

To: SUPERSEDED BY EI 13-007 EFFECTIVE 1/9/14		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 00-032
Title: Curb			
Distribution: ☒ Manufacturers (18) ☒ Surveyors (33) ☒ Main Office (30) ☒ Consultants (34) ☒ Local Govt. (31) ☒ Contractors (39) ☒ Regions/Agencies (32) ☐ ()		Approved:  P. J. Clark, Deputy Chief Engineer, Design Division 10/4/00 Date	

Effective Date.

This Engineering Instruction is effective for projects submitted for the Letting of 05/03/01 and will be incorporated into future versions of the NYSDOT Standard Specifications.

Administrative.

This Engineering Instruction supersedes EI96-034 OPTIONAL CURB - GRANITE OR PRECAST and issues changes to NYSDOT January 2, 1995 Standard Specifications §609, Standard Sheets M609-2, M609-3, M609-4. Because they are no longer needed with these changes, Items 609.0105 M, 609.0107 M, 609.0205 M, 609.0207 M, 609.11 M and Special Specifications 15609.122x M, 15609.123x M are disapproved. New Items 609.0100 M, 609.0200 M, 609.0300 M, 609.035x M, 609.0350 M, 609.0400 M, 609.0500 M, 609.2100 M, 609.2200 M are approved.

The attached specifications are Shelf Notes inserted in the Proposal by the Main Office.

Revised Standard Sheets M609-2R1, M609-3R1 and M609-4R1 are being transmitted by EB00-051

Attachments.

Shelf Note §609 Curb.

Guidance and Changes.

Specifications

Optional Curb, Items 609.0901 M, 609.0902 M, 609.0903 M, modified to include granite curb under EI96-034 is included under this EI and attached specification.

Cast-in-Place Concrete Mall, Item 609.11 M, is deleted from the specifications. It was eliminated from the Standard Sheets in 1985.

Casting lengths under §609-3.04 are reduced from 6 m to 3 m due to observed cracking reported by the Materials Bureau.

Under §609-3.04.B, the Contractor may provide additional width of curb without any other change in shape or dimension, if provided by the Contractor at no additional cost to the State. If the Contract Documents or the Engineer require no curb be placed across driveway entrances, the Contractor may continue placing curb across driveway entrances but the curb placed across driveway entrances, excluding transitions, must be cut out and the concrete disposed as directed by the Engineer. Method of Measurement and Basis of Payment are modified

to allow these occurrences.

Pay Item Number 609.03xx M is changed to Granite Bridge Curb (previously named Stone Bridge Curb) because granite is what is intended by the Department and what is being furnished by the Contractor. Pay Item Number 609.035x M Stone Bridge Curb is added to the specification in the event Sandstone or Bluestone curb is ever needed.

Under Item 609.04xx M Cast-in-Place Concrete Curb, to facilitate their operations, the Contractor is allowed the option of casting or machine (slip) forming a curb width from a minimum of 175 mm to a maximum of 225 mm versus the previously established 175 mm wide curb (see Standard Sheet M609-2R1 below) as long as the added width is placed with no additional cost to the State.

Items 609.0100 M Stone Curb, (as detailed), 609.0200 M Granite Curb, (as detailed), 609.0300 M Granite Bridge Curb, (as detailed), 609.0350 M Stone Bridge Curb, (as detailed), 609.0400 M Cast-in-Place Concrete Curb, (as detailed), 609.0500 M Cast-in-Place Concrete Curb & Gutter, (as detailed), 609.2100 M Painted Hot Mix Asphalt Curb, (as detailed), 609.2200 M Unpainted Hot Mix Asphalt Curb, (as detailed), paid per meter will be entered into the system. This will allow sections other than the standard sections on the Standard Sheet but you will have to detail the section in the Plans. We did not enter one for Precast Concrete Curbs since precasters are reluctant to make custom sections.

