

**CITY OF NEWTON, MASSACHUSETTS
PURCHASING DEPARTMENT
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August 12, 2022

**ADDENDUM #1
INVITATION FOR BID #23-12**

Cold-Planing of Bituminous Concrete Pavement and Bituminous Concrete Overlay at Various Roadways

THIS ADDENDUM IS TO: ADD A NEW SECTION TO “GENERAL REQUIREMENTS—TEMPORARY CONTROLS” AND SUBSTITUTE NEW ITEM SHEETS AND CONSTRUCTION SPECIFICATIONS.

NEW GENERAL REQUIREMENTS

The following new section 1.09 shall be added to the “General Requirements – Temporary Controls” at p. 93 of the Invitation For Bid (IFB):.

1.09 TEMPORARY PEDESTRIAN ACCESS

- A. The City of Newton requires that all work zones maintain a safe pedestrian access route around or through individual work sites that is ADA accessible during the execution of this contract.
 - a. Sidewalks – when repairing, installing, adjusting sidewalks and/or curbing the Contractor may only work on one side of the roadway at a time. This allows the opposite side of the roadway to be used for safe pedestrian access. Proper signage must be positioned as directed by the Engineer (see d. below)
 - b. ADA Access Ramps – only one ADA ramp may be excavated/worked-on at a time at any intersection. Only after the initial ADA ramp is made pedestrian and ADA accessible (see e. below) may a second ADA ramp be worked on.
 - c. Temporary Ramps – if required for safe access, the Engineer may require temporary ADA compliant HMA access ramps.
 - d. The Engineer will identify the proper location for appropriate signage to direct pedestrians safely around any active work area. Signage will include “Sidewalk Closed Ahead – Cross Here” signs (with the appropriate directional arrow) and “Sidewalk Closed” signs. The signs must be stable and not prone to falling over.
 - e. Temporary Safe Access – placement of HMA or dense grade material compacted as directed by the Engineer may be used to obtain a suitable smooth stable base for temporary pedestrian access prior to placement of concrete.

NEW ITEM SHEETS: The Item Sheets at pp. 74-84 of the IFB are deleted and

the attached Item Sheets are substituted therefor.

All other terms and conditions of the IFB remain unchanged.

**PLEASE ENSURE THAT YOU ACKNOWLEDGE ALL ADDENDA ON YOUR
BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD
RESULT IN REJECTION OF YOUR BID AS NONRESPONSIVE.**

Thank you.

A handwritten signature in black ink that reads "Nicholas Read". The signature is written in a cursive, slightly slanted style.

Nicholas Read
Chief Procurement Officer

ITEM SHEETS

The Contractor shall insert unit prices for each item in ink, in both words and figures, and is to show a Total Cost (unit price x estimated quantities). In the event a discrepancy between the written words and figures, the written words shall govern. In the event an error in the bidders total bid price, the corrected total bid obtained by the summation of the products of the unit prices multiplied by the respective quantities shall stand as the bidder's total bid price.

Unbalanced bidding is expressly prohibited and all unit bid prices will be compared for reasonable conformance with the engineer's estimate. The City has the right to reject award of a bid, or part thereof, to protect the public interest if it is apparent that a bid is mathematically unbalanced, the bidder front-end loads its bid as to amount to an advanced payment, there extreme variations from the engineer's estimate or other bids received, if in the opinion of the City, the unit prices create a reasonable doubt that that apparent low bidder will actually result in the lowest cost to the City, and/or if the overall competitive bidding process has been jeopardized.

***The estimated quantities shown here are based solely upon prior experience and a reasonable assessment of the project parameters, thus the Contractor is advised that the actual quantities may vary substantially as field conditions may necessitate. Regardless of the amount of actual quantities, however, the quoted unit prices shall always apply.**

There is no separate labor charge under this bid: unit prices shall include full compensation for all labor, materials, tools and equipment, and all incidentals necessary to complete the work as specified herein. No payment(s) shall be due to the Contractor in excess of the unit prices in these except pursuant to a duly approved and properly executed written change order.

NOTICE: In accordance with MGL Chapter 303 of the Acts of 2008 this bid contains price adjustments for 1) Fuel (combination of Gasoline & Diesel) and 2) Liquid Asphalt. It is the bidders' responsibility to familiarize themselves with this price adjustment program prior to entering a bid.

