

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. Contract Number DCKA-2007-B-0033	Page of Pages 1 | 72
2. Amendment/Modification Number 3	3. Effective Date 7/19/2007	4. Requisition/Purchase Request No. N/A	5. Solicitation Caption FY-07 First Citywide Sidewalk	
6. Issued By: DDOT Code		Office of Contracting and Procurement 2000 14th Street, NW, 6th Floor Washington, DC 20009		
		Procurement Support Branch 2000 14th Street, NW, 3rd Floor Washington, DC 20009		
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)			(X)	9A. Amendment of Solicitation No. DCKA-2007-B-0033
				9B. Dated (See Item 11) 6/21/2007
				10A. Modification of Contract/Order No.
				10B. Dated (See Item 13)
Code		Facility		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. Accounting and Appropriation Data (If Required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14				
A. This change order is issued pursuant to: (Specify Authority) The changes set forth in Item 14 are made in the contract/order no. in item 10A.				
B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.				
C. This supplemental agreement is entered into pursuant to authority of:				
D. Other (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.				
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.)				
DELETE Pay Item Schedule Pages 1 through 70 and replace with REVISED Pay Item Schedule 1R through 70R attached with this Amendment				
Delete S.P. F.2.1 under Section F - Deliveries or Performance in its entirety and replace with new S.P. F.2.1 attached with this addendum.				
Section F - Deliveries or Performance - S.P. F.4 under Deliverables: Quantity should read (50) every 30 days with monthly invoices.				
NO ADDITIONAL QUESTIONS WILL BE ANSWERED.				
Except as provided herein, all terms and conditions of the document referenced in Item (9A or 10A) remain unchanged and in full force and effect				
15A. Name and Title of Signer (Type or print)			16A. Name of Contracting Officer Jerry M. Carter	
15B. Name of Contractor	15C. Date Signed	16B. District of Columbia		16C. Date Signed 7/17/2007
(Signature of person authorized to sign)		(Signature of Contracting Officer)		

Amendment no. 3

SECTION F – DELIVERIES OR PERFORMANCE

OPTION TO EXTEND THE TERM OF THE CONTRACT

F.2.1

This contract has a term of One (1) year with four option year periods. Ninety (90) days prior to the end of the base year, contractors are notified of the government's intent to exercise its option for the first option period. It is during this ninety-day period that sureties are contacted by the contractor seeking to renew their bond for the option year. Sureties have the opportunity to review the contractor's record over the past year and make a determination concerning renewing the bond for this period.

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The “STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, 1996” and the “Standard Contract Provisions for Use with Specifications for District of Columbia Government Construction Projects” 1973 and amendments thereto are incorporated herein by reference and are made a part of the requirements of this contract.

SPECIAL PROVISIONS

This document contains provisions, requirements, and instructions pertaining to this contract:

REHABILITATION OF NEW HAMPSHIRE AVENUE BRIDGE OVER CSX RAILROAD AND METRO TRACKS, N.E.

INVITATION NO. _____

F.A.P. NO.: STP 1121(6)

This document consists of:

- **SPECIFICATIONS:** Pages a, b, c, and d, pages 1 thru 111, and appendices (with number of pages in parentheses) listed on page d.
- **BID FORM AND PROPOSALS:** Pages a, b, c and d, pages 1 thru 22, including **PAY ITEM SCHEDULE**.
- **CONTRACT PLANS:** Consisting of 89 sheets.

Bidders should satisfy themselves that they have a complete document. Missing pages will not constitute the basis for a valid claim.

This is a Federal-Aid Contract; Article 105, **FEDERAL PARTICIPATION (FEDERAL-AID PROJECTS)**, applies.

This document supplements and modifies **STANDARD CONTRACT PROVISIONS**, 1973, and amendments thereto, **CONTRACT PLANS; STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, 1996**, incorporated herein.

ADDENDA, issued prior to bid opening date, further supplement and modify the proposed contract.

Reference to Division Numbers, Section Numbers and Article Numbers refers to the **STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES, 1996**.

In **PAY ITEM SCHEDULE**, the first three-digit portion of each pay item number refers to the section of the **STANDARD SPECIFICATIONS** in which the item is described. The Special Provision. number refers to the section of these **SPECIAL PROVISIONS** in which the item is further described.

Reference made to DC Department of Public Works (DCDPW) in the drawings and in this document is one and the same as the District of Columbia Department of Transportation (DDOT).

1. SCOPE:

Work under this contract consists of the rehabilitation of the New Hampshire Avenue Bridge over the CSX Railroad and Metro Tracks, N.E., in the District of Columbia. The work includes, but is not limited to, the following:

- a. Implementation and monitoring of vehicular traffic and its maintenance for the construction period including temporary lane closures, lane reversals and associated signal and signing.
- b. Maintenance of pedestrian traffic during construction.
- c. Clearing and grubbing, as directed by the Engineer, within the limits as shown on the contract plans.
- d. Implementation of sediment and erosion control measures.
- e. Design, obtaining approval, installation and removal of protection shield.
- f. Maintenance of Railroad traffic during construction and erection / removal of bridge girders including all down time and coordination with the Railroad and Metro.
- g. Removal and disposal of the bridge deck, structural steel, railings and fence; complete and or partial removal of abutments and wing walls, including backwall, seats/bearings; approach slabs, parapets on top of wing walls and sidewalk slabs.
- h. Design and installation and or removal of temporary supports for excavation and maintenance during traffic.
- i. Installation of pile foundation for new abutments.
- j. Construction of abutment seats/bearings, and new walls, bridge decks, and approach slabs.
- k. Constructing pipe underdrains for the existing concrete abutment wall.
- l. New structural steel fabrication and erection of bridge girders and framing.
- m. Painting of metal work and protective coating of concrete work as per plans.
- n. Removal and disposal of selected areas of the existing roadway to the extent and depth as shown in the contract plans.
- o. Reconstruction of roadway mainline and side streets including pavement overlay as shown in the contract plans.

- p. Construction of storm drainage system. This includes the replacement of eight (8) curb inlets.
- q. Removal and replacement of utilities as per contract plans.
- r. Installing permanent supports for utilities on the bridge.
- s. Maintenance and protection of existing utilities during and after construction.
- t. Installation of new pavement markings and static roadway signs.
- u. Removal and replacement of light poles and lighting standards and required conduits and cables as shown or required in the contract documents.
- v. Installation of communication cables as shown in contract plans.
- w. Mobilization and demobilization, provision and maintenance of work and storage areas, Engineer's Field Facilities and performance of Employee Training.
- x. Remove part of existing north abutment footing and stabilizing the abutment wall by additional measures.

Work also includes all other work and various incidentals required as shown in the contract plans and/or as specified in the Specifications and Special Provisions.

The Contractor should obtain all necessary permits and approval to access railroad property and coordinate work around railroad and account for railroad down time. The Contractor will also protect railroad property against damage due to construction activity. It will be the Contractor's responsibility to obtain permits to remove and install new utilities over the railroad.

The Contractor shall obtain necessary permits related to the removal and disposal of lead and asbestos materials in the project.

The Contractor is also required to produce design calculations as well as shop drawings in connection with his chosen systems for temporary support structures or devices, protection shields, and other significant temporary work affecting the traveling public or project workers. This work shall also include all efforts for approvals for the permanent system relating to the north abutment wall.

The Contractor shall be fully responsible for protection against damage for the duration of the contract of all the utility structures within the contract limits and adjacent thereto. The utilities include but are not limited to public and/or private water, sewer, electricity, gas, and communications lines. No separate measurement or payment will be made. Cost of this protective work shall be reflected and distributed among the contract pay items.

2. PRE-BID CONFERENCE:

Prospective bidders are invited to attend a meeting to discuss the proposed work under this contract. The meeting will be held on _____ at 10:00 a.m. in the Conference Room, 3rd Floor at 2000 14th Street, N.W., Washington, D.C.

Representatives of the Department will be available to answer questions relative to the work. Bidders who expect to attend should inform the Department before the meeting date. Any pertinent data or change resulting from the conference will be included in any Addendum issued to all prospective bidders after the conference; however, the importance of attending the meeting is stressed. Any questions or conflicts identified before bid should be brought out during this meeting.

3. BID GUARANTY:

This Special Provision supplements Article 12, Bond requirements, Part A, of the **INSTRUCTIONS TO BIDDERS, STANDARD CONTRACT PROVISIONS, 1973.**

The Bid Guaranty period shall be ninety (90) **calendar days** after opening of the bids.

4. CONTRACTOR IDENTIFICATION:

All contractors doing business with the District of Columbia Government shall have a DUNS (Data Universal Numbering System) or RUBS (Reserve User Block System) numbers. The following information shall be part of the bid proposal:

- a. Incorporated or Unincorporated Business: DUNS number and tax number.
- b. Individuals: Social Security Number, RUBS number, which will be established by the Vendor Information Unit of the D.C. Controller's Office.

A DUNS number can be obtained at no cost to the Contractor via telephone from the local or national Dun and Bradstreet Corporation. The requirements are that the Contractor must give its legal or proper business name, business or remittance address and Standard Industry Classification (S.I.C.). No additional information is required, and Dun and Bradstreet will forward the number, by mail, within three (3) days.

Please refer any questions regarding this matter to Office of the Controller (202) 671-2201 of the D.C. Department of Public Works.

A DUNS or RUBS number is required on the Bid Forms (page 'd').

5. EMPLOYEE TRAINING, Item 000 003:

This Special Provision corrects 105.05, page 1-31, of the SUPPLEMENTAL SPECIFICATIONS.

In the first paragraph delete the first sentence beginning “Except as otherwise . . . “ and replace with the following:

“The Contractor shall bid a unit price per hour of training and will be reimbursed in the amount bid in the unit price column of the Pay Item Schedule in the Bid Form and Proposals.”

6. WORK AND STORAGE SPACE:

This Special Provision supplements 103.01 Article 17B of the Standard Specifications.

A. GENERAL

The Contractor may use suitable areas within the project construction limits and project right-of-way lines. A potential location for the Contractor’s storage area is approximately 60 feet left of Sta. 10 + 70, New Hampshire Avenue, N.E. The Contractor shall arrange for additional storage space, if necessary. At no time shall National Park Service Property be used. If the Contractor desires to use the potential storage area, the requirements of the contract plans and this Special Provision shall apply. The use of this area by the Contractor is not mandatory. The Contractor may arrange for an additional or a different storage area at no additional expense to the District. The Contractor's inability to secure an additional or a different area will not serve as a basis for claim or delay.

In order to protect the ground and vegetation in the surrounding area, work area limits have been established under the contract. The limits of disturbance shown in the respective plans shall be assumed to be the work area limits. Any disturbance to areas beyond these limits is not permitted, and any such encroachment will be at the risk and cost of the Contractor.

A 6-foot high construction chain link fence and gates shall enclose the facility. Upon completion of the project, the area shall be restored to a condition comparable with the surrounding area to the satisfaction of the Engineer.

The Contractor shall arrange for employee parking and storage space, if necessary, at his own responsibility and at no additional expense to the District.

B. SUITABLE AREAS

The suitability of land shown in the plans for any intended use is unknown and no claims to its merits are expressed or implied by the District of Columbia Department of Public Works (DCDPW).

1. Areas not designated for other use at the time the Contractor desires to utilize the area.
2. Areas that, when used by the Contractor, will not diminish the safety of the traveling public using the allowed maintenance of traffic scheme.

3. Areas that preclude environmental damage to the said land or neighboring lands, due to high waterway flooding or other natural occurrences.
4. Areas that do not restrict the Engineer from access allowing proper inspection of the construction project.

The Contractor may utilize areas not within the project limits. No specific payment by the District will be made for this option.

C. REVIEW PROCEDURE

1. The Contractor shall submit to the Engineer working drawings showing the areas within the project that the Contractor desires to use for project work and project storage.
2. The working drawings shall indicate the duration of area use (relative to other project operations) and the methods for maintaining security around the area. Additionally, the utility access (as necessary) shall be shown.
3. Subsequent to the Engineer's final review, the Contractor may utilize the area, as configured in the reviewed working drawings. The Engineer's review in no way attests to the suitability of the Contractor's scheme to utilize areas within the project limits to the Contractor's benefit. In the event the Contractor's use of areas within the project limits is deemed unsuitable (whether or not final review has been obtained) by the District, the Contractor shall promptly desist from using the work and storage area, and shall immediately remediate the area to the satisfaction of the Engineer.

D. MAINTENANCE OF STORAGE AREA DURING OPERATIONS

The Contractor shall maintain the storage area in a workmanlike and tidy manner. Materials shall not be allowed to become airborne and deposited outside of the limits of the storage area. Materials that are deemed hazardous (combustible, petroleum based, polluting, or otherwise detrimental) shall be stored in such a manner that renders them safe from the acts of vandals. Under no condition will materials deemed hazardous be stored over night in open containers.

E. REMEDIATION OF AFFECTED AREAS

At the conclusion of use by the Contractor, the work and storage area shall be quickly remediated to its original condition or final condition as indicated in the bid documents. There shall be no cost to the District for the required remediation to original condition and no additional cost to the District for efforts or work in excess of the work indicated in bid documents necessary to establish proper final conditions.

F. MEASURE AND PAYMENT

No measure will be made for the materials, work and effort made by the Contractor to establish a work and storage area. No specific payment will be made for the Contractor's material, work, and effort; the Contractor may collect work and storage costs within the District's payment for pay items utilizing the work and storage area in an indirect manner. The clearing of land, regrading, fencing, disposal of residual materials, seeding, top soil, trees and planting, and associated incidental work will be compensated with other contract pay items. No direct payment will be made for the storage area.

7. CONTRACTOR WORK NEAR CSXT FACILITIES:

A. AUTHORITY OF SPECIAL PROVISIONS

These Special Provisions are supplemental and amendatory to DC Department of Public Works Standard Specifications for Road Construction, current edition, and amendments thereof, and where in conflict therewith these provisions shall govern.

As used in these Special Provisions, the terms "Railroad" and "Railroad Company" will represent CSX Transportation, Inc.

B. AUTHORITY OF RAILROAD ENGINEER AND HIGHWAY ENGINEER

1. The authorized representative of the Railroad Company, hereinafter referred to as Railroad Engineer, shall have final authority in all matters affecting the safe maintenance of Railroad traffic and the Contractor shall obtain his approval for methods of construction with least interference to traffic.
2. The authorized representative of the DC Department of Public Works, hereinafter referred to as the Engineer, shall have authority over all other matters as prescribed herein and in the agencies' Standard Specifications, current, edition, that govern this project.

C. INTERFERENCE WITH RAILROAD OPERATIONS

1. The Contractor shall so arrange and conduct his work so that there will be no interference with railroad operations, including train, signal, telephone and telegraphic services, or damage to the property of the Railroad Company, or to poles, wires, and other facilities of tenants on the right-of-way of the Railroad Company. The Contractor shall store materials so as to prevent trespassers from causing damage to trains, or railroad property. Whenever work is likely to affect the operations or safety of trains, the method of doing such work shall first be submitted to the Railroad Engineer for approval but such approval shall not relieve the Contractor from liability.
2. Should conditions arising from or in connection with the work require that immediate and unusual provisions be made to protect train operation and property of the Railroad

Company, it shall be part of the required service by the Contractor to make such provision and if, in the judgment of the Railroad Engineer, or of the Engineer in charge in the absence of the Railroad Engineer, such provision is insufficient, the Railroad Engineer may, at the expense of the Contractor, require or provide such provision as may be deemed necessary.

D. NOTICE OF STARTING WORK

1. The Contractor shall not commence any work on railroad rights-of-way until he has complied with the following conditions:
 - a. Given the Railroad by written notice, referring to the agreement by date, with copy to the DC Department of Public Works at the addresses shown below and to the Engineer who has been designated to be in charge of the work, at least ten days in advance of the date he proposes to begin work on railroad rights-of-way. If flagging service is required, it may take up to 30 days to obtain from the Railroad.
 - b. Obtain written authorization from the Railroad Engineer to begin work on Railroad rights-of-way, such authorization to include an outline of specific conditions with which he must comply.
 - c. Obtain written approval from the Director – Public Projects and Contracts of Railroad Protective and general liability insurance coverage as required herein.
2. The Railroad shall furnish the names, addresses and telephone numbers of the Railroad's representatives who are to be notified as hereinafter required. Where more than one representative is designated, the area of responsibility of each representative shall be specified.

E. WORK FOR THE BENEFIT OF THE CONTRACTOR

1. No temporary or permanent changes by Railroad forces to wire lines or other facilities that are considered necessary to the project are anticipated or shown on the plans. If any said changes are, or become, necessary in the opinion of the Railroad or the DC Department of Public Works, said changes will be covered by appropriate revisions to the drawing and by preparation of a force account estimate which may be initiated by either the Railroad or the DC Department of Public Works and must be approved by both the Railroad and the DC Department of Public Works.
2. Should the Contractor desire any changes in addition to the above, he shall make separate arrangements with the Railroad for such changes to be accomplished at the Contractor's expense.

F. HAUL ACROSS RAILROAD

1. Temporary construction crossing at the railroad will not be permitted at this time.
2. If the Contractor desires access across the Railroad right-of-way and tracks at other than an existing and open public road crossing in or incident to construction of the project, the Railroad will permit such Contractor access across said right-of-way and tracks provided Contractor first executes a license agreement satisfactory to the Railroad, wherein Contractor agrees to bear all costs related to said access.
3. Contractor shall at no time cross the Railroad's right-of-way and tracks with vehicles or equipment of any kind or character, except at such crossing or crossings as may be established pursuant to this subsection.