Standard Sheets

Standard Sheet M609-2R1 changes:

The cast-in-place concrete curb and curb & gutter, Types VF150, M100, VF150A, M100A, VF150G and M100G, changed from a standard width of 175 mm to a maximum of 225 mm and a minimum of 175 mm, and the height changed on Types VF150, M150, M100 and T100 to Pavement Thickness + the height of the curb from the pavement (the bottom of curb is on the top of subbase and the top of the curb is determined by the pavement thickness, permeable base course, and type of curb). The width and height changes were made because of reported difficulties some Contractors were having in slip forming the old (175 x 500) shape and suggestions from the Region.

The general label "Found. (Foundation) Course" has been changed to "Subbase" for consistency with the Standard Specifications.

Because of concerns about sealing the construction joint and narrow heels being caught, the 38 mm rounding is replaced with a 20 mm flat on the top backside of Traversable Curb.

The Curb Anchor (New Curb by Existing Pavement) detail has been changed to the current metric standards and consistency with other curb anchors (#5 bar changed to #19 bar, grade 40 changed to grade 420).

Where "Foundation Course (See Plan Typical Section)" is noted, the 'Varies, Min. 150 mm' dimension has been deleted to allow Designers the flexibility to design pavements.

The Precast Concrete Curb With Flexible and Rigid Pavement details is changed to "Precast Concrete, Stone, and Granite Curb With Flexible Pavement" and "Precast Concrete, Stone, and Granite Curb With Rigid Pavement" to agree with Specification §609-3.02. These details have been removed from M609-3R1 and incorporated on this sheet. The 25 mm maximum dimension on the grout between curb and rigid pavement comes from the maximum allowed projections on front faces of Stone Curb under Material Details §714-01. The bed designation and thickness are in Specification §609-3.02.

The precast vertical faced curb, Type PVF150, width dimensions have been changed to allow this curb to match Stone and Granite Curb Type C and Cast-in-Place Concrete Curb Type VF150.

The precast mountable curb, Type PM100, width dimensions have been changed to allow this curb to match Stone and Granite Curb Type E100 and Cast-in-Place Concrete Curb Type M100.

Note 4 was deleted because of changes made to the "Precast Concrete, Stone, and Granite Curb with Rigid Pavement" detail. Grout was modified and Caulk was removed on the detail.

Because of concerns of sidewalk cracking around curb boxes, a new Note 4 was added to inform Contractors of the required detail. When a vertical faced (AASHTO is using the term "vertical faced" vs. "barrier") curb is used with a width dimension less than the curb box and is adjacent to concrete sidewalk the detail on M609-4R1 should be used.

Standard Sheet M609-3R1 changes:

Sloped Curb has been removed due to lack of use. Installing sloped stone or granite curb is considered to be both a problem in construction and a problem in maintenance because of required resetting when loosened by traffic.

Stone and granite curb heights have been changed from 405 ± 25 mm to 400 mm because 5 mm is meaningless with a tolerance of ± 25 mm (405 mm came from a soft conversion of 16") and tolerances, of this nature, are covered under the "Close conformity" provisions in Section 100 of the Standard Specifications.

Details for Curb With Flexible and Rigid Pavement have been removed and incorporated on Sheet M609-2R1.

The Stone Curb Driveway Transitions and Curb Terminal Detail was removed and incorporated on Sheet M609-4R1.

Sawed, hammered, or thermal finish has been added to quarry split for the face of Type "C" Curb. This is to allow the use of more granite with less waste during quarry operations possibly lowering the cost to Contractors and possibly lowering the cost to the State. The sawed, hammered, or thermal finish also provides a smoother finish, better appearance, and less of a hazard to vehicle tire sidewalls.

Type "E" Curb has been removed because AASHTO does not allow these dimensions on a "mountable" curb.

Standard Sheet M609-4R1 changes:

The requirement of carrying curb and the 25 mm reveal across non-commercial driveways has been changed to an option to the Designer or Engineer with addition of details and notes. Many Regions question if removal of the requirement to carry curb across driveways will provide a more compacted asphalt pavement and eliminate asphalt pavement raveling in the driveway area.

