



**2020 ROADWAY IMPROVEMENT PROJECT  
PLAISTED CIRCLE, EYSSI DRIVE  
SALEM, NH**

**ADDENDUM No. 1**

**January 9, 2020**

This Addendum forms part of the Bidding and Contract Documents and modifies the Drawings and Contract and Specifications for the 2020 Roadway Improvement Project – Plaisted Circle, Eyssi Drive. The items set forth herein, whether of omission, addition, substitution or clarification, are all to be included in and shall form part of the proposed work and Bids submitted to the Town of Salem, New Hampshire. Inclusion of this Addendum shall be acknowledged by inserting its number in the space provided in the Bid Proposal form (Section 00301A). Failure to acknowledge any and all addenda in the above specified Bid Proposal form may be cause for rejection of the bid by the Owner on the grounds that it is not responsive.

**ADDEDNDUM No. 1**

Bidders are advised the following clarifications and changes are generated by questions at the pre-bid meeting on January 7, 2020 and are hereby incorporated into the CONTRACT DOCUMENTS AND SPECIFICATIONS:

1. **Insert** the attached Section 00301A (Bid) in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of Section 00301A.

**The revised document provides for 4" Ductile Iron sleeve for septic force mains which was inadvertently omitted from the bid sheets. Note also designation of "F" quantity for Crushed Stone Fine and embankment in-place items.**

2. **Insert** the attached Quantity Breakdown by Street in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version located in Appendix B.

**The revised document provides for 4" Ductile Iron sleeve for septic force mains which was inadvertently omitted from the bid sheets. Note also designation of "F" quantity for Crushed Stone Fine and embankment in-place items.**

3. **Insert** the attached Special provisions for septic tank installation, ductile iron pipe and Reset CMU or Field Stone Ret. Wall in the CONTRACT DOCUMENTS AND SPECIFICATIONS.



**Special provisions for installation of a septic tank, ductile iron pipe and Reset CMU or Field Stone Ret. Wall were inadvertently omitted from the Contract Specifications.**

4. **Insert** the attached sketch plan SK1 – Addendum #1 for Reset CMU or Field Stone Ret. Wall in the CONTRACT DOCUMENTS AND SPECIFICATIONS.

**Details for Reset CMU and Field Stone Ret. Wall were inadvertently omitted from the Contract Drawings.**

5. See attached Pre-Bid meeting agenda from January 7, 2020 prebid meeting.

**The attached agenda considers three separate projects. The PreBid meeting for the projects was held simultaneously given similarity of work type.**

6. **Septic Design Plan:** The design plan .pdf is not printing properly. Sections of text is 'blacked' out.

**The drawing .pdf was double checked follow the concern. The .pdf was clear and the plan printed properly. Bidders are advised that print drivers periodically need to be updated and/or the version of Adobe used may cause the printing issues. Hard copies will be made available for any Bidder having difficulty with printing the septic design plan.**

7. **Utility Pole Relocation Schedule:** Two utility poles to be relocated will be in the middle of the new roadway. Has there been a relocation schedule developed by the utility companies?

**No. Utility work is expected to begin prior to the start of road construction. The Town will work with the awarded Contractor as needed with contract dates if relocation of utility poles is delayed.**

8. **Tree Removals:** How will individual trees identified to be removed on the plans be paid?

**Individual trees within the clear and grub limits shown on the plans shall be included in the clear and grub item. Individual trees to be removed outside of clear and grub limits shall be paid on a per each basis according to size.**

9. **Tree Trimming and Pruning:** Drawing C1 identifies Tree Trimming and Pruning (Item 21.321) as shown or as directed but there is no item on the Bid Sheet.

**Tree Trimming and Pruning will not be part of this contract. The note can be disregarded.**

10. **24" RCP replacement on Hooker Farm Rd:** shows headwalls on each end. The outlet side has an existing 12" pipe outlet being discharged from a DMH, adjacent to where the new headwall will be placed. Is the headwall intended for the the 24" only or is the 12" suppose

to be installed thru the headwall as well. If the 12" is suppose to be installed as part of the headwall, this should be a winged wall headwall due to the angle of the 12". Please clarify.

**There will be separate headwalls for each pipe. An additional quantity for 12" headwall has been added to the contract. Plans have not been revised. The layout will be determined by field conditions and coordinated with the Engineer.**

**11. Septic Design Plan Questions:** There are several questions related to the septic design plan following printing challenges.

- a. The septic plan detail for the tank shows a holding tanking with alarm. What is the alarm?

**The alarm is as specified in Note 5 of the Holding Tank Specifications. "An alarm with both visual and audible signals must be activated once the water level reaches the maximum water depth. Recommended alarm to be CS1200 indoor alarm system manufactured by CSI control systems. Supplied by AAA Pump Service, Manchester, NH (603-645-8610) or Equivalent."**

- b. The plans do not show the location of the existing inlet and outlet pipe for the existing tank. Due to the alignment of the new tank, there will be some new reconfiguration to get the pipes into the new tank. Is there a plan that shows the existing pipes.