G. COOPERATION AND DELAYS

1. It shall be the Contractor's responsibility to arrange to schedule with the Railroad for accomplishing stage construction involving work by the Railroad or tenants of the Railroad. In arranging his schedule he shall ascertain, from the Railroad, the lead time required for assembling crews and materials and shall make due allowance thereof.
2. No charge or claims of the Contractor against either the DC Department of Public Works or the Railroad Company will be allowed for hindrance or delay on account of railroad traffic, any work done by the Railroad Company or other delay incident to or necessary for safe maintenance of railroad traffic or for any delays due to compliance with these Special Provisions.
3. The Contractor shall cooperate with others participating in the construction of the project to the end that all work may be carried on to the best advantage.
4. The Contractor's attention is called to the fact that neither the DC Department of Public Works nor the Railroad Company assumes any responsibility for any work performed by others in connection with the construction of the project, and the Contractor shall have no claim whatsoever against the DC Department of Public Works or the Railroad Company for any inconvenience, delay or additional cost incurred by him on account of such operations by others.

H. DAMAGES

The Contractor shall assume all liability for any and all damages to his work, employees, servants, equipment and materials caused by Railroad traffic.

I. STORAGE OF MATERIALS AND EQUIPMENT

Materials and equipment shall not be stored where they will interfere with railroad operations, nor on the right-of-way of the Railroad Company without first having obtained permission from the Railroad Engineer, and such permission will be with the understanding that the Railroad Company will not be liable for damage to such materials and equipment from any cause and that the Railroad Engineer may move, or require the Contractor to move, at the Contractor's expense, such material and equipment.

In order to minimize the possibility of damage to the railroad tracks resulting from the unauthorized use of equipment, all grading or other construction equipment that is left parked near the tracks unattended by watchmen shall be immobilized to the extent feasible so that it cannot be moved by unauthorized persons.

J. CONSTRUCTION PROCEDURES

1. General

Construction work on Railroad property shall be

- a. Subject to the inspection and approval of the Railroad.
- b. In accordance with the Railroad's outline of specific conditions.
- c. In accordance with these Special Provisions.

2. Blasting

Blasting will not be permitted on the Railroad right of way.

3. The Railroad representative will

- a. Determine the approximate location of trains and advise the Contractor the approximate amount of time available for the blasting operation and clean-up.
- b. Have the authority to order discontinuance of blasting if, in his opinion, blasting is too hazardous or not in accord with these Special Provisions.

4. Maintenance of Ditches Adjacent to Railroad Tracks

- a. The Contractor will be required to maintain all ditches and drainage structures free of silt or other obstructions that may result from his operations. The Contractor will provide erosion control measures during construction. The methods used shall be in accordance with D.C. standard specifications for road and bridge construction. The methods that can be used are: silt fence; hay or straw barrier; berm or temporary ditches; sediment basin; aggregate checks; and channel lining.

- b. All such maintenance and repair of damages due to the Contractor's operations shall be done at the Contractor's expense.

5. Flagging / Inspection Service

- a. Under the terms of the agreement between the DC Department of Public Works and the Railroad, the Railroad has sole authority to determine the need for flagging required to protect its operations. In general, the requirements of such services will be, whenever the Contractor's men or equipment are, or are liable to be, working within specified track clearance, or over tracks.
- b. The DC Department of Public Works will reimburse the Railroad directly for all costs of flagging which is required on account of construction within Railroad right-of-way which is shown in the plans, or which is covered by an approved plan revision, supplemental agreement or change order. If the DC Department of Public Works requires its Contractor to be responsible for reimbursing the Railroad for flagging service, the said Contractor will be required to make advance deposit to the Railroad.
- c. The Contractor will be required to reimburse the Railroad under a separate arrangement between the Contractor and the Railroad for any flagging required on account of WORK FOR THE BENEFIT OF THE CONTRACTOR. If in the judgment of the Engineer, any flagging service is required on account of WORK FOR THE BENEFIT OF THE CONTRACTOR, the Engineer shall immediately notify the Contractor and the Railroad representative of such finding. If the Contractor disagrees with the Engineer's finding, the Contractor shall have the same right of appeal as is prescribed in the contract for other items of work. If the Engineer finds that flagging is required for project construction, the Engineer shall so enter it into the project records as an item to be borne by the DC Department of Public Works.
- d. The Contractor shall give a minimum of 72 hours' advance notice to the Railroad Engineer for flagging service. No work shall be undertaken until the flagman, or flagmen, are at the job site. The estimated number and classification of men are shown in the Railroad estimate. If it is necessary for the Railroad to advertise a flagging job for bid, it may initially take up to 30 days to obtain this service.
- e. The Railroad shall have the right to assign a man to the site of the project to perform inspection service whenever in the opinion of the railroad Engineer such inspection may be necessary. The costs incurred by the Railroad Company for such inspection service will be reimbursed by the DC Department of Public Works. Inspection service shall not relieve the Contractor from liability.
- f. If the Railroad Company for any reason finds it necessary to furnish an inspector or flagman of a different classification from that shown in the Railroad estimate, bills

will be rendered and shall be paid on the basis of the rate of pay for the man used plus standard additives whether that is above or below the rate given. If the rate of pay of any employee that is to be used for inspector or flagging service is changed before the work is started or during the progress of the work, whether by law or agreement between the Railroad Company and its employees, or if the tax rates on labor are changed, bills will be rendered by the Railroad Company and paid by the DC Department of Public Works on the new rates. The Contractor's attention is also called to the fact that he will be required to carry on his operations which require flagging protection or inspection service in such a manner and sequence that the cost of such will be as economical as possible.

6. Utility Facilities on Railroad Right-of-Way

The DC Department of Public Works will, without expense to the Contractor, arrange to have any utility facilities on or over the Railroad right-of-way changed as may be necessary to provide clearances for the proposed trackage, but the Contractor will not be reimbursed for any changes in such facilities made for his benefit and convenience.

7. Cleaning Up

The Contractor will be required, upon completion of the work, to remove from within the limits of the Railroad's right-of-way any temporary grade crossings, any temporary erosion control measures used to control drainage, all machinery, equipment, surplus materials, false work, rubbish or temporary buildings of said Contractor, and leave the right-of-way in neat condition, satisfactory to the Railroad Engineer.

8. Submissions and CSXT review

The Contractor shall submit the following construction procedures to CSXT:

- a. Demolition plans – Submit detailed plans for the procedure to be used for the demolition of the existing steel beams of the bridge. the procedure shall indicate the location and capacity of the proposed cranes and estimated lifting loads. All cranes and hardware used in picks is to account for a Factor of Safety of 150%. A Registered Professional Engineer in the District of Columbia must seal all Demolition plans and procedures. The demolition plan should provide a detail of how the ballast will be protected during deck demolition. The track protection detail shall use filter fabric and indicate the proposed anchor system to the ties and ballast. The ballast protection is to extend 25 feet beyond the existing overhead bridge structure.
- b. Sheeting and Shoring plans – If required, the Contractor shall submit three (3) sets of detailed drawings and one (1) set of calculations in accordance with CSXT's Criteria for Overhead Bridges dated October 1, 1999 (included in the Appendix). The drawings and calculations shall be prepared by a Registered Professional Engineer experienced in the design of shoring and cofferdams and shall bear his seal and signature.
- c. Erection plans – The Contractor shall submit detailed plans for the procedure used during erection of the proposed girders. The procedure shall indicate the location and capacity of the proposed cranes and estimated lifting loads.
- d. Erosion Control plans – Plans shall indicate the proposed methods of erosion control during construction, particularly excavation for the south abutment and grading, and must specially address means to prevent silt accumulation in railroad ditches and to prevent fouling the track ballast at all times during and following construction.
- e. Construction Schedule – The Contractor shall prepare a detailed construction schedule for the duration of the project clearly indicating the time periods while working on and around CSXT right of way.

The above noted construction submissions shall be made to the CSXT designate construction representative. A minimum of thirty (30) days will be required to review all construction submissions. An additional thirty (30) days will be required to review any subsequent submissions returned not approved.

Construction submissions shall be in accordance with CSXT's Criteria for Overhead Bridges dated October 1, 1999.

K. INSURANCE

1. In addition to any other forms of insurance of bonds required under the terms of the contract and specifications, the Contractor will be required to carry insurance of the following kinds:

a. Contractor’s Public Liability and Property Damage Liability Insurance

The Contractor shall furnish to the DC Department of Public Works, for transmittal to the Railroad Company, certificates of insurance in triplicate as evidence that with respect to the operations he performs he carries Contractor’s Public Liability Insurance and regular Contractor’s Property Damage Liability Insurance, both providing for limits of not less than \$2,000,000.00

b. Contractor’s Protective Public Liability and Property Damage Liability Insurance

The Contractor shall furnish to the DC Department of Public Works, for transmittal to the Railroad Company, certificate of insurance in triplicate as evidence that with respect to the operations performed for him by any subcontractor, he carries in his own behalf regular Contractor’s Public Liability Insurance and regular Contractor’s Property Damage Liability, both providing for limits of not less than \$2,000,000.00.

c. Railroad Protective Liability Insurance

The Contractor shall furnish to the DC Department of Public Works, for transmittal to the Railroad Company, **original and two (2) copies** of Railroad Protective Insurance Policy with limits of liability as follows:

COVERAGE	MINIMUM COMBINED LIMITS OF LIABILITY
Bodily Injury Liability	\$ 5,000,000.00 per occurrence
Property Damage Liability/ Physical Damage to Property	\$10,000,000.00 aggregate

2. The Standard for this protective insurance is the ISO/RIMA Form (ISO Form CG 0035) with the Pollution Exclusion Amendment (ISO Form CG 2831).
3. As respects 1.a. and 1.b. above, if any part of the work is sublet, similar insurance and evidence thereof in the same amounts as required of the prime Contractor shall be provided by or in behalf of the subcontractor to cover his operations.

4. All insurance hereinbefore specified shall be carried until all work required to be performed under the terms of the contract have been satisfactorily completed within the limits of the rights-of-way of the DC Department of Public Works. Insuring Companies may cancel insurance by permission of the DC Department of Public Works and Railroad or on thirty (3) days' written notice to the DC Department of Public Works and Railroad as follows:

NOTICE TO: Casualty Insurance/Risk Management
 CSX Transportation, Inc.
 Bell South Tower, 28th Floor
 301 West Bay Street
 Jacksonville, FL 32202

L. FAILURE TO COMPLY

In the event the Contractor violates or fails to comply with any of the requirements of these Special Provisions:

1. The Railroad may require that the Contractor vacate Railroad Property.
2. The DC Department of Public Works may be required to withhold monies due to the Contractor.

Any such orders shall remain in effect until the Contractor has remedied the situation to the satisfaction of the Railroad and the DC Department of Public Works.

M. CORRESPONDENCE

All construction related correspondence shall initially be directed to the District Office in Richmond. Upon receipt of notification, CSXT will direct the Contractor who the official local construction contact will be for the project.

Mr. Michael E. Mascari
District Engineer
CSX Transportation
1610 Forest Avenue, Suite 120
Richmond, VA 23229

N. MEASURE AND PAYMENT

No direct measurement or payment will be made for the work necessary to comply with the requirements of this Special Provision. The work necessary to comply with the requirements of this Special Provision shall be deemed incidental to related pay items in the contract.

8. CONTRACTOR WORK NEAR WMATA FACILITIES:

A. GENERAL

The Contractor is alerted that the construction work is also to be performed in the vicinity of Washington Metropolitan Area Transit Authority (WMATA) facilities. The Contractor shall make special efforts because the construction work may affect WMATA facilities. Such efforts are as indicated in this Special Provision, or as indicated by the Engineer.

It should be noted that the WMATA Metrorail tracks are in between the CSXT tracks. However, the right-of-way including CSXT is owned by WMATA. CSXT and WMATA requirements shall govern in this project; however, CSXT requirements might govern in most cases.

B. WMATA AREAS OF CONCERN ON THE PROJECT

1. The railroad ballast shall be protected against falling debris from construction.
2. The rails and ballast shall be protected from damage during removal/ erection of girders.
3. The rail clearances shall be maintained unless unavoidable in which case reduced clearances will be reviewed and a decision will be made by WMATA.
4. The use of cranes in the removal and erection of steel girders will be controlled by WMATA criteria.

C. SUBMISSIONS TO WMATA

The Contractor shall submit all items described under Article 6; section J.8 as amended for 'WMATA' in place of 'CSXT', for review and approval before commencement of work near or around its facilities.

Submissions to WMATA must include detailed sequence of removal/ demolition and erection/ construction procedures.

D. SPECIAL REQUIREMENTS

1. "METRO-WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY - ADJACENT CONSTRUCTION DESIGN MANUAL, REVISION I". All work within the limits of the WMATA shall conform to the relevant articles of this manual as a minimum.
2. No work can take place within the fenced Metrorail right-of-way during revenue hours. The revenue hours are as follows:

Monday thru Thursday – from 5:30 a.m. to 12:30 a.m.

Friday – from 5:30 am to 2:30 am

Saturday– from 8:00 a.m. to 2:30 am

Sunday – from 8:00 am to 12: 30 am

Revenue hours on any special days will be similar to a Monday.

3. The Contractor shall obtain a right of entry permit, from WMATA to access or to work around the METRO facilities. The right of entry (real estate) permits for entering WMATA property requires a minimum thirty (30) day advance notice to WMATA.
4. The Contractor will be required to have key employees who will be working in the areas adjacent to WMATA facilities attend a WMATA RIGHT-OF-WAY SAFETY TRAINING. The Contractor shall contact Mr. Stewart Bailey (202-962-2679) of WMATA to arrange participation in the training session.
5. The Contractor and its subcontractors shall indemnify and save harmless WMATA, its Directors, Officers, employees and agents from all liabilities, obligations, damages, penalties, claims, costs, charges, and expenses (including reasonable attorney's fees), of whatsoever kind and nature for injury, including personal injury or death of any person or persons, and for loss or damage to any property, occurring in connection with, or in any way arising out of the performance of this project due to the acts, errors or omissions of the Contractor, or any subcontractor, employee, DBE, agent, or representative of the Contractor or subcontractor.
6. The Contractor shall have and maintain a Railroad Protective Liability insurance policy issued in the name of WMATA, written on the ISO Form, with limits of \$5,000,000 Combined Single Limit for bodily injury and property damage, with a \$10,000,000 Annual Aggregate, for any personal injuries or deaths, or any damage to WMATA's property, equipment and facilities caused by the operations of the Contractor or any of its subcontractors with respect to the work to be performed on, adjacent to, above or underneath WMATA's operating railroad property.
7. The Contractor shall have and maintain a Commercial General Liability Insurance policy covering the liability of the Contractor for all work and operations under or in connection with this project, and all obligations assumed by the Contractor under the project contract. Coverage shall be provided for Products, Completed Operations, Contractual, Explosion and Collapse and Underground Liability. The coverage under such an insurance policy or policies shall have not less than \$1,000,000 Combined Single Limit for each occurrence for personal injury and property damage liability.
8. The Contractor shall have and maintain Automobile Liability insurance policy covering the use of all owned, hired, rented or leased vehicles bearing, or under the circumstances in which they are being used, required by District law to bear, license plates, and not covered under the Contractor's Commercial General Liability insurance aforementioned. The coverage under such a policy or policies shall have limits of not less than \$1,000,000 Combined Single Limit Each Occurrence for bodily injury and property damage liability.

WMATA shall be included as an additional insured under the coverage of Automobile Liability Insurance with respect to all activities under this Contract.

9. Crane operations that affect WMATA's track safety will be restricted to WMATA non-revenue hour operations.
10. WMATA reserves the right to restrict crane operation in the vicinity of WMATA structures/tracks. The following is a partial list of WMATA requirements:
 - a. Crane booms should be parallel to the WMATA tracks.
 - b. Cranes with "swinging leads" should not have the boom above the fenced Metro right of way on the WMATA superstructure during revenue hours.
 - c. Some cranes with "fixed leads" may have the boom above the fenced Metro right of way on the WMATA superstructure during revenue hours, but only with WMATA approval.
 - d. Flagmen will be present when cranes are utilized in the vicinity of the tracks. Underground utility work using cranes generally will not require a flagman.
 - e. The WMATA flagman will have the authority to stop construction work in the event of unsafe track operating conditions.
11. No debris will be allowed to fall or spill on to the trackage right-of-way during construction.
12. The Contractor shall protect and maintain all underground utilities, including the Fiber-optic lines and communications and power conduits, in the WMATA property.
13. The Contractor must hold a pre-construction meeting with WMATA's supervisory field coordinator at the beginning of the work. Two weeks notice should be given for the meeting.
14. The WMATA's supervisory field coordinator has the authority to stop any work that may endanger Metrorail facilities or its operations.

E. MEASURE AND PAYMENT

No direct measurement or payment will be made for the work necessary to comply with the requirements of this Special Provision. The work necessary to comply with the requirements of this Special Provision shall be deemed incidental to related pay items in the contract.

9. WATER MAIN WORK:

A. GENERAL

The scope of work for the Contractor includes the construction of the water main replacement within the limits shown on plans. This Special Provision supplements the requirements of 305 of the Standard Specifications.

B. MODIFICATIONS

The Contractor shall maintain water main operation in compliance with 305.05 (B). The downtime for the existing water main service shall be less than four (4) hours unless approved otherwise by the Engineer.