The detail for non-commercial driveways has been removed. This detail or something to replace it is being added on new standard sheets Driveway Details for Residential & Minor Commercial M608-5 and M608-6 being concurrently developed by the Standardization Committee and issued by another El.

Curb Terminals have been incorporated with Curb Transitions.

"Curb and Curb Box adjacent to Concrete Sidewalk" detail has been added because of concerns of sidewalk cracking at curb boxes when narrower curb is used.

Background.

Constructibility and durability concerns from the Associated General Contractors of America and investigation by the Materials Bureau prompted these changes to our official issuances on curb.

HDM §3.2.9.5 can be revised to allow Designers, under Item 609.02xx M Granite Curb, to specify granite curb without further justification for any quantity based on Client Report 81, "Granite and Concrete Curbing: A Comparison of Performance and Costs", completed by Research and Development, September, 1998. The Report, in summary, states granite curb has a life-cycle cost equivalent to concrete curb. Granite curb has a higher initial cost, but is more durable than concrete, and can be reset many times. For quantities over 600 meters, Statewide Average Bid Prices converge and the initial cost of granite curb is higher than concrete curb (ie \$17.40/LF vs. \$12.70/LF or \$57.10/m vs. \$41.80/m). For quantities of 600 meters or less, bid prices vary, being both higher and lower than the convergent values. The mentioned study also puts the life of granite curb, conservatively, at three times the life of concrete curb.

The difference between granite and concrete curb is not great when the large variations of bid prices are considered. As an example, a recorded low bid for granite curb is \$10/LF and a recorded high bid for concrete curb is \$110/LF; the granite can be said to be 1000% lower than concrete. This would be inaccurate. Statistics can show the difference between granite and concrete curb to be relatively small based on the data.

HDM §3.2.9.5 can also be revised to instruct Designers to use optional curb specifications when they have a concern about whether a specific curb size and shape is manufactured in a specific material. Also, special justification for specifying granite curb is no longer needed. It can be mentioned to state special justification is not needed in the circumstances it was required before, and to clearly state special justification is not needed in any circumstance.

Contact.

Chuck Torre, Design Quality Assurance Bureau, (518) 485-5632.

CURB

Make the following *changes* to the Standard Specifications of January 2, 1995:

Page 6-49, line 25, *replace* SECTION 609 - CURBING, CURB & GUTTER, AND CONCRETE MALL with the following:

"SECTION 609 - CURB AND CURB & GUTTER

609-1 DESCRIPTION. Construct and place curb, and curb & gutter, and/or reset curb as specified in the Contract Documents or established by the Engineer.

609-2 MATERIALS. The materials shall meet the requirements of the following subsections of §700 - Materials Details.

Portland Cement, Type II	701-01
Concrete Repair Material	701-04
Concrete Grouting Material	701-05
Anchoring Material - Chemically Curing	701-07
Coarse Aggregate	703-02
Concrete Sand	703-07
Premoulded Resilient Joint Filler	705-07
Masonry Mortar	705-21
Stone Curb Anchor Bars	709-07
Quilted Covers (for Curing)	711-02
Plastic Coated Fiber Blankets (for Curing)	711-03
Polyethylene Curing Covers (White Opaque)	711-04
Membrane Curing Compound	711-05
Stone Curb	714-01
Precast Concrete Curb	714-04
Asphalt Concrete or Hot Mix Asphalt Curb	714-06

White and Yellow Pavement Marking Paints shall meet the requirements of §640 - Reflectorized Pavement Marking Paints.

609-2.01 VACANT

609-2.02 Concrete for Cast-in-Place Concrete Curb and Curb & Gutter.

A. Conventionally Formed Curb and Curb & Gutter. The material requirements, mix preparation and manufacturing of the concrete shall conform to the requirements for Class A Concrete as specified in §501, Portland Cement Concrete - General.

B. Machine Formed Concrete Curb and Curb & Gutter. Use Class J Concrete as specified in §501, Portland Cement Concrete - General.

