspection reports are available.

Q-3: Please confirm/provide payment item for Abutment 2 Butler St - the modular wall abutment section.

A-3: The quantities for the modular abutment wall, and for the existing wall demolitions in front of the bridge, were included in wall concrete and adjacent wall demo quantities. For convenience, we are assigning the appropriate quantities for each bridge to be included in the individual bridge summaries. Quantities for Retaining Wall Site 1, 2 and 3 - and the 2 bridges - will be changed to reflect.

Q-4: Are there any existing drawings of the bridges to be demolished? If so, please provide.

A-4: There are no existing drawings of the bridges to be demolished.

Q-5: CP 101 shows “Limits of removal for existing below grade concrete foundation”. There is a building slab removal pay item measured by the S.Y. Please provide the foundation thickness or drawings.

A-5: Additional foundation thickness information is not available.

Q-6: Please confirm that removal of building slab, removal of concrete sidewalk, removal of concrete apron do not include offsite disposal.

A-6: Any concrete located outside of AOEC 5 and AOEC 5A shall be disposed of according to Removal of Concrete in Section 02.02 of CT DOT Form 818.

Q-7: Please confirm removal of the slab in AOEC 5 and 5A be disposed and paid as Hazardous materials excavation as stated in spec 0101109A.

A-7: Any materials removed from AOEC areas 5 or 5A should be stockpiled and tested prior to disposal, as per Item 0101126A Disposal of Hazardous Waste, 0202315A Disposal of Controlled Materials. This includes all concrete slab materials. Material from AOEC 5A is anticipated to require disposal as a Hazardous waste. Material from AOEC 5 is **not** anticipated to be classified as Hazardous waste.

Q-8: Where are costs for disposal of sidewalk, concrete apron and building slab outside hazardous limits to be paid?

A-8: The costs of concrete sidewalk, concrete apron, and concrete building slab disposal are included in bid items 0202513A Removal of Concrete Sidewalk, 0202515A Removal of Concrete Apron, and 0202502A Removal of Concrete Building Slab, respectively.

Q-9: Are the curved barrier walls at Butler St. bridge to be paid as abutment and wall concrete or parapet concrete?

A-9: All barrier walls are included under abutment and wall concrete.

Q-10: SA-101 NOTE 4 states-construct of walls 1,2,4, and 5b. We did not see a wall 4. Please identify if there is a wall 4 and respective location and pay item.

A-10: Correct, there is no Wall 4. Plans have been updated to reflect wall should be 5A.

Q-11: Refer to the last page of NTC-Environmental Investigations. Please provide Phase III Environmental Site Assessment Harbor Brook Channel Improvement Project Cooper St Bridge to Amtrak Crossing, dated November 2021.

A-11: The report is attached to this addendum and is also available for review at the Public Works Department, 142 East Main Street, Meriden, Connecticut.

Q-12: Please provide permits that are mentioned in NTC-Permits.

A-12: These permits were provided in Addendum #1.

Q-13: US Army Corp permit and the CT DEEP WQC and non-consumptive permit expires during project duration. Please confirm re-applying/extension is responsibility of others.

A-13: Permit renewal is the responsibility of the City.

Q-14: Drawing SA-101 states that support of excavation is incidental to structure excavation- (complete). Excavation support extends behind bridge and retaining walls. The TERS at the walls are part of lump sum items for the walls. Please consider making the excavation support for the bridges a lump sum item as it is not a direct correlation of the excavation and quantity of excavation may vary based on modular wall type/design.

A-14: The TERS for the shorter cast-in-place walls remains under bid item 0203000 Structure Excavation – Earth (Complete). The TERS for the larger modular abutment walls are included in bid items 0601275A Precast Substructure Elements (Site No. 1) and 0601276A Precast Substructure Elements (Site No. 2).

Q-15: Removal of existing masonry unit pay items are included for Retaining wall 1,2 and 3 sites. No removal of existing masonry pay items are provided for bridges. What pay item(s) does the Removal of walls at bridge limits get paid for?

A-15: Removal of existing masonry was included under wall items for Sites 1, 2, and 3. The Removal of Existing Masonry item has been separately designated as a separate bid item.

Q-16: NTC-Environmental investigations-states that the AOEC-5 and 5A excavations are shown on HM-102 and CP-103. While the excavation limits of the AOEC are shown on HM-102, limits of depth are not defined. Please provide depth of removal.

A-16: The depth of removal is five (5) feet. Sheet HM-102 has been updated to reflect this information.

Q-17: Where is the mechanical work for Vent relocation paid for?

A-17: The mechanical work related to the vent relocation should be paid for as part of the floodproofing special provision.

Q-18: Where is repointing of masonry paid for? Please consider making this a unit price item as scope of work is not clearly defined.

A-18: Plans have been updated to reflect the limits of repointing masonry walls. Repointing of masonry is included under bid item 0609001 Repointed Masonry.

Q-19: Please provide existing wall construction types and sizes of windows and doors to be replaced for bidding purposes.

A-19: Original design documentation for the existing buildings is not available for confirmation of wall construction type or exact window and door opening dimensions. The approximate horizontal limits of existing window and door openings can be scaled from the floodproofing drawings. All door openings should be assumed to be standard 6'-8" in height. Window heights vary and should be field verified to estimate based on publicly available mapping such as Google Street View.

Q-20: Please provide specification/details for basement hatch opening restoration.

A-20: The existing basement hatch for 124 Hanover Street will remain as is with a new protective surrounding installed per details on S-500.

Q-21: What elevation shall sheets be cut off for item - cofferdam left in place?

A-21: Sheets shall be cut off at elevation 116.0 feet.

Q-22: Specification item 0101126A makes mentions of pay items 0020761A-Handling and disposal of contaminated concrete and Item 0101133A Disposal of contaminated railroad ties. Neither items are in the pay item list. Please advise.

A-22: Items that are not included in the pay item list are not considered part of the project.

Q-23: Specification 0202315A states contractor must use one of facilities named for disposal and unit price will be applicable to all of the listed disposal facilities per the payment section. Please provide the list of facilities.

A-23: An updated table of Connecticut DOT Approved Treatment, Storage, and Disposal Facilities (March 2024) is attached to this addendum.

Q-24: Please Identity Groundwater Area of Environmental Concern.

A-24: Refer to Figure 4 in the Phase III Environmental Site Assessment Harbor Brook Channel Improvement Project Cooper Street Bridge to Amtrak Crossing, Meriden Connecticut, Fuss & O'Neill, Inc., November 2021 for approximate limits. When dewatering to install sanitary sewer and/or water utilities within the AOEC 5 and 5A areas, the contractor may need to invoke the Alternate Bid Item for Handling Contaminated Groundwater. If groundwater is present in the AOEC 5 or 5A areas during the installation of the utilities, the contractor shall follow the guidelines contained in special provision #0204213A Handling Contaminated Groundwater.

Q-25: Are concrete barriers/parapets and moment slabs at walls paid for separately or are they incidental to the wall?

A-25: Parapets and moment slabs are paid for under linear footage of Parapet Concrete.

Q-26: Drawing CP101- where is limit of rock wall to be removed and salvaged paid?

A-26: The limit of rock wall to be removed and salvaged shall be paid for under bid item 0974000 Removal of Existing Masonry.

Q-27: Drawing CP101-where is limit of existing guide rail to be removed and salvaged paid?

A-27: This shall be paid for under bid item 0904525A Remove and Reset Pedestrian Railing (Two-Rail) added to the bid form included with this addendum. The special provision for this item will be included in Addendum No. 4.

Q-28: Do you anticipate a bid due date extension?

A-28: The bid due date will be extended to Thursday, May 30th at 11:00 A.M.

Q-29: Sanitary has a pay item for removal of existing piping. Not so for storm water. CU-201 Profiles “Remove existing storm drainage pipe”. In addition, the extent of removals cannot be determined from the plans. Will pay items be added for storm pipe removal per Diameter & Type of Pipe?

A-29: Removal of existing drainage pipe is paid for under the individual drainage pipe items [e.g. 0686000.15 15” RCP (0-10’ Deep)]. Diameter and types of pipe to be removed are shown on sheet CU-201.

Q-30: There are work items indicated as pay items in DOT form 818 that are not on the bid schedule. Will a revised bid schedule be provided for all pay items?

A-30: Please provide a list of items in question.

Q-31: There are modular block wall abutments. There is no pay item for modular block wall abutment. Is the abutment being paid as retaining wall? Or will a pay item be added for modular block abutment?

A-31: The quantities for the modular abutment wall, and for the existing wall demolitions in front of the bridge, were included in wall concrete and adjacent wall demo quantities. For convenience, we are assigning the appropriate quantities for each bridge to be included in the individual bridge summaries. Quantities for Retaining Wall Site 1, 2 and 3 - and the 2 bridges - will be changed to reflect.

Q-32: What is the Sewer Bridge? And what installation of traffic signals is being done at Cook Avenue? As reference in page one of the contract. Page 35 of bid package.

A-32: Not a part of this project; please disregard.

Q-33: Lateral Sanitary sewer service pipe to the street right of way shall be completed. What are the locations, length, depth of sanitary sewer laterals?

A-33: There are no sanitary sewer laterals included in this project, the language in specification 1400101A is for any unforeseen condition during construction.

Q-34: Lateral by diameter and backwater valves should be pay items. Are they going to be added in the bid form?

A-34: Refer to specification 1400101A for payment item description for 15” PVC Pipe (Sanitary Sewer), which includes the backflow preventors.

Q-35: How many backwater valves?

A-35: There are two (2) backflow preventors included in this project and are shown on drawing CU-101.

Q-36: If bidder is responsible for bypass pumping, what is the flow?

A-36: Refer to specification 1400101A for payment item description for 15” PVC Pipe (Sanitary Sewer), which includes all handling of wastewater flow. All connection to building shall be completed at times of low flow with coordination of building owner.

Q-37: What is retaining wall site 1? Retaining wall site 2? And Retaining wall site 3?

A-37: Refer to list on Sheet SA-101 for Retaining and Embankment wall site clarification.

Q-38: What is embankment wall-site 1? Embankment wall- site 2?

A-38: Refer to list on Sheet SA-101 for Retaining and Embankment wall site clarification.

Q-39: Specification 0601651A,-060153A #7. Please provide bearing capacities, and other department responsibilities of design information for the contractor design walls. We did not find this information in the drawing set.

A-39: The retaining wall allowable bearing pressures for strength are now included on sheet SA-403.

Q-40: The specification Table of Contents includes 0601445A Embankment Wall (Site No 1). This specification was not provided in the package. Please provide.

A-40: The special provisions for 0601445A Embankment Wall (Site No. 1) and 0601446A Embankment Wall (Site No. 2) are attached to this addendum.

1. REVISIONS TO CONTRACT DOCUMENTS – SEE ATTACHMENT A

1.) Revisions to the Project Manual Specifications:

a. Bid Form (Addendum No. 3)

Remove the Bid Form from the project manual in its entirety and replace with the corresponding Bid Form (Addendum No. 3) page that is attached to this addendum.

b. Connecticut DOT Approved Treatment, Storage, and Disposal Facilities (March 2024) (Addendum No. 3)

Insert the table immediately after Special Provision 0202315A.

c. Phase III Environmental Site Assessment – Harbor Brook Channel Improvement Project – Cooper Street Bridge to Amtrak Crossing (November 2021)

The Phase III Environmental Site Assessment – Harbor Brook Channel Improvement Project – Cooper Street Bridge to Amtrak Crossing (November 2021) is attached to this addendum.

d. Special Provision 0202502A Removal of Concrete Building Slab (Addendum No. 3)

Replace Special Provision 0202502A Removal of Concrete Building Slab in the project manual with the corresponding 0202502A Removal of Concrete Building Slab (Addendum No. 3) that is attached to this addendum.

- e. **The following special provisions have been added to the project manual:**
- i. Special Provision 0601275A Precast Substructure Elements (Site No. 1) (Addendum No. 3)
 - ii. Special Provision 0601276A Precast Substructure Elements (Site No. 2) (Addendum No. 3)
 - iii. Special Provision 0601445A Embankment Wall (Site No. 1) (Addendum No. 3)
 - iv. Special Provision 0601446A Embankment Wall (Site No. 2) (Addendum No. 3)

The special provisions added to the project manual are attached to this Addendum No. 3.

f. **Special Provisions Table of Contents**

The special provisions added to the project manual have been added to the Special Provisions Table of Contents. The Special Provisions Table of Contents has been updated to reflect the added special provisions. Remove the Special Provisions Table of Contents from the project manual and replace with the Special Provisions Table of Contents (Addendum No. 3) included in this addendum.

g. **Standard Provision 0609001 Repointed Masonry**

The CTDOT Form 818 Standard Provision 0609001 Repointed Masonry shall be used for repointing of existing masonry.

2.) **Revisions to the Contract Drawings:**

- a. Remove the following drawings from the Contract Drawings and replace with the corresponding Addendum No. 3 drawings which are attached to this addendum.
 - i. GI-003 (Addendum No. 3)
 - ii. HM-102 (Addendum No. 3)
 - iii. CE-101 (Addendum No. 3)
 - iv. CP-101 (Addendum No. 3)
 - v. CP-401 (Addendum No. 3)
 - vi. CP-402 (Addendum No. 3)
 - vii. CP-403 (Addendum No. 3)
 - viii. CS-101 (Addendum No. 3)
 - ix. CG-101 (Addendum No. 3)
 - x. SA-101 (Addendum No. 3)
 - xi. SA-201 (Addendum No. 3)

- xii. SA-202 (Addendum No. 3)
- xiii. SA-204 (Addendum No. 3)
- xiv. SA-301 (Addendum No. 3)
- xv. SA-302 (Addendum No. 3)
- xvi. SA-304 (Addendum No. 3)
- xvii. SA-401 (Addendum No. 3)
- xviii. SA-402 (Addendum No. 3)
- xix. SA-403 (Addendum No. 3)
- xx. SA-404 (Addendum No. 3)
- xxi. SA-501 (Addendum No. 3)
- xxii. LP-101 (Addendum No. 3)
- xxiii. CD-101 (Addendum No. 3)
- xxiv. CD-102 (Addendum No. 3)
- xxv. CD-103 (Addendum No. 3)
- xxvi. CD-107 (Addendum No. 3)
- xxvii. CD-114 (Addendum No. 3)
- xxviii. CD-115 (Addendum No. 3)
- xxix. CD-116 (Addendum No. 3)
- xxx. CD-117 (Addendum No. 3)

Attachment A – Revisions to the Contract Documents

For: Harbor Brook Improvements – Bridge Replacement and Utility Improvements – Butler Street and Hanover Street
City of Meriden, Public Works/Engineering Department

To: Rawle Dummett
Purchasing Officer
142 East Main Street, Room 210
Meriden, CT 06450-8022

Date of Opening: **May 30, 2024**
11:00 am.