1. The replacement water main work includes providing a steel casing for the exposed portion of the water main on the bridge. Included are all connections, joints, fittings, assembly and disassembly and accessories as detailed on the plans and specifications.
2. The installation of the water main will conform to WASA specifications under Appendix D.
3. The water main on the bridge shall be pressure tested and accepted prior to pouring of the deck.
4. The ends of the casing pipe are bulk-headed and a copper pipe leading to the manhole on the south end is intended to alert any possible leak in the system after filling the casing pipe.
5. Payment will be made for quantities measured under various items at corresponding bid prices.

C. ADDITIONAL SPECIFICATIONS

The Appendices of the contract Special Provisions contain portions of the DC Water and Sewer Authority (WASA) specifications. The water main work shall be in compliance with any applicable DC WASA specifications contained in the Appendices.

D. SHOP DRAWINGS / AS-BUILT DRAWINGS

The Contractor shall be responsible for the preparation and submittal of shop drawings for the water main work on the project. These drawings shall include all the replacement water main work on the project. The shop drawings shall utilize a separate stationing system for the water main work. The water main stationing system shall use the centerline pipe alignment. The purpose of this requirement is to facilitate useful records for DC WASA. The Contractor shall correct the shop drawings to As-Built drawings at the successful completion of the water main construction. As noted, the As-Built drawings shall employ the stationing system utilizing the centerline pipe alignment. The quality of the drafting for the As-Built drawings shall be higher than the quality necessary for shop drawings. The final product shall be

professionally drafted in ink on mylar plastic and shall be comparable to the drafting standards on the water and storm sewer plan sheets. The final drawings shall be suitable to DC WASA for purposes of maintaining a record of the water main work constructed on the project.

E. INTERFERENCE WITH OTHER UTILITIES

The water main shall be located to provide a minimum clearance of five (5) feet horizontally and one (1) foot vertically from the existing 8" gas line. All minimum clearances shall be maintained from other utilities existing in the area and shall be coordinated with the concerned utility company.

F. SCHEDULING

The Contractor will be responsible for scheduling all construction activities between the Contractor and DC WASA.

G. PIPE EXPANSION JOINT ASSEMBLY

The contract plans show a water main pipe expansion joint assembly. The intent of the assembly is to allow longitudinal movement of the bridge pipeline due to any seasonal thermal forces. Additionally, the assembly is longitudinally restrained to maintain integrity of the bridge pipeline. The assembly requires some welding and shall be fabricated of materials that are weldable using conventional methods outlined in the *Structural Welding Code*, American Welding Society. The use of flanged couplers on the ends of the assembly is permitted. The adjacent ductile iron pipes shall use a stronger class of pipe when flanged elements are mechanically attached. The installation of any water main pipe flanges shall be performed in the shop to ensure proper installation. The details of the assembly and method of attachment to adjacent pipe shall be shown in the shop drawings.

H. MEASURE AND PAYMENT

The measure and payment will be per 305.07 and 305.08 of the Standard Specifications. The pipe expansion joint assembly (fabricated of steel or other materials) will be measured and paid for with the ductile-iron pipe water main. The required shop drawings / as-built drawings in special format will be considered as incidental element of work to the ductile-iron pipe water main item.

10. PEPCO WORK - 69 kV TRANSMISSION PIPES, Item 000 023:

A. PEPCO WORK ON THE BRIDGE

PEPCO work on the bridge requires cooperation and services of the Contractor. The work consist of maintaining and protecting the existing 3-69 kV pipes during construction, vertical adjustment of pipe profile and providing permanent support system for the pipes. The following is a listing of anticipated work.

1. During deck removal in Phase I, the Contractor shall protect the 3-69kV pipes from damage or impact from falling debris during demolition. The Contractor shall coordinate with PEPCO all work around the pipes.
2. Contractor shall provide PEPCO access to scaffolding under the bridge for inspection purposes.
3. The Contractor may utilize existing steel framing to support the pipes during the south abutment removal and reconstruction and provide for temporary supports as needed. Temporary supports from existing girders may be needed to support the pipes during the erection and installation of new girders and will be the Contractor's responsibility.
4. The Contractor shall also support the pipes for lengths over excavations at the approaches. The configuration and spacing of these supports shall be approved by PEPCO.
5. Vertical adjustment of the profile of the pipes will be necessary on the bridge for placement as indicated on the plans. The Contractor shall carry out this work in close coordination with PEPCO work off the bridge. PEPCO has the right to get the work done by others.
6. The Contractor shall attach and support the three PEPCO 69 kV pipes within the bridge. The pipes are to be supported at approximately 10 ft. on centers. PEPCO is to provide the Contractor all accessories for the pipe supports like saddles, filler materials etc., for installation within the bridge. The Contractor shall provide all other materials (nuts, bolts, washers, steel members, etc.) as necessary to support the PEPCO pipes within the bridge.
7. The Contractor shall maintain the 7/16" somastic coating on the PEPCO pipes. The Contractor shall apply new 7/16" somastic coating on the portion of the pipes that will be exposed within the bridge span.
8. The Contractor shall provide and install a 10" I.D. pipe sleeve for each PEPCO steel pipe in the backwalls and the sleeper pad located at the end of the approach slab on the north. PEPCO is to install approved filler, Duxseal or equivalent in each sleeve.
9. PEPCO is to inspect and approve the Contractor's work. The Contractor shall coordinate the inspection with PEPCO and provide access for PEPCO to perform the inspection. Contact PEPCO's Conduit Department, Mr. Earl Coup, (202) 388-2137.
10. The Contractor shall allow sufficient down time in the construction schedule between the end of Phase I and the beginning of Phase II that allows for the time it takes PEPCO to complete the support of the three 69 kV pipes.
11. The three 69kV lines are to remain functional and no discontinuity in service is anticipated.

B. PEPCO WORK OFF THE BRIDGE

PEPCO work off the bridge requires cooperation and services of the Contractor. The following is a listing of the anticipated procedures and requirements for work on the three 69 kV pipes off the bridge.

Prior to the start of Phase I construction, PEPCO is to uncover approximately fifty (50) feet length of pipe on each approach to be able to make adjustments in the profile. The pipes in the trench should not be covered until the work of the pipe on the bridge is completed. PEPCO is to approve the bedding and support of the pipes in the trench and covering the trench. Steel plates if needed to cover the trench should be designed for traffic loads. The steel plates are to remain in place during Phase I bridge construction.

The Contractor shall maintain the steel plates over the open trench containing the three PEPCO 69 kV pipes.

A one-way street light conduit exists on the west side of the bridge belonging to the DCDPW. The proposed feeders to the new street light poles on the east side at both south and north approach of the bridge cross over the existing 69kV pipes. Any conflicts shall be resolved prior to working around the 69kV pipes. The Contractor shall notify PEPCO at (202) 388-2137, 48 hours (two working days) prior to any work around the vicinity of the 69kV pipes.

C. PAYMENT

Payment for work under this contract line item (PEPCO 69kV pipes) will be made at the contract lump sum price for the job, inclusive of all installation, profile adjustments, supplemental materials, equipment and labor necessary to protect, maintain and support the three PEPCO 69 kV pipes as specified.

If the Contractor's bid price is not favorable, PEPCO will have the right to have the work done by others.

11. PEPCO WORK - ASBESTOS DEMOLITION, Item 000 025:

A. GENERAL

Work under this item consists of removal and disposal of existing PEPCO electrical ducts in the existing sidewalk section that contain asbestos material. This work will be as delineated in the plans or as indicated by the Engineer.

If the Contractor's bid price is not favorable, PEPCO shall have the right to have the work done by others.

B. PROCEDURE

The following minimum procedures shall be executed by the Contractor when removing electrical ducts that contain asbestos material:

1. Concrete containing asbestos conduit shall not be broken up; it shall be saw cut in suitable lengths to minimize fibers becoming airborne.
2. The concrete containing the asbestos material shall be sprayed with water containing an additive to enhance penetration during the demolition. The additive, or wetting agent, will be 50% polyethylene ester and 50% polyoxyethylene ether at a concentration of one (1) ounce per five (5) gallons of water. All exposed asbestos shall be sufficiently saturated to prevent emission of airborne fibers.
3. The contaminated concrete shall be removed immediately from the site, after being covered with 6-mil plastic sheets to prevent the material from drying.
4. The contaminated concrete shall be packed and labeled, and delivered to a predesignated disposal site for burial, in accordance with EPA guidelines.
5. The Contractor shall provide proper and adequate protection from asbestos contamination for all workers as required by OSHA.
6. The Contractor shall submit proposed plans, procedures and methods for the said operation for the Engineer's review and approval prior to carrying out the work.

All material removed shall be disposed of outside the construction area. Material shall be removed daily and not allowed to pile up.

These requirements are intended as a supplement to any requirements of DCRA, EPA, and OSHA.

Removal shall be done in a manner suitable to allow implementation of maintenance of traffic as indicated in the contract documents.

C. METHOD OF MEASUREMENT AND PAYMENT

The unit of measure for PEPCO WORK - ASBESTOS DEMOLITION will be the linear feet. Concrete containing asbestos will be measured along the centerline of the A/C pipes. Payment will be made at the contract unit price per linear feet bid in the Schedule of Prices, which payment shall constitute full compensation for the removal and disposal of duct banks containing asbestos, the furnishing of all solutions, materials, plastic sheets, labor, tools, equipment and incidentals necessary to complete the specified work.

The demolition of existing, non-asbestos, PEPCO DUCT BANKS AND FACILITIES is part of item 205 008, DEMOLITION.

12. GAS COMPANY WORK:

The scope of work for the Contractor does not include the construction of the gas line relocation within the project limits. Washington Gas Company (or its agent) will be installing a gas pipeline on the bridge after such time that the Contractor has installed the steel superstructure including the support systems for the gas main on the bridge in Phase I construction. The Contractor shall not install the concrete deck or deck forms until after the new gas pipeline has been installed. Washington Gas Company will provide the duration of time necessary for the installation of the gas facilities on the project. The Contractor shall schedule his work around the requirements of the Washington Gas Company. The new gas pipeline shall be operational prior to demolishing the old gas pipeline.

The Contractor will be responsible for scheduling all construction activities between the Contractor and Washington Gas Company.

Additionally, the Contractor shall construct proper gas line portals through the new abutment construction as indicated in the project plans and shall properly install the gas line roller supports on the bridge structural steel as indicated in the project plans. Washington Gas Company will furnish the necessary steel casing pipes (for abutment portals) and gas line roller supports to the Contractor for installing at the bridge. The handling and installation of steel casing pipes and gas line roller supports by the Contractor will be considered incidental to item 703 006, PPC PIER ABUTMENT WALL, and item 706 006, STRUCTURAL STEEL - AASHTO M 270, Grade 50.

The District of Columbia will not consider any claims for compensation due to delays related to this incidental work, other than written authorized time extensions.

13. UTILITIES:

This Special Provision supplements 103.01 Article 17E of the Standard Specifications.

It is understood and agreed that the Contractor has considered in his bid all of the permanent and temporary utility appurtenances in their present, new or relocated positions. The District will not allow any additional compensation for reasonable delays, inconveniences, or damage sustained by the Contractor due to any interference from the said utility appurtenances or the operation of moving them.

The Contractor shall be responsible for notifying all affected utility companies before performing any work on their utilities, and shall cooperate with them in achieving the desired result.

The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal and rearrangement operations. This is in order that the operations may progress in a reasonable manner, that duplication or rearrangement work may be reduced to a minimum, and that services rendered by those parties will not be interrupted.

If utility services are interrupted because of accidental breakage or because of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the

authority in the restoring service. No work shall be undertaken around fire hydrants until the local fire authority has approved provisions for continued service.

The Contractor shall maintain coordination with the public and private utility companies before the start of construction and during all construction phases of the project.

The Contractor shall obtain necessary Utility license agreement with the railroad for all work on utilities on the bridge. No additional compensation will be made for services and time delays referenced in this Special Provision.

A. MCIWorldCom FACILITIES

The Contractor should be aware of the existence of communications cables alongside of the Railroad tracks. To avoid potential conflict, a minimum of twenty-four (24) inches vertical clearance when crossing MCIWorldCom facilities and sixty (60) inches horizontal clearance when running line is parallel to their facilities, should be maintained.

The Contractor should contact MCIWorldCom at least Forty-eight hours prior to construction around their facilities and also should arrange for monitoring during construction by MCIWorldCom personnel. For information contact Robert Zwack at (703) 749-7214.

14. COORDINATION WITH OTHERS:

This Special Provision supplements 103.01, Article 18 of the Standard Specifications.

The Contractor is alerted to the fact that other contracts have been or may be let for work near the project area. These contracts may be associated with this project, or they could be different in scope.

The Contractor shall coordinate his work and cooperate fully with all others in order to eliminate or curtail delays and interference of any kind. Particular attention shall be made to the proper maintenance of highway traffic through the project area. The Contractor shall perform his lane closings and reopening so as not to cause interference with others, or conflict with traffic maintenance by others.

15. APPLICABLE WAGE DECISION/WAGE RATES:

This Special Provision supplements 103.02A of the Standard Specifications.

In accordance with the applicable provisions of 29 CFR Part 1 which require that the correct wage determination and the appropriate wage rates therein be incorporated into this contract, General Wage Decision No. DC010001 is bound herein and contains the specific applicable wage rate(s) which are:

HEAVY CONSTRUCTION RATES

In accordance with 29 CFR Part I, Section 1.6(c)(3)(IV), if the intent to award letter is not issued within ninety (90) days of bid opening, the executed contract will include all intervening modifications. The Contractor will be reimbursed this added labor cost.

16. MAINTENANCE OF HIGHWAY TRAFFIC:

This Special Provision supplements 104.02 of the Standard Specifications.

A. TRAFFIC FLOW RESTRICTIONS

The Contractor shall maintain a minimum of one (1) lane of traffic in each direction on New Hampshire Avenue, N.E. at all times. During morning peak (as outlined below) two lanes shall be maintained in the southbound direction and during evening peak, two lanes shall be maintained in the northbound direction.

Morning peak hours are between 6:30 A.M. and 9:00 A.M., Monday through Friday, excluding holidays. Evening peak hours are between 3:30 P.M. and 6:30 P.M. Monday through Friday, excluding holidays.

The Contractor shall maintain access to adjacent streets at all times throughout the duration of the construction project. At least one lane in each direction (if applicable) shall be kept open to traffic on adjacent streets. Temporary closure of an additional lane on adjacent streets may only be occasional and during off peak hours.

The contract drawings contain suggested Maintenance of Traffic Plans that indicate in a general way to allow implementation of the traffic requirements for the duration of the project. The Contractor may use the Maintenance of Traffic Plans in the contract drawings as the Traffic Control Plan (TCP) or submit a Contractor-designed TCP to the Engineer for review and approval. A Contractor-supplied TCP shall comply with 104.02(B) of the Standard Specifications.

B. ADDITIONAL REQUIREMENTS

The Contractor shall construct/maintain sidewalks that permit unimpeded pedestrian traffic along New Hampshire Avenue and South Dakota Avenue in the area of the project. At appropriate locations, if required, a temporary sidewalk shall be provided and maintained that is a minimum of 6 feet wide and comply with AASHTO requirements.

This required sidewalk shall provide pedestrian and wheelchair passage during all phases of construction. The Contractor shall maintain and construct, when necessary, temporary wheelchair ramps to allow street crossing for the duration of the project.

C. MEASUREMENT AND PAYMENT

No direct measurement or payment will be made for the work required by this Special Provision. The work required by this Special Provision is part of Construction Lane Closing, item 616 004.

17. CONTRACTOR'S SUBMITTALS:

This Special Provision supplements 105.02 (B)(2) of the Standard Specifications.

Selected shop and working drawings, materials certifications, laboratory test reports and other required submittals will be subject to review by the Design Consultant. Before submittal of shop drawings, the Contractor will be informed which submittals shall be transmitted directly to the Consultant's office. Every effort will be made to respond to these submittals within 21 days of receipt of the submittal by the Consultant. All other submittals shall be transmitted to the DCDPW office responsible for their approval. The Contractor shall transmit three (3) copies and one (1) reproducible copy of the selected submittals to the following office:

**David Volkert & Associates Engineering, P.C.
5028 Wisconsin Avenue, N.W., Suite 403
Washington, D.C. 20016
(202) 237-6269**

A file copy of each submittal reviewed by the Consultant shall be transmitted to the following DCDPW offices at the same time:

Copies of shop drawings shall be submitted to:

**Chief, Design and Engineering Division
Bureau of Transportation Construction Services
D. C. Department of Transportation
2000 14th Street, N.W., 5th Floor
Washington, D.C. 20009**

Working drawings shall be submitted to:

**Chief, Construction Management Division
Bureau of Transportation Construction Services
Department of Public Works
4901 Shepherd Parkway, S.W.
Washington, D. C. 20032**

Materials certifications and laboratory test reports shall be submitted to:

**Chief, Office of Materials Development and Research
D. C. Department of Transportation
2000 14th Street, N.W., 4th Floor
Washington, D.C. 20009**

Shop and working drawings for sewers and water mains shall be submitted to:

**Chief, Office of Engineering Services
D.C. Water and Sewer Authority
5000 Overlook Avenue, S.W.
Washington, D.C. 20032**

Catalog cuts for roadway lighting shall be submitted to:

**Chief, Traffic Signal and Lighting Division
Bureau of Traffic Services
2000 - 14th Street, N.W., 7th Floor
Washington, D.C. 20032**

18. NIGHT WORK:

This Special Provision supplements 105.11 of the Standard Specifications.