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 120.1: UNCLASSIFIED EXCAVATION</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER CUBIC YARD</p>	713	CY	\$ _____
<p>ITEM 151: GRAVEL BORROW (TYPE B)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER CUBIC YARD</p>	415	CY	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 220: DRAINAGE STRUCTURE ADJUSTED</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	38	EA	\$ _____
<p>ITEM 220.01: ADJUSTMENT OF EXISTING STRUCTURES (F&G/C) BINDER</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	5	EA	\$ _____
<p>ITEM 220.02: MANHOLE RISER</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	1	EA	\$ _____
<p>ITEM 220.2: STRUCTURE REBUILT</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER VERTICAL FOOT</p>	8	VF	\$ _____
<p>ITEM 220.201: STRUCTURE REBUILT (BINDER)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER VERTICAL FOOT</p>	2	VF	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 222.3: FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	5	EA	\$ _____
<p>ITEM 222.301: FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD (BINDER)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	3	EA	\$ _____
<p>ITEM 357: GATE BOX</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	2	EA	\$ _____
<p>ITEM 357.01: GATE BOX (BINDER)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	1	EA	\$ _____
<p>ITEM 358: GATE BOX ADJUSTED</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	18	EA	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 358.01: GATE BOX ADJUSTED (BINDER)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	9	EA	\$ _____
<p>ITEM 358.02: 6 INCH GATE BOX RISER</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	1	EA	\$ _____
<p>ITEM 381: SERVICE BOX</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	8	EA	\$ _____
<p>ITEM 381.3: SERVICE BOX ADJUSTED</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	20	EA	\$ _____
<p>ITEM 399.02: PROTECTOR RING 28 INCHES OR 31 INCHES</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	50	EA	\$ _____
<p>ITEM 399.03: RETRIEVE AND DEPLOY PROTECTOR RING</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	10	EA	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 402.: DENSE GRADED CRUSHED STONE FOR SUB BASE</p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____) PER CUBIC YARD</p>	95	CY	\$ _____
<p>ITEM 415.3: PAVEMENT STANDARD MILLING</p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____) PER SQUARE YARD</p>	11060	SY	\$ _____
<p>ITEM 450.23: SUPERPAVE SURFACE COURSE -12.5 (SSC - 12.5)</p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____) PER TON</p>	1260	TN	\$ _____
<p>ITEM 450.32 SUPERP47AVE INTERMEDIATE COURSE - 12.5 (SIC -19.0 - P)</p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____) PER TON</p>	850	TN	\$ _____
<p>ITEM 470.2: HOT MIX ASPHALT BERM, TYPE A - MODIFIED</p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____) PER FOOT</p>	50	FT	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 472: HOT MIX ASPHALT FOR MISCELLANEOUS WORK</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER TON</p>	10	TN	\$ _____
<p>ITEM 504: GRANITE CURB TYPE VA4 – STRAIGHT</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	100	FT	\$ _____
<p>ITEM 504.01: GRANITE CURB SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	650	FT	\$ _____
<p>ITEM 504.1: GRANITE CURB TYPE VA4 – CURVED</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	20	FT	\$ _____
<p>ITEM 514: GRANITE CURB INLET – STRAIGHT</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	3	EA	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 580: CURB REMOVED AND RESET</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	112	FT	\$ _____
<p>ITEM 581: CURB INLET REMOVED AND RESET</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	5	EA	\$ _____
<p>ITEM 590: CURB REMOVED AND STACKED</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	10	FT	\$ _____
<p>ITEM 594: CURB REMOVED AND DISCARDED</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	30	FT	\$ _____
<p>ITEM 697.1: SILT SACK</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EA</p>	20	EA	\$ _____
<p>ITEM 701: CEMENT CONCRETE SIDEWALK (4 INCHES)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE YARD</p>	945	SY	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 701.1: CEMENT CONCRETE SIDEWALK AT DRIVEWAYS (6 INCHES)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE YARD</p>	315	SY	\$ _____
<p>ITEM 701.2: CEMENT CONCRETE WHEELCHAIR RAMP</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE YARD</p>	425	SY	\$ _____
<p>ITEM 702: HOT MIX ASPHALT WALK SURFACE</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER TON</p>	12	TN	\$ _____
<p>ITEM 703: HOT MIX ASPHALT DRIVEWAY</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER TON</p>	10	TN	\$ _____
<p>ITEM 706.01: REMOVE AND RESET MISCELLANEOUS SIDEWALK & DRIVEWAY TREATMENTS</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE YARD</p>	10	SY	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 748. – MOBILIZATION</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER LUMP SUM</p>	1	LS	\$ _____
<p>ITEM 751: LOAM BORROW</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER CUBIC YARD</p>	93	CY	\$ _____
<p>ITEM 765: SEEDING</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE YARD</p>	853	SY	\$ _____
<p>ITEM 852.01: TEMPORARY TRAFFIC CONTROL</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER LUMP SUM</p>	1	LS	\$ _____
<p>ITEM 853.403B: BIKE SYMBOL WITH SHARROW (THERMOPLASTIC)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER EACH</p>	2	EA	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p>ITEM 854.016: TEMPORARY PAVEMENT MARKINGS - 4 INCH (PAINTED)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	600	FT	\$ _____
<p>ITEM 854.1: PAVEMENT MARKING REMOVAL</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE FOOT</p>	300	SF	\$ _____
<p>ITEM 856.12: PORTABLE CHANGEABLE MESSAGE SIGN</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER DAY</p>	50	DAY	\$ _____
<p>ITEM 864.04: PAVEMENT ARROWS AND LEGENDS (THERMOPLASTIC)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER SQUARE FOOT</p>	100	SF	\$ _____
<p>ITEM 866.104: 4" REFLECTORIZED WHITE LINE (THERMOPLASTIC)</p> <p>THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT</p>	100	FT	\$ _____