The undersigned, _____ doing business in the City/Town of _____ in the State of _____ submits herewith, in conformity with the general instructions, conditions and specifications for the following:

Harbor Brook Improvements – Bridge Replacement and Utility Improvements – Butler Street and Hanover Street

Item Number	Item	Unit	Qty.	Base Bid		Total	
				Unit Prices Bid			
				Figure	Writing		
Environmental Construction							
0101000A	Environmental Health and Safety	LS	1	\$		\$	
					Dollars		
					Cents		
0101109A	Hazardous Materials Excavation	CY	950	\$		\$	
					Dollars		
					Cents		
0101117A	Controlled Materials Handling	CY	2,500	\$		\$	
					Dollars		
					Cents		
0101126A	Disposal of Hazardous Waste	TON	1,425	\$		\$	
					Dollars		
					Cents		
0101128A	Securing, Construction, and Dismantling of a Waste Stockpile and Treatment Area	LS	1	\$		\$	
					Dollars		
					Cents		
0202315A	Disposal of Controlled Materials	TON	3,750	\$		\$	
					Dollars		
					Cents		
0202318A	Management Reuseable Controlled Materials	CY	2,425	\$		\$	
					Dollars		
					Cents		
0202640A	2-inch GW Monitoring Well Abandonment	EA	7	\$		\$	
					Dollars		
					Cents		
					Total Environmental Construction		\$
					Total Dollars		
					Total Cents		
Alternates - Environmental Construction							
0101130A	Environmental Work Solidification	TON	10	\$		\$	
					Dollars		
					Cents		

BIDDER'S NAME: _____

Base Bid							
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total	
				Figure	Writing		
0101164A	Treatment System Operation	DAY	30	\$		Dollars	\$
						Cents	
0204213A	Handling Contaminated Groundwater	LS	1	\$		Dollars	\$
						Cents	
Total Alternates - Environmental Construction							\$
						Total Dollars	
						Total Cents	
Butler Street Bridge							
0203000	Structure Excavation – Earth (complete)	CY	803	\$		Dollars	\$
						Cents	
0213100	Granular Fill	CY	39	\$		Dollars	\$
						Cents	
0216000	Pervious Structure Backfill	CY	324	\$		Dollars	\$
						Cents	
0406171	HMA S0.5	TON	22	\$		Dollars	\$
						Cents	
0406173	HMA S0.25	TON	11	\$		Dollars	\$
						Cents	
0503001	Removal of Superstructure	LS	1	\$		Dollars	\$
						Cents	
0514226	Prestressed Deck Units (3'-0"x2'-0") (BI-37 Modified Box Beams)	LF	834	\$		Dollars	\$
						Cents	
0520036A	Asphaltic Plug Expansion Joint System	CF	20	\$		Dollars	\$
						Cents	
0521001	Elastomeric Bearings	EA	48	\$		Dollars	\$
						Cents	
0601062	Footing Concrete	CY	105	\$		Dollars	\$
						Cents	
0601064	Abutment and Wall Concrete	CY	44 32	\$		Dollars	\$
						Cents	
0601118	Bridge Deck Concrete	CY	67	\$		Dollars	\$
						Cents	
0601121	Parapet Concrete	LF	158	\$		Dollars	\$
						Cents	
0601122	Bridge Sidewalk Concrete	CY	31	\$		Dollars	\$
						Cents	
0601123	Approach Slab Concrete	CY	39	\$		Dollars	\$
						Cents	
0601275A	Precast Substructure Elements (Site No. 1)	LS	1	\$		Dollars	\$
						Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0602030	Deformed Steel Bars – Galvanized	LBS	82,502 80,941	\$	Dollars	\$
					Cents	
0706001	Micropiles	EA	50	\$	Dollars	\$
					Cents	
0706002	Verification Test for Micropiles	EA	1	\$	Dollars	\$
					Cents	
0706003	Proof Test for Micropiles	EA	4	\$	Dollars	\$
					Cents	
0706004	Micropile Length Adjustment	LF	500	\$	Dollars	\$
					Cents	
0707009A	Membrane Waterproofing (Cold Liquid Elastomeric)	SY	265	\$	Dollars	\$
					Cents	
0708001	Dampproofing	SY	75	\$	Dollars	\$
					Cents	
0819002A	Penetrating Sealer Protective Compound	SY	151	\$	Dollars	\$
					Cents	
0904051A	3 Tube Curb Mounted Bridge Rail	LF	124	\$	Dollars	\$
					Cents	
0910173	R-B 350 Bridge Attachment – Vertical Shape Parapet	EA	2	\$	Dollars	\$
					Cents	
0974000	Removal of Existing Masonry	CY	9	\$	Dollars	\$
					Cents	
1008319	4" Rigid Metal Conduit in Structure	LF	143	\$	Dollars	\$
					Cents	
1008320	5" Rigid metal Conduit in Structure	LF	286	\$	Dollars	\$
					Cents	
					Total Butler Street Bridge	\$
					Dollars	
					Cents	
Hanover Bridge						
0203000	Structure Excavation – Earth (complete)	CY	762	\$	Dollars	\$
					Cents	
0213100	Granular Fill	CY	42	\$	Dollars	\$
					Cents	
0216000	Pervious Structure Backfill	CY	263	\$	Dollars	\$
					Cents	
0406171	HMA S0.5	TON	17	\$	Dollars	\$
					Cents	
0406173	HMA S0.25	TON	8	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0503001	Removal of Superstructure	LS	1	\$	Dollars	\$
					Cents	
0514226	Prestressed Deck Units (3'-0"x2'-0") (BI-37 Modified Box Beams)	LF	624	\$	Dollars	\$
					Cents	
0520036A	Asphaltic Plug Expansion Joint System	CF	20	\$	Dollars	\$
					Cents	
0521001	Elastomeric Bearings	EA	48	\$	Dollars	\$
					Cents	
0601062	Footing Concrete	CY	78	\$	Dollars	\$
					Cents	
0601064	Abutment and Wall Concrete	CY	3420	\$	Dollars	\$
					Cents	
0601118N	Bridge Deck Concrete	CY	79	\$	Dollars	\$
					Cents	
0601121	Parapet Concrete	LF	121	\$	Dollars	\$
					Cents	
0601122	Bridge Sidewalk Concrete	CY	24	\$	Dollars	\$
					Cents	
0601123	Approach Slab Concrete	CY	40	\$	Dollars	\$
					Cents	
0601276A	Precast Substructure Elements (Site No. 2)	LS	1	\$	Dollars	\$
					Cents	
0602030	Deformed Steel Bars – Galvanized	LBS	70,839 69,419	\$	Dollars	\$
					Cents	
0706001	Micropiles	EA	50	\$	Dollars	\$
					Cents	
0706002	Verification Test for Micropiles	EA	1	\$	Dollars	\$
					Cents	
0706003	Proof Test for Micropiles	EA	4	\$	Dollars	\$
					Cents	
0706004	Micropile Length Adjustment	LF	500	\$	Dollars	\$
					Cents	
0707009A	Membrane Waterproofing (Cold Liquid Elastomeric)	SY	224	\$	Dollars	\$
					Cents	
0708001	Dampproofing	SY	25	\$	Dollars	\$
					Cents	
0819002A	Penetrating Sealer Protective Compound	SY	120	\$	Dollars	\$
					Cents	
0904051A	3 Tube Curb Mounted Bridge Rail	LF	89	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid							
Item Number	Item	Unit	Qty.	Unit Prices Bid			Total
				Figure	Writing		
0910173	R-B 350 Bridge Attachment – Vertical Shape Parapet	EA	2	\$		Dollars	\$
						Cents	
0974000	Removal of Existing Masonry	CY	63	\$		Dollars	\$
						Cents	
1008319	4" Rigid Metal Conduit in Structure	LF	108	\$		Dollars	\$
						Cents	
1008320	5" Rigid metal Conduit in Structure	LF	216	\$		Dollars	\$
						Cents	
						Total Hanover Bridge	\$
						Dollars	
						Cents	
Retaining Wall – Site 1							
0601651A	Retaining Wall – Site 1	LS	1	\$		Dollars	\$
						Cents	
0213100	Granular Fill	CY	157	\$		Dollars	\$
						Cents	
0601062	Footing Concrete	CY	179	\$		Dollars	\$
						Cents	
0601121	Parapet Concrete	LF	240	\$		Dollars	\$
						Cents	
0913003	4' Polyvinyl Chloride Chain Link Fence	LF	12	\$		Dollars	\$
						Cents	
0974000	Removal of Existing Masonry	CY	5851	\$		Dollars	\$
						Cents	
						Total Retaining Wall – Site 1	\$
						Dollars	
						Cents	
Retaining Wall – Site 2							
0601652A	Retaining Wall – Site 2	LS	1	\$		Dollars	\$
						Cents	
0213100	Granular Fill	CY	66	\$		Dollars	\$
						Cents	
0601062	Footing Concrete	CY	64	\$		Dollars	\$
						Cents	
0913003	4' Polyvinyl Chloride Chain Link Fence	LF	156	\$		Dollars	\$
						Cents	
0974000	Removal of Existing Masonry	CY	93	\$		Dollars	\$
						Cents	
						Total Retaining Wall – Site 2	\$
						Dollars	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
					Cents	
Retaining Wall – Site 3						
0601653A	Retaining Wall – Site 3	LS	1	\$		\$
					Dollars	
					Cents	
0213100	Granular Fill	CY	67	\$		\$
					Dollars	
					Cents	
0609001	Repointed Masonry	CY	73	\$		\$
					Dollars	
					Cents	
0601062	Footing Concrete	CY	76	\$		\$
					Dollars	
					Cents	
0601121	Parapet Concrete	LF	60	\$		\$
					Dollars	
					Cents	
0913003	4' Polyvinyl Chloride Chain Link Fence	LF	49	\$		\$
					Dollars	
					Cents	
0974000	Removal of Existing Masonry	CY	16378	\$		\$
					Dollars	
					Cents	
Total Retaining Wall – Site 3						\$
						Dollars
						Cents
Embankment Wall – Site 1						
0203000	Structure Excavation – Earth (complete)	CY	457	\$		\$
					Dollars	
					Cents	
0214100	Compacted Granular Fill	CY	12	\$		\$
					Dollars	
					Cents	
0216000	Pervious Structure Backfill	CY	26	\$		\$
					Dollars	
					Cents	
0601062	Footing Concrete	CY	16	\$		\$
					Dollars	
					Cents	
0601064	Abutment and Wall Concrete	CY	34	\$		\$
					Dollars	
					Cents	
0602030	Deformed Steel Bars – Galvanized	LB	6,575	\$		\$
					Dollars	
					Cents	
0708001	Dampproofing	SY	36	\$		\$
					Dollars	
					Cents	
Total Embankment Wall – Site 1						\$
						Dollars
						Cents