A. GENERAL

The Contractor shall be subject to area noise ordinances for night work from 7:00 PM to 7:00 AM and to the restrictions on equipment as indicated below. Noise levels created by construction activities will require an application for waiver to the District. The District cannot guarantee that a waiver will be granted.

For this project, the area will be classified as Residential, Special Purpose or Waterfront Zone.

D.C. MAXIMUM PERMITTED NOISE LEVEL*

ZONE	<u>Maximum Noise Level DBA</u>	
	<u>Daytime</u>	<u>Nighttime</u>
Residential, Special Purpose or Waterfront Zone	60	55
Commercial or Light Manufacturing Zone	65	60
Industrial Zone	70	75

*D.C. Law 2-53, District of Columbia Noise Control Act of 1977.

The Contractor shall also maintain sufficient light illumination levels for safe operations in all active work areas during evening and night work. Temporary lighting for the Contractor's operations shall comply with OSHA regulations, Section 1926.56, task requirements and as specified herein.

B. RESTRICTIONS

The use of all mechanical impact demolition equipment will be absolutely prohibited between the hours of 10:00 PM and 8:00 AM.

C. MEASURE AND PAYMENT

No separate measure or additional payment will be made for night work or night lighting.

19. SALVAGED MATERIALS:

This Special Provision supplements 106 of the Standard Specifications.

All salvaged materials considered reusable by the Engineer should be secured by the Contractor and used on the project instead of new materials. Payment will be made under the appropriate pay items.

Any salvaged materials considered by the Engineer to be useful to the District shall be delivered to a designated storage yard within the District of Columbia. All other materials shall be removed from the job site and be disposed of properly by the Contractor. No direct measure will be made for this work. Payment for this work shall be reflected in the unit prices for the appropriate pay items.

20. OPTIONAL MATERIALS:

This Special Provision supplements 106 of the Standard Specifications.

The District will not consider any alternate to the following items, and the Contractor shall supply the material of products involved, exactly as shown on the plans and as described in the Standard Specifications and these Special Provisions.

- a. Electrical Conduits
- b. Light Standards

For all other finished or semi-finished materials or products, an optional equivalent will be permitted by the accepted bidder only. This alternate material or product shall meet all the requirements of the pertinent ASTM, AASHTO, Federal Specifications, DCDPW Specifications, or other specifications which would be applicable to the particular item and result in no additional cost to the District nor additional contract time. The Contractor shall submit the proposal for an equivalent item for the District's review immediately after bids have been opened in order that approval or rejection can be determined.

21. MAYOR'S ORDER 92-138 (NOTE ON INAPPLICABILITY TO THIS FEDERAL AID CONTRACT):

The Mayor's Order 92-138 does not apply to Federal-Aid contracts and Contractors will not be required either to comply or make any efforts to comply with Mayor's Order 92-138.

22. INSURANCE:

This Special Provision supplements 107.12 (D) of the Standard Specifications.

All policies and certificates shall be sent to Mr. Ardeshir Nafici, Acting Chief, Construction Management Division, Bureau of Transportation Construction Services, Department of Public Works, 4901 Shepherd Parkway, S.W., Washington, D.C. 20032.

The United States of America shall be named as an additional insured on all such policies. All such policies shall specify that the insured shall have no right of subrogation against the United States for payments of any premiums or deductibles hereunder and such insurance policies shall be assumed by, be for the account of, and be at the sole risk of the insurer.

The insured shall pay the United States the full value for all damages to the lands or other property of the United States caused by him or by his employees, contractors, or employees of the contractors.

Each insurance policy shall contain a binding endorsement stating that: "The insurer hereby warrants and agrees that it shall not cancel or alter the insurance coverage afforded by this policy, except after thirty (30) days written notice has been received by the Contracting Officer, from the insurer."

23. PROJECT SECURITY:

This Special Provision supplements 107.14 of the Standard Specifications.

The Contractor shall be responsible for adequate protection of the entire project site during the performance of this contract. The Contractor shall be responsible, on a 24-hour basis, for necessary protection to prevent all vandalism to or theft of materials, equipment in use, and completed work on the project site.

No direct measure or payment will be made. Cost of Project Security shall be incidental to Engineer's Field Facilities, Item No. 626 002.

24. SPECIALTY ITEMS:

This Special Provision supplements 108.01 of the Standard Specifications.

In accordance with Section VII.1.b of REQUIRED CONTRACT PROVISIONS, FEDERAL AID CONSTRUCTION CONTRACTS, the following items as listed in the PAY ITEM SCHEDULE are designated SPECIALTY ITEMS.

ITEM NO.	DESCRIPTION
618 002	Electrical Work

25. CONSTRUCTION SCHEDULING:

This Special Provision supplements 108.03 of the Standard Specifications and is referenced to the Special Provision entitled CONSTRUCTION COMPLETION TIME by adding:

A. CRITICAL PATH METHOD (CPM) REQUIRED

The Contractor shall produce and submit a progress schedule, based on the Critical Path Method (CPM) of scheduling, to the Engineer for approval before commencing any work.

B. SYSTEM REQUIREMENTS

The Contractor shall submit a construction schedule at least seven (7) calendar days prior to the start of construction. CPM computer software shall be Primavera or equivalent. A 3.5-inch diskette shall be provided with each submittal.

C. ORDER OF WORK

The Contractor shall schedule his/her construction work so that the requirements of MAINTENANCE OF HIGHWAY TRAFFIC are satisfied. Scheduling shall include ordering of materials, preparation of shop and working drawings, and all other work as indicated in the contract documents and as directed by the Engineer.

26. CONSTRUCTION COMPLETION TIME:

This Special Provision supplements 108.06(A) of the Standard Specifications.

The Contractor shall start work on the date specified in a written Notice to Proceed issued by the Contracting Officer and complete the work within **Five Hundred and Forty (540)** consecutive calendar days, after specified starting date.

27. FAILURE TO COMPLETE ON TIME:

Replace 108.07 with the following:

For each calendar day that contract work remains incomplete after expiration of the specified construction completion time, or main part thereof, the sum of **\$1,100.00** has been set by the Contracting Officer as liquidated damages from any money due the Contractor. The Contractor's operation after expiration of construction completion time as extended will in no way waive the District's rights under the contractor. A memorandum justifying these amounts will be placed in the contract file.

28. INFORMATIONAL DRAWINGS:

The Record drawings for the existing New Hampshire Avenue Bridge Over CSX railroad and Metro, N.E., are available for examination in the Design and Engineering Division, D.C. Department of Transportation, 64 New York Avenue, N.E., 1st Floor, Washington, D.C. 20002. It consists of the following:

- a. The original bridge drawings of 1933,
- b. Bridge widening plans of 1959 and,
- c. North abutment and Superstructure replacement plans of 1974.

The drawings for the New Hampshire avenue roadway project starting from north of the Project extending to the Maryland state line will be available for examination in the above-mentioned office.

The District assumes no expenses or liability for the accuracy of or the interpretation made from these drawings.

29. ENVIRONMENTAL PROTECTION:

A. GENERAL

This Special Provision supplements 107.16 of the Standard Specifications.

B. COMPLIANCE WITH PERMITS

The Contractor shall perform all demolition and construction activities in compliance with applicable provisions of the project permits and restrictions from regulatory agencies. Copies of selected portions of project permits and other restrictions are included in the Appendices of these Special Provisions.

C. MEASURE AND PAYMENT

No measure or payment will be made and the cost of meeting the requirements of this Special Provision shall be reflected in and distributed among the contract pay items.

30. CLEARING AND GRUBBING, Item 201 002:

This Special Provision supplements 201 of the Standard Specifications by adding:

Under 201.01 DESCRIPTION, add the word “undesigned” after the word “all” in the first sentence.

After the first paragraph, add the following sentence:

“Existing ground mounted traffic signs and sign supports will be sequentially removed at the various phases of construction as shown in the maintenance of traffic plans and/or as directed by the Engineer.”

Under 201.04 MEASURE AND PAYMENT, add the following sentence after the first sentence:

“No other contract pay item may be used to remove ground mounted traffic signs and sign supports unless approved by the Engineer.”

31. COMMON EXCAVATION, Item 202 002:

This Special Provision supplements 202.02 of the Standard Specifications by adding the following:

1. This item shall include undercutting to remove soft and unstable material, which may be encountered below the proposed aggregate base course, within the limits prescribed by the Engineer. Also included is special or hand excavation, as necessary, over, around, and under existing or new utility lines and appurtenances uncovered from such base undercutting.
2. The Contractor is cautioned about the existing fiber-optic telephone cables buried in that area. The Contractor shall notify “Miss Utility” to locate the utility before any excavation is attempted. If a minimum earth cover of four 4 feet cannot be obtained after grading the Contractor shall inform the Engineer and relocate the utility. The cost of relocating this utility will also be covered under this item.
3. Work also includes grading and removal of all preconstruction debris (lumps, trash and other obstacles) within project limits or as directed by the Engineer. Saw cutting, stockpiling of soil, removal of soils base, crushed rock and unsuitable fill materials and aeration of compacted soil for the work and storage areas will also be included in this item.

32. STRUCTURE EXCAVATION, Item 205 002:

The Special Provision modified 205 as follows:

Structure excavation shall include the excavation for the demolition and construction of the backwalls and wingwalls as shown on plans. The Contractor shall take all necessary precautions during excavation to avoid damage to portion of existing structure to remain in place and existing utilities. Any portion of the existing structure or existing utilities damaged as a result of negligence on the part of the Contractor shall be repaired or replace by the Contractor at his own expense.

The removal and disposal of existing backwalls and portion of wingwalls shall be included under pay item 205 008, DEMOLITION.

This Special Provision supplements 205.04(A) of the Standard Specifications by adding.

“Excavations for light poles will be measured from actual dimensions of the excavated volume (drilled or excavated to the PCC neat lines) limited by vertical planes adjacent and parallel to the footings and a horizontal plane at the bottom of footings as shown on the plans.”

The provisions of CSX Transportation “CRITERIA FOR OVERHEAD BRIDGES” and “ADJACENT CONSTRUCTION DESIGN MANUAL” of METRO should be utilized for excavation adjacent to existing railroad.

“The limits of structure excavation, to the railroad side, for the south abutment will be as indicated on the drawings or as directed by the Engineer.”

33. STRUCTURE BACKFILL, Item 206 002:

This Special Provision supplements 205 and 206.

A. GENERAL

Granular material from excavation at the project site conforming to the requirements of 804.04 shall be used as structural backfill if so directed by the Engineer.

All other areas, excavated for demolition of substructure will be backfilled to surrounding grades with material meeting the requirements of 804.04.

Any unsuitable and unstable soils found directly behind the abutment shall be excavated and replaced with structural backfill placed in 6” layers and compacted to at least 100 percent of maximum dry (laboratory) density obtained by AASHTO T-180, Method D. The depth of the excavation will be determined by the Engineer during construction operations.

34. DEMOLITION, Item 205 008:

A. GENERAL

Work under this item consists of removal and disposal of various materials from the existing structure that are not specified otherwise. Prior to commencement of the work the Contractor shall comply with the requirements of SECTION 630 of the STANDARD SPECIFICATIONS and SPECIAL PROVISIONS for PROTECTION SHIELD Item No. 630 002. The demolition work shall comply with 205 of the Standard Specifications, except as herein modified and amended.

The provisions of CSX Transportation “CRITERIA FOR OVERHEAD BRIDGES” and “ADJACENT CONSTRUCTION DESIGN MANUAL” of METRO should be applicable for demolition around existing railroad.

Work under this item includes, but not limited to the following:

1. Removal and disposal, in stages, of the existing bridge deck, bridge curbs and sidewalks, bridge parapets.
2. Removal and disposal of metal work including bridge joints, railings, fence, conduits and embedded miscellaneous metal within the limits of the wingwalls.
3. Removal and disposal, in stages, of steel girders, other structural steel appurtenances as shown on plans.

4. Removal of bridge bearing assemblies.
5. Removal and disposal of asphalt overlay and approach slabs for the bridge.
6. Removal and disposal, in stages, of the south abutment and portions of the reinforced concrete backwalls, seat, wingwalls and wingwall parapets of the north abutment to the limits shown on plans.
7. Removal and salvage and/ or disposal of stone facing on abutment wingwalls for resetting stonework as directed by the Engineer.
8. Protection, maintenance, assurance of safety and continuance of service of all utilities on the bridge.
9. Removal of steel plates and freeway lighting standards and delivery to a designated DCDPW storage facility.
10. Clearing of existing debris from the project site.

B. DESCRIPTION

The existing bridge structure shall be demolished by the Contractor to the limits shown in the plans or as laid out here in this special provision. The work shall also be performed in coordination with maintenance of traffic phasing. The existing bridge substructure units are reinforced Portland cement concrete, with stone masonry fascia (please refer to Special Provision – INFORMATIONAL DRAWINGS).

The existing south abutment, a gravity wall, will be removed in stages. The Contractor shall exercise caution not to damage the part of the existing wall to remain when demolishing the wingwall to the limits shown on the drawings. The existing south wingwall consists of an older wingwall integral with the abutment wall (called out in plans as “hidden wingwall”), and an outer wall constructed during subsequent widening of the original structure with a void between them. The hidden wingwall retains the roadway fill while the outer wall is supporting the existing stone facing. The Contractor shall exercise caution while demolishing portions of the wingwall that involves both the walls.

The Contractor shall protect the walls against any instability or failure when losing integrity while demolishing the integral parts of the abutment. Refer to AS-BUILT PLANS for details of the existing walls. Contractor shall protect vertical faces of excavation, when excavated close to a stepped-up footing, against possible failure.

C. CONSTRUCTION REQUIREMENTS

The nature of the substructure rehabilitation at the bridge abutment wingwalls requires careful integration of existing PCC with new PCC. The Contractor shall use special consideration and effort when demolishing existing PCC substructure. The contract plans indicate the requirement to save existing

reinforcing to tie the existing work to the new work. The reinforcing steel that is to remain shall be cleaned and repositioned as called for in the plans. Existing reinforcing steel shall be integrated with new work as shown in the contract plans.

PCC demolition methods that can damage existing reinforcing, that have not significantly deteriorated (due to natural causes), shall not be utilized in areas where existing reinforcing is required to integrate existing construction with new construction. In the event the existing reinforcing is badly deteriorated (due to natural causes), and the Contractor believes the reinforcing will fail during PCC removal, he shall notify the Engineer prior to continuing the PCC demolition. When reinforcing steel that is stated to remain becomes damaged due to negligent demolition, the Contractor shall at his own expense substitute a bar of equal size drilled and grouted into the existing PCC, as required by the Special Provision – DRILLING AND GROUTING OF REINFORCING BARS.

Where projecting bars are not to extend into the new construction, the bars shall be cut off flush with the surface to which the concrete has been removed. All material removed shall be disposed of outside the construction area. Material shall be removed daily and not allowed to accumulate on or adjacent to the project site.

The Contractor shall carefully saw cut existing PCC at demolition boundaries that will be visible after rehabilitation work is complete. The Engineer may adjust demolition boundaries to suit actual field conditions or to allow a more suitable and uniform final product. Field adjustments of demolition work, unless significantly large, will not be cause for extra compensation. However, adjustments to quantities of the new work pay item will be permitted as appropriate.

Contractor shall identify drainpipes or underdrains of the existing wingwalls and shall be protected and capped for final integration into the new abutment.

Contractor shall exercise caution working around utilities during demolition process. Utilities have to be maintained and protected during the project period.

D. ENVIRONMENTAL RESTRICTIONS

The Contractor is alerted to the following restrictions included in the project contract documents:

1. Existing bridge sidewalk slab has embedded asbestos pipe conduits.
2. The existing structural steel is coated with lead-based paint and all necessary precautions and requirements are to be employed during demolition and disposal.
3. See Special Provision – ENVIRONMENTAL PROTECTION.

E. WORK NOT INCLUDED

The following work is not included in this item DEMOLITION.

1. Removal of portion of footing toe of the north abutment wall will be covered under NORTH ABUTMENT MODIFICATION AND RESTRAINT SYSTEM, Item No. 701 013.
2. The removal and disposal of electrical ducts in the sidewalks of the bridge that are made of asbestos material will be covered under PEPCO WORK - ASBESTOS REMOVAL, Item No. 000 025

F. SALVAGED MATERIAL

The Contractor is alerted that some materials utilized in the construction of the existing bridge over CSX are to be salvaged for the District of Columbia. See applicable Special Provisions for an understanding of this salvage work.

G. WORKING DRAWINGS

The methodology of required calculations for working drawings shall conform to the specifications and design methods and loads shown on the GENERAL NOTES sheet of the plans.

H. MEASURE AND PAYMENT

The unit of measure will be the job. No actual measure will be made. Payment for DEMOLITION will be made at the contract lump sum price. The payment will include removal and disposal of all materials and furnishing all labor, tools, equipment and incidentals needed to complete all the above specified work.

35. REMOVAL AND DISPOSAL OF LEAD-PAINTED STRUCTURAL STEEL:

A. GENERAL

The Contractor shall comply with applicable District and Federal provisions, including 29 CFR 1926.62 and 40 CFR 260 through 40 CFR 268 when performing the demolition of lead painted structural steel.

B. MEASURE AND PAYMENT

The requirements of this Special Provision will be considered part of item 205 008, DEMOLITION.