**No. There is no record plan on file for the existing holding tank. The plan identifies the existing location and elevation of the outlet from the house. It is not expected the entire length will need to be replaced however the bidder should consider that scenario in his bid. Note that it may likely be most effective to replace the short 10-foot segment of pipe from the house rather than manipulating with fittings and couplings to meet the design intent.**

- c. Where is the leach field for this system located?

**There is no leach field. The system is a holding tank design.**

- d. The septic design plan appears to show the inlet pipe from the new tank being installed into the house. Please clarify

**See response (b).**

- e. What the extent and intent of the new inlet and outlet pipes and how that is being paid.

**Replacement of the holding tank is a unit item inclusive of all work, material and equipment needed to meet the design intent. Refer to the attached Special Provision as noted in Item #3 above.**

12. **24" culvert replacement:** If weather at the time of construction requires that cofferdam and bypass pumping be installed for the Work, how will it be paid?

**The culvert is situated on an intermittent stream that does not receive constant flow. It is expected that the Contractor will schedule and conduct his work during in the 'dry' season during 'dry flow' conditions. Full by-pass pumping and coffer dams are not provided for or necessary. Standard trench dewatering practices shall apply. Should wet weather conditions persist throughout the season where constant and unmanageable flow exist then more extensive dewatering and cofferdam design may be negotiated otherwise; the contractor shall bear the full responsibility of all necessary dewatering, sandbagging and diversion typical for a culver replacement.**

13. **4" Ductile Iron Sleeves:** There is no pay item for 4" ductile iron sleeves. How will this be paid.

**4" Ductile Iron Sleeve has been added to the Bid Sheet. See Attached.**

**\*\*END OF ADDENDA NO. 1\*\***

## Bid Schedule

### 2020 Roadway Improvement Project - Neighborhood Roads

Plaisted Circle, Eyssi Drive

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
BASE BID - SECTION 1						
201.11	Clearing & Grubbing	1512	SY			
201.21	Remove Small Tree (5"-23")	20	EA			
201.22	Remove Large Tree (over 24")	10	EA			
201.4	Remove Stump	10	EA			
201.882	Invasive Species Removal (Type II)	280	SY			
202.41	Remove Existing pipe (0 - 24" diameter)	25	LF			
202.5	Remove Drain Structure (basin or manhole)	2	EA			
203.1	Common Excavation (F)	1236	CY			
203.11	Common Excavation for Driveways	250	CY			
203.2	Common Rock Excavation	1000	CY			
203.6	Embankment in Place (F)	640	CY			
206.19	Exploratory Excavation (test pits)	100	CY			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
206.2	Rock Structure Excavation	100	CY			
214	Fine Grading	1	UNIT			
304.4	Crushed Stone Fine (F)	833	CY			
403.11	3/4" Permanent Binder or Base Pavement	531	TONS			
403.11	1/2" HBP Wearing Course	326	TONS			
403.12	HBP Hand Method	100	TONS			
417	Cold Planing	150	SY			
508	Structural Fill	546	CY			
572.99	Reset CMU or Field Stone Ret Wall	250	LF			
572.1	R&R Stone Wall	470	LF			
585.3	Class C Stone Fill	40	CY			
603.00412	12" RCP Drain Pipe	82	LF			
603.00424	24" RCP Drain Pipe	60	LF			
603.33	12" HDPE HDPE Flared End Section	2	EA			
603.DI5204	4" Ductile Iron Sleeve for Forcemain	150	LF			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
603.DI5210	10" Ductile Iron Pipe	26	LF			
603.83212	12" HDPE Drain Pipe	323	LF			
604.0007	Polyethylene Liner	3	EA			
604.12	Catch Basin	3	EA			
604.22	2-Foot Drop Inlet Drain Basin (Square or Round)	1	EA			
604.32	Drain Manhole	1	EA			
604.9	Septic Tank	1	Unit			
609.813	Bituminous Curb	100	LF			
615.032	Traffic Sign, Type C w/Break away post	30	SF			
618	Uniformed Police for Traffic Control	ALLOWANCE		FIFTY THOUSAND DOLLARS AND NO CENTS	\$ 50,000.00	\$ 50,000.00
619.1	Maintenance of Traffic	1	LS			
622.55	Reset/New Monument	50	EA			
628.2	Sawed Bituminous Pavement	500	LF			
632.3118	Retroreflective Thermoplastic Pavment (18" Stop)	20	LF			
645.441	Sediment Filter Logs (compost sock)	300	LF			