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
Embankment Wall – Site 2						
0203000	Structure Excavation – Earth (complete)	CY	442	\$	Dollars	\$
					Cents	
0214100	Compacted Granular Fill	CY	43	\$	Dollars	\$
					Cents	
0216000	Pervious Structure Backfill	CY	91	\$	Dollars	\$
					Cents	
0601062	Footing Concrete	CY	31	\$	Dollars	\$
					Cents	
0601064	Abutment and Wall Concrete	CY	84	\$	Dollars	\$
					Cents	
0602030	Deformed Steel Bars – Galvanized	LB	11,187	\$	Dollars	\$
					Cents	
0708001	Dampproofing	SY	85	\$	Dollars	\$
					Cents	
					Total Embankment Wall – Site 2	\$
					Dollars	
					Cents	
Sanitary Sewer						
0202452A	Test Pits	EA	8	\$	Dollars	\$
					Cents	
0207000	Borrow	CY	20	\$	Dollars	\$
					Cents	
1400004	Rock in Trench Excavation 0'-10' Deep (Sanitary Sewer)	CY	10	\$	Dollars	\$
					Cents	
1400101A	15" PVC Pipe (Sanitary Sewer)	LF	1,020	\$	Dollars	\$
					Cents	
1401947	Remove Existing Pipe (Sanitary Sewer)	LF	200	\$	Dollars	\$
					Cents	
1403001A	Manhole (Sanitary Sewer)	EA	8	\$	Dollars	\$
					Cents	
1403010A	Manhole Frame and Cover (Sanitary Sewer)	EA	5	\$	Dollars	\$
					Cents	
1403020A	Existing Manhole Frame and Cover Adjustment (Sanitary Sewer)	EA	3	\$	Dollars	\$
					Cents	
					Total Sanitary Sewer	\$
					Dollars	
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
Water						
0202452A	Test Pits	EA	10	\$		\$
					Dollars	
					Cents	
0207000	Borrow	CY	50	\$		\$
					Dollars	
					Cents	
1300015	Rock in Trench Excavation 0'-10' Deep (Water Main)	CY	10	\$		\$
					Dollars	
					Cents	
1300061A	Water Main Support System (Water Main)	LS	1	\$		\$
					Dollars	
					Cents	
1301082A	8-inch Ductile Iron Pipe (Water Main)	LF	359	\$		\$
					Dollars	
					Cents	
1301084A	10-inch Ductile Iron Pipe (Water Main)	LF	340	\$		\$
					Dollars	
					Cents	
1301658A	10-inch Ductile Iron Pipe Install on Bridge (Water Main)	LS	1	\$		\$
					Dollars	
					Cents	
1302003A	6-inch Gate Valve (Water Main)	EA	2	\$		\$
					Dollars	
					Cents	
1302059A	Adjust Gate Box	EA	1	\$		\$
					Dollars	
					Cents	
1302204A	6x6x6 Tapping Sleeve and Valve (Water Main)	EA	1	\$		\$
					Dollars	
					Cents	
1302206A	8x8x8 Tapping Sleeve and Valve (Water Main)	EA	2	\$		\$
					Dollars	
					Cents	
1302208A	10x10x10 Tapping Sleeve and Valve (Water Main)	EA	1	\$		\$
					Dollars	
					Cents	
1302931A	Water Main Insulation (Cover)	LF	11	\$		\$
					Dollars	
					Cents	
1303198A	Hydrant (Water Main)	EA	1	\$		\$
					Dollars	
					Cents	
1302300A	10" Connection to Hanover Street (Water Main)	EA	1	\$		\$
					Dollars	
					Cents	
1302301A	8' Connection to Cherry Street (Water Main)	EA	1	\$		\$
					Dollars	
					Cents	
					Total Water	\$
					Dollars	
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
Floodproofing – 111 Hanover Street						
0519004A	Floodproof Doors and Windows	LS	1	\$	Dollars	\$
					Cents	
0519010A	Waterproofing Membrane	SF	1,200	\$	Dollars	\$
					Cents	
0519020A	Sealing Pipe Penetrations	LS	1	\$	Dollars	\$
					Cents	
0519030A	Flood Barriers for Openings	EA	6	\$	Dollars	\$
					Cents	
					Total Floodproofing – 111 Hanover Street	\$
					Dollars	
					Cents	
Floodproofing – 124 Hanover Street						
0519004A	Floodproof Doors and Windows	LS	1	\$	Dollars	\$
					Cents	
0519010A	Waterproofing Membrane	SF	2,200	\$	Dollars	\$
					Cents	
0519020A	Sealing Pipe Penetrations	LS	1	\$	Dollars	\$
					Cents	
0519030A	Flood Barriers for Openings	EA	8	\$	Dollars	\$
					Cents	
0601064	Concrete Walls	CY	3	\$	Dollars	\$
					Cents	
					Total Floodproofing – 124 Hanover Street	\$
					Dollars	
					Cents	
Floodproofing – 618 South Grove Street						
0519004A	Floodproof Doors and Windows	LS	1	\$	Dollars	\$
					Cents	
0519010A	Waterproofing Membrane	SF	3,800	\$	Dollars	\$
					Cents	
0519020A	Sealing Pipe Penetrations	LS	1	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0519030A	Flood Barriers for Openings	EA	12	\$	Dollars	\$
					Cents	
					Total Floodproofing – 618 South Grove Street	
					Dollars	\$
					Cents	
Drainage Improvements						
0586500.10	4-Ft Dia. Storm Manhole (0-10')	EA	2	\$	Dollars	\$
					Cents	
0586501.06	6-Ft Dia. Storm Manhole (0-10')	EA	1	\$	Dollars	\$
					Cents	
0586501.07	7-Ft Dia. Storm Manhole (0-10')	EA	3	\$	Dollars	\$
					Cents	
0586502.08	8-Ft Dia. Storm Manhole (0-20')	EA	1	\$	Dollars	\$
					Cents	
0586041.10	C-L Catch Basin (4' Sump) – 0-10' Deep	EA	8	\$	Dollars	\$
					Cents	
0586002.10	C Catch Basin (4' Sump) – 0-10' Deep	EA	8	\$	Dollars	\$
					Cents	
0586000	Reset CB	EA	1	\$	Dollars	\$
					Cents	
0586650	Reset Manhole	EA	3	\$	Dollars	\$
					Cents	
0586700	Convert Type 'C-L' CB to Type 'C' CB	EA	2	\$	Dollars	\$
					Cents	
0586703	Convert Type 'C' CB to MH	EA	2	\$	Dollars	\$
					Cents	
0686000.15	15" RCP (0-10' Deep)	LF	158	\$	Dollars	\$
					Cents	
0686000.18	18" RCP (0-10' Deep)	LF	56	\$	Dollars	\$
					Cents	
0686000.36	36" RCP (0-10' Deep)	LF	7	\$	Dollars	\$
					Cents	
0686000.48	48" RCP (0-10' Deep)	LF	19	\$	Dollars	\$
					Cents	
0686001.48	48" RCP (0-20' Deep)	LF	76	\$	Dollars	\$
					Cents	
0686230.12	12" HDPE (0-10' Deep)	LF	166	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0686230.15	15" HDPE (0-10' Deep)	LF	23	\$	Dollars	\$
					Cents	
0686230.18	18" HDPE (0-10' Deep)	LF	247	\$	Dollars	\$
					Cents	
0686230.24	24" HDPE (0-10' Deep)	LF	115	\$	Dollars	\$
					Cents	
0686230.36	36" HDPE (0-10' Deep)	LF	53	\$	Dollars	\$
					Cents	
0686700.15	15' Concrete Drainage Pipe End	EA	1	\$	Dollars	\$
					Cents	
0686700.48	48" Concrete Drainage Pipe End	EA	1	\$	Dollars	\$
					Cents	
0703011	Intermediate Rip Rap (Stilling Basin)	CY	20	\$	Dollars	\$
					Cents	
					Total Drainage Improvements	\$
					Dollars	
					Cents	
Utilities						
1500000A	Utility Allowance	AL	1	\$160,000	One Hundred Sixty Thousand Dollars	\$160,000.00
					Zero Cents	
1500046A	Tel/Data Ductbank (2x1 Concrete Encased) – Non-Participating			NA		NA
1500176A	Tel/Data Vault – Non-Participating			NA		NA
0001118	Remove Duct Bank - Concrete Encased Electric Ductbank - Participating	LF	430	\$	Dollars	\$
					Cents	
0001118	Remove Duct Bank - Concrete Encased Tel/Data Ductbank - Participating	LF	565	\$	Dollars	\$
					Cents	
0202452A	Test Pits	EA	20	\$	Dollars	\$
					Cents	
1010006A	Tel/Data Handhole	EA	1	\$	Dollars	\$
					Cents	
1010061	Polymer Concrete Vault - Splicing 3-Phase Primary	EA	1	\$	Dollars	\$
					Cents	
1017066	Precast Concrete Transformer Pad	EA	1	EA	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid							
Item Number	Item	Unit	Qty.	Unit Prices Bid			Total
				Figure	Writing		
1302047A	Reset Gate Box	EA	2	\$		Dollars	\$
						Cents	
1500041.1A	Electric Ductbank (2x1 Concrete Encased) - Participating	LF	50	\$		Dollars	\$
						Cents	
1500041.2A	Electric Ductbank (2x2 Concrete Encased) - Participating	LF	305	\$		Dollars	\$
						Cents	
1500041.4A	Electric Ductbank (4x1 Concrete Encased) - Participating	LF	150	\$		Dollars	\$
						Cents	
1500041.8A	Electric Ductbank (4x2 Concrete Encased) - Participating	LF	100	\$		Dollars	\$
						Cents	
1500046A	Tel/Data Ductbank (2x1 Concrete Encased) - Participating	LF	500	\$		Dollars	\$
						Cents	
1500140A	Gas Relocation	LS	1	\$		Dollars	\$
						Cents	
1500175A	Electric Vault - Participating	EA	2	\$		Dollars	\$
						Cents	
1500176A	Tel/Data Vault - Participating	EA	1	\$		Dollars	\$
						Cents	
						Total Utilities	\$
						Dollars	
						Cents	
General Construction							
0090086A	Removal of Concrete Bollards	EA	5	\$		Dollars	\$
						Cents	
0100600A	Construction Access	LS	1	\$		Dollars	\$
						Cents	
0101181A	Emergency Spill Equipment	EA	1	\$		Dollars	\$
						Cents	
0201001A	Clearing and Grubbing	LS	1	\$		Dollars	\$
						Cents	
0201451A	Temporary Protective Fence	LF	2000	\$		Dollars	\$
						Cents	
0202000A	Earth Excavation	CY	7,500	\$		Dollars	\$
						Cents	
0202200A	Channel Excavation - Earthwork	CY	180	\$		Dollars	\$
						Cents	
0202216A	Excavation and Reuse of Existing Channel Bottom Material	CY	70	\$		Dollars	\$
						Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0202401A	Removal of Temporary Pavement	SY	5,500	\$	Dollars	\$
					Cents	
0202450A	Video Inspection Survey and Report	LS	1	\$	Dollars	\$
					Cents	
0202452A	Test Pits	EA	3	\$	Dollars	\$
					Cents	
0202483A	Removal of Bituminous Curb	LF	2,200	\$	Dollars	\$
					Cents	
0202502A	Removal of Concrete Building Slab	SY	750	\$	Dollars	\$
					Cents	
0202503A	Removal of Concrete Curbing	LF	200	\$	Dollars	\$
					Cents	
0202512	Cut Concrete Sidewalk	SY	60	\$	Dollars	\$
					Cents	
0202513A	Removal of Concrete Sidewalk	SY	420	\$	Dollars	\$
					Cents	
0202515A	Removal of Concrete Apron	SY	60	\$	Dollars	\$
					Cents	
0202529	Cut Bituminous Concrete Pavement	LF	1,700	\$	Dollars	\$
					Cents	
0202530A	Removal of Bituminous Surface	SY	8,000	\$	Dollars	\$
					Cents	
0204139	Cofferdam Material Left in Place	LF	110	\$	Dollars	\$
					Cents	
0204151A	Handling Water	LS	1	\$	Dollars	\$
					Cents	
0211100	Anti-Tracking Pad	SY	435	\$	Dollars	\$
					Cents	
0212000	Subbase	CY	200	\$	Dollars	\$
					Cents	
0212001A	Reused Subbase	CY	200	\$	Dollars	\$
					Cents	
0214100	Compacted Granular Fill	CY	180	\$	Dollars	\$
					Cents	
0219001	Sedimentation Control System	LF	2,890	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0219005A	Sedimentation Control Coir Fiber Roll System	LF	3,605	\$	Dollars	\$
					Cents	
0219011A	Sediment Control System at Catch Basin	EA	43	\$	Dollars	\$
					Cents	
0286000.10A	Rock in Drainage Trench Excavation	CY	300	\$	Dollars	\$
					Cents	
0304002	Processed Aggregate Base	CY	880	\$	Dollars	\$
					Cents	
0304003A	Reused Processed Aggregate Base	CY	255	\$	Dollars	\$
					Cents	
0406171	HMA S0.5	TON	945	\$	Dollars	\$
					Cents	
0406172	HMA S0.375	TON	945	\$	Dollars	\$
					Cents	
0601020	Stamped Concrete Driveway Apron	SY	80	\$	Dollars	\$
					Cents	
0607004A	Remove and Rebuild Dry Rubble Masonry Wall	LS	1	\$	Dollars	\$
					Cents	
0703011	Intermediate Riprap	CY	380 590	\$	Dollars	\$
					Cents	
07030120	Modified Riprap	CY	230	\$	Dollars	\$
					Cents	
0755009	Geotextile	SY	3,500	\$	Dollars	\$
					Cents	
0811005	Concrete Wheel Stop	EA	2	\$	Dollars	\$
					Cents	
0815001	Bituminous Concrete Lip Curbing	LF	1,800	\$	Dollars	\$
					Cents	
0822100.01	Temporary Traffic Barrier	LF	140	\$	Dollars	\$
					Cents	
0901003A	Steel Bollard	EA	7	\$	Dollars	\$
					Cents	
0901006A	Remove and Reset Concrete Bollards	EA	5	\$	Dollars	\$
					Cents	
0904525	Reset Pedestrian Railing (Two-Rail)	LF	35	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0910300	Metal Beam Rail (Type R-B MASH)	LF	400	\$	Dollars	\$
					Cents	
0910301	Metal Beam Rail (Type R-B MASH Half Post Spacing)	LF	31.25	\$	Dollars	\$
					Cents	
0910892	R-B Mash Bridge Attachment – Trailing End	EA	2	\$	Dollars	\$
					Cents	
0911924	R-B End Anchorage Type II	EA	2	\$	Dollars	\$
					Cents	
0912503	Remove Metal Beam Rail	LF	420	\$	Dollars	\$
					Cents	
0913000	Remove Chain Link Fence	LF	990	\$	Dollars	\$
					Cents	
0913003	4' Polyvinyl Chloride Chain Link Fence	LF	265	\$	Dollars	\$
					Cents	
0915000A	Tree Protection	EA	5	\$	Dollars	\$
					Cents	
0921001	Concrete Sidewalk	SF	1,700	\$	Dollars	\$
					Cents	
0921005	Concrete Sidewalk Ramp	SF	1,190	\$	Dollars	\$
					Cents	
0921007A	Monolithic Concrete Sidewalk and Curb	SF	4,820	\$	Dollars	\$
					Cents	
0921048	Detectable Warning Surface	SF	140	\$	Dollars	\$
					Cents	
0922001	Bituminous Concrete Sidewalk	SY	9	\$	Dollars	\$
					Cents	
0939001	Sweeping for Dust Control	HR	360	\$	Dollars	\$
					Cents	
0942001	Calcium Chloride for Dust Control	TON	5	\$	Dollars	\$
					Cents	
0944000	Furnishing and Placing Topsoil	SY	9900	\$	Dollars	\$
					Cents	
0949948	Gleditsia Tricanthanos Inermis – Thornless Honeylocust 2.5"-3" Cal.	EA	6	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
0949298	Fothergilla Gardenii "Blue Mist" - Dwarf Fothergilla 24-30"	EA	6	\$	Dollars	\$
					Cents	
0949897	Ilex Glabra "Shamrock" - Shamrock Inberry 24-30"	EA	10	\$	Dollars	\$
					Cents	
0949227	Ilex Verticillata "Red Sprite" - Red Sprite Winterberry 24"-30"	EA	4	\$	Dollars	\$
					Cents	
0949228	Ilex Verticillata "Jim Dandy" - Jim Dandy Winterberry 24"-30"	EA	1	\$	Dollars	\$
					Cents	
0949261	Juniperus Horizontalis "Bar Harbor" - Bar Harbor Spreading Juniper 18-24" Sprd.	EA	11	\$	Dollars	\$
					Cents	
0950013	Erosion Control Matting	SY	155	\$	Dollars	\$
					Cents	
0950019A	Turf Establishment Lawn	SY	9,900	\$	Dollars	\$
					Cents	
0969060A	Construction Field Office, Small	MO	18	\$	Dollars	\$
					Cents	
0975003	Mobilization and Project Closeout	LS	1	\$	Dollar	\$
					Cents	
0970006	Traffic Person (Municipal Police Officer)	HR	400	\$	Dollars	\$
					Cents	
0971001A	Maintenance and Protection of Traffic (2%)	LS	1	\$	Dollars	\$
					Cents	
0971000	MPT Allowance	LS	1	\$7,500.00	Seven Thousand Five Hundred Dollars	\$7,500.00
					Zero Cents	
0978002	Traffic Drum	EA	60	\$	Dollars	\$
					Cents	
0979003	Construction Barricade Type III	EA	35	\$	Dollars	\$
					Cents	
0981100	42" Traffic Cone	EA	50	\$	Dollars	\$
					Cents	
0980020	Construction Surveying	LS	1	\$	Dollar	\$
					Cents	
0999002	Disposal of Buildings - Gazebo	LS	1	\$	Dollars	\$
					Cents	
1001001	Trenching and Backfilling	LF	1,200	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
1002103	Light Standard Foundation – Concrete	EA	14	\$	Dollars	\$
					Cents	
1003585	Decorative Light Pole with Single Luminaire – New Lights	EA	7	\$	Dollars	\$
					Cents	
1003904	Relocate Light Standard – Salvaged Lights	EA	7	\$	Dollars	\$
					Cents	
1003913	Remove Wood Service Pole - Utility Pole	EA	1	\$	Dollars	\$
					Cents	
1003924	Remove Light Standard and Concrete Base	EA	16	\$	Dollars	\$
					Cents	
1008127	2" Polyvinyl Chloride Conduit in Trench	LF	1,700	\$	Dollars	\$
					Cents	
1010038	Precast Polymer Concrete Handhole (36"x36")	EA	10	\$	Dollars	\$
					Cents	
1012038	No. 8 Single Conductor	LF	1,700	\$	Dollars	\$
					Cents	
1017011	Remove Electric Equipment - Electric Switch	EA	1	\$	Dollars	\$
					Cents	
1106004	2 Way Pedestrian Signal Pedestal Mounted - Reinstalled	EA	1	\$	Dollars	\$
					Cents	
1131002	Remote Control Changeable Message Sign	DAY	30	\$	Dollars	\$
					Cents	
1206023	Removal and Relocation of Existing Signs	LS	1	\$	Dollars	\$
					Cents	
1208931A	Sign Face – Sheet Aluminum (Type 1X Retroreflective Sheeting)	S	25	\$	Dollars	\$
					Cents	
1208996	Metal Sign Post	EA	7	\$	Dollars	\$
					Cents	
1209007	Painted Pavement Markings 8" Yellow	LF	370	\$	Dollars	\$
					Cents	
21210101	4" White Epoxy Resin Pavement Markings	LF	2,200	\$	Dollars	\$
					Cents	
1210102	4" Yellow Epoxy Resin Pavement Markings	LF	550	\$	Dollars	\$
					Cents	
1210105	Epoxy Resin Pavement Markings, Symbols and Legends	SF	1,615	\$	Dollars	\$
					Cents	
1210106	12" White Epoxy Resin Pavement Markings	LF	180	\$	Dollars	\$
					Cents	

