



**2021 ROADWAY IMPROVEMENT PROJECT
HENRY TAYLOR STREET, OLD FARM ROAD, SMALL BROOK LANE, WILSON
STREET, FRARY STREET, EDWARDS STREET
SALEM, NH**

ADDENDUM No. 1

January 14, 2021

This Addendum forms part of the Bidding and Contract Documents and modifies the Drawings and Contract and Specifications for the 2021 Roadway Improvement Project – Henry Taylor Street, Old Farm Road, Smallbrook Lane, Wilson Street, Frary Street, Edwards Street. 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 are hereby incorporated into the CONTRACT DOCUMENTS AND SPECIFICATIONS:

1. **Insert** the attached Contract Drawings in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version identified as Appendix A.

The complete drawing set is reissued for simplicity. Modifications of the revised drawings complete the following:

- **Henry Taylor – Pipe length corrections.**
- **Wilson Street (Alternate 1) – Pipe length corrections**
- **Wilson Street (Alternate 1) – Revised drawing removes reclaim stone shone in the original version.**
- **Frary Street (Alternate 2) – Revised drawing provides minor drainage revisions and quantity callouts.**
- **Frary Street (Alternate 2) - Revised drawing provides clarification of road box widening locations and quantities.**
- **Old Farm Road – Plan identifies “type B bit berm” the contract provides for modified cape cod berm. Contractor shall reference detail.**



- **Project Details – Revised drawings provide changes to typical sections.**

2. **Insert** SPECIAL PROVISION 304.99 – Processing Gravel into the CONTRACT DOCUMENTS and SPECIFICATIONS.

The Town of Salem is seeking to process stockpiled stone, concrete, millings and existing reclaim material to a uniform processed gravel. All material is located at the Shannon Road Transfer Station. The items provides for all work and equipment necessary to crush existing stone and concrete, remove reinforcement from precast concrete, screen material, and mix. The item also provides for additional stone supplement to be paid under its respective unit item if needed/requested.

3. **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 inclusion of missing items inadvertently omitted. The revision further makes adjustments in quantity for several items. The revision further adds Item 304.99 which is a lump sum operation intended to process existing materials stockpiled at the Shannon Road Transfer Station.

Pipe Replacement Bid Alternate 1 – Wilson Street: Adjusted bid quantities further considers replacement of a cross-country drainage run at approximately Station 37+50 Left. Replacement of the drainage run is not shown on the design drawings. Final easement negotiations have not been completed at the time of bidding. The Contractor shall perform the work with provided bid quantities.

4. **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 inclusion of missing items inadvertently omitted. The revision further makes adjustments in quantity for several items.

5. See attached Pre-Bid meeting agenda from January 12, 2021 prebid meeting.

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

6. **Insert** the attached Supplemental Conditions in the CONTRACT DOCUMENTS AND SPECIFICATIONS and **Discard** the original version of the noted Supplemental Conditions. Included are the following:

- a. 401 – Plant Mix Pavements – General
- b. 603 – Culverts and Storm Drains
- c. 604 – Catch Basins, Drop Inlets, and Manholes

The revised documents provide clarification on measurement and payment.

7. **Insert** the attached Supplemental Condition 607 - Fences in the CONTRACT DOCUMENTS AND SPECIFICATIONS.

The attached document was inadvertently omitted from the Contract Documents.

****END OF ADDENDUM NO. 1****

SPECIAL PROVISION

SECTION 304.99 – Processing Gravel

Description

- 1.1** The work consists of crushing, mixing and processing concrete, rock, reclaim and millings into a uniform 1.5" crushed gravel resembling NHDOT Coarse Aggregate size #357.
- 1.2** The applicable sections of the NHDOT standard specifications shall apply to the work including but not limited to Section 105 – CONTROL OF THE WORK, Section 203 – EXCAVATION AND EMBANKMENT, Section 304 – AGGREGATE BASE COURSE, and Section 585 – STONE FILL.

Materials

- 2.1** Materials shall be all materials stockpiled at the Town of Salem Transfer Station at 101 Shannon Road.
- 2.1.1** Stockpiled materials shall include ledge and rock removed from individual project sites where generated during the crushing operation.
- 2.2** Additional stone for blending may be directed to be imported to the processing site in order to improve gravel gradations.

Construction Requirements

- 3.1** Crush all stockpiled rock and concrete to 2" – 2.5" size.
- 3.2** All concrete and concrete structures containing steel reinforcement shall be broken up and separated. Separated steel will be moved to the metals disposal area on-site.
- 3.3** Crush all stockpiled pavement to 2" – 2.5" size.
- 3.4** Screen and blend all processed material, millings, and stockpiled reclaim.
- 3.4.1** It is the intent of this item to create a singular and uniform processed gravel material meeting NHDOT #357 coarse aggregate.
- 3.4.2** Where ordered additional 2"-2.5" stone shall be added to the material.
- 3.5** The Owner may request a composite sieve at the completion of operations, which shall be incidental to the item.

Method of Measurement

- 4.1** Processing Gravel shall be measured as Lump Sum inclusive of all equipment, labor, mobilization, hauling, handling, reinforcement separation and any other aspect of work necessary to generate a complete processed gravel product.
- 4.2** Additional stone as may be ordered for improved gradation shall be measured and paid under item 306.36.

Basis of Payment

- 5.1** Payment will be made for processing gravel required under this contract on a lump sum basis. The Lump Sum Price for processing gravel includes all labor, equipment and materials necessary for or incidental to complete generation of the final blended processed gravel.

SECTION 00301A

BID

To the Town of Salem, New Hampshire, herein called the Owner, acting by and through its Engineering Department, for the 2021 Roadway Improvement Project – Henry Taylor Street, Old Farm Road, Small Brook Lane, Wilson Street, Frary Street, Edwards Street.