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
ITEM 866.112: 12" REFLECTORIZED WHITE LINE (THERMOPLASTIC) THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT	1000	FT	\$ _____
ITEM 867.104: 4" REFLECTORIZED YELLOW LINE (THERMOPLASTIC) THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____) PER FOOT	12000	FT	\$ _____
ITEM 999.01: MISCELLANEOUS WORK ALLOWANCE THE SUM OF: _____ <i>Forty Thousand</i> DOLLARS AND _____ <i>Zero</i> CENTS (\$ _____ <i>40,000.00</i>) PER ALLOWANCE	1	ALL	\$ <u>40,000</u>
ITEM 999.02: ALLOWANCE FOR PAYMENT OF POLICE OFFICERS THE SUM OF: _____ <i>Fifty Thousand</i> DOLLARS AND _____ <i>Zero</i> CENTS (\$ _____ <i>75,000.00</i>) PER ALLOWANCE	1	ALL	\$ <u>50,000</u>

TOTAL BID PRICE:

\$

Total Bid Price must be placed in paragraph "C" of the Bid Form)

END OF SECTION

ADDITIONAL CONSTRUCTION SPECIFICATIONS:

The following Items shall be added to the Construction Specifications.

- "Item 399.02 Protector Ring 28 Inch or 31 Inch"
- "Item 399.03 Retrieve and Deploy Protector Ring"

- “Item 504.01 Granite Curb Supplied by the City and Installed by the Contractor”

The updated Construction Specifications below include Items 399.02, 399.03 and 504.01.

ITEM 399.02	PROTECTOR RING 28 INCHES OR 31 INCHES	EACH
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DESCRIPTION

Under these Items the Contractor shall furnish and install a new 28 inch inside diameter, or 31 inch inside diameter manhole protector ring respectively at those locations, and only in such quantities, as the Engineer shall direct. The primary purpose of these rings is to prevent tire damage and/or vehicular ‘slaloming’ by providing a temporary ramping means for the purpose of transitioning vehicles over the manholes and water gate boxes which are primarily located in the wheel-path at manhole concentration points such as intersections.

The cold-planing contractor shall initially furnish and subsequently install the protector rings in those areas in which the work is being performed and such deployment shall be performed immediately and on a continuous basis in harmonic unison with the progression of the cold planing operation.

Only pre-approved protector rings which were delivered as new material at the beginning of the project term, installed, and subsequently accounted for at the end of the operation, shall be paid for under these Items.

The Contractor shall work closely with the Engineer to determine which size protector ring will best meet the needs of the project site(s) before the balance of the order is filled. To that end the Contractor shall initially supply one ring of 28” inside diameter, and 31” inside diameter, before the commencement of the contract, for the purpose of making a determination as to which ring size, or combination of ring sizes, will best meet the needs of the City of Newton under this program.