36. AGGREGATE BASE COURSE, Item 209 002:

This Special Provision replaces section 209.02 of the Standard Specifications with the following:

A. MATERIALS

Materials shall conform to the requirements of one of the following:

Bank Run Gravel – 804.04 (A)

Crushed Stone – 804.04 (B)

37. CLEAN SEWER PIPE, Item 311 035:

A. DESCRIPTION

Work consists of cleaning existing sewer pipe (inlet connecting pipe) within the project limits, when directed by the Engineer. This work shall be done in conjunction with Item 311 026 and Item 311 028.

If during CATCH BASIN REPLACEMENT, the Engineer determines that a connecting pipe is clogged or requires cleaning, he shall direct the Contractor to clean the connection pipe.

The connection pipe shall be cleaned of all debris and thorough flushed by use of high-pressure hose. All work performed must be the requirements of the D.C. Water and Sewer Authority.

Any material extracted from the pipe during cleaning operations must be removed from the site by the end of the working day.

B. MEASURE AND PAYMENT

The unit of measure of CLEAN SEWER PIPE will be the linear foot and this measure will be the horizontal distance, along the surface, from the attached wall of the inlet to the center of the connecting sewer structure – minus three (3) feet.

Payment for CLEAN SEWER PIPE will be made at the contract unit price per linear foot, which payment will include all labor, equipment, tools, materials and incidentals necessary to complete the work as specified herein.

38. STONE FACED CONCRETE GRAVITY RETAINING WALL, Item 602 007:

A. DESCRIPTION

Work under this item shall consist of excavating, forming, furnishing and placing concrete footing and stone faced concrete wall at the location and to the dimension as specified in the contract documents.

The stone facing and stone coping for the proposed wall shall be of the same type and size as the existing wall. This may require careful removal and storage of the stone facing and stone coping from the portions of the existing wall to be demolished. If required, storage of the existing stone facing and stone coping shall be the responsibility of the contractor as approved by the engineer.

B. MATERIALS

Concrete – 817, Class B

Pervious fill – 805.02

Structure Backfill – 804.04

The stone facing and stone coping for the proposed wall shall be of the same type and size as the existing wall. Upon approval from the engineer, the existing stone removed from the existing wall shall be utilized, so long as it has not been damaged during removal.

If additional stone is needed, the contractor shall submit for approval the name of the quarry and 2 samples of the proposed stone to be used. These stone samples shall match as close as possible, the existing stone in color, relative size, and relative depth.

Mortar – 806.05 (B) (1) and (2)

C. CONSTRUCTION METHODS

602.01 (C) applies.

D. MEASURE AND PAYMENT

The unit of measure for STONE FACED CONCRETE GRAVITY RETAINING WALL will be the cubic yard. The actual number of cubic yards of concrete footing, concrete wall, and stone facing, complete in place as measured in the field, will be paid for at the contract unit price per cubic yard. Payment shall include all excavation and disposal of surplus materials, backfilling materials, forming, and all labor, materials, tools equipment and incidentals necessary to complete the work.

39. GUIDERAIL EXTRUDER TERMINAL, Item 605 021:

A. DESCRIPTION

Work consists of furnishing all labor, materials, equipment, and incidentals necessary to fabricate, galvanize, transport and erect the Guiderail Extruder Terminal as show on the contract documents. Guiderail Extruder Terminal must meet NCHRP 350 testing criteria. Some such terminals that meet these standards are as follows:

ET-2000 manufactured by SYRO Steel Company (as shown on the contract document)

BREAKMASTER as manufactured by Energy Absorption Systems, Inc.

The BEST System as manufactured by Interstate Steel Corporation

SKT-350 as manufactured by Road Systems, Inc.

All terminals shall be installed according to the manufacturer' s installation instructions.

B. MEASURE AND PAYMENT

The unit of measure for the Guiderail Extruder Terminal will be each. The number will be the actual number of each unit installed complete and accepted. Payment will include furnishing all components as specified for a particular unit, including but not limited to: all steel components, posts, cable assemblies, and anchors. Payment also includes excavation, backfilling, disposal of unsuitable materials, and all labor, materials, tools equipment and incidentals necessary to complete the work.

40. REMOVE PCC TERMINAL BLOCK, Item 605 039:

A. DESCRIPTION

Work consists of removing existing terminal blocks located at the ends of each bridge retaining wall. Care must be taken not to damage the retaining wall, which is to remain, during this work.

B. MEASURE AND PAYMENT

The unit of measure for Remove PCC Terminal Block will be each. Payment will include detaching existing guiderail from block, complete removal of block, disposal of all unsuitable elements, and all labor, materials, tools, equipment and incidentals necessary to complete the work.

41. HYDROSEED WITH 4-INCH TOPSOIL, Item 610 008:

This Special Provision supplements 610.

A. DESCRIPTION

Work under this item shall comply with 610.01 (A) to provide acceptable permanent vegetation to all disturbed areas brought to final grade.

The furnishing and application of water as necessary to establish and maintain the grass during the period of the contract shall be the Contractor's responsibility until final acceptance of the project.

B. MATERIALS

Materials shall comply with 610.01 (B). Seed Mix No. 2 shall be used unless otherwise directed by the Engineer. Rate of seed application shall be 5 LBS per 1000 square feet.

C. CONSTRUCTION METHODS

This supplements 610.01 (C):

The hydroseeding method shall be used on all areas disturbed during construction where final slope is less than 3:1. On slopes greater than 3:1, refer to Special Provision 35 CROWN VETCH HYDROSEEDING.

The disturbed areas shall be graded to within four (4) inches of final grade and then back-filled with four inches of topsoil to finished grade.

Other areas designated by the Engineer to be seeded, which areas are covered by weeds or grass, shall be mowed or cut to ground level. All trees and stumps in these areas shall be removed, and all clippings and debris shall be cleared from the seedbed area. Before hydroseeding, the soil shall be hand-raked or mechanically scarified to a depth of at least three (3) inches.

Lime shall be applied before the hydroseeding operation. The fertilizer, seed and inoculants shall be combined and thoroughly mixed in a slurry tank and the wood cellulose or natural wood fiber mulch shall then be added to the mix.

The Contractor shall submit a schedule of equipment to be used which shall include type of tank, agitators, and capacity of tank, effective reach of sprayer and any additional information that may be required by the Engineer to assure proper application of seed.

The tank shall be equipped with high-speed agitators, shall be connected to a self-powered pump, and shall have a capacity of not less than 500 gallons. The sprayer shall be regulated and operated to dispense the slurry mix uniformly at the rate specified for the particular species in the seed mixture used. The effective reach of the sprayer used shall be not less than 65 feet.

If seeding is washed out before germination, the Contractor shall reseed the area by hydroseed method at no additional cost to the District.

D. MEASURE AND PAYMENT

610.01 (D) applies. Topsoil shall be included in the unit price per square yard.

42. CROWNVETCH HYDROSEEDING WITH 4-INCH TOPSOIL, Item 610 010:

This Special Provision supplements 610.

A. DESCRIPTION

Work under this item shall comply with 610.02 (A) to provide acceptable permanent vegetation to all disturbed areas brought to final grade.

The furnishing and application of water as necessary to establish and maintain the grass during the period of the contract shall be the Contractor's responsibility until final acceptance of the project.

B. MATERIALS

Materials shall comply with 610.02 (B).

C. CONSTRUCTION METHODS

This supplements 610.02 (C):

The crownvetch hydroseeding method shall be used on all disturbed areas where final slope is greater than 3:1. On slopes less than 3:1, refer to Special Provision 34 HYDROSEEDING WITH 4-INCH TOPSOIL. The disturbed areas shall be graded to within four (4) inches of final grade and then back-filled with four inches of topsoil to finished grade.

D. MEASURE AND PAYMENT

610.01 (D) applies. Topsoil shall be included in the unit price per square yard.

43. PORTABLE PRECAST PCC BARRIER, Item 614 012:

This Special Provision supplements 614.02 of the Standard Specifications.

Supplementing 614.02(A), work under this item includes furnishing, mounting to barriers, maintaining and removing temporary barrier markers (delineators).

Supplementing 614.02 (B), delineators shall be installed at each end of the barrier assembly and at intervals in between, not to exceed twenty (20) feet and four (4) inches below top of barrier on traffic-facing side with reflective surface facing traffic.

Supplementing 614.02(C), payment will be made to include furnishing, installing, maintaining and removing delineators as specified herein.

44. PORTABLE PRECAST PCC CURB BARRIER, Item 614 013:

The portable precast PCC curb barrier shall conform to 614.02 of the Standard Specifications except as modified in the contract documents. This item is utilized on the bridge and approach slabs.

A. GENERAL

The barrier shall be mounted to the bridge deck (existing or new) and the approach slab pavement. The barrier shall consist of full width double-faced units unless traffic conditions allow the use of single face units. The width of the single face units shall not be less than eighteen (18) inches. The shape of the curb face shall be New Jersey type.

B. IMPACT LOADING

The concrete barrier shall have sufficient steel reinforcing to comply with AASHTO loading for impact.

C. MATERIALS

As indicated in 614.02(B) and the contract plans.

D. MEASURE AND PAYMENT

The measure and payment will be per 614.02(C) of the Standard Specifications as modified by the contract plans.

45. TEMPORARY RELOCATION OF TRAFFIC SIGNS:

This Special Provision supplements 616 of the Standard Specifications.

A. DESCRIPTION

Work consists of removing selected ground mounted signs from the job site and erecting the signs at locations shown in the Traffic Control Plan (TCP) or as directed by the Engineer. Also included is removal of the signs from the job site when no longer required.

B. CONSTRUCTION REQUIREMENTS

The Contractor shall carefully remove the designated signs. The signs shall be braced (as necessary) to prevent wind loading from toppling the signs during the removal process. The signs shall be assembled and mounted on temporary construction sign supports following the requirements of 616.04.

Existing sign supports shall be removed in their entirety unless indicated otherwise by the Engineer. The Contractor shall properly dispose of all sign supports removed and shall promptly refill all post-holes with appropriate soils-based material that equals neighboring ground.

Immediately after the installation of the sign, the Contractor shall clean the face panel of all dirt, grease, oil, or residual materials of the installation process.

C. MEASURE AND PAYMENT

Temporary Relocation of Traffic Signs will not be measured separately for payment. The cost shall be incidental to Item 616 008, Temporary Sign Support.

Payment for the final removal and disposal of ground mounted traffic signs and their original supports (metal and wood posts) shall be incidental to Item 201 002, Clearing and Grubbing.

46. CONSTRUCTION WARNING AND DETOUR SIGNS, Item 616 012:

This Special Provision supplements 616.06 of the Standard Specifications.

Article 616.06(A) is supplemented by the following:

High performance Wide Angle Retroreflective Sheeting for construction warning, detour, and temporary traffic guide sign panels shall conform to FHWA Standard Specifications for Construction of Roads and Bridges on the Federal Highway Projects, D 4956 and the following retroreflective specifications:

**MINIMUM REFLECTIVE INTENSITY VALUES FOR HIGH PERFORMANCE
WIDE ANGLE PRISMATIC LENS SHEETING**

Minimum Coefficient of Retroreflection (Ra) cd/fc/sq.ft. (cd*lx⁻¹*m⁻¹)

Observation Angle	Entrance Angle	Fluorescent						
		White	Yellow	Red	Orange	Green	Blue	Orange
0.2	- 4	800	600	215	450	75	43	200
0.2	+30	400	340	100	250	30	20	120
0.2	+50	35	23	6.6	16	1.8	1.0	50
0.5	- 4	200	160	45	120	18	9.8	80
0.5	+30	100	85	26	70	10	5.0	50
0.5	+50	30	20	6.4	16	2.5	2.0	20

- 47. PAINTED LANE MARKING, 4-INCH, Item 616 060;**
PAINTED LANE MARKING, 4-INCH, DASH, Item 616 061;
PAINTED LANE MARKING, 6-INCH, Item 616 062;
PAINTED LANE MARKING, 6-INCH, DASH, Item 616 063;

These items shall comply with 616.16 of the Standard Specifications as herein modified.

A. DESCRIPTION

The items of work shall be as described in their title. Combining widths of Painted Lane Marking, inches, will not be used.

B. MATERIALS

Materials shall conform per 616.16(B) of the Standard Specifications.

C. CONSTRUCTION REQUIREMENTS

Per 616.16(C) of the Standard Specifications; and maintain 0.4 millimeter thickness of paint minimum.

D. MEASURE AND PAYMENT

The unit of measure and payment shall be per 616.16(D) of the Standard Specifications. Items 616 061 and 616 063 will be measured for the painted length only; the skipped segments will not be measured.

48. EPOXY PAVEMENT MARKING, 6-INCH, Item 616 000:
EPOXY PAVEMENT MARKING, 6-INCH, DASH, Item 616 000;
EPOXY PAVEMENT MARKING, 8-INCH, Item 616 000:

This Special Provision supplements and modifies 616.15 of the Standard Specifications.

A. DESCRIPTION

Work under these items consists of furnishing and applying stripes of epoxy pavement markings on PCC pavement surfaces. The Contractor shall furnish all supervision, labor, supplies, and equipment necessary for the proper conduct and completion of the work.

B. MATERIALS AND INSTALLATION

Supplementing and modifying 616.15(B) and (C), materials and installation of epoxy pavement markings shall be in accordance with one of the specifications contained in the Appendices to these Special Provisions.

C. MEASURE AND PAYMENT

Supplementing 616.15(E), payment will be made to include performance of work specified herein.

49. ELECTRICAL WORK, Item 618 002:

This Special Provision revises and supplements 618 of the Standard Specifications.

A. DESCRIPTION

It is the intent that all elements furnished and installed by the Contractor shall provide a functional roadway lighting system. Included are high pressure sodium vapor luminaires, conduit and conduit fittings, manholes, cables, hanger support system under bridge, and other essentials necessary for the satisfactory installation of all electrical equipment shown on the plans, whether specifically mentioned or not.

Before any electrical work is performed, the Electrical Contractor must be licensed and bonded in the District of Columbia and apply for an Application for Permit to perform work in the Public Space. A Master Electrician with a required license in the District of Columbia must sign this application. The Contractor may pick up the application at the Permit Branch, 614 "H" Street, NW, 1st floor, Washington, D.C. 20001. The Electrical Engineer, D.C. Department of Public Works (DCDPW) must approve this application in order to obtain a permit.

The Contractor, upon completion of the project, shall submit a complete set of as-built drawings of the electrical portion of the project to the Electrical Engineer, DCDPW. The set of drawings shall bear the signature of an officer of the Contractor's organization, certifying compliance with as-built construction.

The Potomac Electric Power Company will furnish power for the permanent roadway lighting system. The Contractor shall install main feeder cables as shown on the plans, make connection to lights at junction boxes or transformer bases, and extend feeders to PEPCO manholes, transformer vault, etc., for service connection by PEPCO as shown on the plans and as directed by the Engineer. Cable termination at PEPCO facility shall be coordinated with PEPCO. The Contractor shall reconnect new feeder to existing cable beyond the contract limit as required and as shown on the plans.

All work involved with PEPCO facilities shall be performed in conformance with the PEPCO requirements. The requirements are attached in the Appendices.

The DCDPW Electrical Inspector must inspect all electrical work; twenty-four (24) hours advance notice is required for inspection. The Office of the Electrical Inspector is located at the rear of 1338 G Street, SE, Washington, D.C. 20003, Telephone Number: (202) 698-3630.

The Contractor's employees, performing the electrical work, MUST be licensed in the District of Columbia as a Master Electrician, Electrician or Apprentice Electrician. When Apprentice Electricians are working, a Master or Journeyman Electrician MUST be on the project for personal supervision.

The Contractor shall have a copy of the drawings, Electrical Permit and all approved catalog cuts on the job at all times when electrical work is being performed.

Violation of any electrical codes, the Special Provisions, Standard Specifications of Highways and Structures (1996) or any other requirements will cause the work to be STOPPED IMMEDIATELY!

Removed existing standards, including luminaires, transformer bases and poles, shall be returned to DCDPW's storage yard as directed by the Engineer. Luminaires shall be boxed.

B. MATERIALS

All materials and equipment used in performance of work shall meet requirements as specified herein and requirements of 618. All materials shall be galvanized or corrosion-resistant. Materials shall be submitted for approval.

1. Extra Heavy Wall Fiberglass Reinforced Epoxy (XHW FRE) Conduit – Shall be as specified in 618.14 and revised as follows (used under the bridge only). Use PEPCO Standards for installation (See Appendix H).

Conduit and fittings shall consist of continuous E-glass roving encapsulated in an epoxy resin matrix manufactured for use at temperatures from -40°F to $+230^{\circ}\text{F}$. Conduit shall be filament wound and cured internally with steam at temperatures in excess of 300°F .

All fittings, adapters and bends shall be constructed of the same filament wound materials as the conduit. A complete range of fittings shall be made available including O-ring

expansion joint, Double Bell coupling, 5° coupling sleeve, male/female NPT adapter, bends in various radius, Split stop ring.

Each length of conduit shall be supplied with an integral wound tapered bell on one end and a spigot on the other end. Adhesive shall be used for all joint connections. Adhesive shall be supplied by the manufacturer of the conduit and shall have a pull out strength of a minimum of 1000 lb.

Conduit and fittings shall be marked with a label on the outside of the conduit. Such label shall contain the attached marking: (1) “outside conduit”; (2) nominal size’ (3) Manufacturer’ s name or trademark; (4) part number; (5) manufacture date; and (6) bends will also show degree and radius.