The Undersigned, as bidder, herein referred to as singular and masculine, declares as follows:

- (1) The only parties interested in this BID as Principals are named herein.
- (2) This BID is made without collusion with any other person, firm, or corporation.
- (3) No officer, agent, or employee of the Owner is directly or indirectly interested in this BID.
- (4) He has carefully examined the site and adjacent areas of the proposed Work and fully informed and satisfied himself as to the conditions and restraints existing, the character and requirements of the proposed Work, the difficulties attendant upon its execution given said conditions and restraints, and the accuracy of all estimated quantities stated in this BID, and he has carefully read and examined the Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- (5) He understands that information relative to subsurface and other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) has been furnished only for his information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes, foundations, and other structures (surface and/or subsurface) actually encountered will be the same as those shown in the Contract Documents and he agrees that he shall not use or be entitled to use any such information made available to him through the Contract Documents or otherwise or obtained by him in his own examination of the site, as a basis of or ground for any claim against the Owner or the Engineer arising from or by reason of any variance which may exist between the aforesaid information made available to or acquired by him and the subsurface and/or other conditions, natural phenomena, existing pipes, foundations, and other

BID

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structures (surface and/or subsurface) actually encountered during the construction work, and he has made due allowance therefore in this BID;

- (6) He understands that protection of public or private property is the Contractor's responsibility and any damage, whether in or out of the work limit, to any public or private property, facility, structure or utility resulting from any action of his in the prosecution of work shall be his sole burden to correct to the fullest satisfaction of the owner of such public or private property, facility, structure or utility. He understands that no additional compensation of any kind is warranted or will be granted for any damage to any public or private property, facility, structure, or utility damaged as a result of his prosecution of any work.
- (7) he understands that the quantities of work tabulated in this BID or indicated in the Contract Documents are only approximate and are subject to increase or decrease as deemed necessary by the Engineer.
- (8) he agrees that, if this BID is accepted he will contract with the Owner, as provided in the copy of the Contract Documents deposited in the office of the Engineer, this BID form being part of said Contract Documents, and that he will perform all the work and furnish all the materials and equipment, and provide all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other things required by the Contract Documents in the manner and within the time therein prescribed and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the lump sum or unit price applicable to each item of the Work as stated in the schedule below.

Note: Bidders must submit a completed Statement of Bidders Qualifications with the Bid. Failure to submit a completed Statement of Bidders Qualifications may be deemed by the Owner as a non-responsive Bid. Refer to Section 00420.

Note: Bidders must bid on each item. All entries in the entire BID must be made clearly and in ink. In case of discrepancy between prices in writing and in figures, the writing shall govern. In case of discrepancy between the product obtained by multiplying the estimated quantity by the unit price, and the extended amount, the product obtained shall govern. In case of discrepancy between total of extended amounts and total amount of bid stated, total of items shall govern. Use the pages in this document when submitting proposal and submit contract documents intact.

This BID includes Addenda number(s) _____ (To be filled in by Bidder if Addenda are issued.)

BID
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The undersigned agrees that extra work, if any, performed in accordance with the Article 10 of the General Conditions of the Contract will be paid for in accordance with Article 11 of the General Conditions of the Contract.

If this BID is accepted by the Owner, the undersigned agrees to complete the entire work provided to be done under the Contract within the time stipulated in the AGREEMENT.

As provided in the INSTRUCTIONS TO BIDDERS, the bidder hereby agrees that he will not withdraw this BID for a period of 90 days after the actual date of the opening of the Bid and that, if the Owner shall accept this BID, the bidder will duly execute and acknowledge the AGREEMENT and furnish, duly executed and acknowledged, the required CONTRACT BONDS within ten (10) days after notification that the AGREEMENT and other Contract Documents are ready for signature.

Should the bidder fail to fulfill any of his agreements as hereinabove set forth, the Owner shall have the right to retain as liquidated damages the amount of the bid security which shall become the Owner's property. If a bid bond was given, it is agreed that the amount thereof shall be paid as liquidated damages to the Owner by the Surety.

The bidder, by submittal of this BID, agrees with the Owner that the amount of the bid security deposited with this BID fairly and reasonably represents the amount of damages the Owner will suffer due to the failure of the bidder to fulfill his agreements as above provided.

The undersigned further certifies under penalties of perjury that this bid is in all respects bona fide, fair, and made without collusion or fraud with any other person. As used in this paragraph the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The attached CERTIFICATE OF NON-COLLUSION must be signed and submitted as part of the Bid Proposal.

(SEAL) _____
(Name of Bidder)

By _____
(Signature and title of authorized representative)

(Telephone)

(Business address)

(Fax Number)

(City and State)

Date _____

BID
00301A -3

The bidder is a corporation incorporated in the State (or Commonwealth) of _____ - a partnership - an individual. (Bidder must add and delete as necessary to make this sentence read correctly.)

Note: If the bidder is a corporation, affix corporate seal and give below the names of its president, treasurer, and general manager if any; if a partnership, give full names and residential addresses of all partners; and if an individual, give residential address if different from business address.

Bid Schedule

2021 Roadway Improvement Project

Schedule 1A

**Henry Taylor Street, Old Farm Road, Small Brook Lane
Salem, New Hampshire**

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
201.1	CLEARING AND GRUBBING	1,250	SY			
201.21	REMOVING SMALL TREES	20	EA			
201.22	REMOVING LARGE TREES	10	EA			
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	60	LF			
202.5	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES	2	EA			
203.1	COMMON EXCAVATION (WHERE DIRECTED)	560	CY			
203.6	EMBANKMENT IN PLACE (WHERE DIRECTED)	80	CY			
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	140	CY			
206.2	ROCK STRUCTURE EXCAVATION	290	CY			
214.	FINE GRADING	1	U			

Bid Schedule

2021 Roadway Improvement Project

Schedule 1A

**Henry Taylor Street, Old Farm Road, Small Brook Lane
Salem, New Hampshire**

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
304.4	CRUSHED STONE (FINE GRADATION)	470	CY			
304.99	CRUSH AND PROCESS COMPOSITE GRAVEL	1	LUMP			
306.108	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 8" DEPTH	7,327	SY			
306.208	RECLAIMED STABILIZED BASE REMOVED AND REHANDLED, 8" DEPTH	1,747	SY			
306.36	2" STONE FOR RECLAIMED STABILIZED BASE (3-INCH DEPTH)	720	TON			
403.11A	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (BINDER MIX)	1,441	TON			
403.11B	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (WEARING MIX)	1,520	TON			
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	142	TON			
417.	COLD PLANING BITUMINOUS SURFACES	8,080	SY			
572.1	RECONSTRUCTING STONE WALL	245	LF			
585.3	STONE FILL, CLASS C1	94	CY			