609-2.03 Stone Curb and Granite Curb. Stone curb shall conform to §714-01 and shall be either sandstone or bluestone. Granite curb shall conform to the requirements for granite under Stone Curb §714-01.

§609-2

609-2.04 Curb Anchors. Curb anchors for cast-in-place concrete curb, and curb & gutter shall be fabricated from material conforming to the requirements for Longitudinal Joint Ties §705-14 and to the details shown on the standard sheet for concrete curb or as indicated in the contract documents.

609-2.05 Concrete for Backing and Bedding Precast Concrete Curb, Stone Curb, and Granite Curb. The Contractor shall use any Class Concrete or a concrete mix proportioned as follows:

KILOGRAMS OF AGGREGATE PER BAG OF CEMENT

Specific Gravity of	2.60	2.70	2.80	2.90
Concrete Sand	148	153	159	165
Coarse Aggregate, CA 2 Gradation	243	252	253	271

609-3 CONSTRUCTION DETAILS

609-3.01 General. Curb, or curb & gutter found to be dirty, damaged or out of alignment shall be cleaned, repaired, or replaced as necessary by the Contractor to the satisfaction of the Engineer prior to final acceptance of the work. When the Contract Documents have no reference to placing curb across driveway entrances, no curb shall be placed across driveway entrances.

609-3.02 Precast Concrete Curb, Stone Curb, and Granite Curb. All precast concrete curb, stone curb, and granite curb shall be set on a 75 mm thick continuous bed of dry concrete mix, or on a 75 mm thick dry concrete mix bed at the joints as shown on the Standard Sheets and plastic concrete between the joints, or on a 75 mm minimum thick continuous bed of compacted granular material, at the Contractor's option.

Precast concrete curb, stone curb, and granite curb shall be backed up with concrete using one of the following methods depending on the type of pavement:

A. Portland Cement Concrete (Rigid) Pavement. The Contractor shall place concrete backing behind the curb at each joint. The backing shall extend a minimum of 300 mm on both sides of the joint. The minimum height of the concrete backing shall be one half of the concrete pavement thickness and shall be measured from the bottom of the curb.

B. Hot Mix Asphalt (Flexible) Pavement. The Contractor shall place a continuous concrete backing behind the curb. The minimum height of the concrete backing shall be 255 mm or to the top of the hot mix asphalt pavement, whichever is greater, measured from the bottom of the curb.

Precast curb and stone curb with and without sawed ends, not on structure, shall be butted together with no mortar between the joints.

When the curb is set next to a concrete (rigid) pavement, grout conforming to §701-04 Concrete Repair Material or §705-21 Masonry Mortar shall be placed in the joint formed between the curb and the pavement. The grout shall extend from the bottom to the top of the pavement slab.

Before proceeding with any further work adjacent to the curb, the curb shall be backfilled with material approved by the Engineer and the backfill material shall be thoroughly tamped.

609-3.03 Stone Curb and Granite Curb - Bridge Type. The requirements of §609-3.02 shall apply with the following modifications:

- A.** Unless special construction details are called for in the contract documents, Type A and Type T₂ curbs, when not on structures, shall be set true to line and grade on a concrete bedding.
- B.** Types F₁, G₁, M, R₁, R₂, S and T₁ curbs shall be set in full mortar beds on structures. Excess mortar which extrudes around the curb shall be struck off flush with the front face of the curb and the top surface of the roadway.
- C.** Anchor bars for stone and granite bridge curb shall be installed where and as indicated in the contract documents.

All curb on structures shall be fitted together allowing 6 mm full mortared joints finished flush with exposed curb surfaces. Curb surfaces shall be cleaned of excess mortar to the satisfaction of the Engineer.

Mortar used for bedding and filling of joints shall conform to §705-21 Masonry Mortar or §701-04 Concrete Repair Material.

609-3.04 Cast-In-Place Concrete Curb and Curb & Gutter. Cast-in-place concrete curb and curb & gutter shall either be conventionally formed or machine formed to the size and shape shown on the standard sheets or as indicated in the contract documents.