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
645.531	Silt Fence	1000	LF			
645.7	Storm Water Polution Prevention Plan (SWPPP)	1	UNIT			
645.71	Monitoring SWPPP and Erosion & Sediment Controls	20	VISIT			
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	3500	SY			
670.0662	Relocate mailbox	13	EA			
692	Mobilization	1	LS			
900	Precast headwall (12"-18")	7	EA			
900.124	Precast Headwall (24")	2	EA			
912	Landscape (remove and reset)	1	LS			
1010.2	Asphalt Cement Adjustment	ALLOWANCE		FIFTEEN THOUSAND DOLLARS AND NO CENTS	\$ 15,000.00	\$ 15,000.00
TOTAL AMOUNT (BASE BID SECTION 1)						

Key to Units: LF = Linear Feet; VF = Vertical Feet; SY = Square Yards; CY = Cubic Yards; LS = Lump Sum; EA = Each



ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
BID ALTERNATE 1 - EYSSI DRIVE						
203.1	Common Excavation for Driveways	25	CY			
214	Fine Grading	1	UNIT			
304.4	Crushed Stone Fine	25	CY			
306.108	Reclaimed Stabilized Base In-Place (8" Deep)	1695	SY			
403.11	Hot Bituminous Pavement, Machine Method	420	TONS			
403.12	HBP Hand Method	20	TONS			
417	Cold Planing (at intersections)	30	SY			
585.3	Class C Stone Fill	5	CY			
604.0007	Polyethylene Liner	2	EA			
604.45	Adjust Catch Basin Grates & Frames	1	EA			
604.72	New Frame & Grate, Type B	1	EA			
611.90001	Adjust valve boxes	1	EA			
615.032	Traffic Sign, Type C w/Break away post	10	SF			
618	Uniformed Police for Traffic Control	ALLOWANCE		FIVE THOUSAND DOLLARS AND NO CENTS	\$ 5,000.00	\$ 5,000.00

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
628.2	Sawed Bituminous Pavement	150	LF			
632.3118	Retroreflective Thermoplastic Pavment (18" Stop)	25	LF			
645.533	Inlet Filter Baskets	2	EA			
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	467	SY			
670.0662	Relocate mailbox	6	EA			
900	Precast headwall (12"-18")	1	EA			
TOTAL AMOUNT (BID ALTERNATE 1)						

Key to Units: LF = Linear Feet; VF = Vertical Feet; SY = Square Yards; CY = Cubic Yards; LS = Lump Sum; EA = Each

## Quantity Breakdown by Street

Note: Quantities herein are provided solely to give the bidder an indication of how work is divided by road. The quantities and locations, however, are not necessarily intended to represent the final amounts to be utilized on each road.

SECTION 1 - BASE BID				Plaisted Circle
ITEM	DESCRIPTION	EST. QTY. total	UNIT	
201.11	Clearing & Grubbing	1,512	SY	1512
201.21	Remove Small Tree (5"-23")	20	EA	20
201.22	Remove Large Tree (over 24")	10	EA	10
201.4	Remove Stump	10	EA	10
201.882	Invasive Species Removal (Type II)	280	SY	280
202.41	Remove Existing pipe (0 - 24" diameter)	25	LF	25
202.5	Remove Drain Structure (basin or manhole)	2	EA	2
203.1	Common Excavation (F)	1,236	CY	1236
203.11	Common Excavation for Driveways	250	CY	250
203.2	Common Rock Excavation	1,000	CY	1000
203.6	Embankment in Place (F)	640	CY	640
206.19	Exploratory Excavation (test pits)	100	CY	100
206.2	Rock Structure Excavation	100	CY	100
214	Fine Grading	1.00	UNIT	1.00
304.4	Crushed Stone Fine (F)	833	CY	833
403.11	3/4" Permanent Binder or Base Pavement	531	TONS	531
403.11	1/2" HBP Wearing Course	326	TONS	326
403.12	HBP Hand Method	100	TONS	100
417	Cold Planing	150	SY	150
508	Structural Fill	546	CY	546
572.99	Reset CMU or Field Stone Ret Wall	250	LF	250
572.1	R&R Stone Wall	470	LF	470
585.3	Class C Stone Fill	40	CY	40
603.00412	12" RCP Drain Pipe	82	LF	82
603.00424	24" RCP Drain Pipe	60	LF	60
603.33	12" HDPE HDPE Flared End Section	2	EA	2
603.DI5204	4" Ductile Iron Sleeve for Forcemain	150	LF	150
603.DI5210	10" Ductile Iron Pipe	26	LF	26
603.83212	12" HDPE Drain Pipe	323	LF	323
604.0007	Polyethylene Liner	3	EA	3
604.12	Catch Basin	3	EA	3
604.22	2-Foot Drop Inlet Drain Basin (Square or Round)	1	EA	1
604.32	Drain Manhole	1	EA	1
604.9	Septic Tank	1	Unit	1
609.813	Bituminous Curb	100	LF	100
615.032	Traffic Sign, Type C w/Break away post	30	SF	30.00
618	Uniformed Police for Traffic Control	ALLOWANCHR		1,250.00
619.1	Maintenance of Traffic	1	LS	1
622.55	Reset/New Monument	50	EA	50
628.2	Sawed Bituminous Pavement	500	LF	500