Bid Schedule

2021 Roadway Improvement Project

Schedule 1A

**Henry Taylor Street, Old Farm Road, Small Brook Lane
Salem, New Hampshire**

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
603.83212	12" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	1,195	LF			
603.83218	18" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	65	LF			
603.83236	36" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	62	LF			
604.0007	POLYETHYLENE LINER	32	EA			
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	18	EA			
604.4	RECONSTRUCT/REMODEL CATCH BASIN & DROP INLET	3	EA			
604.45	ADJUSTING CATCH BASIN & DROP INLET	15	EA			
605.506	6" PERF. CORR. POLYETHYLENE PIPE UNDERDRAIN	1,600	LF			
605.82452	36" AGGREGATE UNDERDRAIN WITH 12" PERFORATED CPE	620	LF			
607.9	RESETTING RAILING AND FENCING	70	LF			
609.811	BITUMINOUS CURB (MODIFIED CAPE COD BERM)	3,800	LF			

Bid Schedule

2021 Roadway Improvement Project

Schedule 1A

**Henry Taylor Street, Old Farm Road, Small Brook Lane
Salem, New Hampshire**

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
615.03	TRAFFIC SIGN, TYPE C	30	SF			
615.06	TRAFFIC SIGN, TYPE CC	3	SF			
618.6	UNIFORMED OFFICERS	ALLOWANCE		SEVENTY FIVE THOUSAND DOLLARS AND NO CENTS	\$75,000.00	\$75,000.00
619.1	MAINTENANCE OF TRAFFIC	1	U			
622.55	REMOVE AND RESET MONUMENTS	15	EA			
632.3118	RETROREFLECTIVE THERMO. PAVE. MARKING, 18 IN (STOP BARS)	290	LF			
645.441	SEDIMENT FILTER LOGS (COMPOST SOCK)	285	LF			
645.531	SILT FENCE	385	LF			
645.533	INLET FILTER BASKET	37	EA			
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM	4,800	SY			
670.0661	REMOVE & RE-SET SINGLE OR DOUBLE MAILBOX ASSEMBLIES	31	EA			

Bid Schedule

2021 Roadway Improvement Project

Schedule 1A

Henry Taylor Street, Old Farm Road, Small Brook Lane

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
692.	MOBILIZATION	1	U			
900.1	REIN. CONC. PC-1 HEADWALL (12" TO 18" DIA. PIPE)	6	U			
900.2	REIN. CONC. PC-1 HEADWALL (24" TO 36" DIA. PIPE)	3	U			
912.	R&R LANDSCAPING	1	LS			
1010.2	ASPHALT CEMENT ADJUSTMENT (ALLOWANCE)	ALLOWANCE		TEN THOUSAND DOLLARS AND NO CENTS	\$10,000.00	\$10,000.00
TOTAL AMOUNT (SCHEDULE 1A)						

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

Bid Schedule

2021 Roadway Improvement Project

Additive Alternate #1

Wilson Street

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
ADDITIVE ALTERNATE #1						
201.1	CLEARING AND GRUBBING	940	SY			
201.21	REMOVING SMALL TREES	15	EA			
201.22	REMOVING LARGE TREES	10	EA			
203.1	COMMON EXCAVATION (WHERE DIRECTED)	480	CY			
203.6	EMBANKMENT IN PLACE (WHERE DIRECTED)	100	CY			
214.	FINE GRADING	1	U			
304.4	CRUSHED STONE (FINE GRADATION)	340	CY			
306.108	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 8" DEPTH	871	SY			
306.208	RECLAIMED STABILIZED BASE REMOVED AND REHANDLED, 8" DEPTH	843	SY			

Bid Schedule

2021 Roadway Improvement Project

Additive Alternate #1

Wilson Street

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
403.11A	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (BINDER MIX)	320	TON			
403.11B	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (WEARING MIX)	190	TON			
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	50	TON			
572.1	RECONSTRUCTING STONE WALL	100	LF			
603.83212	12" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	730	LF			
604.0007	POLYETHYLENE LINER	6	EA			
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	5	EA			
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	2	EA			
615.03	TRAFFIC SIGN, TYPE C	2	SF			
618.6	UNIFORMED OFFICERS	ALLOWANCE		TWO THOUSAND DOLLARS AND NO CENTS	\$5,000.00	\$5,000.00

Bid Schedule

2021 Roadway Improvement Project

Additive Alternate #1

Wilson Street

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
622.55	REMOVE AND RESET MONUMENTS	10	EA			
645.441	SEDIMENT FILTER LOGS (COMPOST SOCK)	50	LF			
645.531	SILT FENCE	250	LF			
645.533	INLET FILTER BASKET	5	EA			
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM	1,200	SY			
670.0661	REMOVE & RE-SET SINGLE OR DOUBLE MAILBOX ASSEMBLIES	10	EA			
TOTAL AMOUNT (ADDITIVE ALTERNATE #1)						

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

Bid Schedule

2021 Roadway Improvement Project

Additive Alternate #2

Frary Street and Edwards Street

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
ADDITIVE ALTERNATE #2						
201.1	CLEARING AND GRUBBING	481	SY			
201.21	REMOVING SMALL TREES	10	EA			
201.22	REMOVING LARGE TREES	7	EA			
203.1	COMMON EXCAVATION (WHERE DIRECTED)	243	CY			
203.6	EMBANKMENT IN PLACE (WHERE DIRECTED)	30	CY			
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	20	CY			
206.2	ROCK STRUCTURE EXCAVATION	20	CY			
214.	FINE GRADING	1	U			
304.4	CRUSHED STONE (FINE GRADATION)	214	CY			
403.11A	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (BINDER MIX)	270	TON			

Bid Schedule

2021 Roadway Improvement Project

Additive Alternate #2

Frery Street and Edwards Street

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
403.11B	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (WEARING MIX)	158	TON			
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	60	TON			
585.3	STONE FILL, CLASS C1	25	CY			
603.83212	12" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	170	LF			
604.0007	POLYETHYLENE LINER	3	EA			
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	3	EA			
615.03	TRAFFIC SIGN, TYPE C	29	SF			
618.6	UNIFORMED OFFICERS	ALLOWANCE		FIVE THOUSAND DOLLARS AND NO CENTS	\$ 5,000.00	\$ 5,000.00
632.3118	RETROREFLECTIVE THERMO. PAVE. MARKING, 18 IN (STOP BARS)	32	LF			
645.441	SEDIMENT FILTER LOGS (COMPOST SOCK)	400	LF			