Curb anchors, as required on the standard sheets or the contract documents, shall not be coated with materials which impair bonding. Curb anchors shall be installed a minimum of 300 mm from the ends of a pavement slab. Curb anchors for new concrete pavement, when placed simultaneously with pavement concrete, shall be placed by equipment which can demonstrate to the satisfaction of the Engineer placement of the anchors in accordance with these specifications. Curb anchors, when not placed simultaneously with pavement concrete, shall be placed rigidly secured by chairs or other supports to prevent displacement of the anchors when pavement concrete is placed. Curb anchors for existing concrete pavement shall be inserted into holes drilled in the side of the existing concrete pavement. The holes shall be thoroughly cleaned and filled with Concrete Grouting Material §701-05 or Anchoring Materials - Chemically Curing §701-07 immediately before placing the curb anchor. The curb anchor shall be securely supported in position until the grout has hardened.

Curing of the curb and curb & gutter shall comply with the requirements of §502-3.10 Curing, except that a clear membrane curing compound with fugitive dye conforming to the requirements of Membrane Curing Compound §711-05 may be used in lieu of the white pigmented membrane.

A. Conventionally Formed Curb and Curb & Gutter

1. Forms. Forms shall be free from warp and of such construction that there will be no interference to inspection for grade and alignment. All forms shall extend to the full curb depth and be secured so no displacement will occur during the placement of concrete.

2. Casting Segments. Curb and curb & gutter shall be cast in segments having a uniform length of approximately 3 m. The joints between segments shall not exceed 6 mm in width. When curb and curb & gutter is constructed next to concrete pavement, the curb and curb & gutter joints shall line up with the pavement joints or additional joints shall be

provided in the curb and curb & gutter which line up with the pavement joints.

3. Expansion Joints. Expansion joints shall be 18 mm wide and contain Premoulded Resilient Joint Filler §705-07. The filler shall be cut to conform to the cross section of the curb and curb & gutter.

Expansion joints shall be located at all immovable objects (bridge structures, etc.), adjacent to expansion joints in the pavement, and where shown in the contract documents or directed by the Engineer. Expansion joints will not be required at regular intervals unless otherwise shown in the contract documents.

4. Concrete Placing and Vibrating. Concrete shall be placed in the forms in accordance with the applicable requirements of §555-3.04 and shall be compacted with an immersion type mechanical vibrator. The vibrator shall be of a size and weight capable of thoroughly vibrating the concrete without damaging or misaligning the forms. The forms shall be left in place until the concrete has hardened sufficiently to permit removal without damage to the curb and curb & gutter. The front form may be removed before the other forms to facilitate finishing the curb and removal of the joint dividers. After removal of the forms, the exposed faces of the curb and curb & gutter shall be immediately rubbed to a uniform surface. No plastering will be permitted.

B. Machine Formed Concrete Curb and Curb & Gutter. The equipment proposed for use by the Contractor shall demonstrate, to the satisfaction of the Engineer, the capability of placing the concrete in accordance with these specifications.

When machine forming, the Contractor may provide additional width of curb without any other change in shape or dimension, if provided by the Contractor at no additional cost to the State. If the Contract Documents or the Engineer require no curb be placed across driveway entrances or the Contract Documents have no reference to placing curb across driveway entrances, the Contractor may continue placing curb across driveway entrances but the curb placed across driveway entrances, excluding transitions, must be cut out and the concrete disposed in a manner approved by the Engineer.

Any curb and curb & gutter placed outside the tolerance of 12 mm of the established line or 6 mm of the established grade shall be removed and replaced by the Contractor.

1. Crack Control Joints. Crack control joints shall be formed or saw cut to a width of 3 mm minimum, 6 mm maximum and to a depth of 38 mm. The cut or formed joints shall extend slightly below the surface of the adjacent pavement and shall be spaced at 3 m intervals. When the curb, and curb & gutter is constructed next to concrete pavement, the curb and curb & gutter joints shall line up with the pavement joints or additional joints shall be provided in the curb and curb & gutter which line up with the pavement joints. The saw cut or formed joints shall be left unfilled.