632.3118	Retroreflective Thermoplastic Pavment (18" Stop)	20	LF	20
645.441	Sediment Filter Logs (compost sock)	300	LF	300
645.531	Silt Fence	1,000	LF	1000
645.7	Storm Water Polution Prevention Plan (SWPPP)	1.00	UNIT	1.00
645.71	Monitoring SWPPP and Erosion & Sediment Controls	20	VISIT	20
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	3,500	SY	3500
670.0662	Relocate mailbox	13	EA	13
692	Mobilization	1	LS	1
900	Precast headwall (12"-18")	7	EA	7
900.124	Precast Headwall (24")	2	EA	2
912	Landscape (remove and reset)	1	LS	1
1010.2	Asphalt Cement Adjustment	ALLOWANCE		1.00

\* items are of indeterminant quantity

## Quantity Breakdown by Street

Note: Quantities herein are provided solely to give the bidder an indication of how work is divided by road. The quantities and locations, however, are not necessarily intended to represent the final amounts to be utilized on each road.

Eyssi Dr  
(Bid Alt 1)

<b>BID ALTERNATE 1 - EYSSI DRIVE</b>				
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>EST. QTY. total</b>	<b>UNIT</b>	
203.1	Common Excavation for Driveways	25	CY	25
214	Fine Grading	1	UNIT	1.00
304.4	Crushed Stone Fine	25	CY	25
306.108	Reclaimed Stabilized Base In-Place (8" Deep)	1,695	SY	1695
403.11	Hot Bituminous Pavement, Machine Method	420	TONS	420
403.12	HBP Hand Method	20	TONS	20
417	Cold Planing (at intersections)	30	SY	30
585.3	Class C Stone Fill	5	CY	5
604.0007	Polyethylene Liner	2	EA	2
604.45	Adjust Catch Basin Grates & Frames	1	EA	1
604.72	New Frame & Grate, Type B	1	EA	1
611.90001	Adjust valve boxes	1	EA	1
615.032	Traffic Sign, Type C w/Break away post	10	SF	10.00
618	Uniformed Police for Traffic Control	ALLOWANCE		90.9
628.2	Sawed Bituminous Pavement	150	LF	150
632.3118	Retroreflective Thermoplastic Pavment (18" Stop)	25	LF	25
645.533	Inlet Filter Baskets	2	EA	2
646.512	Turf Establishment w/ Mulch, Tackifiers, & Loam	467	SY	467
670.0662	Relocate mailbox	6	EA	6
900	Precast headwall (12"-18")	1	EA	1

\* items are of indeterminant quantity

## **SPECIAL PROVISION**

### **SECTION 572.99 RESET CMU OR FIELD STONE RETAINING WALL**

#### **Description**

- 1.1** The work consists of removing and resetting existing CMU decorative walls of various sizes and lengths as indicated in the contract drawings and as directed by the Engineer.
- 1.2** The work consists of removing and resetting existing field stone decorative walls of various sizes and lengths as indicated in the contract drawings and as directed by the Engineer.
- 1.3** The work consists of constructing field stone walls of various sizes and lengths as indicated in the contract drawings and as directed by the Engineer.
- 1.4** The applicable sections of the NHDOT standard specifications shall apply to the work including but not limited to Section 203 – EXCAVATION AND EMBANKMENT, Section 570 – STONE MASONRY and Section 572 – STONE WALL.

#### **Materials**

- 2.1** The existing materials for each wall reset shall be reused. Where needed, new block, stone, rock of the same size, texture, color, manufacturer as the existing materials shall be supplemented to complete the Work.
- 2.2** Materials for construction of new field stone wall shall be ledge removed from the project site. Where ledge rock is not acceptable for use in construction of walls the contractor shall supply angular rock with flat faces suitable for construction of a decorative wall. In general, round rock shall not be acceptable however; the Contractor may provide a submittal to request use of rounded rock only if the end product meets or exceeds aesthetic expectations of a decorative wall as shown on the detail.
- 2.3** Other necessary materials to complete the work shall conform to applicable sections of NHDOT standard specifications.

#### **Construction Requirements**

- 3.1** Construction requirements shall conform to the applicable construction requirements of the NHDOT Standard Specifications for the type of work required.
- 3.2** CMU wall reset shall meet or exceed the existing field conditions and shall be in general conformance with the detail.
- 3.3** All walls shall be constructed complete in place.

#### **Method of Measurement**

- 4.1** Removing and resetting of CMU or Fieldstone wall under this project shall be measured per linear foot of exposed face for each wall removed and reset.

- 4.2** Construction of fieldstone wall under this project shall be measured per linear foot of exposed face for each wall constructed.
- 4.3** Backfill behind wall, supplemental stone, block, rock and other material necessary for the completion of Work under this item shall not be measured for payment but shall be subsidiary to the Construction.