Bid Schedule

2021 Roadway Improvement Project

Additive Alternate #2

Frery Street and Edwards Street

Salem, New Hampshire

ITEM	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE		EXTENDED TOTAL
				Words	Figures	(Figures)
645.531	SILT FENCE	650	LF			
645.533	INLET FILTER BASKET	4	EA			
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM	1,080	SY			
900.1	REIN. CONC. PC-1 HEADWALL (12" TO 18" DIA. PIPE)	1	U			
TOTAL AMOUNT (ADDITIVE ALTERNATE #2)						

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

Total Amount of Base Bid – Section 1A:

\$ _____
(Amount in Figures)

(Amount in Words)

Total Amount of Bid Alternate 1 – Section 1B:

\$ _____
(Amount in Figures)

(Amount in Words)

Total Amount of Bid Alternate 2 – Section 1C:

\$ _____
(Amount in Figures)

(Amount in Words)

Total Amount of Base Bid – Section 1 + Bid Alternate 1 + Bid Alternate 2:

\$ _____
(Amount in Figures)

(Amount in Words)

CERTIFICATE OF NON-COLLUSION

By submission of this Proposal, the bidder and each person signing on behalf of the bidder, certifies as to its own organization, under penalty of perjury, that to the best of their knowledge and belief:

1. The prices in this Bid Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other bidder or with any competitor for the purpose of restricting competition.
2. Unless required by law, the prices that have been quoted in this Bid Proposal have not been knowingly disclosed and will not knowingly be disclosed by the bidder, directly or indirectly, to any other bidder or competitor prior to opening of Proposals.
3. No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a proposal for the purpose of restricting competition.
4. The signers of the Proposal hereby tender to the Owner this sworn statement that the named Contractor(s) has not, whether directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action to restrain free competitive bidding in connection with this Proposal.

A Bid Proposal will not be considered for award nor will any award be made where there has not been compliance with the statements in the certification above.

(Name of person signing bid or proposal)

(Name of business)

END OF SECTION 00301A

BID
00301A -13

Bid Quantity Summary by Location

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.

				Location		
				Henry Taylor Street	Old Farm Road	Small Brook Lane
SCHEDULE 1A - ROADWAY IMPROVEMENTS			Total Est. Quant.	Est. Quant.	Est. Quant.	Est. Quant.
Item	Item Description		Unit			
201.1	CLEARING AND GRUBBING	1,250.0	SY	740	400	110
201.21	REMOVING SMALL TREES	20.0	EA	20	0	0
201.22	REMOVING LARGE TREES	10.0	EA	10	0	0
202.41	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	60.0	LF	60	0	0
202.5	REMOVAL OF CATCH BASINS, DROP INLETS, AND MANHOLES	2.0	EA	2	0	0
203.1	COMMON EXCAVATION (WHERE DIRECTED)	560.0	CY	410	110	40
203.6	EMBANKMENT IN PLACE (WHERE DIRECTED)	80.0	CY	30	50	0
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	140.0	CY	40	100	0
206.2	ROCK STRUCTURE EXCAVATION	290.0	CY	150	100	40
214.	FINE GRADING	1.0	U	0.4	0.6	0
304.4	CRUSHED STONE (FINE GRADATION)	470.0	CY	300	150	20
304.99	CRUSH AND PROCESS COMPOSITE GRAVEL	1.0	LUMP	1		
306.108	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 8" DEPTH	7,327.0	SY	1,663	5,664	0
306.208	RECLAIMED STABILIZED BASE REMOVED AND REHANDLED, 8" DEPTH	1,747.0	SY	1,747	0	0
306.36	2" STONE FOR RECLAIMED STABILIZED BASE (3-INCH DEPTH)	720.0	TON	390	330	0
403.11A	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (BINDER MIX)	1,441.0	TON	550	880	11
403.11B	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (WEARING MIX)	1,520.0	TON	340	1,000	180
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	142.0	TON	90	52	0
417.	COLD PLANING BITUMINOUS SURFACES	8,080.0	SY	80	6,000	2,000
572.1	RECONSTRUCTING STONE WALL	245.0	LF	50	120	75
585.3	STONE FILL, CLASS C1	94.0	CY	0	60	34
603.83212	12" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	1,195.0	LF	1,150	45	0
603.83218	18" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	65.0	LF	0	65	0
603.83236	36" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	62.0	LF	0	0	62
604.0007	POLYETHYLENE LINER	32.0	EA	16	14	2
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	18.0	EA	16	2	0
604.4	RECONSTRUCT/REMODEL CATCH BASIN & DROP INLET	3.0	EA	0	3	0
604.45	ADJUSTING CATCH BASIN & DROP INLET	15.0	EA	2	11	2
605.506	6" PERF. CORR. POLYETHYLENE PIPE UNDERDRAIN	1,600.0	LF	0	1,600	0
605.82452	36" AGGREGATE UNDERDRAIN WITH 12" PERFORATED CPE	620.0	LF	620	0	0
607.9	RESETTING RAILING AND FENCING	70.0	LF	70	0	0
609.811	BITUMINOUS CURB (MODIFIED CAPE COD BERM)	3,800.0	LF	0	3,700	100
615.03	TRAFFIC SIGN, TYPE C	30.0	SF	14	13	3
615.06	TRAFFIC SIGN, TYPE CC	3.00	SF	0	3.00	0
618.6	UNIFORMED OFFICERS	\$75,000.00	ALLOW	50,000	20,000	5,000
619.1	MAINTENANCE OF TRAFFIC	1.0	U	0.4	0.5	0.1
622.55	REMOVE AND RESET MONUMENTS	15.0	EA	15.0	0.0	0.0
632.3118	RETROREFLECTIVE THERMO. PAVE. MARKING, 18 IN (STOP BARS)	290.0	LF	120	150	20
645.441	SEDIMENT FILTER LOGS (COMPOST SOCK)	285.0	LF	85	150	50
645.531	SILT FENCE	385.0	LF	85	150	150
645.533	INLET FILTER BASKET	37.0	EA	18	17	2
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM	4,800.0	SY	2,500	2,100	200
670.0661	REMOVE & RE-SET SINGLE OR DOUBLE MAILBOX ASSEMBLIES	31.0	EA	18	13	0
692.	MOBILIZATION	1.0	U	0.4	0.5	0.1
900.1	REIN. CONC. PC-1 HEADWALL (12" TO 18" DIA. PIPE)	6.0	U	0	5	1
900.2	REIN. CONC. PC-1 HEADWALL (24" TO 36" DIA. PIPE)	3.0	U	0	1	2
912.	R&R LANDSCAPING	1.0	LS	0.4	0.5	0.1
1010.2	ASPHALT CEMENT ADJUSTMENT (ALLOWANCE)	\$10,000.00	ALLOW	4,000	5,000	1,000

Bid Quantity Summary by Location

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.