MATERIALS

The Protector Ring (a.k.a. gate-box/manhole safety ramps) shall be equal to Part No. MSR10, MSR26 or MSR31, whichever is applicable, as supplied by American Highway Products Ltd; <http://www.ahp1.com/safetyramp1.php>

Protector Rings shall be molded of flexible heavy-duty recycled rubber material and shall have the following characteristics:

- The rise from the bottom surface to the top shall be two (2”) inches
- The weight of the ring shall be 62 lbs. for 28” I.D. rings, and 55 pounds for 31” I.D. rings
- The outside diameter of the rings shall be 48” for 28” & 31” I.D. rings
- Density: 0.6 oz. / c.i. ASTM C642
- Fabrication: Compression Molded Deposit
- Durometer Hardness: 66A ASTM D2240
- Tensile Strength: 300 psi ASTM D412
- Elongation: 90% ASTM D412
- Brittleness: -40 Deg. Fahrenheit ASTM D746
- Coefficient of Thermal Expansion: ASTM C531

The Contractor is free to submit a catalog cut from competing ‘manhole protector ring’ suppliers for the purpose of gaining approval for their use; however, the minimum characteristics listed here must be met or exceeded.

Each protector ring pre-approved by the Engineer, furnished as new material and are initially deployed, and which are ultimately accounted for (in-place) at the end of each separate cold-planing operation, or otherwise delivered directly to the City’s designated stockpile location, shall be paid for under these applicable Items.

CONSTRUCTION METHOD

Protector rings which the Engineer has authorized to be purchased, and which have been either immediately deployed on-site or have otherwise been delivered to the City's stockpile location and neatly stacked in their designated location, shall be subsequently deemed as 'City Owned protector rings'. Therefore, any deployment of unused/'new' protector rings, retrieved from the stockpile and deployed by the Contractor shall be paid for under Item 399.03 Retrieve & Deploy Protector Ring. All protector rings shall be removed prior to paving.

MEASUREMENT AND PAYMENT

Compensation for these Items will be paid the contract unit price per each new, pre-approved and authorized protector ring for each new 28 inch inside diameter, or 31 inch inside diameter protector ring respectively, pre-approved and authorized protector ring furnished by the Contractor as new material, initially deployed throughout the various work zones during the course of the cold-planing operation, and ultimately accounted for (in-place) at the end of the cold-planing operation, or otherwise have been stockpiled at the direction of the Engineer. The unit price shall include full compensation for all labor materials, tools and equipment to furnish, install, maintain, remove, haul, stockpile, and all incidentals necessary to complete the work under this Item, as directed by the Engineer, and as specified herein.

ITEM 399.03	RETRIEVE & DEPLOY PROTECTOR RING	EACH
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DESCRIPTION

Under this Item the Contractor shall retrieve and deploy City of Newton owned manhole protector rings and/or City of Newton owned gate-box protector rings. These transition rings shall only be deployed at those locations, and only in such quantities, as the Engineer directs, and such work shall be performed immediately and on a continuous basis in harmonic unison with the progression of the cold planing operation.

The primary purpose of these rings is to prevent tire damage and/or vehicular 'slaloming' by providing a ramping means for the purpose of transitioning vehicles over the manholes and water gate boxes which are primarily located in the wheel-path and/or at manhole concentration points such as intersections.

The Contractor shall work closely with the Engineer to determine which size protector ring, as well as the number of rings, that will best meet the needs of the project site(s), before the balance of the order is filled.

The Contractor is advised that each Manhole Protector Ring (a.k.a. manhole safety ramps) typically weigh approximately 30 pounds each and is heavy-duty units that are equal to Part No. MSR10, MSR26 or MSR31, whichever is applicable, as supplied by American Highway Products Ltd. (<http://www.ahp1.com/safetyramp1.php>)

The Contractor shall work closely with the Engineer to develop a mutually acceptable plan whereby the number of rings that are retrieved and deployed by the Contractor are most easily and most conveniently documented. However, the Engineers decision as to the final means and methods concerning the manner in which this program is administered shall take precedence.

CONSTRUCTION METHOD

When requested by the Engineer to do so the Contractor shall retrieve the designated number of manhole protector rings from the centralized storage area located at the Elliot Street DPW Yard. Any rings not pre-approved by the Engineer to be retrieved and deployed shall not be paid under this program but shall be returned to the centralized storage area, and neatly stacked, at no expense to the City.

At no time shall the Contractors vehicle(s), used in the performance of these activities, leave the City of Newton while carrying the City owned manhole rings. Any rings which are lost, due to the negligence of the Contractor to abide by this mandate or otherwise, shall be replaced by the Contractor at no additional expense to the City.