#### **Basis of Payment**

- 5.1** Payment will be made for removing and resetting CMU or Fieldstone walls required under this contract on a linear foot basis. The price for removing and resetting walls includes all labor, equipment, replacement stone/block, supplemental stone/block, backfill and materials necessary for or incidental to the completion of the Work in accordance with the detail to the satisfaction of the Engineer. Any block damaged by the Contractor shall be replaced at no expense to the Owner.

## **SPECIAL PROVISION**

### **SECTION 603.DI5210 – 10" DUCTILE IRON PIPE, CLASS 50 SECTION 603.DI5204 – 4" DUCTILE IRON SLEEVE FOR FORCEMAIN, CLASS 50**

#### **Description**

- 1.1** The work consists of installing ductile iron pipe for drainage and sleeves as indicated in the contract drawings and as directed by the Engineer.
- 1.2** The applicable sections of the NHDOT standard specifications shall apply to the work including but not limited to Section 603 – CULVERTS AND STORM DRAINS.

#### **Materials**

- 2.1** Materials shall conform to the requirements of the NHDOT standard specifications and shall be as indicated on the Contract Drawings.
- 2.2** Ductile Iron pipe shall be Tyton Joint, pressure class 350, double cement lined (1/8"), bituminous coated, 18-20 foot lengths. Pipe shall be manufactured in full conformance with AWWA/ANSI C151/A21.11 (for push-on joints) and AWWA/ANSI C104/A21.4 (for cement lining and seal coating).
- 2.3** Materials for PVC septic force main shall meet or exceed existing materials and NHDES material requirements but shall not be less than SDR-11 pressure pipe rating. Pipe may be fused or coupled ONLY as permitted by NHDES requirements for septic systems in accordance with Env-WQ 1000 specifications. PVC septic force main components shall match the existing size. No additional payment shall be granted for differing PVC force main sizes.

#### **Construction Requirements**

- 3.1** Construction requirements shall conform to the applicable construction requirements of the NHDOT Standard Specifications for the type of work required. The ductile iron pipe shall be installed in the locations designated on the plans and where directed by the Engineer in the Field.
- 3.2** 4" ductile iron sleeve installation shall also include all work necessary to cut and reset existing septic force main inside of the sleeve. Contractor may elect to replace the existing 1.5" PVC septic force main in the interest of expedience and ease of construction within the ductile iron sleeve work limit.
  - 3.2.1** Ends of the sleeve shall be sealed with non-shrink grout so as to prevent water and debris from entering the sleeve. Joints of the existing septic force mains shall be coupled or plastic welded with appropriate material rated for the size and type of the existing pressure pipe.
  - 3.2.2** Existing PVC septic force main sizes have been identified as 1.5" per record plan information. The contractor shall match size according to existing conditions.



- 3.2.3** Test pitting necessary to locate existing septic force mains shall be paid under Item 206.19. Test pit information shall include size, material, location, elevation and any other relevant data required to install the Ductile Iron Sleeves.

#### **Method of Measurement**

- 4.1** 10" and 4" Ductile Iron Pipe under this project shall be measured per linear foot for the length of ductile iron pipe installed.
- 4.2** Replacement of 1.5" PVC septic force main as elected by the Contractor for ease of construction and expedience shall not be measured for payment.
- 4.3** Measurement of 4" ductile iron sleeve shall include additional length of 1.5" PVC reset/replaced beyond the physical ends of the of ductile iron pipe as specifically approved by the Engineer. As an example: 20 LF of Ductile Iron Sleeve may pay 25 LF when considering necessary connection limits of the existing 1.5" PVC septic force main.

#### **Basis of Payment**

- 5.1** Payment will be made for 4" and 10" Ductile Iron Pipe required under this contract on a Linear Foot basis. The price for 4" and 10" Ductile Iron Pipe installation includes all excavation, backfill, labor, materials, 1.5" PCV septic force main, couplings and equipment necessary for or incidental to the completion of the work to the satisfaction of the Engineer. Any materials damaged by the Contractor shall be replaced at no expense to the Owner.

**SPECIAL PROVISION**  
**SECTION 604.9 – SEPTIC TANK**

**Description**

- 1.1** The work consists of removing an existing septic tank and installation of a new septic tank installing precast concrete headwalls as indicated in the contract drawings.
- 1.2** The applicable sections of the NHDOT standard specifications shall apply to the work including but not limited to Section 203 – EXCAVATION AND EMBANKMENT, Section 520 – PORTLAND CEMENT CONCRETE and Section 604 – CATCH BASINS, DROP INLETS AND MANHOLES.

**Materials**

- 2.1** Materials shall conform to the requirements of the NHDOT standard specifications, Sections 520, 544 and 604.
- 2.2** Shop Drawings shall be provided for review and approval of the Engineer.
- 2.3** Products shall be as specified on the approved septic design plan included with the Contract drawings. “OR EQUAL” materials and/or components may be submitted for review and approval.