BIDDER'S NAME: _____

Base Bid						
Item Number	Item	Unit	Qty.	Unit Prices Bid		Total
				Figure	Writing	
1220027	Construction Signs	SF	251	\$	Dollars	\$
					Cents	
					Total General Construction	\$
					Dollars	
					Cents	

BIDDER'S NAME: _____

BASE BID ITEM TOTALS SUMMARY

Environmental Construction	\$
Alternates – Environmental Construction	\$
Butler Bridge	\$
Hanover Bridge	\$
Retaining Wall (Site 1)	\$
Retaining Wall (Site 2)	\$
Retaining Wall (Site 3)	\$
Embankment Wall (Site 1)	\$
Embankment Wall (Site 2)	\$
Sanitary Sewer	\$
Water	\$
Floodproofing – 111 Hanover Street	\$
Floodproofing – 124 Hanover Street	\$
Floodproofing – 618 South Grove Street	\$
Drainage Improvements	\$
Utilities	\$
General Construction	\$

TOTAL BASE BID	\$
Dollars	
Cents	

It is understood that the unit prices shall govern in case of discrepancy between the unit prices and this amount.

Name of Bidder: _____
Address: _____
City/State: _____
Zip Code: _____
By: _____

Is Your Company Minority-Owned? Yes ___ – If Yes, what type: _____ No:___

Signature:_____

Dated: _____ Telephone: _____ E-Mail: _____

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**CONNDOT APPROVED TREATMENT, STORAGE, AND DISPOSAL FACILITIES
MARCH 2024**

Addendum No. 3

Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF, Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
ACV Enviro - Cycle Chem (ACV Enviro - Parent company)	217 South First Street Elizabeth, NJ 07206	Robert Nitko - Director of Environmental Compliance Anthony Marty- Environmental Compliance Manager	rnitko@republicservices.com amarty@republicservices.com	Facility: 908-355-5800 Robert (O): 908-312-5896 Robert (M): 732-540-9481 Anthony (O): 862-276-0257	TSDF	Solids, Liquids	RCRA Hazardous Waste, TSCA Waste	Y	N	Y	Y	Y	Y	Case by case acceptance	All waste requires profile prior to shipment to facility. Some waste treatment done at facility.
Allied Waste Niagara Falls Landfill, LLC (Republic Services, Parent Company)	5600 Niagara Falls Blvd. Niagara, NY 14304	Ralph Larimore	rlarimore@republicservices.com	Facility: 716-285-3344 Ralph (O): 716-371-4222 Ralph (M): 716-471-7071	Disposal	Solids	Non-hazardous wastes; industrial solid waste; municipal sewage treatment sludges; contaminated soil and debris; asbestos waste; construction and demolition debris; industrial process sludge	Y	Y	Y	N	N	Y	Not Accepted	Friable and non-friable asbestos accepted.
American Lamp Recycling, LLC	55 Riverview Drive Marlboro, NY 12542	Robert Judkins - President	robert@americanlamprecycling.com	Facility: 845-896-0058 Robert ext. 100	Recycling	Solids	Fluorescent lights, electronics	N	N	N	Y	Y	N	Not Accepted	Do not accept: leaking batteries, broken/leaking mercury containing devices, or leaking PCB lighting ballast Do accept: PCB ballasts, crushed fluorescent lamps (if from CT, broker to another transporter/facility same goes for PCB ballasts because ALR can't pick up and transport these items from CT in their trucks), computer electronics, intact mercury containing devices.
Bondi Island Landfill (Covanta)	M Street Agawam, MA 01001	Steven Melloni, P.E. - Area Residuals Manager	smelloni@covanta.com	Steven (O): 508-291-4408 Steven (M): 508-789-9880	Disposal	Solids	Non-hazardous ash residue and cover soil (including street sweepings) that meets MassDEP COMM-97-001 acceptance criteria for lined landfills.	Y	N	N	N	N	N	Not Accepted	
Clean Earth - Hatfield, PA (FKA Stericycle and Republic Environmental Systems)	2869 Sandstone Drive Hatfield, PA 19440	Jim Gustavson - Compliance Manager	jgustavson@harsco.com	Facility: 215-822-2676 Jim: 401-781-6340	TSDF	Industrial Solids and Sludges, Aqueous Wastes, Contaminated Soil, PCB Wastes < 50 ppm, Oil and Petroleum Wastes, Organic Wastes	RCRA hazardous wastes	Y	Y	Y	Y	Y	Y	Yes	TSDF; treated lumber accepted (case-by-case)
Clean Earth Fort Edward (Formerly Environmental Soil Management of New York, LLC (ESMI of New York))	304 Towpath Lane Fort Edward, NY 12828	Peter Hansen - General Manager	phansen@harsco.com	Facility: 518-747-5500 Peter (M) 518-703-9319	Recycling	Solids	Contaminated soil. Non hazardous waste. NYDEC oversite benzene, DO18 MGP	Y	N	N	N	N	N	Not Accepted	Accepts: Non-TSCA PCB contaminated soil up to 45ppm. Non-hazardous soil treatment and processing on site.
Clean Earth of Carteret	24 Middlesex Avenue Carteret, NJ 07008	Tejas Shah - General Manager	trshah@harsco.com	Facility: 732-541-8909 Tejas: 201-283-4227	Recycling	Solids	Non-hazardous soils (commercial and residential), rock, brick, asphalt, concrete	Y	N	N	N	N	N	Not accepted	Biological treatment facility. Sediments cannot be dredged sediments.
Clean Earth of Connecticut (FKA Phoenix Soil)	58 North Washington Street, Plainville, CT 06062	Todd Mahler - General Manager	tmahler@harsco.com	Facility: 860-747-8888	Recycling	Solids	Non-hazardous, non-TSCA, contaminated soil and dredge material	Y	N	N	N	N	N	Not Accepted	No free liquid in soil.
Clean Earth of North Jersey, Inc. (CENJ)	105/115 Jacobus Avenue Kearny, NJ 07105	Jim Gustavson - Compliance Manager	jgustavson@harsco.com	Facility: 973-344-4004 Jim: 401-781-6340	TSDF	Solids, liquids, sludges	TSCA waste, RCRA hazardous waste, non-hazardous waste	Y	Y	N	Y	Y	Y	Yes	RCRA Part B permitted TSDF, Treated lumber and asbestos accepted (case-by-case).
Clean Earth of Philadelphia, Inc.	3201 S. 61st Street Philadelphia, PA 19153	Joe Siravo- General Manager	jsiravo@harsco.com	Facility: 215-724-5520 Joe: 215-428-1700	Recycling	Solids	Non-hazardous soils, coal tar, used oil and virgin petroleum contamination	Y	N	N	N	N	N	Not Accepted	
Clean Earth of Southeast Pennsylvania LLC.	7 Steel Road Morrisville, PA 19067	Joe Siravo- General Manager	jsiravo@harsco.com	Facility: 215-428-1700	Recycling	Solids	Non-hazardous soil, MGP Waste	Y	N	N	N	N	N	Not Accepted	