				Location
				Wilson St
SCHEDULE 1B - ROADWAY IMPROVEMENTS - ADDITIVE ALTERNATE #1		Total Est. Quant.	Unit	Est. Quant.
Item	Item Description			
201.1	CLEARING AND GRUBBING	940.0	SY	940.0
201.21	REMOVING SMALL TREES	15.0	EA	15
201.22	REMOVING LARGE TREES	10.0	EA	10
203.1	COMMON EXCAVATION (WHERE DIRECTED)	480.0	CY	480
203.6	EMBANKMENT IN PLACE (WHERE DIRECTED)	100.0	CY	100
214.	FINE GRADING	1.0	U	1
304.4	CRUSHED STONE (FINE GRADATION)	340.0	CY	340
306.108	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 8" DEPTH	871.0	SY	871
306.208	RECLAIMED STABILIZED BASE REMOVED AND REHANDLED, 8" DEPTH	843.0	SY	843
403.11A	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (BINDER MIX)	320.0	TON	320
403.11B	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (WEARING MIX)	190.0	TON	190
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	50.0	TON	50
572.1	RECONSTRUCTING STONE WALL	100.0	LF	100
603.83212	12" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	730.0	LF	730
604.0007	POLYETHYLENE LINER	6.0	EA	6
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	5.0	EA	5
604.324	DRAINAGE MANHOLES, 4-FOOT DIAMETER	2.0	EA	2
615.03	TRAFFIC SIGN, TYPE C	2.0	SF	2
618.6	UNIFORMED OFFICERS	\$5,000.0	ALLOW	5,000
622.55	REMOVE AND RESET MONUMENTS	10.0	EA	10.0
645.441	SEDIMENT FILTER LOGS (COMPOST SOCK)	50.0	LF	50
645.531	SILT FENCE	250.0	LF	250
645.533	INLET FILTER BASKET	5.0	EA	5
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM	1,200.0	SY	1,200
670.0661	REMOVE & RE-SET SINGLE OR DOUBLE MAILBOX ASSEMBLIES	10.0	EA	10

Bid Quantity Summary by Location

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.

				Location	
				Fray Street	Edwards Street
SCHEDULE 1C - ROADWAY IMPROVEMENTS - ADDITIVE ALTERNATE #2			Total Est. Quant.	Est. Quant.	Est. Quant.
Item	Item Description		Unit		
201.1	CLEARING AND GRUBBING	481	SY	425	56.0
201.21	REMOVING SMALL TREES	10.0	EA	5	5
201.22	REMOVING LARGE TREES	7.0	EA	4	3
203.1	COMMON EXCAVATION (WHERE DIRECTED)	243	CY	176	67
203.6	EMBANKMENT IN PLACE (WHERE DIRECTED)	30	CY	15	15
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	20	CY	10	10
206.2	ROCK STRUCTURE EXCAVATION	20	CY	10	10
214.	FINE GRADING	1	U	0.5	0.5
304.4	CRUSHED STONE (FINE GRADATION)	214.0	CY	152	62
403.11A	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (BINDER MIX)	270.0	TON	130	140
403.11B	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (WEARING MIX)	158.0	TON	74	84
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	60.0	TON	50	10
585.3	STONE FILL, CLASS C1	25.0	CY	25	0
603.83212	12" SMOOTH INTERIOR, DOUBLE WALL (TYPE S)	170.0	LF	170	0
604.0007	POLYETHYLENE LINER	3.0	EA	2	1
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	3.0	EA	2	1
615.03	TRAFFIC SIGN, TYPE C	29.0	SF	14	15
618.6	UNIFORMED OFFICERS	\$5,000	ALLOW	\$2,500	\$2,500
632.3118	RETROREFLECTIVE THERMO. PAVE. MARKING, 18 IN (STOP BARS)	32.0	LF	16	16
645.441	SEDIMENT FILTER LOGS (COMPOST SOCK)	400.0	LF	200	200
645.531	SILT FENCE	650.0	LF	450	200
645.533	INLET FILTER BASKET	4.0	EA	4	0
646.512	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS, AND LOAM	1,080.0	SY	500	580
900.1	REIN. CONC. PC-1 HEADWALL (12" TO 18" DIA. PIPE)	1.0	U	1.0	0.0



MEETING AGENDA

Date: January 12, 2021

From: James Danis, Engineering Dept

Subj: 2021 Road Program Pre-Bid Meeting

Manor Pkwy, Freedom Drive, Lemay Rd

Twinbrook Ave, Iris Ave

Henry Taylor, Old Farm, Smallbrook Lane

Introductions:

Salem Engineering Dept

- James Danis - Town of Salem, Engineering Dept. - Project Lead
- Christine Wholley - Purchasing Agent
- Brian Colburn - McFarland Johnson
- Matt Moore - McFarland Johnson

Project Location:

- Manor Parkway
 - Industrial park, intersects with Pelham Rd & Industrial Way
 - Access from Exit 2
- Freedom Dr
 - Veterans Memorial Pkwy
 - Access from Exit 1
- Lemay Rd
 - N. Main St below Bluff St intersection
 - Access Exit 2
- Twinbrook Ave/ Iris Ave
 - South end of town.
 - Behind Hampshire St intersect w/Oak Ridge.
 - Off Wheeler Ave
 - Access Exit 1
- Henry Taylor Street, Old Farm Rd
 - North end of Town.
 - Henry Taylor Intersects with E. Broadway.
 - Old Farm intersects w/ Haverhill Rd
 - Access Exit 2 or 3
- Bid Alternates
 - Manor Pkwy – None.
 - Bid Schedule B – Rte 28 drainage



- Twinbook/Iris – None
 - Bid Schedule B – Sewer
- Henry Taylor St – 2 Alternates
 - Alternate 1 – Wilson St
 - Alternate 2 – Frary St Edwards St (gravel road conversions)