**Construction Requirements**

- 3.1** Construction requirements shall conform to the applicable construction requirements of the NHDOT Standard Specifications for the type of work required. The septic tank shall be precast concrete and shall be as shown on the plans. The septic tank shall be installed complete in place as indicated on the plans inclusive of all components, pipe, high water alarm.
- 3.2** Work shall include connection, wiring, and inspection of the high water alarm specified on the plan.
- 3.3** Work shall include pumping, removal and disposal of the existing septic tank as shown on the plans.
- 3.4** The Contractor shall be responsible for coordinating necessary septic inspections in accordance with Local and State requirements.

**Method of Measurement**

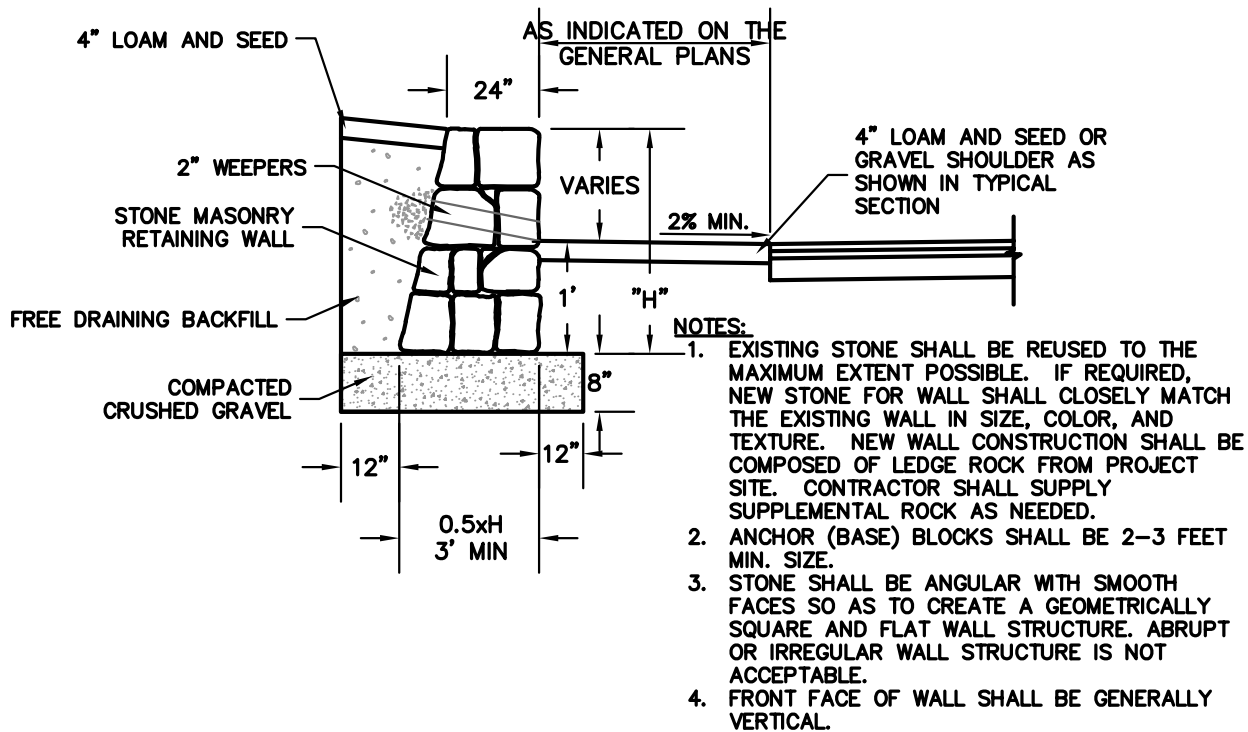
- 4.1** Septic tank under this project shall be measured as a Unit inclusive of all work, material, components, labor and inspections necessary to complete the installation of the tank according to the plan. Measurement shall also include all Work necessary to pump, remove and dispose of the existing septic tank. Measurement shall also include all Work, material and associated labor to reconnect the existing house discharge pipe to the new

septic tank. Measurement shall also include installation, inspection and operation of high water alarm specified on the plan.

- 4.2 Necessary ledge removal under this item shall be paid under Item 206.2 – Common Rock Structure Excavation.
- 4.3 Removal and reset of the existing modular wall shall be paid under Item 572.99 – Reset CMU or Field Stone Ret Wall.