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Clean Earth Rhode Island (FKA Stericycle and PSC Environmental Systems)	275 Allens Avenue Providence, RI 02905	Jim Gustavson - Compliance Manager	jgustavson@harsco.com	Facility: 401-781-6340	TSDf	Liquids and Solids	RCRA hazardous wastes	Y	Y	Y	Y	Y	Y	Yes	Treated lumber, construction debris, and asbestos accepted (case-by-case).
Clean Harbors - Cincinnati (Spring Grove) Facility	4879 Spring Grove Avenue, Cincinnati, OH 45232	Stephen Vasse- General Manager Jim Laubsted - Compliance Manager	Vasses@cleanharbors.com laubstedj@cleanharbors.com	Facility: 513-681-6242 Stephen: (O) 513-823-2285 Stephen (M): 513-200-7571	TSDf	Liquids, Solids and Sludges	TSCA, RCRA aqueous organic and inorganic wastewaters, PCB wastewater treatment	Y	Y	Y	Y	Y	Y	Accepted with special request	*Clean Harbors Emergency Line 800-645-8265 can be called to get to an operator in order to be redirected to a general facility contact. Most facility lines now get redirected to corporate, so it can be difficult to get in direct contact of Clean Harbors Facilities
Clean Harbors Environmental Services, Inc.- Cleveland Facility	2900 Rockefeller Avenue Cleveland, OH 44115	James Laubsted - Compliance Manager Santiago (Albert) Benavides - Facilities Manager	laubstedj@cleanharbors.com benavidesa@cleanharbors.com	Facility: 216-429-2402 James: 630-854-2549 Santiago: 216-857-2228	TSDf	Liquids	RCRA aqueous organic and inorganic wastewater treatment.	N	N	N	N	N	N	Not Accepted	Discharge to POTW. Exemption of RCRA Part B permit. Operating under Clean Water Act. Wastewater has to be low in certain organics. Cannot contain oil.
Clean Harbors Environmental Services, Inc. Kimball Incineration Facility	2247 South Highway 71 Kimball, NE 69145	Alyssa King - Facility Compliance Manager Brad Reader - General Manager	king.alysa@cleanharbors.com readerb@cleanharbors.com	Facility: 308-235-4012 Alyssa (O): 308-235-8212 Alyssa (M): 513-417-9470 Brad (O): 308-235-8201	TSDf	Solids and Liquids	TSDf, RCRA hazardous wastes - Subtitle C standards	Y	Y	Y	Y*	Y*	N	Not Accepted	*Materials accepted, but not treated on site. PCB limit is <50 ppm, can't accept material with detectable dioxin furan, radioactive norm or tenorm waste, or biohazard material.
Clean Harbors of Baltimore, Inc.	1910 Russell Street Baltimore, MD 21230	Ed Romeo - General Manager Charles Hart - General Manager II	romeoe@cleanharbors.com hart.charles2@cleanharbors.com	Facility: 410-244-8200 Charles (M): 443-537-5177	TSDf	Liquids	RCRA aqueous organic and inorganic wastewaters, sludges.	N	N	N	Y	Y	Y	Not Accepted	Primary function of facility is wastewater treatment. All other accepted streams are truck to truck transferring.
Clean Harbors of Braintree, Inc.	1 Hill Avenue Braintree, MA 02184	Dave Medina - Operations Manager Andrew Rodgers - General Manager	medinad@cleanharbors.com rogers.andrew@cleanharbors.com	Facility: 781-380-7100 Dave (M): 781-364-5356 Andrew (O) 781.380.7154 Andrew (M) 781.713.9006	TSDf	Solids and Liquids	RCRA, TSCA wastes, PCBs.	Y	Y	Y	Y	Y	Y	Case-by-case	For additional Clean Harbors facility contacts; John Goodno - N.E. Regional Account Manager goodno.john@cleanharbors.com John (M) 475-777-4004
Clean Harbors of Connecticut, Inc.	51 Broderick Road Bristol, CT 06010	Kathryn Bailly- Facility General Manager Wallace Bell - Compliance Manager	Bailly.Kathryn@cleanharbors.com bellm@cleanharbors.com	Facility: 860-583-8917 Kathryn: (w) 860-302-1959 (c) 860-833-9242 Wallace: 978-609-8705	TSDf	Solids and Liquids	Permitted wastewater facility and RCRA Part B facility. Disposal for waste water. TSDf.	Y	Y	Y	Y	Y	Y	Accepted	
Clean Harbors of Woburn (Murphy's Waste Oil Services, Inc.)	252 Salem Street Woburn, MA 01801	Nicole Matthews - Facility Supervisor Steve Cadigan - General Manager	dumas.nicole@cleanharbors.com cadigans@cleanharbors.com	Facility: 781-935-9066 800-522-4645 (toll free)	TSDf	Liquids	Oil recycling facility. Waste oils, antifreeze, ethyl glycol, automotive oil containing water.	N	N	N	N	N	N	Not Accepted	No propyl glycol accepted. Everything must have manifest with facility EPA ID. Transporter ID accepted ONLY in case of emergency. Virgin product only accepted with certification. Contact for specific halogen and flashpoint requirements.
Colonie Landfill (Waste Connections, Inc.)	4 Arrowhead Lane Cohoes, NY 12047	Corey Judd - District Manager Eric Morales - Sales Representative	corevj@wasteconnections.com Ericmo@wcnx.org	Facility Office: 518-783-2827 Facility Scale House: 518-783-2845 Eric: 518-951-0794	Disposal	Solids	Contaminated soil	Y*	N	N	N	N	N	Case-by-case*	*Permit allows for railroad tie, asbestos and other specific waste acceptance only if associated with contaminated soil disposal.
Coplay Aggregates Regulated Fill Site (Material Solution Services-Brokerage Firm)	5101 Beekmantown Road Whitehall, PA 18052	Brian Hilliard - Director of Compliance	bhilliard@coplayagg.com	Office: 610-440-2301 Brian (M): 610-509-7679	Disposal	Solids	Regulated fill in accordance with PADEP Management of Fill Policy (Contaminated Soil)	Y	N	Y	N	N	N	Not Accepted	** Please note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Hazelton Creek as a disposal option.
Cumberland County Landfill Managed by Waste Management of PA.	Landfill: 620 Newville Road Newburg, PA 17240 Hauling Division: 135 Vaughn Road Shippensburg, PA 17257	Mike McIntyre - District Manager (WM)	mmcinty2@wm.com	Facility: 717-423-9953 Mike (M): 610-551-1029	Disposal	Solids	MSW, non-hazardous waste	Y	Y	Y	N	N	Y	Accepted: no longer than 4ft. TCLP testing	

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								1	2	3	4	5	6		
Dudley Reclamation Project (W.L. French Excavating Corp.)	123 Oxford Avenue Dudley, MA 01571	Jarrett Everton - Director of Environmental Services	jevertont@wlfrench.com	Facility: 978-663-2623 Jarrett (O): 978-600-2125 Jarrett (M): 978-375-1068	Disposal	Solids	Non-haz, MassDEP RCS-1 and RCS-2 compliant soils	Y	N	N	N	N	N	Not Accepted	
Envirte of PA INC (US Ecology York; A Republic Service Facility)	730 Vogelsong Road York, PA 17404	Jon Corl - General Manager Erika Rabuck - Compliance Manager Stef Hersh - Transport Manager	jon.corl@usecology.com erika.rabuck@usecology.com stef.hersh@usecology.com	Facility: 717-846-1900 Jon: 717-770-9290	TSDF	Liquids and Solids	RCRA hazardous wastes.	Y	N	Y	Y	Y	Y	3x3, or lab specs	No biohaz, explosives or radioactive waste accepted.
ESMI - A Clean Earth Company (Formerly Environmental Soil Management Inc.)	67 International Drive Loudon, NH 03307	Marc Aubrey - General Manager Michael Phelps - Sales contact Matthew Perras - Approvals and Compliance	maubrey@harsco.com mphelps@harsco.com mperras@harsco.com	Facility: 603-783-0228 Marc (M): 603-316-7210 Mark: 603-783-0228 Matthew: 603-783-0228	Recycling	Solids	Thermal processing of petroleum contaminated soil.	Y	N	N	N	N	N	Not Accepted	No free liquid in soil. Permits are under "ESMI- a Clean Earth Company".
Fish Road Reclamation Project (W.L. French Excavating Corp. and Rampco Construction Co.)	Fish Road Dudley, MA 01571	Jarrett Everton - Director of Environmental Services	jevertont@wlfrench.com	Facility: 978-663-2623 Jarrett (O): 978-600-2125 Jarrett (M): 978-375-1068	Disposal	Solids	Non-hazardous. Soils below MassDEP RCS-1 criteria. Note that soils with arsenic at concentrations up to 100 mg/Kg can be accepted if from a naturally occurring source. Otherwise, arsenic must be below 20 mg/Kg .	N	N	N	N	N	N	Not Accepted	
Globalcycle, Inc.	700 Richmond St. East Taunton, MA 02718	John Roy - Assistant General Manager Kyle Kennedy - General Manager	jroy@globalcycleinc.com kkennedy@globalcycleinc.com	Facility: 508-828-1005 John (M): 774-330-9510 (O): 508-386-8748 Kyle (M): 774-504-1136 (O): 508-828-1005	Recycling	Liquids	Non-hazardous wastewater.	Y	N	N	N	N	N	Not Accepted	Asbestos containing waste must be double bagged and barreled
Greentree Landfill	635 Toby Road Kersey, PA 15846	Anthony (Tony) LaBenne - Sales/Compliance Don Henrichs - Landfill Manager	alabenne@nobleenviro.com dhenrichs@nobleenviro.com	Facility: 814-265-1744 Tony (M): 814-590-9906	Disposal	Solids, Liquids	MSW, C&D, asbestos, TSCA with specs PCB remediation waste < 50 ppm, bulk product >50ppm. petroleum contaminated soils, non-hazardous solid waste.	Y	Y	Y	N	N	Y	Accepted: no size requirements, TCLP testing/ state approval	** Please note that if this facility is to be used, each bin (non-construction or MSW) letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Greentree as a disposal option.
Hazleton Creek Properties, LLC (Hazleton Mine Reclamation Project)	280 South Church Street Hazleton, PA 18201	Ronak Patel - Environmental Director	ronak@hcassociates.org	Facility: 570-501-5050 Ronak (O): 570-878-4852 Ronak (M): 570-878-4852	Disposal	Solids	Fresh, brackish or marine dredge material, coal ash, cement kiln dust, lime kiln dust, co-gen ash, regulated fill, brick, concrete, asphalt (no millings)	Y	N	N	N	N	N*	Not Accepted	** Note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Hazleton Creek as a disposal option.
Heritage Hazardous Waste Landfill (Heritage Environmental Services, LLC)	4370 West County Road 1275N Roachdale, IN 46172	Steve Cross - Regional Corporate Accounts Manager	scross@heritage-enviro.com	Corporate Office: 877-436-8778 Steve (M): 315-406-9342	Disposal	Solids	RCRA hazardous wastes.	Y	N*	N*	N	N	Y	Accepted	*Treated lumber and construction bulk waste are accepted case-by-case. PCB solids accepted
Liquid Solutions, LLC	90 Brookfield Street, South Windsor, CT 06074	Bruce Devanney - Account Manager Dispatch - Appointments/scheduling	BDevanney@e-s-i.com	Bruce (M): (860) 250-3426 Dispatch: (860) 528-9500	Disposal	Solids, Liquids	Non-hazardous catch basin clean-out wastes	N	N	N	N	N	N	Not Accepted	Disposal testing costs included in quoted disposal unit cost; Non-hazardous material only; Disposal by appointment only.
Maplewood Farms (Operated by Lighthouse Environmental Management)	24 Ball Hill Road Berlin, MA 01503	Kevin Francis Gervais - Operations Manager (Lighthouse Environmental)	pradeep@lighthousegmt.com shannon@lighthousegmt.com	617-699-5245	Disposal/Soil Reclamation	Fill Soil	Non-haz fill soil with acceptance criteria based on MassDEP Similar Soil Provision Guidance (SSPG) (WSC#13-500). concentrations RCS-1 or lower.	N	N	N	N	N	N	Not Accepted	
Manchester Landfill	311 Olcott Street Manchester, CT 06040	Ray Carr - Landfill Work Coordinator	rcarr@manchesterct.gov	Facility: 860-647-5278 Ray (O): 860-647-3179	Disposal	Solids	Non-hazardous waste, contaminated soil, manufacturer waste, sewer related waste - no longer accepted after September 31, 2022	Y	Y	Y	N	N	N	Not accepted	Transfer facility on-site for residential solid waste, some liquid oil and antifreeze waste, and MSW. Mercury containing devices accepted ONLY at hazardous waste events for residents.

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Marilyn's Landing / BFI Halifax Landfill (operated by MacDonald Industries)	946 Plymouth Street Bridgewater, MA 02324	Marilyn MacDonald - Operations Manager (MacDonald Industries) Paul Muniz (Environmental Partners, LLC)	marilyn@macdonald-indtries.com pmuniz@ctlep.com	Facility: 508-294-0173 Paul (O): 860-251-9059 Paul (M): 860-883-2511 Marilyn (O): (508) 294-0173	Disposal	Solids	Non-hazardous soil, combination of MassDEP RCS-1 and RCS-2 contamination levels depending on the contaminant class.	N	N	N	N	N	N	Not Accepted	Non-haz, combination of MassDEP RCS-1 and RCS-2 contamination levels depending upon the contaminant class. PFAs sampling may be required, if suspected to be present.
Mostoller Landfill, Inc. (Currently Managed by Waste Management of PA)	7095 Glades Pike Road Somerset, PA 15501	Scott Dellinger - Industrial Account Manager (WM) Judd Piemme - Manager, Environmental Protection Ryan Czarnota - Landfill Operations Manager	sdelling@wm.com jpiemme@wm.com rczarnot@wm.com	Corporate Office: 814-444-0112 Scott (M): 412-475-2808 Judd (M): 724-344-8897 Ryan (M): 716-262-6970	Disposal	Solids	MSW, C&D debris, residual waste, sewage sludge, incinerator ash. TSCA and RCRA, if approved.	Y*	Y	Y	N	N	Y	Accepted if tested and approved by DEP	*Sediments must pass paint filter test. Subtitle D Landfill. Tipper on site for trailer loads.
NLR Inc. (Northeast Lamp Recycling, Inc.)	250 Main Street East Windsor, CT 06088	Joel Gornbein - Business Development Manager	j.gornbein@nlr-green.com	Corporate Office: 877-822-4733 Joel (O): 860-627-9611 Joel (M): 860-209-4599	Recycling	Solids	CRW: mercury containing devices and universal wastes, PCB ballast, fluorescent bulbs.	N	N	N	Y	Y	N	Not Accepted	Do not accept aerosols. Do accept CPUs (computers) and various battery types, but if leaking need to be separately packaged and contained.
Ondrick Materials & Recycling, LLC	58 Industry Road Chicopee, MA 01020	David S. Costanzo- Environmental Divisions Manager	DCostanzo@ondrickmr.com general mailbox: soils@ondrickmr.com	Facility: 413-592-2566 David (M): 413-335-1817	Recycling	Solids	Petroleum contaminated soil.	Y	N	N	N	N	N	Not Accepted	MassDEP permit Class A Level 3 recycling facility. See permit authorization page on website. Asphalt batch plant. No dredge sediment/ only loamy type soil accepted
Ontario County Landfill (Managed by Casella Waste)	1879 Routes 5 & 20 Stanley, NY 14561	Scott Sampson – Sales & Marketing Casella Waste Systems	scott.sampson@casella.com	Facility: 585-526-4420 Scott (M): 603-235-3597	Disposal	Solids	MSW, non-hazardous wastes, special wastes incl. asbestos, ash from boilers/incinerators, contaminated soil, demo debris.	Y	Y	Y	N	N	Y	Accepted: no longer than 4ft preferred. If weathered, no testing necessary. If new, testing needed.	Subtitle D solid waste landfill. Accept sludge, industrial non-hazardous waste
Plainville Landfill	Granger Lane Plainville, CT 06062	John Sullivan - Business Development Manager (Loureiro)	jsullivan@loureiro.com	John: 860-410-3070	Disposal/Soil Reclamation	Solids	Landfill capping and grading material. Materials must meet the facility-specific Material Acceptability Protocol dated September 28, 2022.	Y	N	N	N	N	N	Not Accepted	
Red Technologies, LLC	Soil Yard: 232 Airline Avenue Portland, CT 06980 Haz Yard: 203 Pickering St. Portland	Christopher Windnagle - Compliance Manager contact for permit related items and hazardous and drummed waste disposal Mark Barnes - VP Sales Contact for disposal of soil and bidding	cwindnagle@redtechllc.com mbarnes@redtechllc.com	Intermodal Transfer Facility: 860-342-1022 Corporate Office: 860-218-2428 Chris (O): 860-894-4606	Transfer	Solids	Temporary storage and transfer (for disposal) of contaminated soil/other wastes, including RCRA Hazardous and TSCA Wastes	Y	Y	N	Y	Y	Y	Accepted after profiling	
Republic Services Conestoga Landfill	420 Quarry Road Morgantown, PA 19543	James Kuhn - Environmental Specialist Eugene Lunney - Special Waste Executive	kuhnj@repsrv.com elunney@republicservices.com	Facility: 610-273-6566 James (M): 717-246-4640 Eugene (O): 717-560-1379 Eugene (M): 617-438-1287	Disposal	Solids	MSW, C&D debris, SPECIAL MIXED, ALL NON HAZ residual waste, contaminated soil, asbestos	Y	Y	Y	N	N	Y	Accepted: 6-ft lengths preferred, 8-ft possible. If weathered, no testing necessary. If new, need to be tested.	** Please note that if this facility is to be used, each bin letter will require an additional 10 day (or more) waiting period on top of the 15 day lab period designated in the specs to allow for PADEP review. This will also have to be noted in the spec packages that include Conestoga Landfill as a disposal option. If PADEP provides no response within 15 days, then considered approve.
Rockwood Farms (Operated by Lighthouse Environmental Management)	355 Granby Road Granville, MA 01034	Kevin Francis Gervais - Operations Manager (Lighthouse Environmental)	pradeep@lighthousegmt.com shannon@lighthousegmt.com	617-699-5245	Disposal/Soil Reclamation	Fill Soil	Non-haz fill soil with acceptance criteria based on MassDEP Similar Soil Provision Guidance (SSPG) (WSC#13-500). concentrations RCS-1 or lower.	N	N	N	N	N	N	Not Accepted	PFAS sampling required if suspected as a chemical of concern.
Soil Safe Owned by GFL Environmental	378 Route 130 , Logan Township, NJ 08085	Jim Grant - VP Sales Bill Booth - Facility Manager	jim.grant@gflenv.com bbooth@gflenv.com	Scale House: 856-467-8030 Jim (O): 410-872-3990 ext.: 30313 Bill (M): 516-972-3993	Recycling	Solids	Non-haz , soils contaminated with petroleum, low level metals, PAHs, some industrial waste solids.	Y	N	N	N	N	N	Not Accepted	Class B recycling facility. Approval number required prior to shipping.
Stablex, Canada, Inc. (US Ecology company)	760 Industrial Blvd. Blainville, Quebec J7C 3V4	Pierre-Olivier Gagne - Technical Advisor	pierreolivier.gagne@stablex.com	Facility: 450-430-9230 Pierre: ext. 4744	Treatment and Disposal	Liquid and Solid	Inorganic waste, contaminated soil, hazardous wastes, industrial wastes.	Y	Y	Y	N	Y	Y	Accepted if inorganic contaminates	No organically contaminated waste. International permits can be required for transport of contaminated soil. Limitations in regards to VOCs . Only NON free flowing mercury containing devices accepted. Universal waste has to be hazardous for acceptance in Canada