2. Expansion Joints. Expansion joints shall be 18 mm wide and contain Premoulded Resilient Joint Filler §705-07. The filler shall be cut to conform to the cross section of the curb and curb & gutter.

The expansion joints shall be located at all immovable objects (bridge structures, etc.), adjacent to expansion joints in the pavement, where shown in the contract documents, or directed by the Engineer. Expansion joints shall not be required at regular

intervals unless otherwise shown in the contract documents.

609-3.05 VACANT

609-3.06 Optional Curb. Under optional curb, the Contractor shall have the option of placing precast concrete curb, or cast-in-place concrete curb, or granite curb. Precast concrete curb or granite curb shall be placed in accordance with the requirements of §609-3.02. Cast-in-place curb shall be placed in accordance with the requirements of §609-3.04. No intermixing of curb will be allowed without the Engineer's written permission.

609-3.07 Hot Mix Asphalt Curb. Hot mix asphalt curb shall conform to the construction requirements of §401-3, except as follows:

A. Preparation of Mixture. The hot mix asphalt for curb shall be mixed in a batch type bituminous concrete mixing plant. The additive as specified in Section 714-06 shall be introduced into the pugmill within an accuracy of $\pm 0.1\%$ of the total batch weight. The additive may be introduced through a mineral filler feed system only if the above delivery tolerance can be maintained. The dry mixing time shall be a minimum of 15 seconds after the complete introduction of aggregates and additive into the pugmill. The wet mix time shall be a minimum of 45 seconds.

B. Preparation of Surface. When hot mix asphalt curb is constructed on a freshly laid hot mix asphalt surface, the curb shall be laid only on a clean dry surface. When curb is to be laid on a cured or aged concrete base, hot mix asphalt pavement, or performance grade binder treated base, the surface shall be thoroughly swept and cleaned by compressed air. The surface shall be thoroughly dried and, immediately prior to placing of the hot mix asphalt mixture, shall receive a tack coat of asphalt emulsion, Material Designation 702-3001 as specified in Table 702-5. The tack coat shall be applied at a rate of 0.15 to 0.50 L/m². The tack coat shall be prevented from spreading to areas outside of the area to be occupied by the curb.

C. Placing. Hot mix asphalt curb shall be constructed by machine to the size and shape shown on the standard sheets.

The machine shall be capable of placing the hot mix asphalt in accordance with these specifications to the satisfaction of the Engineer. Prior to placement, the Contractor shall demonstrate to the satisfaction of the Engineer the machine meets the following requirements:

1. The machine shall be self propelled and capable of forming curb which is uniform in texture, shape, and density.
2. The weight and the material extrusion rate of the machine shall be such that the required compaction is obtained without the machine riding above the bed on which curbing is constructed.

When short sections of hot mix asphalt curb or sections with short radii are required, the Engineer may permit construction by other means, as long as the resulting curb conforms to the curb produced by machine.

D. Painted Hot Mix Asphalt Curb. When painted hot mix asphalt curb is specified, it shall be painted yellow or white in accordance with the Manual of Uniform Traffic Control Devices.

§609-3

The paint shall be placed in accordance with the following:

- a. After a curing period of not less than 72 hours, exposed surfaces of the curbing shall be sprayed or hand brushed with two coats of pavement marking paint, yellow or white as required. Each coat of paint shall be applied at the rate of 1 L per 16 m of curb.
- b. The curb shall be clean and free of all foreign matter before painting. Paint shall be applied only when the air temperature is above 10°C and rising. Paint shall not be applied when there is reasonable expectation of rain. In the event the first or final coat of paint is rain damaged, as determined by the Engineer, the Contractor shall clean and repaint the curb at no additional cost to the State.

609-3.08 Resetting Curb. Care shall be taken in removing the curb to be reset so that there will be no unnecessary breakage. All curb damaged in removing, hauling, storing, or resetting shall be replaced by the Contractor.