Project descriptions:

- Manor Pkwy
 - 2,300 LF, 34-feet wide
 - Reclaim In place
 - Minimal drainage (2 new catch basins & 2 pipe replacements)
 - 5.5" Pavement section with bit curb
 - Shoulder work – associated with curb install
 - Traditional Subdivision w/ 60-foot ROW
 - No utility work proposed
 - Rt 28 Drainage (schedule B)
 - West side between Rockingham Blvd & Cluff Crossing Rd
 - Fill ditch w/ infiltration pipe
 - Granite curb both sides of road
 - Drain structures on west side connecting to infiltration
 - Gutter adjustment for new drainage
 - Mill/overlay
- Freedom Drive
 - 600 LF, 30-feet wide
 - Reclaim in-place (primary). Remove/rehandle pending field layout of grades.
 - Replace sidewalk
- Lemay Rd
 - 1,580 LF, 16-feet wide
 - Reclaim in-place (primary). Remove/rehandle pending field layout of grades.
 - Box widen, shape & Pave
 - Shoulder work
 - 3 culverts
 - Water line extension
- Neighborhood Rds.
 1. Henry Taylor St
 - 1,820 LF, 16-feet wide & 18-feet wide
 - Reclaim in place & Reclaim, Remove, Rehandle w/Stone
 - 1,850 LF Drainage, 19 structures (ledge possible)
 - One utility pole move at Wilson (not in the way of construction)
 - Wilson St – Alternate 1
 - Reclaim in-place and remove/rehandle
 - Minor drainage w/ possible cross country run
 - Modified cul-de-sac construction
 - Frary St & Edwards St – Alternate 2
 - Gravel road conversion

- Box widening, grade & Pave
 - Drain connection and new outfall.
 - One pole move.
2. Old Farm Rd & Smallbrook Lane
 - 4,900 LF, 24-feet wide
 - Reclaim in-place, some stone supplement
 - ½ mill & overlay
 - 1,600 LF underdrain (beginning of old Farm) (ledge possible)
 - 18" culvert replacement w/ headwalls
 - 36" culvert w/headwalls.
 - Minor additional drainage
 3. Twinbrook Ave & Iris Ave
 - 1,750 LF, 20 & 24-feet wide
 - Reclaim in-place
 - Construct cul-de-sac on Iris
 - Minor drainage improvements (Iris)
 - 1,900 LF Underdrain (twinbrook). Minor ledge expected.
 - Sewer Expansion (twinbrook)
 - Water connection (Iris)
- Traditional Subdivision w/ 50-foot ROW (Old Farm, Twinbrook) , 40-foot ROW (Iris) , 20-foot ROW (Henry Taylor, Wilson, Frary, Edwards)
 - Base line control – Survey layout and best fit combination

Utilities

- Water on Manor Parkway, Freedom, Lemay, Twinbrook, Iris
- Sewer on Manor Pkwy, Freedom, Twinbrook, Iris
- Gas on Manor Pkwy, Freedom
- Utility Poles (Manor Pkwy, Freedom, Lemay, Henry Taylor, Twinbrook, iris)
 - Pole relocation on Henry Taylor & Frary
- Underground utilities (Old Farm Rd, Smallbrook Lane, Manor Pkwy)
 - No impact
- 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.

Addendums

- Thursday/Friday this week all projects
- Manor Pkwy
 - New bid sheets – missing items, clarifications (gravel, crushed, crushed fine), temp pavement
 - Plans – No significant change – possible re-issue for clarifications – casting replacements
 - Rt 28 Drainage – to be added as Schedule B
- Freedom
 - Sidewalk prep part of new 3" bit sidewalk.

- Lemay
 - New plans – box widening clarifications
- Henry Taylor
 - Plans – pipe length classifications
 - New bid sheets – clarifications, additions
 - Alternate 2 - Box widening clarification on plans
- Old Farm
 - New bid sheets
- Twinbrook
 - 1.5" LPS in schedule should be 2" LPS.

Bids:

- **BIDS DUE**
 - **Manor Pkwy, Freedom Dr, Lemay Rd – 1:00 PM, January 21, 2021**
 - **Neighborhood Roads – Henry Taylor, Old Farm – 1:00 -- PM, January 21, 2021**
 - **Neighborhood Roads Twinbrook Ave/Iris Ave – 1:00 PM, January 19, 2021**
- Instructions to Bidders: **read it**
- Bid
- Qualifications & Subs
- Acknowledgement of Addendum #1 (and any others that may arise)
- Bid Bond – 5% of Contract
- Statement of non-collusion

Funding:

- Subject to Town vote in March
- Water & Sewer from different funding source

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
- Police details – scheduling challenges
- Two way traffic during non-work hours

Permit

- NHDES Wetland permit
 - PBN permit for Old Farm Rd, Smallbrook Ln, Iris Ave

Construction Schedule

- Substantial Completion:
 - Manor Pkwy, Freedom Dr, Lemay Rd
 - **August 5, 2021**
 - Henry Taylor St, Old Farm Rd, Smallbrook Ln
 - **July 29, 2021**
 - Twinbrook Ave, Iris Ave
 - **July 15, 2021**
- Final Completion:
 - Manor Pkwy, Freedom Dr, Lemay Rd
 - **September 1, 2021**
 - Henry Taylor St, Old Farm Rd, Smallbrook Ln
 - **August 25, 2021**
 - Twinbrook Ave, Iris Ave
 - **August 11, 2021**
- Weekend/Holiday/night work - Not allowed

Submittals

- Shop Drawings
- Certificates of Compliance
- Cut sheets

Other Projects

- Tuscan Village
- Salem Depot Intersection
- Overlay Program (East Broadway)

SUPPLEMENTAL SPECIFICATION

AMENDMENT TO SECTION 401 – PLANT MIX PAVEMENTS - GENERAL

Construction Requirements

Amend 401.3.10.10 by **adding** the following after the last sentence:

“The top of manholes, catch basins, and other castings shall be sprayed with kerosene or other product before the paver passed over the casting. The top of the casting shall be clean of asphalt at the completion of paving.”