The conduit shall be available in 2” to 6” sizes.

The conduit shall conform to the following specifications:

- a. Wall Thickness – 0.250 ± 0.015 inch
- b. Tensile Strength, Longitudinal – 9000 psi
- c. Compressive Strength (perp.) – 18,300 lb/ft (2”c)
– 17,300 lb/ft (4”c)
- d. Compressive Strength, axial – 12,000 psi
- e. Modulus of Elasticity in Tension – 1,250,000 psi

XHW FRE conduit shall be installed on bridge structure. Conduit shall be supported on structure as shown on the plans and as indicated on typical details (PEPCO Drawings: “Fiberglass Conduit Installation Under Steel Girder Bridge”) attached in the Appendices.

- 2. Junction Boxes – shall be cast iron and as specified in 618.19.
- 3. Wires in 618.16 shall be revised as follows:

Wires in underground street light circuit shall be Type RHW-2, copper, stranded, conforming to IPCEA standard S-68-516/NEMA WC8 for insulation with Hypalon outer jacket.

- 4. PVC Conduit – Shall be as specified in 618.14.
- 5. Splices in 618.17 shall be revised as follows:

Splices in wires and cable shall be accomplished by means of compression pressure connectors. The connector shall be suitable for the size of wire used and shall be of one-piece tubular tinned copper construction. The indenture shall be such as to assure

maximum electrical connection and sufficient physical strength. The connection shall be covered with cross-linked Polyethylene shrinkable tubing. The tubing shall be heavy wall rated 600 V 90 C and conform to UL 486D, CSA C22.2 No. 198.2 and ANSI C119.1, and Western Underground Guides 2.4, 2.5 and IEEE 383.

If shrinkable tubing is not feasible for a particular connection, the connection shall be covered with No. 88 Scotch plastic electric tape as manufactured by Minnesota Mining Manufacturing Company, or type CW as manufactured by Plymouth Manufacturing Company, or approved equal. It shall be half-lapped into a thickness not less than 50 percent greater than the conductor insulation. An approved waterproof coating shall be applied on the outer cover. Wires shall be tagged as specified in 618.18.

6. Circuit Identification – Shall be as revised as follows:

Circuit identification shall be with a pan duct-type marker cable tie.

7. Conduit Expansion and Deflection Fittings – Shall be as specified in 618.15.

8. Ground rods in 618.11 shall be revised as follows:

All ground rods shall be copper clad, sized as shown in the contract drawings.

9. Lighting Standard in 819 shall be revised as follows:

Light poles shall be octafluted monotube steel type, 8 inches x 4 inches x 28 feet, with 8-foot and 12-foot arms. The post shall be according to D.C. Street Lighting Drawing No. 2 dated June 6, 1965.

The post shall include a welded simplex to accommodate one 8-foot or 12-foot single member arm.

The shaft shall be fabricated from 11-gauge steel meeting ASTM-A595 GR A with a yield point no less than 55 ksi. A cast steel anchor base shall be welded to the bottom of the shaft in an escalloped pattern. The base shall be breakaway type. The base shall have four (4) bolt holes, according to the drawing. The base shall be complete with ornamental bolt covers and the attaching screws.

The arms shall be fabricated from steel. The post and arm shall be cleaned of all rolled-in mill scale, impurities, and non-metallic foreign materials. The welds will be cleaned of all weld flux. The post and arm are to be degreased by immersion in a heated caustic solution, and then pickled in a heated sulfuric acid solution. The base will then be rinsed in a fresh water bath to remove any residual effects of the caustic or acid baths. The post and arm will then be immersed in a concentrated zinc ammonium chloride solution and allowed to air dry before being galvanized. The post and arm shall be hot-dip galvanized per the requirements of either ASTM A123 or ASTM A153. The post and arm galvanized coating shall be free of any debris or flux ash.

All galvanized exterior surfaces visually exposed are to be coated with a Urethane or Triglycidyl isocyanurate (TGIC) polyester powder to a minimum dry film thickness of 2.0 mils. Prior to application, the surfaces to be powder-coated are to be mechanically etched by brush blasting (ref. SSPC-SP7) and the zinc-coated substrate preheated to 232 degrees C for a minimum of one (1) hour in a gas-fired convection oven. The coating is electrostatically applied and cured by elevating the zinc-coated substrate temperature to a minimum of 177 degrees C in a gas-fired convection oven. Coating color shall be D.C. Gray.

The pole will either be wrapped in a 3/16-inch U.V. inhibited plastic-backed packing foam or cradled in a one-inch (1") rubberized foam base. The arms will be wrapped in a 5 mm U.V. inhibited plastic-backed packing foam.

Each pole base shall be provided with four cast escutcheon caps.

Transformer bases shall be steel and shall be hot-dip galvanized.

10. Luminaires - The luminaires shall be Horizontal Street lighting, rated at 400 watts, with a photoelectric cell receptacle.

A slip fitter for mounting shall be suitable for accepting 1-1/4 inch to 2-inch diameter pipe, and clamping shall be accomplished by 2 bolts accessible from inside and outside the unit. The mogul multiple porcelain lamp socket shall be mounted to permit 3 vertical settings and 4 horizontal settings for use with a high-pressure sodium vapor lamp. The Aezak reflector shall be mounted with gaskets, and the optical assembly shall contain a filter. The high-pressure sodium vapor ballast shall be mounted on a separable die cast component with disconnecting plugs. The luminaires shall be set to provide an IES type cut-off distribution pattern. The luminaires shall be marked, using standard EE-1 NEMA marking, showing the lamp type and wattage. The marking shall be affixed to the underside of the luminaire's housing and to the rear of the reflector. The luminaires shall be equivalent to G.E. M-400A power/door with Mag-Reg ballast.

The ballast shall be capable of starting and operating one 400-Watt high-pressure sodium vapor lamp from the available 60-Hertz power source within the limits specified by the lamp manufacturer. The ballast, including starting aid, must be able to protect itself against normal lamp failure modes. The ballast shall be capable of operation with lamp in an open or short circuit condition for six months without significant loss of ballast life.

Luminaires shall be provided with a 400-watt high-pressure sodium lamp and an ALR SST-PV fail-off photocell. Pole cable shall be #104, type RHW-2 as specified.

11. Anchor Bolts - Steel for anchor bolts shall conform to ASTM A36 Grade C of the size shown on the plans. Anchor bolts, nuts and washers shall be galvanized in accordance with ASTM A153. Bolts for mounting bracket arms shall be stainless steel and conform to ASTM A181, type 316.
12. Manhole - The Contractor shall furnish and install precast concrete or cast-in-place manhole and cast iron frame and cover to provide access to electric conduit as shown on drawing. The Contractor shall verify the exact manhole location in the field. Frame and cover shall be heavy-duty gray cast iron and conform to details indicated on drawings.

Frame and cover for electrical manhole shall be as shown on drawings. Gray iron castings shall be as per ASTM A48-64, Class 30A. The word "D.C. SLITS" in 1-inch letters is to be cast in the depression shown in center of the top of cover and to be flush with the surface of cover.

Construct manhole of class A or B concrete (cast-in-place) in accordance with the applicable parts of Section 703.

Place a 6-inch thickness of crushed-stone base under each manhole.

Construct cast-in-place manhole with forms, complete with centering cores and molds, to conform to shape, form, line, and grade required and maintain sufficiently rigid to prevent deformation under load. Make all joints leak proof and arrange horizontally or vertically. Place forms on successive units for continuous surfaces and fit to accurate alignment, assuring a smooth completed surface, free from irregularities.

At a convenient point close to wall, drive a 3/4-inch by 15-foot copper-clad steel ground rod into the earth as indicated in the plans. Extend ground rod approximately six (6) inches above the finished manhole floor. After completion of manhole provide a ground loop of No. 2 bare copper ground wire within manhole and connect to ground rod. Connect all conduit grounding bushings, cable supports, other metallic parts, splices, and ground wire run with each feeder to ground loop.

Size, space, and place reinforcing bars as indicated on drawings and as specified.

Set manhole frames to the required grade, in full bed of concrete mortar to make watertight connection.

Unless otherwise indicated, install tops of manhole covers in unpaved areas approximately 1/2-inch above finished grade, and in paved areas install flush with finished surface of paving.

Where duct lines enter the manhole, end conduits with PVC to rigid steel bell-end adapters and grounding bushings.

C. GROUNDING

Light poles shall be grounded as shown on the plans. Connections of all grounding cables shall be made by means of approved solderless mechanical connectors, or exothermically welded as shown on the plans.

The superstructure steel shall be thoroughly grounded with bare copper wire, standard soft drawn, size as noted, and braced to the structure and connected to ground rods as shown on the plans. The superstructure ground and bonding jumper copper wire, suitably looped, shall be installed to allow for expansion movement of the girders. Connections of all grounding cables shall be made by exothermic weld.

Fence shall be thoroughly grounded with bare copper wire, standard soft drawn, size as noted, and braced to the fence and structure and connected to the superstructure as shown on plans. Connections of all grounding cables shall be made by exothermic weld.

Grounding shall be accomplished as soon as materials are in place to which the grounding wires are to be attached.

All ground rods shall be copper-clad steel, size as noted. Connections of cable to ground rods shall be made by exothermic weld.

All the sizes called for in these specifications, or shown on the plans, are American Wire Gauge sizes.

The grounding wire or cables shall conform to the requirements of ASTM B33 or ASTM B189. Standard cable shall conform to the requirements of ASTM B8. Wires shall be soft drawn and stranded.

D. CONSTRUCTION METHODS

The extent of removal work is generally shown in the contract documents. Where routing of conduits is shown schematically, or the conduits are embedded, the Contractor shall field-verify that he has located the correct conduit.

Where existing wiring or equipment is disturbed beyond the contract limit due to construction, the Contractor shall restore the same temporarily during construction, and to original condition upon completion of the contract.

1. Service Continuity

Continuity of electrical service shall be maintained for all lighting, signs and power circuits affected by construction and not indicated for removal.

2. Phased Construction

The construction will be done in phases. The Contractor shall take necessary steps to ensure that continuity of power and miscellaneous circuits for signs, communication, and lighting are maintained. If necessary, temporary power sources shall be used for that purpose.

Generally, the limits of work have been delineated on the plans. Where not indicated otherwise, the Contractor shall pick up existing overhead and underground lines, conduit and wiring from contract limits and make it continuous with new work.

3. Installation

The Contractor shall furnish and install the specified conductors at the locations shown on the plans. Wire and/or cable shall be installed in continuous lengths without splices between terminations on wood poles and in pull boxes. Installation of conduits wires, boxes, and grounding shall be as specified in the D.C. Standard Specifications and as shown on the plans.

Conduits shall be connected to boxes by threading. Erickson couplings shall be provided as required. Where a slip hole is specified on the drawings, the connection shall be made with lock nuts, lead washer and bronze insulating bushing.

Conduits shall be connected to manholes with approved fittings. Conduit runs shall be as shown on drawing. Conduit runs across the roadway shall be encased in concrete with a thirty-six inch (36") – minimum – cover. All other underground conduits shall be installed at thirty inches (30") minimum below finished ground line, grade or pavement, or as indicated on the plans. Conduits shall be installed to slope toward handhole. The slope shall be at least three inches (3") per 100 feet. The trenches shall be excavated and shall be opened the complete length between ending points of runs before conduit is installed, all as approved by the Engineer.

Immediately after installation, the Contractor shall seal, by approved means, the ends of all conduit runs furnished and installed by him.

Connection of all grounding cables shall be made by means of approved solderless mechanical connectors, or exothermic welds as shown on the drawings.

The Contractor is responsible for notifying PEPCO to disconnect the existing service when removing the existing equipment, and to reestablish the service when the new equipment has been installed. Coordination with PEPCO will be the responsibility of the Contractor.

4. Painting

Painting shall be as specified in 618.20.

5. Tests

Testing shall be performed in accordance with 618.21. Defects in material or workmanship in the installation as disclosed by the tests shall be corrected or replaced by the Contractor without additional compensation.

E. MEASURE AND PAYMENT

The Electrical Work will be paid for at the contract unit price. This price will include furnishing and installing all materials, all labor, materials, tools, equipment, and incidentals necessary to complete the work specified herein and as shown in the plans, and as directed by the Engineer.

The Electrical work shall also include the disposal of existing roadway lighting system from locations indicated on the plans. Any salvaged materials considered by the Engineer to be useful to the District shall be delivered to a designated storage yard within the District of Columbia.

Excavation for light pole foundation will be measured and paid for under Item 205 002, STRUCTURE EXCAVATION.

Excavation for conduits and ductbanks will be measured and paid for under Item 207 002, TRENCH EXCAVATION AND BACKFILL. Sand backfill for cable conduit trench will be measured and paid for

under Item 208 002, PVIOUS FILL. Concrete backfill for duct banks will be measured and paid for under Item 703 002, PCC FOOTING.

Concrete for light pole foundation will be measured and paid for under Item 703 002, PCC FOOTING, which payment includes the concrete foundation complete in place with all necessary electrical conduit, anchor bolts, ground rod, and other work as required in the plans.

Reinforcement for light pole foundation and duct banks will be measured and paid for under Item 704 002, REINFORCEMENT STEEL. Reinforcement shall be placed in accordance with details shown on the plans, and as outlined in 704.

50. TEMPORARY LIGHTING, Item 618 003:

The temporary lighting shall meet the applicable requirements of 618 of the Standard Specifications and Special Provision "ELECTRICAL WORK".

A. DESCRIPTION

The Contractor shall provide temporary roadway lighting until complete permanent lighting is in service. Temporary lighting shall consist of combinations of existing, new and temporary facilities as necessary to provide not less than 2-foot candles on the functioning travel lanes.

The Contractor shall bear all costs for service and maintenance of temporary lighting. The power source may be existing or new roadway light circuits or portable generators. Portable generators when furnished shall be maintained to provide uninterrupted service during hours of darkness.

The Contractor shall coordinate with PEPCO for temporary lighting circuits. All PEPCO charges for temporary lighting are the responsibility of the Contractor.

The Contractor shall submit to the Engineer his/her proposed lighting (temporary) construction plans for all phases of the work. The plans shall include but not be limited to fixture layout, wiring diagrams, power source, lighting calculations, and methods of maintaining fixtures and power sources.

After the permanent lighting system has been installed, the Contractor shall remove the temporary lighting equipment. The poles, cables and other appurtenances shall remain the property of the Contractor and shall be removed from the site. The disturbed areas shall be restored to the existing or proposed condition as directed by the Engineer.

B. MEASURE AND PAYMENT

The unit of measure will be the job. No separate measure will be made. Payment for TEMPORARY LIGHTING will be made at the contract lump sum price, which payment will include all labor, materials, tools, equipment, PEPCO charges, and incidentals necessary to complete the work specified.

51. REVERSIBLE LANE SIGNAL SYSTEM WORK, Item 618 113:

This Special Provision supplements and modifies 618.

A. GENERAL

Work under this item consists of constructing a temporary reversible lane system along New Hampshire Avenue, N.W. over the CSX Railroad Bridge prior to the start of the bridge rehabilitation and removal of the reversible lane system upon completion of the New Hampshire Avenue Bridge and acceptance for maintenance by the Engineer. In addition, the contractor shall replace the communications cable (see communications cable and conduit plans) in new conduit installed under the CSX Railroad Bridge (see electrical plans).

A standard Type 170 controller in a standard Type 336S cabinet will be mounted on a temporary portable concrete base to operate the reversible lane system. The reversible lane system shall feature 24 inch square reversible lane signal heads with two (2) and three (3) indications, i.e., a red and yellow "X" and a green down arrow (see plans for specifics). All cabling shall be either overhead or placed in flexible PVC conduits on top of the existing sidewalk.

The reversible lane system is designed to be dual wired to facilitate the various phases of construction and to provide sufficient overhead clearances for construction vehicle operations, i.e., the first phase of construction is to replace the east side of the existing New Hampshire Avenue bridge deck over the CSX Railroad tracks, therefore the reversible lane system will operate using the proposed cabling or wiring running along the west side of New Hampshire Avenue, N.E. During the second phase of construction the opposite side of the bridge is under construction, therefore the reversible lane system will operate from the cabling placed along the east side of the bridge.

The Contractor shall request a new temporary power source from PEPCO and shall pay all associated fees.

The Contractor shall furnish and install all materials and labor, except those identified as being provided by the Potomac Electric Power Company and by the Traffic Signal System Division, D.C. Department of Transportation. Work shall be coordinated with the Special Provision., Electrical Work.

Reversible lane signal system work is to be performed conforming to the existing roadway geometry. This work is being performed in conjunction with the rehabilitation of the New Hampshire Avenue Bridge over the CSX Railroad tracks. Whenever the word "proposed" is used as a prefix for reversible lane signal system equipment on plans, it shall be understood that the Contractor shall furnish and install new equipment.

B. CONDUIT

Conduit shall conform to the requirements of 618.14, "Conduits." The Contractor is directed to the "Electrical Work" section of these Special Provisions for additional information regarding conduits.

C. MANHOLES

Electrical manholes will conform to the specifications shown on Sheets 19 and 20 of Drawing S- 2100 and these Special Provisions. The Contractor is directed to the “Electrical Work” section of these Special Provisions for additional information regarding manholes.