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Facility	Facility Address	Contact Name(s)	E-Mail Address	Phone Number	TSDF, Recycling or Disposal Facility	Waste State	Waste Class Accepted	Additional Wastes Accepted						Railroad Tie Specifications	Additional Facility Comments
								1	2	3	4	5	6		
Tradebe Treatment and Recycling of Bridgeport LLC.	50 Cross Street Bridgeport, CT 06610	Eric Congdon - Director of Sales, Northeast Tony Boiano - Director of Operations Amy Bassilakis - Regional Env. Compliance Manager Joseph Altieri - Plant Manager	eric.congdon@tradebe.com tony.boiano@tradebe.com amy.bassilakis@tradebe.com joeseeph.altieri@tradebe.com	General: 800-404-4408 Eric Congdon (M): 203-631-0343 Amy Bassilakis (M): 203-464-6022	TSDF	Liquids, Non-Haz Solids are solidified and sent off-site	Certain RCRA and CRW wastes; Oil, hazardous waste fuels, hazardous and non-hazardous wastewater.	Y	Y	Y	N*	N*	Y	Yes	RCRA Permit Issued in 2019 *Items 4 and 5 transferred through the facility, not treated on-site. Small containers accepted (drums, totes, etc.).
Tradebe Treatment & Recycling Northeast, LLC	135 Gracey Avenue Meriden, CT 06451	Eric Congdon - Environ./Operations Director Amy Bassilakis - Regional Env. Compliance Manager Justin Deacon - Plant Manager	eric.congdon@tradebe.com tony.boiano@tradebe.com amy.bassilakis@tradebe.com justin.deacon@tradebe.com	General: 888-276-0887 Eric Congdon (M): 203-631-0343 Amy Bassilakis (M): 203-464-6022	TSDF	Liquids, Solids Transferred Off-Site	RCRA, CRW wastewater, oil, hazardous waste fuels, hazardous and non-hazardous wastewater.	N	N	N	N*	N*	N*	Not Accepted	*Items 4, 5, and 6 transferred through the facility, not treated on-site.
Triumvirate	263 Howard Street Lowell, MA 01852	John Menzigan - Regulatory Compliance Manager	jmenzigan@triumvirate.com	Facility: 978-453-7772	TSDF	Liquids and Solids	RCRA hazardous wastes; TSCA wastes.	Y	N	N	Y	Y	Y	Yes	TSDF; No C&D, hazardous debris accepted.
Tunnel Hill Reclamation	8822 Tunnell Hill Road New Lexington, Ohio 43764	Josh Rennicker - Operations Manager	jrennicker@win-waste.com	Facility: 740-342-1180 Josh (C): 330-432-3382	Disposal	Solids	MSW, non-hazardous waste, contaminated soil.	Y	Y	Y	N	N	N	Not Accepted	Subtitle D Landfill.
Turnkey Landfill (Waste Management of NH)	176 Rochester Neck Road PO Box 7065 Rochester NH, 03839	Joe Iannuzzi - Senior District Manager Ellen Bellio - Approval Manager	jianuz2@wm.com	Tech Service Center: 800-963-4776 Joe (M): 978-730-9907 Ellen (O): 603-330-2170 Ellen (M): 603-833-3073	Disposal	Solids	MSW, C&D, asbestos, PCB remediation waste < 50 ppm, virgin petroleum contaminated soils, non-hazardous solid wastes.	Y	Y	Y	N	N	Y*	**Accepted in special case by case manner. no longer than 4ft, if larger, additional charge. If weathered, no testing.	*Asbestos material required profiling **For railroad ties, call Shawn Erwin: 716-286-0230.
US Ecology (FKA Environmental Quality Detroit Inc.)	1923 Frederick Street Detroit, MI 48211	John Barta - General Manager	john.barta@usecology.com	Facility: 313-347-1300 John (O): 313-347-1330 John (M): 586-229-0253	TSDF	Solid and Liquids	TSDF; RCRA hazardous and non-hazardous wastewater.	Y	Y	Y	Y	Y	Y*	Not Accepted	TSDF; *Case-by-case for asbestos level acceptance.
US Ecology Wayne Disposal Facility Landfill	49350 North I-94 Service Drive Belleville, MI 48111	Sylvia Scott - Area Environmental Manager	sylvia.scott@usecology.com	Corporate Office: 800-592-5489 Sylvia (O): 734-699-6294 (M): 734-576-0423	TSDF	Liquid and Solid	RCRA Hazardous Wastes; TSCA Wastes.	Y	Y	Y	Y	Y	Y	Accepted; <or = 3x3x3 preferred	TSDF US Ecology is now shareholder that has been acquired by Republic
Waste Management: Middleborough Sanitary Landfill	207 Plympton Street Middleborough, MA 02346	Patrick Milmoie - Industrial Account Manager Dave Pope - District Manager	PMilmoie@wm.com DPope@wm.com	Patrick (M): 508-962-3671 Dave (M): 508-958-1301 Dave (O): 508-823-6570	Disposal	Solids	Non-hazardous soil, RCRA Subtitle D landfill, that meets MassDEP COMM-97-001 acceptance criteria for lined landfills.	N	N	N	N	N	N	Not Accepted	Limited acceptance rate of 320-tons per day, MassDEP COMM-97-001 Lined Landfill.
Waste Management: RCI Fitchburg Landfill	101 Fitchburg Road, Westminster, MA 01473	Frank Sepiol - Environmental Protection Specialist	fsepil@wm.com	Facility: 978-874-0037 Frank (M): 413-519-3916	Disposal	Solids	MSW, non-hazardous waste, C&D, contaminated soil for use as cover material under MassDEP COMM-97-001 policy, BUD permit required for sediment pulled from CT water bodies.	Y	N	N	N	N	N	Not Accepted	
Winchendon Landfill (W.L. French Excavating Corp.)	580 River Street Winchendon, MA	Jarrett Everton - Director of Environmental Services	jeverson@wlfrench.com	General: 978-663-2623 Jarrett (O): 978-600-2125 Jarrett (M): 978-375-1068	Disposal	Solids	Non-haz, Solids (soils, catch basin cleanings, street sweepings and dewatered dredge materials) that meet MassDEP COMM-97-001 acceptance criteria for unlined landfills.	Y	N	N	N	N	N	Not Accepted	MassDEP COMM-97-001 Unlined Landfill

Additional Waste Key:
1: Sediments Generated in CT
2: Treated Lumber (Creosote, Penta, CCA, etc.)
3: Construction Bulk Waste
4: Mercury-Containing Devices
5: Universal Waste
6: Asbestos

ITEM #0202000A – EARTH EXCAVATION

ITEM #0202200A – CHANNEL EXCAVATION-EARTHWORK

ITEM #0202401A – REMOVAL OF TEMPORARY PAVEMENT

ITEM #0202483A – REMOVAL OF BITUMINOUS CURB

ITEM #0202502A – REMOVAL OF CONCRETE BUILDING SLAB

ITEM #0202503A – REMOVAL OF CONCRETE CURB

ITEM #0202513A – REMOVAL OF CONCRETE SIDEWALK

ITEM #0202515A – REMOVAL OF CONCRETE APRON

ITEM #0202530A – REMOVAL OF BITUMINOUS SURFACE

Work under this item shall conform to the requirements of Section 2.02, amended as follows:

Materials:

Add the following:

Materials shall conform to utility requirements.

Construction Methods:

Add the following:

Bituminous concrete pavement will be excavated in a separate operation and will be disposed of properly. Bituminous concrete pavement is not allowed as backfill material unless it is processed and used in the construction of the roadway pavement section.

The excavation of existing processed aggregate base and subbase shall be accomplished to allow the reuse of these materials. This includes all site handling and stockpiling of the material. The reused material will be utilized to offset the importing of subbase within the project area.

The Removal of Bituminous Surface is denoted throughout the project area. This will include the removal and handling of the material on site and the proper disposal of the material.

The Removal of Bituminous Curb is denoted throughout the project area. This will include the removal and handling of the material on site and the proper disposal of the material.

The Removal of Concrete Building slab is **indicated on sheets HM-102 and CP-101** ~~denoted by the fenced-in area in AEOC-5~~. The floor slab is covered with soil and minor vegetation. The Contractor

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will remove the slab as indicated and proceed with the excavation of the soil underneath it ~~as shown on HM-101~~.

Removal of Concrete Sidewalk occur throughout the project area. The Contractor, as part of his work will remove concrete sidewalks once the sidewalks are closed to pedestrian traffic.

The Removal of Concrete Apron occurs in two areas. The first area is the pedestrian crossing within the site access at Hanover Street. The second area is the pedestrian crossing within the site access at Butler Street. The Contractor, as part of his work will remove the concrete apron once the adjacent sidewalks are closed to pedestrian traffic.

As indicated on the plans, the removal of concrete curbs occurs at various locations at the site.

Excavation for the removal of temporary pavement shall include the excavation temporary handling and removal of the 2-inch surface bituminous layer and 2-inch removal, handling and storage of process aggregate base.

Final excavation for roadway subgrades, including subgrades for embankment widening, channel excavation and removal of unsuitable material should be made using equipment with a smooth-edge blade or bucket. Vegetation and topsoil should be removed from areas prior to placing fill for embankment widening.

Embankment areas shall not be constructed during times of high water. The Contractor shall take care not to leave low lying excavations open and shall place fill and embankment material immediately after excavation. Excavations that require dewatering shall comply with the requirements of Handling Water.

Method of Measurement:

Add the following:

Overhaul will not be considered part of the work. The Contractor shall consider the entire project work area as one site.

The Cutting of Bituminous Concrete will not be measured for separate payment.

The Removal of Concrete Floor Slab will be measured by the number of square yards that is completed and accepted.

The Removal of Concrete sidewalk will be measured by the number of square yards that is completed and accepted. This includes varying thicknesses and styles of sidewalk, including but not limited to curb-face sidewalk, sidewalk ramps and sidewalk.

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The Removal of Concrete Apron will be measured by the number of square yards that is completed and accepted.

The removal of concrete curb will be measured by the number of linear feet that is completed and accepted.

The Removal of Temporary Pavement will be measured by the number of square yards that is completed and accepted.

Basis of Payment:

Add the following:

The Cutting of Bituminous Concrete is incidental and will be paid for as a portion of the work of the associated contract items.

The work will be paid for at the contract unit price per square yard for “Removal of Concrete Building Slab,” “Removal of Concrete Sidewalk”, “Removal of Concrete Apron”, and “Removal of Concrete Apron” complete in place which price shall include excavation, site handling, breaking of material for disposal off-site, and any associated environmental conditions and all materials, tools, equipment, labor and work incidental thereto.

The work will be paid for at the contract unit price per linear foot for “Removal of Concrete Curb” complete which price shall include excavation, site handling, on-site storage, and disposal from the site and all materials, tools, equipment, labor and work incidental thereto.

The work will be paid for at the contract unit price per square yard for “Removal of Temporary Pavement” complete in place which price shall include excavation, site handling, on-site storage of material for reuse on site, and all materials, tools, equipment, labor and work incidental thereto.

The work will be paid for at the contract unit price per square yard for “Removal of Bituminous Surface” complete in place which price shall include excavation, removal, site handling, disposal and all materials, tools, equipment, labor and work incidental thereto.