Amend 401.3.13.2 to Read:

3.13.2 The material being placed next to a previously paved lane shall be tightly crowded against the face of the abutting lane. The paver shall be positioned so that during spreading, the material will overlap the edge of the first lane by 1 to 2 in and shall be left sufficiently high to match the previously paved lane after compaction. The overlapped material shall be crowded to the joint with a lute prior to rolling. Longitudinal joint compaction shall be achieved by rolling from the hot side to within 6 in. of the previously placed material. The next roller pass will overlap onto the previously placed paved lane by 6 in. Further effort for compaction shall be applied to all joints during the intermediate and final rolling.

Amend 401.3.13.3 to Read:

3.13.3 Placing of the course shall be as continuous as possible, keeping the number of transverse joints at a minimum while still being able to make a hot longitudinal joint.

Amend 401.3.17.3.5.1 to Read as follows:

3.17.3.5.1 Cross slope will be measured as frequent as necessary by the Contractor and Engineer during all paving operations to ensure proper construction. Cross slope for the entire project will be evaluated at all 50-foot stations and through superelevation and superelevation transition sections. All paved areas within the project are subject to evaluation. The procedure for measuring the cross slope shall be by placing a 10-foot metal straight edge on the surface perpendicular to the traveled lane. A 4-foot direct reading level shall be placed on top of it. Percent cross slope shall be read and recorded. A second reading 180-degrees to the first shall be taken and recorded and the two shall be averaged for the test result.

Add Section 4.1.3

4.1.3 Based on NHDOT Bureau of Research and Materials average density factor for pavement shall be 0.057 Tons/SY-in. when calculating project yield and measuring for payment. The contractor shall not be afforded additional payment where specific gravity of stone is greater than the average.

Amend section 5.7 as follows:

5.7 Pavement Joint Adhesive shall be considered included in the price for hot bituminous pavement and no additional compensation will be granted.

SUPPLEMENTAL SPECIFICATION

AMENDMENT TO SECTION 603 – CULVERTS AND STORM DRAINS

Add section 603.2.13

- 2.13** Field cores into existing drain structures shall include necessary neoprene boot and hardware to install.

Add section 603.3.1.3.1

- 3.1.3.1** Refer to design drawings for installation. Where a conflict exists between Figure 1 and the design drawings the design drawings shall govern.

Add section 603.3.1.3.2

- 3.1.3.2** Delete subsidiary depth references from Figure 1.

Add section 603.3.11

- 3.11** Field cores into existing structures will be neatly cut with a circular hole saw. Use of a pipe saw, sledge hammer, jack hammer or other tools which cut a crude irregular shaped hole will not be allowed. Field cores shall be large enough to receive the new pipe and neoprene boot.

Replace Section 4.1.1 with the following:

- 4.1.1** No separate measurement will be made for elbows, bends, couplers, reducers or other methods of connection between pipes regardless of material type, size or material. This provision shall also apply to all connections whether pipe is new or existing.

Replace Section 4.3 with the following:

- 4.3** Video inspection will be measured by the day to the nearest ½ day based on an 8 hour work day commencing from the actual start time on-site.

Add section 603.4.4

- 4.4** Field cores into existing structures shall not be measured for payment except where specifically provided for in the bid. Where cores are authorized for payment they shall be measured by the number of cores completed.

Add section 603.4.5

- 4.5** Relaying or replacement of existing pipe within a structure excavation necessary for connection to a new drainage structure shall not be measured for payment but shall

be considered incidental to the installation of a drainage structure except where specifically called out for payment.

Amend section 603.5.1 by **replacing** “specified in 206.4.1” in the first sentence with “required to complete the installation as indicated on the plans”

Eliminate section 5.1.2

Replace Section 5.1.3 with the following:

5.1.3 Granular backfill, when specified or ordered, will be subsidiary.

Delete section 603.5.3 and **replace** with:

5.3 “Where deficient work has been determined through video inspection, the Contractor shall absorb all costs associated with video inspection. Where work has been determined to be acceptable costs for video shall be paid at the Contract unit price per day and will include all required labor, equipment and materials.

Add section 603.5.3.1

5.3.1 Where an item does not exist for video inspection payment shall be in accordance with Section 109 based on Subcontractor invoicing or Contract labor hours and equipment rates.

Add section 603.5.3.2

5.3.2 No additional compensation shall be provided for video inspection where a pipe is currently in service.

Amend section 603.5.8.1 by **adding** “No additional compensation shall be provided where additional suitable material is located within the project work area.” after the last sentence.

Add section 603.5.9

5.9 Where specifically provided for in the Contract, field cores into existing structures of the size required for the pipe installed will be paid for at the Contract unit price for each field core, complete and in place inclusive of neoprene boot and all necessary hardware.

SUPPLEMENTAL SPECIFICATION

AMENDMENT TO SECTION 604 – CATCH BASINS, DROP INLETS, AND MANHOLES

Description

Add the following after the last sentence of section 1.2.

“It is intended that the new manhole frame and grate shall replace an existing frame and grate that is determined to be unusable by the Engineer.”

Materials

Amend 604.2.4 to read as follows:

2.4 All brick used for casting adjustment and invert tables shall be clay brick conforming to AASHTO M32 Grade SS. Maximum water absorption shall be 3%-4% during the five hour boil test. The use of concrete brick will not be permitted.

Amend 604.2.9 to read as follows:

2.9 Prefabricated adjustment rings are not allowed.

Add Section 604.2.11

2.11 Unless specifically provided for drain manhole frame/cover assembly shall be Neenah Foundry model #R-1743, catch basin frame/grate assembly shall be Neenah Foundry model #R-3570, and catch basin double frame/grate assembly shall be EJ model #OMA552000066. All catch basin frames (single and double) installed at granite curbing locations shall be 3-flanged. All catch basin frames (single and double) installed with no granite curbing shall be 4-flanged.

Add Section 604.2.12

2.12 Submittals shall be required for the following items:

- a. Shop drawing submittals shall be required for each individual catch basin and manhole. The submittal for each structure shall detail the following: the concrete structure including orientation of the cone section, pipe openings in the structure, and the frame and grate or cover orientation in relation to the concrete cone section.
- b. Shop drawing submittals shall be required for all brick used to adjust castings.
- c. Shop drawing submittals shall be required for mortar used in the setting of the castings or the parging of lifting holes.
- d. Shop drawing submittals shall be required for all adhesive and sealant used in the installation of the polyethylene liners.
- e. During the work of setting each new drainage structure or reconstructing existing

structures, the Contractor shall log the as-built location (station and offset) of the center of opening at each structure (cone or top slab opening applicable). The Contractor shall submit a complete list of as-built structures, with station and offset of opening at each structure, for review and approval of the Engineer a minimum of one (1) week prior to starting paving operations.