D. ELECTRICAL CABLE

Electrical cable shall conform to the requirements of 618.16, "Wiring System"; 618.17, "Cable Connections"; and 618.18, "Circuit Identification"; and these Special Provisions. The Contractor shall furnish a manufacturer's certification that the cables conform to the latest requirements of IMSA or ASTM Specifications referenced for each type of cable.

As part of this job, the Contractor shall be required to furnish and install two (2) different types of cable:

- Cable running between the controller, the reversible lane signal heads and, the articulated R3-5 sign.
- Communications cable running between the controller and other controllers or termination cabinets.

1. Cable Running Between Reversible Lane Signal System Controller & Reversible Lane Signal Heads

The cable running between the reversible lane signal system controller and the reversible lane signal heads and the articulated R 3-5 sign shall be 7-conductor 14 AWG stranded cable conforming to the latest requirements of IMSA Specification 19-1. All cables shall run overhead along the temporary wood poles installed to support the reversible lane signal heads with the exception of the cabling across the New Hampshire Bridge structure; these cables shall be installed in flexible PVC conduit and run on top of the existing sidewalk. The Contractor shall purchase the specified cable.

The reversible lane signal system cabling shall be dual wired to facilitate the change in the maintenance of traffic phases from one (1) to two (2). The reversible lane signal heads and articulated sign shall be wired from both sides as shown on the cabling schematic on the reversible lane signal system plans. Each cable shall be tagged according to these Special Provisions to enable the DDOT signal shop to switch the reversible lane signal heads feeds to correspond to the change in maintenance of traffic phases. Each cable not in current use shall be tagged and capped with appropriate screw-on terminal ends.

The installation of signal cable shall be performed in accordance with the following provisions and the reversible lane signal system plans.

a. Pulling Cables

- (1) Cables shall be installed and pulled so as not to damage the cable or exceed manufacturer's recommendations for bending radius or pulling tension.
- (2) Cables shall be pulled in the conduit with a cable grip designed to provide a firm hold on the exterior covering of the cable. Cable shall be pulled with a minimum of dragging on the ground or pavement. Wire Pulling Compound shall be used to facilitate the pulling of cable.
- (3) Cables shall be looped in and out of the controller cabinets, manholes, hand holes, and Poles to provide adequate slack and the least amount of stress on conductors and connectors. Cable runs shall be continuous with no splices in the conduit, manhole, hand hole or overhead runs.
- (4) Lubricants for assisting in the pulling of jacketed cables shall be those specifically recommended by the cable manufacturer.
- (5) Reversible lane signal cables shall not be spliced unless approved by the District. All approved splices shall be made using Scotchcast 3M 82-A Series Power Cable Splice Kits or approved equivalent, and will be installed in accordance with the manufacturer's recommendations.

b. Cable Tagging

All Traffic Signal cables are to be tagged in each manhole and controller in accordance with the instructions below.

Traffic Signal System cables entering or leaving a traffic controller or termination cabinet shall be tagged to identify the circuit number and signal number as designated by the traffic signal controller circuit and signal number. Communications cable shall be identified by (1) trunk and (2) a cable number pair.

Identification Tags

Identifies each signal cable circuit at the controller	<u>CBL 19 SIG 18</u>
Identifies reversible lane signal cables between the controller and the designated reversible lane signal head	<u>SIG</u>
Identifies the traffic signal communications cables in all manholes, termination cabinets, and controllers.	<u>50 T 12</u>

c. Reversible Lane Signal Cable Installation:

The following procedures will be strictly adhered to when wiring electrical devices to operate as part of a reversible lane signal system.

- (1) All cable segments shall be identified with a waterproof tag securely affixed to the cable for each signal head, and at each temporary wood pole.
- (2) All cable shall satisfactorily pass the megger test. The Contractor shall replace, at no cost to the District, cable failing the megger test, whose value shall be established by the Owner.

d. Reversible Lane Signal Heads

The following are the procedures to be followed:

- (1) All cable shall contain seven (7) conductors.
- (2) The cable to be used shall be 14 AWG, stranded, THHN, manufactured according to the latest IMSA Specifications.
- (3) The seven conductors are color coded as follows: Red, Orange, Green, Blue, Black, White, and White with a Black tracer.
- (4) The conductor coded with White insulation shall be the system neutral.

Note: Existing seven-conductor cable may be color-coded as follows in some cases: Red, Amber or Yellow, Green, Red w/Black tracer, Black, Green w/Black tracer and White.

- (5) The conductors coded with Red, Orange, and Green or Red, Amber or Yellow and Green insulation will be used for reversible lane signal heads that control traffic moving in a north-south direction.
- (6) The conductors coded with White w/Black tracer, Blue w/Black, Green w/Black tracer and Black will be used for vehicle signal heads controlling traffic in the east-west direction.
- (7) Unused conductors to each signal head will be reserved for use in the event that the sequence of operation is modified and additional traffic signal sections are required, or if one or more of the conductors currently in use fail.
- (8) If the new and existing cables (for temporary reversible lane signal operation) installed by the Contractor in accordance with the above policies malfunction, the following policies apply:

- (a) All new cable must be replaced if found defective or damaged.
 - (b) If there are a sufficient number of unused conductors in the existing cable, they will be used in lieu of the defective conductors. The cable shall be tagged in the controller cabinet to indicate which conductors are defective.
 - (c) If there are not enough unused conductors in the existing cable to replace the defective conductors, a new segment of 7-conductor cable shall be pulled from the controller cabinet to the signal head.
 - (d) Under no circumstances will it be permissible to replace the defective segment of cable with a new segment of cable utilizing straight splices connecting the new with the old cable.
- (9) Unless otherwise specified in the plans, all cable for reversible lane signal heads is to be furnished new and installed by the Contractor.
- e. Traffic Signal Cable Color Code

(1) International Municipal Signal Association (IMSA) Color Code

<u>Conductor Use</u>	<u>IMSA Color</u>
NB/SB Traffic	Green, Orange, Red
EB/WB Traffic	Blue, Black, White/Black
AC-/AC Ground	White
NB/SB Pedestrian	Green, Red
EB/WB Pedestrian	Blue/White/Black
Directional Conductors	Orange, Black
NB/SB Top Beacon	Red
NB/SB Bottom Beacon	Green
EB/WB Top Beacon	White/Black
EB/WB Bottom Beacon	Blue

(2) Old Cable Color Code

NB/SB traffic	Green, Yellow, Red
EB/WB traffic	Green/Black, Black, Red/Black

f. Messenger Cable

- (1) The messenger cable shall be used to support all cable indicated on the plans as overhead cable. The messenger cable shall include devices such as rings or lashing used to attach the cable and shall run from structure to structure without splicing. Prior to erecting messenger cable, the Contractor shall determine the length of the strand required to span the distance between the

poles indicated on the drawings, allowing a sufficient additional length of span wire to compensate for sag.

- (2) No messenger strands shall be erected which would lie on, or are liable to rub on, a utility company's wire or cable, tree limb, etc. If a messenger strand is erected within 6 inches (6") of any other cable, wire or structure, it shall be protected with plastic wire guards.
- (3) An additional message cable shall be required to tether the reversible lane system signal heads. This messenger cable shall be at least ¼inch in diameter and meet the requirement of the 3/8-inch messenger cable.
- (4) The messenger cable shall be 3/8 inches in diameter. The messenger cable shall be fabricated of seven steel wires, Class A galvanized in accordance with ASTM A-475, and twisted into a single concentric strand. The tensile strength of 3/8-inch messenger cable shall equal or exceed 6,950 pounds.
- (5) The Contractor is to provide certification that the messenger cable has been tested and meets the required tensile strength. The Contractor shall provide the Engineer with five (5) two-foot (2') samples of messenger cable from each shipment before installation.

2. Cable Running Between Traffic Signal Controllers and Termination Cabinets

- (1) Interconnect Cables between Controllers: Underground communications cables shall meet all of the requirements of IMSA 40-2, or REA PE-39. Aerial (overhead) communication cable shall meet all of the requirements of IMSA 40-2 or REA PE-22.
- (2) Cable shall be pulled in the conduit with a cable grip designed to provide a firm hold on the exterior covering of the cable. Cable shall be pulled with a minimum of dragging on the ground or pavement. Powdered soapstone, talc or other approved lubricants shall be used to facilitate the pulling of the cable.
- (3) Communications cable shall also be installed on messenger cable when shown on the plans as overhead cable. Cable shall be looped in and out of controller cabinets, and ground-mounted termination cabinets specifically installed as termination points or splice points as indicated on the Plans.
- (4) Overhead cable shall be secured to the messenger cable using non-corrosive metal lashing as indicated on the Overhead Cable Installation Sheet of the Plans. Drip loops shall be provided in overhead cables as required by the Plans. Drip loops shall be made with a bending board or other approved jig with radii within the manufacturer's specified limits.

- (5) Communications cable shall be installed for the traffic signal control system. Cable runs shall be continuous with no splices in the conduit, pull boxes, or overhead runs.
- (6) All large cables, over 25 pairs, shall terminate in termination cabinets only. Connection between the terminating cabinets and the intersecting controllers shall be made with 12-or 25-pair cables only as indicated on the Cable Routing Sheets of the Plans by the District.
- (7) The communications cable in an intersection controller shall be terminated by the District on a terminal block mounted in the cabinet. The cable connection between the terminal block and the communications modem shall be through the controller's communication connector (C2).
- (8) Cable ends shall be taped to exclude moisture and shall remain so until terminal equipment is attached by D.C. personnel. For cable connections in termination cabinets, connectors approved for outside use shall be used.
- (9) Cables shall be looped in and out of controller cabinets, termination cabinets, and pull boxes to provide adequate slack and the least amount of stress on the conductors and connectors.
- (10) If an emergency cable condition exists, where a splice is permitted in underground and overhead runs, the splices should be made in the appropriate type manner using a 3M kit, or an approved equivalent waterproof splice kit conforming to the requirements of the National Electric Code (110b.14). Boxes or kits should be of sufficient size to allow free space for all conductors therein. All splices shall be capable of operation when submerged in water. Splice ends of overhead cable shall be left in the turned-up position. All splices and conductors, including spares, shall be made waterproof and mechanically and electric ally secure.
- (11) Before any cable is pulled into the ducts, provisions shall be made for supporting the cable ends on racks in the manholes.
- (12) Cable shall not be allowed to lie on the manhole floor.
- (13) The channels that support the racks shall be securely fastened to the manhole wall with expansion bolts. The spacing between racks adjacent to the proposed cable joint shall be a minimum of 3 feet (3').
- (14) All cable shall satisfactorily pass the megger test. The Contractor shall replace at no cost to the District cable failing the megger test, whose value shall be established by the District.

- (15) Communications cable shall be furnished on reels and pulled with a minimum of dragging on the ground or pavement.
- (16) Where communications cable is shown running to a utility pole from an underground conduit, vertical aluminum risers, complete with 90 degree-bend, shall be installed for each conduit. The riser will be installed to a point within 3 feet of the messenger cable, or as directed by the Engineer. The exposed end of the riser shall be fitted with a weather head, to prevent the entrance of water.

3. Guarantee

The manufacturer of cable under this specification shall agree to replace any length of cable found to be defective in workmanship or material within one year from the date of delivery to the user.

E. BONDING AND GROUNDING

Metallic cable sheaths, metal conduit, non-metallic conduit ground wires, controller cabinets, and termination cabinets shall be made mechanically and electrically secure to form a continuous system, and shall be effectively grounded. Bonding and grounding jumpers shall be No. 6 AWG copper wire.

Grounding of conduit, service equipment and the grounded conductors at service point shall be as required by the National Electric Code, District of Columbia Code and the serving utility.

F. ELECTRICAL SERVICE

This item consists of providing a complete electrical service installation for supplying power from the utility power source to traffic signal controllers at intersections indicated as controller relocations on the plans and in conformance with these Special Provisions. This item includes proper grounding of all equipment as specified.

The Potomac Electric Power Company (PEPCO) shall perform any and all modifications to the secondary electrical service cable between the energy source and the traffic signal controller. The modifications shall include:

- The installation of new secondary electrical service cable between the energy source and the new or relocated traffic signal controller mounted on a new (temporary or permanent) foundation, and
- The removal of existing secondary electrical service cable between the energy source and the traffic signal controller at its previous location.

The Contractor shall make payment directly to PEPCO for services performed in support of this contract. Payment is reimbursable under pay Item 618 999.

Payment shall be made for the following work only:

- Service disconnections and removals
- Service connections and installations
- Manhole wall clearing by PEPCO forces during the preparation of the manhole wall for new conduit penetrations
- Inspection and supervision by PEPCO during manhole wall penetration and whenever cable is installed or removed within a PEPCO conduit or manhole.

All work within PEPCO facilities shall be performed in conformance with all PEPCO requirements. The Contractor shall initiate communication with PEPCO as early as possible after execution of this contract, to establish scheduling guidelines and to exchange telephone numbers between the principal points of contact. The power company representative is:

Mr. Joseph D. Schall
Manager, Customer Design - DC
Potomac Electric Power Company
701 9th Street, Room 6005
Washington, D.C. 20068
Telephone Number: (202) 872-2844

Prior to undertaking any electrical work, the electrical contractor shall be licensed and bonded in the District of Columbia, and shall apply for and receive an electrical permit to perform electrical work in public space. An electrical permit may be obtained by contacting the Traffic Services Division located in the rear of 1338 G Street, S.E. on (202) 727-5868. A Master Electrician or an Electrical Engineer licensed to conduct business in the District of Columbia must sign the electrical permit application.

The Contractor's employees performing the electrical work must be licensed in the District of Columbia as Master Electricians, Electricians, or Apprentice Electricians. When Apprentice Electricians are working, a Master Electrician or an Electrician must be on the job site for project supervision. When electrical work is being performed, the Contractor shall have a copy of the project drawings, the electrical permit, and all approved material certifications (catalog cuts) on the job site at all times.

Electrical Inspectors of the D.C. Division of Transportation (DDOT) shall inspect all the electrical work. Twenty-four (24) hour advance notice is required to schedule inspection appointments. Appointments shall be scheduled by contacting the Traffic Signal System Division at (202) 939-8087.

G. TRAFFIC SIGNAL HARDWARE PROCUREMENT AND INSTALLATION

1. General Notes

- a. Unless otherwise noted in the plans, in the reversible lane signal system installation detail drawings, or in these Special Provisions, the Contractor shall be responsible for furnishing all proposed materials associated with the reversible lane system signal work.
- b. The Contractor shall be responsible for submitting to the Traffic Services Administration, Traffic Signal System Division, catalog cuts and/or samples of all materials to be furnished by the Contractor. The Contractor may not begin the work until written approval is obtained from the Traffic Signal System Division.
- c. The text of these Special Provisions contains technical specifications for some of the items to be furnished by the Contractor. The remainder of this section contains technical specifications for other materials to be furnished by the Contractor.

2. Astro-Bracs or Approved Equivalent

- a. The Contractor shall furnish and install Astro-Bracs or approved equivalent for all span wire mounted reversible lane signal heads (24" Fiber Optic).
- b. The Astro-Bracs or approved equivalent shall be used to affix the reversible lane signal system signal heads to the span wire at locations shown on the plans.

3. Reversible Lane Signal Heads

The Contractor shall provide manufacturer catalog cuts for approval prior to ordering. The reversible lane signals shall feature fiber optic indications as shown on the reversible lane signal plans.

a. Purpose

These specifications describe the minimum acceptable design and operating requirements for 24" reversible lane signal heads.

b. General Requirements

- (1) At a minimum, the reversible lane signal heads and lenses must meet the latest Institute of Transportation Engineers (ITE) Standard.
- (2) The material used in the manufacture of the signal heads shall be UV stabilized, virgin polycarbonate resin.
- (4) All hardware shall be stainless steel, including hinge pins.
- (5) A minimum of six-position terminal block shall be provided in the middle section of the signal head assembly.

c. Per-Fabrication Submittals

The Contractor will be required to obtain prior approval from the District of Columbia before the reversible signal housings are fabricated. The Contractor shall submit color chips at least one week in advance of the start of manufacturing process.

d. Warranty

The manufacturer shall warrant the device to be free from defects in material and workmanship (except bulb burn-out) for a period of two (2) years from date of shipment. Any failure of the device within this period will be repaired, including labor and parts, by the manufacturer at total cost to the manufacturer.

e. Performance Testing

The District of Columbia reserves the right to receive on demand, at no cost to the city, a test report from an independent laboratory certifying that the equipment supplied meets the foregoing specifications.

5. Reversible Lane Signal Mounting Hardware

a. The Contractor shall furnish all hardware required to mount reversible lane signal heads and fiber optic electronic signs to span wires.

b. Handling

Handling and shipping shall not be performed until thoroughly dry. All items shall be wrapped for shipment, delivered, and unloaded in a manner to reduce abrading the coatings.

c. Shop Inspection

All items shall be of domestic manufacture, with the manufacturer providing full access to Washington, D.C. inspectors during fabrication and finishing.

H. FURNISH AND INSTALL TYPE 170 TRAFFIC SIGNAL CONTROLLER WITH A MODEL 336-S CABINET

1. Work relating to the traffic signal controller shall be performed during the temporary stage.
2. During the first phase of the temporary reversible lane system, the Contractor shall provide a new Type 170 traffic signal controller with a Model 336-S Cabinet mounted a temporary, portable concrete base. The Contractor shall furnish and install the temporary, portable concrete base that must conform to the drawing found in the Appendix to this document.