The curb shall be reset, in accordance with the requirements of §609-3.02 or §609-3.03 for resetting bridge type curbs, to the lines and grades specified in the contract documents.

609-4 METHOD OF MEASUREMENT. All curb and curb & gutter placed and curb reset under these specifications will be measured by the number of linear meters, rounded to the nearest tenth of a meter. The measurement will be taken along the top front arris line of full height, transition and terminal sections. The measurement will be taken along the top front arris line of curb reveals across driveway entrances only when placed and not removed.

609-5 BASIS OF PAYMENT

609-5.01 Concrete Curb, Curb & Gutter, Stone Curb, Granite Curb, Optional Curb. The unit price bid per meter shall include the cost of all labor, materials, curb anchors, equipment, and excavation to, in accordance with these specifications, place, backfill, grout and caulk the curb, curb & gutter. When select backfill is specified, the select backfill shall be paid under its respective items. No additional payment will be made to the Contractor when more than the minimum width of curb is placed. No additional payment will be made to the Contractor when curb is placed across driveway entrance, to facilitate concrete machine forming operations, and removed.

609-5.02 Stone Curb and Granite Curb - Bridge Type. The unit price bid per meter shall include the cost of furnishing all labor, equipment, and materials including concrete bedding, mortar for stone and granite curbs, chemically curing anchoring materials, and stone and granite curb anchors required to bed and place stone and granite bridge curb, in accordance with these specifications.

609-5.03 Hot Mix Asphalt Curb. The unit price bid per meter shall include the cost of furnishing all labor, materials, and equipment to prepare the surface for curb placement, and place the curb. If painted hot mix asphalt curb is specified, the Contractor shall also include the cost of preparing the curb for painting, furnishing the paint, and applying the paint.

609-5.04 Progress Payments. Progress payments will be made after the curb and curb & gutter has been constructed and placed, in accordance with these specifications. Payment will be made for 90% of the unit bid price multiplied by the bid quantity when the curb and curb & gutter is constructed and placed,

in accordance with these specifications, exclusive of painting. The balance will be paid upon final acceptance of the work.

609-5.05 Resetting Curb. The unit price bid per meter shall include the cost of furnishing all labor, equipment, and materials to remove, haul, store and reset curb, in accordance with these specifications. In addition, the unit price shall also include any re-dressing of tops and joints of bridge type curb, as directed by the Engineer, and replacement of curb damaged by the Contractor's operations.

Payment will be made under:

Item No.	Item	Pay Unit
609.01XX M	Stone Curb* (Various Types as indicated)	Meter
609.02XX M	Granite Curb* (Various Types as indicated)	Meter
609.03XX M	Granite Bridge Curb* (Various Types as indicated)	Meter
609.035X M	Stone Bridge Curb* (Various Types as indicated)	Meter
609.04XX M	Cast-in-Place Concrete Curb* (Various Types as indicated)	Meter
609.05XX M	Cast-in-Place Concrete Curb & Gutter* (Various Types as indicated)	Meter
609.08XX M	Precast Concrete Curb* (Various Types as indicated)	Meter
609.0901 M	Optional Curb (Precast Concrete Type PVF150 or Cast-In-Place Concrete Type VF150 or Granite Type C)	Meter
609.0902 M	Optional Curb (Precast Concrete Type PM100 or Cast-In-Place Concrete Type M100 or Granite Type E100)	Meter
609.0903 M	Optional Curb (Precast Concrete Type PT100 or Cast-In-Place Concrete Type T100)	Meter
609.15 M	Resetting Existing Curb	Meter
609.21XX M	Painted Hot Mix Asphalt Curb* (Various Types as indicated)	Meter
609.22XX M	Unpainted Hot Mix Asphalt Curb* (Various Types as indicated)	Meter

* Refer to Standard Pay Item Catalog for full Item Number and Description."

Make the following *changes* to the ADDENDUM NO. 2 to the Standard Specifications of January 2, 1995:

Page VI-12, line 33 to Page VI-13, line 4 inclusive, *delete* in its entirety.