The Contractor shall be responsible for loading and unloading the rings on-to and off-of service vehicles at the time of retrieval, and at the time of the field deployment, where the Contractor shall place each ring directly upon the manhole castings that lie within the designated project zone. However, any rings which have been deployed, but

which are subsequently deemed not to best meet the needs and/or the intent of the field operations, shall be removed from the casting and reset where directed by the Engineer, at no additional expense to the City.

MEASUREMENT AND PAYMENT

The Contractor shall be paid for each City owned manhole protector ring, or each City owned gate-box protector ring, retrieved and deployed in accordance with the directives of this Item. Only those protector rings pre-approved by the Engineer to be retrieved and subsequently deployed in the course of performing these activities shall be paid for under this Item.

Compensation for this Item will be paid the contract unit price for each City owned manhole protector ring, or each City owned gate-box protector ring, retrieved and deployed, and which has been pre-approved, authorized and ultimately verified by the Engineer. This unit price shall include full compensation for all labor materials, tools and equipment to install, maintain, remove, haul, stockpile, and any incidentals necessary to complete the work under this Item, as directed by the Engineer, and as specified herein.

ITEM 504.	GRANITE CURB TYPE VA4 – STRAIGHT	FOOT
ITEM 504.01	GRANITE CURB SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR	FOOT
ITEM 504.1	GRANITE CURB TYPE VA4 – CURVED	FOOT
ITEM 514.	GRANITE CURB INLET – STRAIGHT	EACH
ITEM 580.	CURB REMOVED AND RESET	FOOT
ITEM 581.	CURB INLET REMOVED AND RESET	EACH
ITEM 590.	CURB REMOVED AND STACKED	FOOT
ITEM 594.	CURB REMOVED AND DISCARDED	FOOT

DESCRIPTION

Work under these Items shall conform to the relevant provisions of Section 500, the City of Newton Standard Specification and General Construction Details, the direction of the Engineer or as supplemented and amended as follows:

The work under Items shall include installing granite curb supplied by the City and furnishing and installing granite curb Type VA/VB/SB, including straight or curved sections, transition pieces for wheelchair ramps, granite edging, removal and resetting of existing curb, and the removal and discarding of existing curb. The length of transition pieces shall be installed to meet all ADA Standards, slopes, and requirements.

Granite curb supplied by the City to be installed by the contractor shall be picked up at the City’s storage facility by the contractor and subsequently installed where directed by the Engineer.

SUBMITTALS

A minimum of thirty (30) days prior to the start of any construction activity, the contractor shall submit shop drawings for the granite curb to the City for review and approval.

CONSTRUCTION METHOD

All new curbing, including curb supplied by the City, shall be provided with concrete support, as shown on the construction detail. Concrete support shall be provided on both sides of curbing that does not have a hard surface backing it up. Concrete for curb lock shall not extend further than two (2) inches below finish roadway elevation. Cost of all concrete support shall be included in the price bid for curb.

Where granite curb is used to stabilize areas of cut at the back of a sidewalk or wheelchair ramps, it shall be measured and paid for under Items 504., 504.01, or 504.1 only where directed by the Engineer.

Existing curbing to be reused shall be installed in continuous sections and shall not be intermingled with new curbing. Any interim stacking or other extra handling or relocating of the curb shall be considered for the Contractor's convenience and not cause for additional compensation.

Granite curb shall be set in close conformity with the lines, grades, dimensions, and design shown on the plans, as described in the Field Engineering section of the General Requirements of these specifications, or as required by the Engineer.

MEASUREMENT AND PAYMENT

Payment for Items **504., 504.1, 580, 590 and 594** shall be at the Contract Unit Prices bid per Foot and Payment for **Items 514. and 581.** shall be at the respective Contract Unit Prices bid per Each for furnishing and installing new granite curb of all types, complete in place including sawcutting, excavation, fine grading and compacting of both subbase and existing subgrade, concrete support, backfill and removing, resetting, and discarding of all types of curb, including labor, materials, equipment, and all incidentals necessary to complete the work to the satisfaction of the Engineer.

Payment for Item **504.01** shall be at the Contract Unit Prices bid per Foot for installing new granite curb supplied by the City, complete in place including sawcutting, excavation, fine grading and compacting of both subbase and existing subgrade, concrete support, backfill and removing, resetting, and discarding of all types of curb, including labor, materials, equipment, and all incidentals necessary to complete the work to the satisfaction of the Engineer.