The work will be paid for at the contract unit price per linear foot for “Removal of Bituminous Curb” complete in place which price shall include excavation, removal, site handling, disposal and all materials, tools, equipment, labor and work incidental thereto.

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<u>Pay Item</u>	<u>Pay Unit</u>
Earth Excavation	CY
Channel Excavation-Earthwork	CY
Removal of Concrete Building Slab	SY
Removal of Concrete Sidewalk	SY
Removal of Concrete Apron	SY
Removal of Concrete Curb	LF
Removal of Temporary Pavement	SY
Removal of Bituminous Surface	SY
Removal of Bituminous Curb	LF

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ITEM #0202513A, ITEM #0202515A

ITEM #0601275A - PRECAST SUBSTRUCTURE ELEMENTS (SITE NO. 1)

#0601276A - PRECAST SUBSTRUCTURE ELEMENTS (SITE NO. 2)

Description:

Work under the item “Precast Substructure Elements (Site No. x)” shall include the fabrication, delivery, excavation, temporary shoring, and installation of the modular precast substructure elements including abutment stems, bearing seats, and backwalls as shown in the plans. This item shall include all necessary materials and equipment to complete the work, as shown on the plans, including structure excavation and the support of the excavation. The substitution of cast-in-place concrete may be allowed for all or some of the elements, with approval from the Engineer.

Micro-pile supported foundations shall be cast in place and are not included in this item.

Materials:

The materials for precast substructure elements shall conform to the following requirements:

Use the same manufacturer as the adjacent retaining walls (Retaining Wall (Site No. x)) for aesthetic uniformity between the abutment and the retaining walls.

The precast elements shall have a minimum cure of 14 days prior to placement. Supply test data such as slump, air voids, or unit weight for the fresh concrete and compressive strengths for the hardened concrete after 7, 14, and 28 days, if applicable.

Prefabricated Modular and Mechanically Stabilized Earth Walls: Materials shall meet the following requirements, and those not listed below shall be as prescribed within the Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, including supplemental specifications and applicable special provisions.

a. Concrete: The concrete shall meet the requirements of Section M.03 and as follows:

Concrete for all precast components shall be air-entrained, Portland cement, fine and coarse aggregates, admixtures and water. An air-entraining Portland cement or an approved air-entraining admixture shall be used. The entrained-air content shall be from 4% to 7%. The concrete shall attain a minimum 28-day strength (f_c) of 4,500 pounds per square inch. The mix design shall be furnished to the Engineer.

Concrete for footings or unreinforced leveling pads shall meet the requirements of Class PCC03340 Concrete. Class PCC04460 Concrete shall be used for cast-in-place concrete copings.

Concrete Finish: Unless otherwise indicated on the plans or elsewhere in the specifications, the concrete surface for the exposed face shall have a steel form finish. All non-exposed surfaces shall

have an unformed finish which shall be free of open pockets of aggregate and surface distortions in excess of 1/4 inch.

Special Surface Treatment: If a special surface finish is proposed, before proceeding with production, a model face panel shall be provided by the fabricator for the Engineer's approval, to establish a guide and standard for the type of finish on the exposed face. This panel shall be stored at the fabricator's plant to be used for comparison purposes during production. Formed surfaces other than the exposed face shall not require a special finish.

Acceptance Criteria for Precast Components: Acceptance of precast components shall be based on the concrete strength, the soil reinforcement connection devices and the panel or module dimensions meeting the manufacturer's allowable tolerances. Any chipping, cracks, honeycomb or other defects shall be within acceptable standards for precast concrete or repaired as determined by the Engineer.

It is recognized that certain cracks and surface defects are not detrimental to the structural integrity of the precast components if properly repaired. The Engineer shall determine the need for, and proper method of, such repair and all repairs shall be approved by the Engineer prior to acceptance for use in wall construction.

Marking: The date of manufacture, production lot number, and piece-mark shall be clearly marked on the non-exposed side of each element.

Construction Methods:

1. **Shop Drawings:** The Contractor shall submit Shop Drawings in accordance with the requirements of Article 1.05.02. Acceptance of the Shop Drawings will be required prior to ordering of the materials and the fabrication of the precast elements.

At a minimum, the Shop Drawings shall include the following information:

- a) The stamp of the registered Professional Engineer licensed in the State of Connecticut who has reviewed and certified the Shop Drawings.
- b) All lifting inserts, hardware, or devices and locations for Engineer's approval.
- c) Locations and details of the lifting devices, including supporting calculations, type, and amount of any additional reinforcing required for lifting. All lifting devices will be designed based on the no cracking criteria in Chapter 8 of the PCI Design Handbook (seventh edition).
- d) Dimensions from working points or working lines to prevent the accumulation of dimensional tolerances.
- e) The minimum compressive strength attained prior to handling the precast element.
- f) Details of leveling devices or vertical adjusting hardware.
- g) Reinforcement details in accordance with Subarticle 6.02.03-1 of Form 818.
- h) Conformance of the design with the bridge superstructure loads given in the plans.
- i) Connections of the stem to the bridge seat, and the bridge seat to the backwall/cheekwalls
- j) Drawings in accordance with Article 1.05.02, for any temporary earth retaining systems (TERS) necessary (included in the lump sum item)..

2. Assembly Plan: The Working Drawings is a document prepared by the Contractor and a qualified Engineer with specific knowledge of the Contractor's equipment and "means and methods" for constructing the precast elements required to complete the work on the project. The development of the Working Drawings is closely linked to the schedule of operations and the interim material strengths necessary for the work to progress. The Contractor shall be involved with any required modifications to the Shop Drawings so that he can incorporate these into the development of the Assembly Plan.

The Working Drawings will be reviewed by both the Engineer of Record and the District Construction personnel. The approved Working Drawings will serve as the governing specification with respect to progressing with construction prior to components achieving the final required material strengths as stated in Form 818. Acceptance of the Working Drawings will be required prior to the start of the closure of the roadway.

Under no circumstances shall the fabrication of the precast elements commence prior to the acceptance of the Shop Drawings and the Working Drawings unless written permission is given by the Engineer. The Department shall reject any components fabricated before receiving written approval or components that deviate from the approved drawings. Any expenses incidental to the revision of materials furnished, in accordance with the Shop Drawings and order lists, to make them comply with the plans and specifications, including costs incurred due to faulty detailing or fabrication, shall be borne by the Contractor.

At a minimum, the Working Drawings shall include the following information:

- a) Details and/or cut sheets of all equipment that will be employed for the assembly of the precast element.
- b) Details of all equipment to be used to lift the precast element including cranes, excavators, lifting slings, sling hooks, and jacks. Crane locations, operating radii, and lifting calculations. The factors of safety for the lifting of slabs will be achieved by using 125% of the weight of the element being lifted in the calculations.
- c) A procedure for handling and erection including bracing requirements based on Chapter 8 of the PCI Design Handbook (seventh edition). Calculations shall be prepared for the lifting and handling in accordance with the no discernible cracking criteria and shall be submitted as part of the Assembly Plan. Lifting hook locations and hardware should be coordinated with the Fabricator.
- d) A statement of compliance with all requirements of applicable environmental permits.
- e) A work area plan, depicting all affected utilities, drainage, and protective measures that will be employed throughout the construction activities.
- f) Full size 22"x34" sheets depicting the assembly procedures for the precast elements.
- g) A detailed schedule with a timeline for all operations. In development of the schedule the Contractor shall account for setting and cure time for concrete closure pours.
- h) Methods of providing temporary support of the precast element. Include methods of adjusting and securing the element after placement.
- i) Procedures for controlling erection tolerances for both the horizontal and vertical direction.
- j) Methods of forming closure pours with form liners to match precast elements.
- k) Methods of forming grouted shear keys.
- l) The Working Drawings shall be bound into one complete document and shall be prepared

and stamped by a registered Professional Engineer licensed in the State of Connecticut.

3. Installation: The modular units shall be installed in accordance with manufacturer's recommendations. Special care shall be taken in setting the bottom course of units to true line and grade.

The vertical joint opening on the front face of the wall shall not exceed 3/4 inch. Vertical tolerances and horizontal alignment of the wall shall not exceed 3/4 inch in 8 feet from the vertical. The plumbness of the wall from top to bottom shall not exceed 1/2 inch per 8 feet, or 1 inch total, whichever is less, measured from the face line shown on the plans. A strip of geotextile shall be installed at all vertical joints.

Assembly of the various components shall not place any undue strain or stress on any of the members that constitute the completed structure.

Backfilling shall be as detail by the wall manufacturer. Cost for the backfill shall be included in the item "Previous Structure Backfill".

4. Quality Control: At a minimum, the following requirements shall be met:
 - a) All precast substructure elements shall be fabricated by a PCI certified fabricator that is approved by the Department with a minimum certification of "B1".
 - b) Cracking or damage of precast substructure elements will be prevented during handling and storage.
 - c) Defects and breakage of precast elements will be repaired or the element replaced, as follows:
 - i. Members that sustain damage or surface defects during fabrication, handling, storage, hauling, or erection are subject to review or rejection.
 - ii. Approval shall be obtained before performing repairs.
 - iii. Repair work must re-establish the elements' structural integrity, durability, and aesthetics to the satisfaction of the Engineer.
 - iv. The cause shall be determined when damage occurs and corrective action shall be taken.
 - v. Failure to take corrective action, leading to similar repetitive damage, can be cause for rejection of the damaged element.
 - vi. Cracks that extend to the nearest reinforcement plane and fine surface cracks that do not extend to the nearest reinforcement plane but are numerous or extensive are subject to review and rejection.
 - vii. Full depth cracking and breakage greater than one foot are cause for rejection.
 - d) Precast elements shall be constructed to tolerances shown on the plans. Where tolerances are not shown, follow tolerance limits in the PCI MNL116, "Manual for Quality Control for Plants and Production of Structural Precast Concrete Products, 4th Edition".
 - e) The plant shall document all test results. The quality control file shall contain at least the following information:
 - i. Element identification.
 - ii. Date and time of cast.
 - iii. Concrete cylinder test results.
 - iv. Quantity of concrete used and the batch printout.

- v. Form-stripping date and repairs if applicable.
 - vi. Location/number of blockouts and lifting inserts.
 - vii. Temperature and moisture of curing period.
 - viii. Document lifting device details, requirements, and inserts.
- f) The Contractor will be required to perform strength testing of materials prior to proceeding to the next stage of construction. The strength achieved at the time of testing will be required to meet the value in the approved Working Drawings. The Contractor shall not rely solely on cylinder breaks by Department personnel as the schedules for testing by the Department will not be changed. The Contractor shall provide this testing at his/her own expense and shall take the required number of cylinders or cubes in the event that the material does not gain strength as anticipated.

5. **Marking:** Permanently mark each precast substructure element with the date of casting and supplier identification. Stamp markings in fresh concrete.

6. **Special Considerations:** Dry fit adjacent elements in the shop to assure proper fit in the field.

7. **Handling and Storage:** Care shall be taken during storage, transporting, hoisting and handling of all precast sections to prevent damage. Sections damaged by improper storing, transporting or handling shall be repaired or replaced by the Contractor, as directed by the Engineer and at no cost to the State. All storage and handling operations shall be as directed by the Engineer. The precast sections shall not be removed from their casting beds until the concrete has attained the minimum compressive strength determined by the Contractor and approved by the Engineer. Precast sections shall not be shipped to the job site until the 28-day strength (f'c) has been attained. Provide to the Engineer a delivery schedule at least two weeks in advance of the shipment of precast elements to the job site.

Method of Measurement:

This work will be measured for payment lump sum for the precast substructure elements installed and accepted, and will not be measure for payment.

Basis of Payment:

This work will be paid for at the Contract lump sum price for “Precast Substructure Elements (Site No. X)” complete in place, which price shall include all work shown within the pay limits on the plans for the retaining wall including the following:

- 1.Design and construction of the proprietary modular abutment wall.
- 2. Excavation required for the construction of the modular abutment wall.
- 3. Design and construction of temporary earth retaining systems to retain the existing facilities during construction.
- 4. The furnishing and placing of backfill drainage systems for the wall.
- 5. Services of the On-Site Representative.
- 6. Any other work and materials shown on the plans for the modular abutment wall.

The price shall also include all materials, equipment, tools and labor incidental thereto.

(Addendum No. 3)

Pay Item
Precast Substructure Elements (Site No. X)

Pay Unit
L.S.

ITEM #0601445A - EMBANKMENT WALL (SITE NO. 1)
ITEM #0601446A - EMBANKMENT WALL (SITE NO. 2)

Description:

This item will consist of designing, furnishing and constructing an embankment retaining wall in the location, grades, and to the dimensions and details shown on the contract drawings, and in accordance with these specifications.

Retaining Wall Selection:

The embankment wall type shall be selected from the list of embankment walls shown on the plans. The Engineer will reject any proposed embankment wall type that is not listed on the plans. **The plans will list all proprietary embankment walls that are appropriate for each Site. This list does not warrant that the walls can be designed to meet either the dimensional, structural, or geotechnical constraints at each Site.**

Refer to the CTDOT's Qualified Product List (QPL) for the current approved proprietary embankment wall and for the suppliers' contact information; no other proprietary embankment walls will be allowed. The CTDOT's QPL can be found at:

<https://portal.ct.gov/-/media/DOT/documents/dresearch/conndotqplpdf.pdf?la=en>

NOTE: SEE THE PLANS FOR THE SPECIFIC EMBANKMENT WALL TYPES THAT ARE ACCEPTABLE FOR EACH SITE.

No other proprietary embankment walls will be allowed for this project.

This listing does not warrant that the individual walls can be designed to meet either the dimensional, structural, or geotechnical constraints at each site.

Design:

- 1 - Design Computations: It is the Contractor's responsibility for the design, detailing and additional construction specifications required to construct the wall. The actual designer of the retaining wall shall be a qualified Professional Engineer licensed in the State of Connecticut.
- 2 - Designer's Liability Insurance: The Designer of the proprietary retaining wall shall secure and maintain, at no direct cost to the City, a Professional Liability Insurance Policy for errors and omissions in accordance with Articles 1.03.07 and 1.05.02.