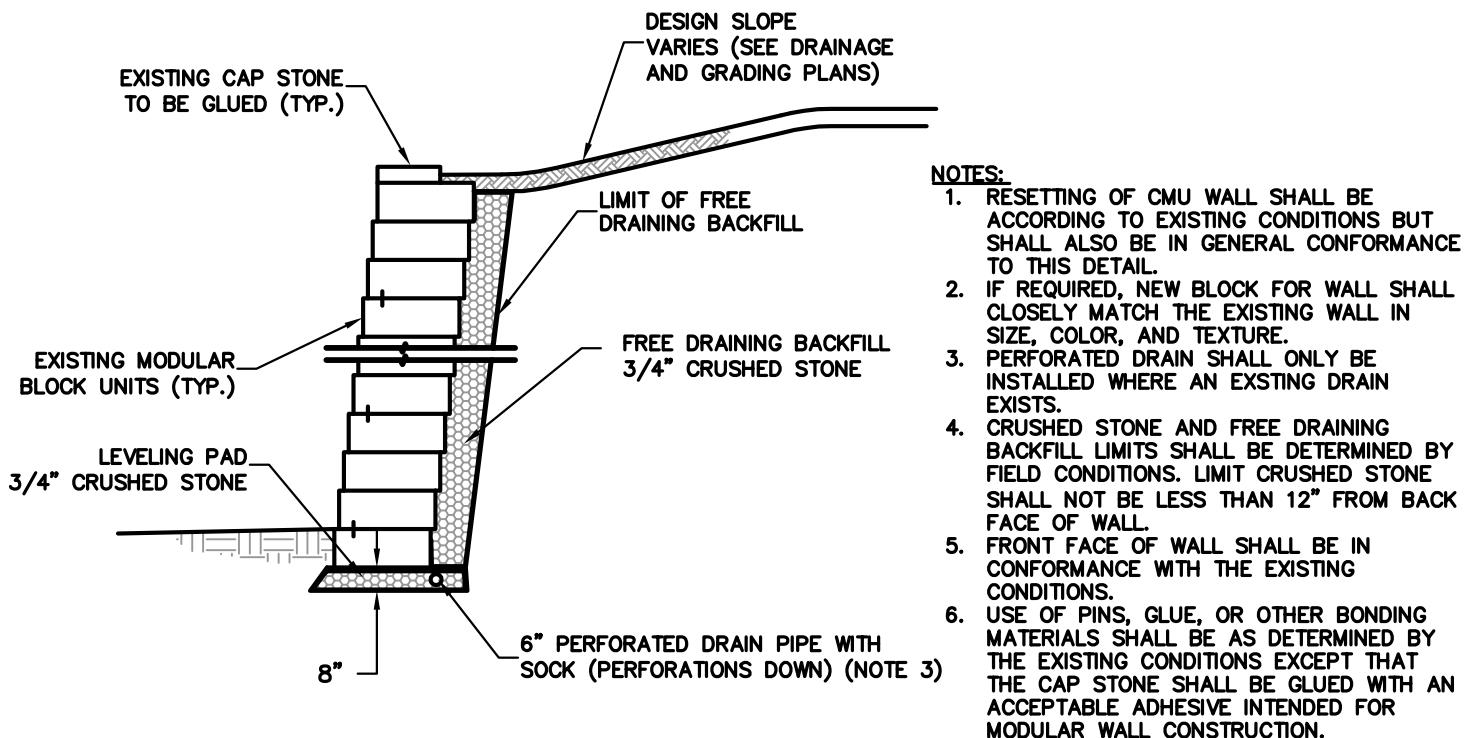
### **Basis of Payment**

- 5.1 Payment will be made for septic tank installation required under this contract on a Unit basis. The Price for the septic tank installation includes all excavation, backfill, labor, materials, and equipment necessary for or incidental to the completion of the work to the satisfaction of the Engineer. Any materials damaged by the Contractor shall be replaced at no expense to the Owner.



### Resetting/New Fieldstone Retaining Wall

NO SCALE



### Resetting CMU Retaining Wall

NO SCALE

DATE: 01/20	JOB NO. —
DWG. <b>SK1</b>	SCALE: N.T.S.

TOWN OF SALEM  
ENGINEERING DEPARTMENT  
33 GEREMONTY DRIVE  
SALEM, NH 03079

2020 ROADWAY IMP PROJ  
PLAISTED CIRCLE

**ADDENDUM #1**

# SALEM MUNICIPAL SERVICES

Roy E. Sorenson - *Director*

[www.townofsalemnh.org](http://www.townofsalemnh.org)



## ENGINEERING DIVISION

Daniel Hudson PE – *Director*

33 GEREMONTY DRIVE

SALEM, NH 03079

TEL: 603-890-2033 FAX: 603-898-1223

## MEETING AGENDA

Date: January 7, 2020

From: James Danis, Engineering Dept

Subj: 2020 Road Program Pre-Bid Meeting

Industrial Way, Emery Rd

Plaisted Circle, Eyssi Drive

Woodmeadow Drive, Bluff Street Extension

### Introductions:

Salem Engineering Dept

- James Danis - Town of Salem, Engineering Dept. - Project Lead

### Project Location:

- Industrial Way
  - Industrial park, intersects with Commercial Drive and Manor Parkway
  - Access from Exit 2
- Emery Road
  - Canobie Ave neighborhood off of Brookdale Road
  - Access from Exit 2
- Woodmeadow Drive
  - Intersects with School Street
  - Access Exit 2
- Bluff Street Extension
  - Intersects with N. Main St and Town Farm Rd
  - Access Exit 2
- Plaisted Circle
  - Intersects with Hooker Farm Rd off of Shannon Rd
  - Access Exit 2 or 3
- Eyssi Drive (Bid Alt 1)
  - Intersects with Dustin Road
  - Access Exit 2 or 3