Construction Requirements

Amend 604.3.3 to Read:

- 3.3** When remodel/reconstruct or adjustment of existing structures is specified, the frames and grates or covers shall be removed and the walls reconstructed as required. Reconstruction of the walls shall mean replacing the top section, if necessary, adding riser sections, replacing riser sections, removing riser sections, or adding/removing rows of barrel block as required to meet the proposed grades. The frames and grates or covers shall be cleaned and reset at the required elevation. Non-serviceable and non-conforming castings shall be replaced as directed.

Amend 604.3.3.1 to Read:

- 3.3.1** The use of prefabricated adjustment rings will not be allowed.

Add Section 604.3.10

- 4.10** New frame & grates or frame & cover and frame adjustments shall include new red clay brick (subsidiary). Existing frame shall be cleaned prior to reset. Where elevation adjustment is specified the existing brick shall be inspected for serviceability. Unserviceable adjusting brick shall be replaced.

Add Section 604.3.10.1

- 3.10.1** Each brick for casting setting or adjustment is to be thoroughly wet just before laying and is to be completely embedded in mortar under its bottom, its side and its end at one operation. Care is to be taken to have every joint full of mortar and the outside is to be fully filled and the inside pointed. No brick work is to be laid in water and no water is to be allowed to rise on the work until it has set at least 24 hours. Do not plaster or mortar over brickwork inside the manholes.

Add Section 604.3.10.2

- 3.10.2** Frames for manhole covers shall be set flush with finish grade. Frames for catch basins shall be set ½-inch below finish grade. The Contractor shall ensure that the frame is set at the same cross slope and profile of the road. New pavement courses shall be luted around the rim to provide a smoothly transitioned depression.

Add Section 604.3.11

- 3.11** Structure change in type shall mean replacement of castings with the new type and construction of new brick inverts or removal of the existing inverts. Where reconstruction is

necessary (i.e. replacement of coats or flat tops and/or replacement of block or riser sections then that work shall be measured separately under its respective item number.

Add Section 3.12:

3.12 Annular space between boot connector and pipe shall be grouted with non-shrink mortar.

Add Section 3.13:

3.13 Inverts shall be constructed inside drain manholes and sewer manholes using brick specified in paragraph 2.4 above.

Method of Measurement

Amend 604.4.1 to Read:

4.1 Catch basins, drop inlets, and manholes will be measured by the number of units installed complete in place.

Amend 604.4.2 to Read:

4.2. Remodel/Reconstruction, adjusting, or change in type of catch basins, drop inlets, or manholes will be measured per structure reconstructed, adjusted, or changed type.

Add Section 4.6:

4.6 Relaying or replacement of existing pipe within a structure excavation necessary for connection to a new drainage structure shall not be measured for payment but shall be considered incidental to the installation of a drainage structure except where specifically called out for payment.

Amend 604 - Basis of Payment: Delete sections and replace with the following:

Basis of Payment

5.1 The accepted quantities of catch basins, drop inlets, and manholes, which includes the necessary frames and grates or covers with adjustment brick, of the type and diameter specified will be paid for at the Contract unit price per unit complete in place, including common structure excavation and setting to final grade, bedding, connection to existing pipes (inclusive of necessary reset or replacement), and backfill with the following stipulations:

5.1.1 Payment for structures indicated as "special" will be made by the complete unit of the depth shown on the plans. When an increase of 6-inches or greater is ordered from the depth shown, the unit depth will be adjusted in proportion that the constructed depth, measured to the nearest foot, bears to the depth shown on the plans. The proportion will be computed to no more than two decimal places.

5.1.2 All rock structure excavation and any excavation of unsuitable material outside the pay limit identified on the design drawings will be paid as provided in 206.

- 5.1.3** No extra allowance will be made for structures constructed in accordance with 3.4.
- 5.1.4** Water repellant treatment for new drainage structures will be subsidiary.
- 5.2** The accepted quantities of remodel/reconstruct, and for adjustment of catch basins, drop inlets, or manholes will be paid for at the Contract price per each complete in place, including replacing the top section, removing, replacing/adding riser sections or barrel block, reinstalling and final adjustment of frames and grates or covers with necessary brick adjustment.
 - 5.2.1** Replacement of non-conforming or damaged frames, grates, and/or rims shall be paid under their respective item numbers where provided for.
 - 5.2.2** No payment will be made for reconstructing/adjusting portions of the above structures which are unnecessarily disturbed.
 - 5.2.3** No separate payment will be made for excavation and backfill for reconstructing/adjusting the above structures.
- 5.3** The accepted quantities of structure change in type will be paid for at the Contract price per each complete in place, including construction of new brick invert or removal of the existing invert and replacement of the existing casting with new type including final adjustment of frames and grates or covers with necessary brick adjustment.
 - 5.3.1** Necessary reconstruction as described in 3.3 above will be paid under its respective unit item at contract unit prices.
 - 5.3.2** No payment will be made for portions of the above structures which are unnecessarily disturbed.
 - 5.3.3** No separate payment will be made for excavation and backfill for the above structures.
- 5.4** The accepted quantities of frames and grates or manhole covers will be paid for at the Contract unit complete in place, including setting to final grade and necessary brick adjustment (new or existing).
 - 5.4.1** Removal and disposal of existing non-conforming or damaged units shall be subsidiary to this item.
 - 5.4.2** Pavement patch shall be paid under 403.12 where castings are raised to final grade in areas that have received base/binder course of pavement. Pay limit areas shall be measured as 1-foot outside the exposed edge of the rim minus the area of the casting.
- 5.5** Testing of sewer manholes required in 3.7 will be subsidiary.
- 5.6** The accepted quantities of polyethylene liner will be paid at the Contract unit price per each installed complete in place.

SUPPLEMENTAL SPECIFICATION
AMENDMENT TO SECTION 607 – FENCES

Replace section 5.2 with the following

- 5.2** Payment will be made for removing and resetting existing fence required under this contract on a linear foot basis. The Linear Foot Price for removing and resetting existing fence includes all 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.