3 - Preliminary Submissions: Prior to the start of fabrication or construction, the Contractor shall submit to the Engineer a design package, which shall include, but not be limited to the following:

a. Detailed Plans:

- Stamped by a licensed Professional Engineer (Connecticut).
- Full plan view of the wall drawn to scale. The plan view must reflect the horizontal alignment and offset from the horizontal control line to the face of the wall. Beginning and ending stations, all utilities, signs, lights, etc. that affect the construction along with all property lines and easement lines adjacent to the wall shall be shown.
- Full elevation view of the wall drawn to scale. Elevation views should indicate the elevation at the top and bottom of walls, horizontal and vertical break points, and the location of finished grade.
- Typical cross sections drawn to scale including all appurtenances. Detailed cross section should be provided at significant reinforcement transitions such as wall ends.
- Details of all wall components and their connections such as the length, size and type of soil reinforcement and where any changes occur; facing details; connections; etc.
- Certified test reports indicating the connection strength versus normal load relationship for the block-soil reinforcement connection to be used.
- Drainage details for embankment backfill including attachment to outlets shown on contract drawings.
- Details of any roadway drainage pipe projecting through the wall, or any attachments to the wall. Details of the treatment of drainage swales or ditches shown on the contract drawings.
- Design parameters used along with AASHTO references.
- Material designations for all materials to be used.
- Detailed construction methods including a quality control plan. Construction quality control plans should include monitoring and testing frequencies (e.g. for setting batter and maintaining horizontal

and vertical control). Construction restraints should also be listed in the details. Specific requirements for construction around obstructions should be included.

- Details of installation of protective fencing where required.
- Details of Architectural Treatment where required.
- Details of Temporary Earth Retaining System(s) where required.
- Details of wall treatment where the wall abuts other structures.
- Treatment at underground utilities where required.

b. Design Computations:

- Stamped by a licensed Professional Engineer (Connecticut).
- Computations shall clearly refer to the applicable AASHTO provisions as stated in the Notes on the Contract Drawings.
- Documentation of computer programs including all design parameters.

c. Construction Specifications:

- Construction methods specific to the proprietary retaining wall chosen. These specifications should include construction limitations including vertical clearance, right-of-way limits, etc. Submittal requirements for materials such as certification, quality, and acceptance/rejection criteria should be included. Details on connection of modular units and connection of reinforcements such that assurance of uniform stress transfer should be included.
- Any requirements not stated herein.

The submissions for proprietary retaining walls shall be treated as working drawings according to Section 1.05 amended as follows:

- a. Six sets of each submission shall be supplied to the City
- b. The Contractor shall allow 21 days for the review of each submission. If subsequent submissions are required as a result of the review process, 21 days shall be allowed for review of these submissions. No extensions in contract time will be allowed for the review of these submissions.

- 4 - Final Submissions: Once a proprietary retaining wall design has been reviewed and accepted by the City, the Contractor shall submit the final plans. The final submission shall include one set of full size (approximately 24" x 36") mylar sheets and five sets of full size blue line copies.

The final submission shall be made within 14 days of acceptance by the City. No work shall be performed on the retaining wall until the final submission has been received by the City.

Acceptance of the final design shall not relieve the Contractor of his responsibility under the contract for the successful completion of the work.

The actual designer of the proprietary retaining wall is responsible for the review of any shop drawings prepared for the fabrication of the wall. One set of full size blue line copies of all approved shop drawings shall be submitted to the City's permanent records.

5 - General Design Requirements:

- a. All designs for proprietary walls and temporary earth retaining systems shall conform to the latest edition of the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, including the latest interims, as specified in the plans, except as noted otherwise herein:
- b. The wall design shall follow the general dimensions of the wall envelope shown in the contract plans.
- c. The top of the concrete leveling pad shall be located at or below the theoretical leveling pad elevation. The minimum wall embedment shall be two feet as measured to the top of the leveling pad or as shown on the plans.
- d. If footing steps are required, they shall be kept below the minimum embedment depth. Footing steps in addition to those shown on the plans will be permitted at no additional cost to the City.
- e. The wall shall be designed to be within all property lines and easement lines shown on the contract drawings. If additional work areas are necessary for the construction of the proprietary retaining wall, the Contractor shall be responsible for obtaining the rights from the affected property owners. Copies of these rights shall be forwarded to the City.
- f. The top of the wall shall be at or above the top of the wall elevations shown on the plans. The top of the wall may be level or sloped to meet the top of the wall line noted.

- g. Cast-in-place concrete will not be an acceptable replacement for areas noted by the wall envelope, except for minor grouting of pipe penetrations.
- h. The mechanical wall height for the purposes of design calculations shall be from the top of the leveling pad to the top of the potential failure surface where the failure surface intercepts the ground surface.
- i. The minimum length of internal soil reinforcement shall be as specified in AASHTO 11.10.2.1, except for the minimum eight (8.0') foot length requirement.
- j. If there are specific surcharges acting on the wall, they shall also be accounted for. The minimum equivalent fluid pressure used to design the wall shall be 33 lbs./ft² per linear foot of wall.
- k. The maximum factored service limit bearing resistance of the soil shall be assumed to be 4 ksf unless otherwise shown on the plans. If additional soils information is required by the designer, it must be obtained by the Contractor and will not be reimbursed by the City.

Materials:

Materials shall conform to the following requirements and those not listed below shall be as prescribed within the Standard Specifications for Roads, Bridges and Incidental Construction, including supplemental specifications and applicable special provisions.

1 – Facing Block: The facing block can be precast or drycast concrete and shall be the color specified on the plans. The block shall meet the following requirements:

- a. Drycast Concrete:
 - i. The minimum compressive strength of the block shall be 4000 psi measured at 28 days.
 - ii. The maximum water absorption shall be less than five percent.

The Contractor shall submit to the Engineer a certified test report confirming the compressive strength and water absorption conform to the requirements of ASTM C-140.

- b. Precast Concrete: Shall conform to the requirements of Section M.03 and as follows:
 - i. The minimum compressive strength of the block shall be 4000 psi measured at 28 days.
 - ii. All precast concrete components shall be air-entrained composed of Portland cement, fine and coarse aggregates, admixtures and water. The air-entraining

feature may be obtained by the use of either air-entraining Portland cement or an approved air-entraining admixture. The entrained-air content shall be not less than four percent or more than seven percent.

- 2 - Geosynthetic Soil Reinforcement: The minimum strength of the geosynthetic soil reinforcement shall be based on experimental data. The Contractor shall submit to the Engineer a certified test report confirming the strength of the material when tested according to the methods specified in ASTM D5262 and extrapolated according to ASTM D2837 as outlined in AASHTO Article 5.8.7.2.
- 3 - Metallic Soil Reinforcement: All soil reinforcement and structural connectors shall be hot dipped galvanized according to the requirements of ASTM A123 (AASHTO M-111). The minimum thickness of the galvanizing shall be based on the service life requirements as previously stated.

Steel strip reinforcement shall be hot rolled to the required shape and dimensions. The steel shall conform to AASHTO M223 (ASTM A572) Grade 65 unless otherwise specified.

Welded wire fabric reinforcement shall be shop fabricated from cold-drawn wire of the sizes and spacings shown on the plans. The wire shall conform to the requirements of ASTM A82, fabricated fabric shall conform to the requirements of ASTM A185.

- 4 - Metal Connectors: All metal hardware shall be hot dipped galvanized according to the requirements of ASTM A123 (AASHTO M-111). The minimum thickness of the galvanizing shall be based on the service life requirements in the AASHTO Specifications.
- 5 - Backfill Material: The material for backfill shall be Pervious Structure Backfill conforming to the requirements of Articles M.02.05 and M.02.06.
- 6 - Facing Sealer: The face of all exposed drycast block shall be coated with clear Penetrating Sealer Protective Compound conforming to the requirements of Article M.03.02

Construction Methods:

All construction methods for items not listed below shall be in accordance with the detailed requirements prescribed for the construction of the several contract items entering into the completed structure as specified in the Standard Specifications for Roads, Bridges, and Incidental Construction.

- 1 - Installation: The foundation for the structure shall be graded level for a width equal to or exceeding the length of the soil reinforcements, or as shown on the plans. If rock is encountered in the excavation, it shall be removed to provide a level area equal to or exceeding the length of the soil reinforcements, but not greater than the pay limits shown on the plans.

Prior to wall construction, the foundation, if not in rock, shall be compacted as directed by the Engineer. Any foundation soils found to be unsuitable shall be removed and replaced.

At each foundation level, an unreinforced concrete leveling pad shall be provided as shown on the plans. The leveling pad shall have nominal dimensions of 6 inch thickness and 24 inch width, and shall be cast using minimum 2,000 psi 28-day compressive strength concrete. The leveling pad shall be cast to the design elevations as shown on the plans. Allowable elevation tolerances are +0.01 foot (1/8 inch), and -0.02 foot (1/4 inch), from the design elevation.

The materials for the wall shall be handled carefully and installed in accordance with manufacturer's recommendations and specifications. Special care shall be taken in setting the bottom course of blocks to true line and grade.

All blocks above the first course shall interlock with the lower courses by means of connecting pins. Vertical joints shall be staggered with each successive course as shown on the working drawings. Vertical tolerances and horizontal alignment tolerances measured from the face line shown on the plans shall not exceed ½ inch when measured along an 8-foot straightedge. The overall tolerance of the wall from top to bottom shall not exceed ½ inch per eight feet of wall height or one inch total, whichever is the lesser, measured from the face line shown on the plans. A bond breaker shall be placed between the blocks and any adjacent cast-in-place concrete.

- 2 - Backfilling: Backfill placement shall closely follow erection of each course of panels. Backfill shall be placed in such a manner as to avoid any damage or disturbance to the wall materials or misalignment of the facing panels. Any wall materials which become damaged or disturbed during backfill placement shall be either removed and replaced at the Contractor's expense or corrected, as directed by the Engineer. Any backfill material placed within the reinforced soil mass which does not meet the requirements of this specification shall be corrected or removed and replaced at the Contractor's expense.

Backfill shall be compacted to 95 percent of the maximum density as determined by AASHTO T-99, Method C or D (with oversize correction, as outlined in Note 7).

The moisture content of the backfill material prior to and during compaction shall be uniform throughout each layer. Backfill material shall have a placement moisture content less than or equal to the optimum moisture content. Backfill material with a placement moisture content in excess of the optimum moisture content shall be removed and reworked until the moisture content is uniform and acceptable throughout the entire lift. The optimum moisture content shall be determined in accordance with AASHTO T-99, Method C or D (with oversize correction, as outlined in Note 7).

If 30 percent or more of the backfill material is greater than 19 mm in size, AASHTO T-99 is not applicable. For such a material, the acceptance criterion for control of compaction

shall be either a minimum of 70 percent of the relative density of the material as determined by a method specification provided by the wall supplier, based on a test compaction section, which defines the type of equipment, lift thickness, number of passes of the specified equipment, and placement moisture content.

The maximum lift thickness after compaction shall not exceed 10 inches, regardless of the vertical spacing between layers of soil reinforcements. The Contractor shall decrease this lift thickness, if necessary, to obtain the specified density. Prior to placement of the soil reinforcements, the backfill elevation at the face shall be level with the connection after compaction. From a point approximately three feet behind the back face of the panels to the free end of the soil reinforcements the backfill shall be two inches above the attachment device elevation unless otherwise shown on the plans.

Compaction within three feet of the back face of the panels shall be achieved by at least three passes of a lightweight mechanical tamper, roller or vibratory system. The specified lift thickness shall be adjusted as warranted by the type of compaction equipment actually used. Care shall be exercised in the compaction process to avoid misalignment of the panels or damage to the attachment devices. Heavy compaction equipment shall not be used to compact backfill within three feet of the wall face.

At the end of each day's operation, the Contractor shall slope the last level of backfill away from the wall facing to direct runoff of rainwater away from the wall face. The Contractor shall control and divert runoff at the ends of the wall such that erosion or washout of the wall section does not occur. In addition, the Contractor shall not allow surface runoff from adjacent areas to enter the wall construction site.

- 3 - Face Sealer: After the wall has been erected, the entire exposed face of the wall shall be coated with Penetrating Sealer Protective Compound. The application of the sealer shall conform to the requirements Article 8.19.03.

Several samples of the dry cast block shall be sealed prior to sealing the actual wall to ensure that the sealer will not discolor the block. If the sealer does discolor the block, the Contractor shall change to another approved supplier of sealer.

Method of Measurement:

This work will be paid for on a lump sum basis and will not be measured for payment.

Basis of Payment:

This work will be paid for at the contract lump sum for "EMBANKMENT WALL (SITE NO.)", complete in place, which price shall include all work shown within the pay limits shown on the plans for the retaining wall including but not limited to the following:

1. Design, detailing, and specifications for the wall.

2. Excavation for the wall
3. Design and Construction of temporary earth retaining systems for the support of the slope during construction.
4. Construction of the Embankment Wall, including the unreinforced concrete leveling pad.
5. The furnishing, placing and compacting of pervious structure backfill within the maximum payment lines.
6. The furnishing and placing of backfill drainage systems for the wall.
7. Any other work and materials shown on the plans for the construction of the wall.

The price shall also include all materials, equipment, tools and labor incidental thereto.

If bedrock or large boulders (greater than one cubic yard) are encountered in the excavation, the payment for its removal will be made under the item "Structure Excavation - Rock".

<u>Pay Item</u>	<u>Pay Unit</u>
Embankment Wall (Site No. 1)	LS
Embankment Wall (Site No. 2)	LS

HARBOR BROOK
BRIDGE REPLACEMENT AND UTILITY IMPROVEMENTS
BUTLER STREET AND HANOVER STREET

CITY PROJECT NO. B02448

MERIDEN, CONNECTICUT

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