Project descriptions:

- Independence Way
  - 2,740 LF, 34-feet wide
  - Reclaim In place
  - Minimal drainage and water improvements
  - 5.5" Pavement section with bit curb
  - Shoulder work
  - Traditional Subdivision w/ 60-foot ROW
  - Gas Line relocation by Unutil
- Emery Road
  - 400 LF, 16-feet wide
  - Mill and overlay existing Roadway
  - Construct cul-de-sac
  - 310 LF water line improvement. Connects Emery to Lake Shore through woods.
  - Minor drainage improvements at intersection.
- Neighborhood Rds.
  1. Woodmeadow Drive
    - 3,970 LF, 24-feet wide
    - Reclaim in place with profile adjustment
    - Sidewalk and wider road section
    - Minor drainage
    - Hydrant installation
    - 4" pavement section
  2. Bluff Street Extension
    - 700 LF, 24-feet wide
    - Full Box reconstruction
    - Profile adjustment after bid (incidental quantity adjustments)
    - Minimal drainage.
    - 5.5" pavement section
  3. Plaisted Circle
    - 1,750 LF, 16 & 18-feet wide
    - Full Box reconstruction
    - Profile and alignment adjustments
    - Ledge removal
    - Minor drainage improvements
    - Property impacts (walls, driveways)
    - Septic tank replacement
    - Septic force main sleeves.
    - 4" pavement section
  4. Eyssi Drive
    - 375 LF, 24-feet wide
    - Reclaim in-place
    - 4" pavement section
- Traditional Subdivision w/ 50-foot ROW
- Plaisted ROW varies, easements granted for roadwork.

- Base line control – Survey layout and best fit combination

#### Utilities

- Water on Industrial, Emery, Woodmeadow, Eyssi
- Sewer & Gas on Industrial way
- Sewer on Emery
- Utility Poles (Industrial Way, Emery Rd, Plaisted Cir, Eyssi Dr)
  - Pole relocation on Plaisted Circle
- Underground utilities (Woodmeadow Dr)
  - Pull box relocations
  - Pole relocation at intersection
  - Light pole relocations
- Impacts to existing utilities
  - Test pitting on Water main at crossings – redesign or relocation of proposed drain if conflicts
  - Test pitting on underground utilities adjacent to trenching activities.

#### Bids:

- **BIDS DUE**
  - **Industrial Way, Emery Rd – 1:00 PM, January 15, 2020**
  - **Neighborhood Roads Plaisted Circle, Eyssi Drive – 1:30, January 15, 2020**
  - **Neighborhood Roads – Woodmeadow Dr, Bluff St Ext – 1:00 PM, January 17, 2020**
- Instructions to Bidders: **read it**
- Bid
- Qualifications & Subs
- Acknowledgement of Addendum #1 (and any others that may arise)
  - Missing items and special conditions (Plaisted)
  - Missing item – remove/rehandle (Woodmeadow)
- Bid Bond – 5% of Contract
- Statement of non-collusion

#### Funding:

- Subject to Town vote in March

#### Required Documents for Winning Bidder

- Contract Award Status (NOA, NTP, Agreement)
- Performance, Payment, & Warrantee Bonds
- Insurance Certificates
- Contract Documents (3 copies)

#### Traffic Control

- Signage –Construction signage – minor in nature. No detours
  - Bluff Street Ext will be more detailed.
- Police details – scheduling challenges

- Two way traffic during non-work hours

#### Permit

- NHDES Wetland permit
  - Minor permit for Plaisted Circle
  - PBN for Eyssi and Woodmeadow

#### Construction Schedule

- Substantial Completion:
  - Industrial Way, Emery Rd
    - **August 14, 2020**
  - Woodmeadow Dr, Bluff St Ext
    - **August 27, 2020**
  - Plaisted Circle, Eyssi Drive
    - **September 18, 2020**
- Final Completion:
  - Northeastern Blvd
    - **September 14, 2020**
  - Woodmeadow Drive, Bluff St Ext
    - **September 24, 2020**
  - Plaisted Circle, Eyssi Dr
    - **October 16, 2020**
- Weekend/Holiday/night work Not allowed

#### Submittals

- Shop Drawings
- Certificates of Compliance
- Cut sheets

#### Other Projects

- West Duston Neighborhood water/sewer/reconstruction
- Tuscan Village
- Rt 28 Sewer/Water (finishing up in the spring)
- Overlay Program (Shannon Rd)
- I-93 Widening (NHDOT)