3. The Contractor shall deliver the proposed controller to the office of the Traffic Signal Maintenance Branch where it will be prepared for operating the traffic signal sequence of operation for this intersection. The DDOT will notify the Contractor when the controller has been prepared and is ready to be picked up by the Contractor.
4. DDOT technicians shall be responsible for making all cable connections in the controller cabinet during both the temporary stage and the final intersection restoration stage.
5. The Type 170 Traffic Signal Controller with a Model 336-S Cabinet shall conform to the technical specifications found in the Appendix of this document.

I. INSTALLATION OF TRAFFIC SIGNAL SYSTEM COMMUNICATIONS CABLE

1. Work on the Traffic Signal Communications System shall be performed during temporary stages (construction Phases 2, 3, & 4) and during the final bridge rehabilitation stage.
2. During temporary construction stages (Phases 2, 3, & 4) the communications cable located in conduit in the existing sidewalk on the Westside of the New Hampshire Avenue Bridge over the CSX Railroad tracks shall be relocated overhead along the reversible lane system wooden poles and in a flexible PVC conduit onto the eastside sidewalk that was constructed during the initial phase on construction. The Contractor shall splice a new segment of 25 pair communications cable onto the existing segment currently in the PEPCO manhole and the PEPCO Pole No. 797409-8305 mounted termination cabinet. The new segment of cable shall be of sufficient length to reach the cabinet at its new location and provide 50 feet of slack cable.
3. During the final intersection restoration stage, when the new communication conduit is installed, the Contractor shall furnish and install a new segment of 25 pair communications cable through existing and proposed conduit between the pole mounted terminations cabinet and the traffic signal controller located at Peabody Street, N.E. as identified in the plans.
4. This work item shall also include the removal and disposal of existing and temporary communications cable that will be replaced by the new cable run.
5. The Contractor shall be responsible for maintaining the splice between the old and new cable during the temporary construction stage. DDOT will notify the Contractor in the event of a loss of communication so that repairs can be made.
6. DDOT forces shall disconnect the old and connect the new communications cable in all controller and termination cabinets. The Contractor shall pull the cable into the cabinets.

J. MEASURE

The unit of measure for Reversible Lane Signal System Work, Item 618 113, will be either each or linear foot for temporary wood poles, reversible lane signal heads, articulated signs, all cabling associated with the reversible lane system, and the reversible lane signal controller. All measurement of conduit either temporary or permanent shall be as specified in the "Electrical Work" section of these Special Provisions.

K. PAYMENT

Reversible Lane Signal System Work will be paid for at the contract unit price. This price will include furnishing and installing all materials, excavation, backfilling, all labor, materials, tools, equipment, and incidentals necessary to complete the work specified herein and as shown in the plans, and as directed by the Engineer.

Permanent repairs to pavements, sidewalks, curbs and gutters, and lawns shall be paid for under the respective items of work included in the contract.

52. PAYMENT TO PEPCO FOR CONNECTION AND DISCONNECTION OF SERVICE TO ROADWAY LIGHTING AND REVERSIBLE LANE SIGNAL SYSTEM WORK, Item 618 999:

A. DESCRIPTION

This Special Provision directs payment to the Potomac Electric Power Company (PEPCO) for making service connection and disconnection to streetlights and other PEPCO work exclusive of the Temporary Lighting made necessary in this contract. PEPCO shall submit invoices for this work to the Contractor for payment. Upon receipt of said invoices, the Contractor shall pay PEPCO in full for the work as required in the Contract. After payment to PEPCO has been made, the Contractor shall submit the invoices to the Engineer for reimbursement by the District. The District will pay the Contractor the face amount of the invoices. No Contractor mark-ups will be allowed.

B. MEASURE AND PAYMENT

The District will insert an estimated cost for this work in the Pay Item Schedule found in the "Bid Forms and Proposal" document. No action is required of the bidder. The actual cost paid to PEPCO for connection and disconnection of service will be the face amount of each invoice submitted to the Contractor by PEPCO. No reimbursement will be made to the Contractor for his expenses, if any, incurred for this work.

53. TRAFFIC SIGN PANELS, Item 620 014:

This Special Provision modifies and supplements 620.02 of the Standard Specifications.

Modifying 620.02(B), reflective sheeting for traffic Sign Panels shall meet requirements of AASHTO M 268, Type III High Intensity.

Supplementing 620.02(E), payment will be made to include performance of work specified herein.

54. ENGINEER'S FIELD FACILITIES, Item 626 002:

The engineer's field facilities shall be in accordance with 626 of the Standard Specifications except as modified or supplemented by this Special Provision.

A. GENERAL

The Contractor shall construct the Engineer's Field Facility in the vicinity of the project. The location of the facility shall be as close as possible to the existing right of way line.

The engineer's field facility shall be a modular unit installed as directed by the Engineer. The modular unit shall have two main rooms and another room containing sanitary facilities. One of the two main rooms shall have an area of 125 square feet and shall have a separate entrance. The other main room shall have an area of 360 square feet and shall have a separate entrance. The room with the sanitary facilities shall be connected to the larger room.

In the second paragraph of 626.01, change the word "bottom" to "bottled spring" and the number "1" before fireproof to "2."

The Contractor shall supply the following:

One (1) new instamatic camera with batteries and two (2) rolls of film.

One (1) Xerox copier type 3100 or equivalent.

A communication system consisting of eight (8) relief units with carrying cases and one (1) base station to be operational within construction limits.

A separate phone line for the fax machine.

B. SITE WORK

The Contractor shall perform the following work to facilitate site preparation and restoration:

1. Perform clearing and grubbing work.
2. Grade area as approved by the Engineer.
3. Construct new surface comprised of borrow soils base and crushed stone base, if required.

4. Final surface shall be free draining and suitable for use as support of engineer=s field facilities.
5. Install field facilities.
6. Remove field facilities.
7. Restore area to existing conditions as approved by the Engineer.

C. ADDITIONAL FIELD OFFICE

The Contractor shall supply an additional field office for Inspectors. The modular unit shall have a minimum of 1000 square feet of floor area and a minimum of 3 rooms (maximum 5 rooms). The Inspector's field office shall also have adequate sanitary facilities, and bottled spring water.

D. TELEPHONE SERVICE

Separate telephones with two (2) lines with extensions shall be installed in each field office trailer with a minimum of three (3) telephones in each.

E. FURNITURE

Supply at least six (6) desks with drawers, six (6) swing type chairs and an additional ten (10) folding chairs. Supply one (1) rack for shop drawings with twelve (12) hanging rods and one (1) drawing table with one (1) high chair for each field office trailer.

F. METHOD OF MEASUREMENT AND PAYMENT

Modify 626.03 of the Standard Specifications to include the following:

The lump sum payment for Engineer's Field Facilities will include all grading, borrow soils base, excavation (with disposal of extra material), topsoil, hydroseeding, and other elements of work utilized in the preparation and restoration of the site for the facilities.

55. ADDITIONAL LABORATORY EQUIPMENT, Item 626 003:

This Special Provision supplements the requirements of 626 of the Standard Specifications.

A. DESCRIPTION

The equipment required by 626.01 of the Standard Specifications will be supplemented with the following equipment:

One (1) mechanical shaker with the following screen tray sizes, 50 mm, 37.5 mm, 25 mm, 19 mm, 12.7 mm, 9.5 mm, 4.75 mm, 2.36 mm, 2.00 mm, and pan.

For asphalt plants, the following equipment, conforming to the requirement of AASHTO T 245 shall be required:

Three (3) Marshall Test Specimen Mold Assemblies

One (1) Marshall Specimen Extractor

One (1) Marshall Compaction Hammer, including Pedestal

An indoor/outdoor capillary window thermometer for measuring weather temperatures.

All additional equipment included under this item will remain the property of the Contractor or the supplier to the Contractor.

B. MEASURE AND PAYMENT

The unit of measure for ADDITIONAL LABORATORY EQUIPMENT will be the job. Payment for ADDITIONAL LABORATORY EQUIPMENT will be made at the contract lump sum price, which payment will include all equipment as described in this Special Provision.

56. PROGRESS PHOTOGRAPHS, Item 626 011:

This Special Provision supplements 108.08 of the Standard Specifications.

A. GENERAL

Approximately four hundred (400) photographs will be required. Approximately forty (40) photographs shall be taken prior to the beginning of any work and thirty (30) photographs will be required after construction is completed. The remainder shall be taken throughout the construction work on a monthly basis.

In addition, the Contractor shall develop a comprehensive photographic record on National Park Service (NPS) property during construction. These records will serve as a basis for the restoration of the area upon completion of the project. Two (2) sets of color photographs shall be submitted to DCDPW not later than two (2) weeks after receipt of Notice to Proceed prior to construction initiation.

B. MEASURE

The unit of measure will be the job.

C. PAYMENT

Payment for PROGRESS PHOTOGRAPHS will be at the Contract Lump Sum Price, which payment will include all labor, tools, equipment and incidentals needed to produce the required photographs.

57. AS-BUILT DRAWINGS, Item 626 015:

A. GENERAL

During the entire construction period, the Contractor shall maintain one complete record set of Contract Drawings on which he shall annotate, in a timely manner, all deviations, field changes, changes accomplished by change order, as-constructed depths of footings and other structural elements, horizontal and vertical locations of underground electrical and utility facilities referenced to survey data and temporary construction left in place (if permitted).

B. METHODS

The Engineer will furnish to the Contractor one reproducible set of Mylar or vellum Contract Drawings. The Contractor shall make permanent ink modifications to the reproducible set by adding the revisions from the annotated record set employing skilled technicians. The completed set shall be certified As-Built by an officer of the company using a stamp as follows:

AS-BUILT	
<u>(Date)</u>	
I certify that this drawing accurately depicts the work as constructed.	
<u>(An Officer of the Contractor's Company)</u>	
Signature	Title
<u>CONTRACTOR'S NAME</u>	

When the contract is completed and the revisions have all been transcribed to the reproducible set, the Contractor shall scan each drawing and copy the electronic files on a CD-ROM. The Contractor shall then prepare and deliver to DCDPW's Design and Engineering Division two CD ROM copies of the electronic files of the final As-Built drawings, the modified reproducible set, five (5) bound half-size sets on bond paper and one additional CD ROM with As-Built information of street lighting plans only.

C. MEASUREMENT AND PAYMENT

The unit of measure will be the job. No measure will be made for this work. Payment for AS-BUILT DRAWINGS will be made at the Contract Lump Sum Price, which payment will include all provisions for completing the work as required herein.

58. PROTECTION SHIELDS, Item 630 002:

The protection shields shall comply with 630 of the Standard Specifications except as herein modified or amended.

The applicable provisions of CSX Transportation “CRITERIA FOR OVERHEAD BRIDGES” and “ADJACENT CONSTRUCTION DESIGN MANUAL” of METRO should be utilized in designing the protection shield.

The Protection Shield shall be installed and used in stages; however, any portion of the structure where demolition and / or construction operations are taking place shall have the protection shield installed above and/or around the CSX and METRO tracks prior to the start of any work.

A. CONSTRUCTION REQUIREMENTS

The use of protection shield and filter fabric for temporary construction protection of the tracks is acceptable to CSX. The Contractor shall place a horizontal and vertical demolition shield under and over the edge of the bridge. Filter fabric should be tacked to the crossties in the gauge or between the rails and over the ballast on the field side or outside each rail. The field side should be held in place by a tack board at the toe of the ballast section. The cover should extend a minimum of ten (10') feet on each side of the edge of the bridge. Tack will be cleared of large debris immediately and swept clean each evening.

1. The intention of constructing temporary bents around the tracks will have to be reviewed by CSX prior to the start of work. All temporary horizontal construction clearances are subject to CSX review and approval. Contractor will secure permission in writing from the railroad for erection of temporary structures, scaffolding, or rigging in, over, under or adjacent to railroad property. Forms for concrete, false work and bracing on or over railroad property shall be approved by railroad with respect to any reduction of clearance from that indicated on plans.
2. The Contractor shall conduct his operation both on and off the right of way so that no earth, mud, silt or other foreign matter will be deposited on railroad ballast or cause flooding or saturation of the subgrade. If the railroad ballast becomes fouled due to Contractor's operations, the railroad with its own forces will remove the fouled ballast and replace it with clean ballast. The charges for this work will be billed directly to the Contractor.
3. The protection shield shall be of rigid construction and placed underneath the existing and proposed utilities. The design shall conform to the requirements spelled out in the above-referenced documents. The installation of the protection shield shall not reduce the underclearance of the bridge. However, any temporary reduction in the clearance is required based on the means and methods of the Contractor, the approval of the system shall undergo review and approval by the Department and the railroad agencies involved. The design and layout of the system shall follow CSX railroad and METRO requirements in addition to the requirements of 703.16, FALSEWORK AND CENTERING.

4. In the event that a protection shield supported on the bridge girders is utilized during deck removal, when the bridge deck is removed the steel girders and cross frames are cleaned of all demolition debris, the Contractor may remove the protection shield just prior to removal of the existing structural steel.

The Contractor shall submit design computations and working drawings of the protection shield he intends to use and obtain Department's approval before construction

The Contractor shall obtain necessary temporary easement from WMATA for any erection or removal of any overhead protection shields for construction.

B. MEASURE AND PAYMENT

No measurement will be made for this item. The work under this item will be paid at LUMP SUM.

59. H PILES – HP 12 x 53, Item 701 006;

H PILES – HP 12 X 74, Item 701 008;

This Special Provision supplements 701.

A. GENERAL

Steel piles shall be HP 12 x 53 or HP 12 x 74, rated for the design loads indicated in the drawings. Piles shall be driven to the minimum tip elevations or deeper, as shown on the contract drawings, to achieve a capacity equal or greater than the design loads.

Driving shoes will be required for the piles in an effort to eliminate damage during driving in the embedment strata.

The Contractor shall submit to the Engineer, for approval, a wave equation analysis sealed by a professional engineer to verify that his equipment can adequately drive the piles to the required depths.

No alternate methods or types of piles will be permitted, unless prior approval is obtained from the Engineer.

Only one splice per pile will be permitted on the steel piles. The Contractor shall submit the method of splicing piles to the Engineer for review and approval.

Paragraph 701.04 DRIVING: Before the first paragraph insert the following new paragraph:

“For piling work, the Contractor, or Piling Subcontractor, shall have not less than ten (10) years experience installing steel H-piles. The Contractor, or Piling Subcontractor, shall have on staff a full-time Professional Engineer registered and licensed to practice in the District of Columbia. The Contractor or Piling Subcontractor, and the Piling Project Superintendent shall have installed the

types of piles required on not less than one comparable project during the two years prior to the commencement of this project.”

No mechanical splices for the piles are allowed.

B. PILE CAPACITY – FACTOR OF SAFETY

The pile capacity factor of safety shall be in conformance with AASHTO 4.5.6.2, “Factor of Safety Selection.”

C. MEASUREMENT AND PAYMENT

Measurement and payment for H PILES – HP 12 x 53, Item 701 006 and H PILES – HP 12 x 74, Item 701 008 will be made according to 701.11(A) and 701.12(A).

60. PILE LOAD TEST (PILE DRIVER ANALYZER), Item 701 042:

This Special Provision supplements 701 and the H PILE Special Provisions.

A. GENERAL

Dynamic measurements with a Pile Driver Analyzer (PDA) shall be used to verify the bearing capacity of piles. The method shall comply with ASTM D-4945-89.

As pile installation progresses, if in the judgment of the Engineer the pile driving information affecting the pile capacity (e.g., blow-count, advance, tip elevation, pile-driving equipment performance, etc.) does not meet the anticipated results, the Engineer may order additional PILE LOAD TESTS (PDA) to be performed on the piles.

The dynamic pile load test shall be conducted using the Case-Goble Pile Driver Analyzer equipment, or equivalent, approved by the Engineer, and shall be performed by a firm experienced in the use of the PDA equipment.

The Contractor shall submit the name of the proposed PDA firm with their experience record for approval at least twenty-one (21) days prior to the commencement of pile driving.

The Contractor shall be responsible for providing the necessary facilities and power for the PDA firm to install the required instruments on the pile, and take the necessary readings during the driving of the pile.

The hammer shall be warmed up prior to the PDA tests by applying at least twenty (20) blows to another pile. The maximum amount of penetration allowed during a test redrive shall be six (6) inches, or the maximum total number of hammer blows allowed shall be fifty (50) blows with no penetration.

At the completion of the drive or redrive tests, the Engineer shall be provided with the measured hammer energy, the maximum compressive and tensile stresses in the pile, and the estimated pile capacity.

The PDA firm shall provide additional analysis of the dynamic load test results using the CAPWAPC computer program.

Within ten (10) calendar days of the dynamic load test, the Contractor shall provide the Engineer for approval a written report presenting both PDA and CAPWAPC results. The report shall be prepared under the direct supervision of a registered Professional Engineer and shall bear the seal and signature of the supervising engineer. The report shall include as a minimum:

1. Determination of ultimate pile capacity.
2. Determination of compressive and tensile pile stresses.
3. Determination of energy transfer to the pile.
4. Determination of pile load distribution.
5. Evaluation of soil variables including quake and damping.
6. Evaluation of driving equipment, including hammer, driving cap, pile cushion, and follower.

The PDA tests shall be performed on the piles designated in the drawings or as directed by the Engineer.

B. MEASURE AND PAYMENT

The unit of measure for PILE LOAD TEST (PDA) will be EACH. The number will be the actual number of tests performed and accepted. The number of tests will be paid for at the contract unit price per each, which payment will include furnishing and removing all testing materials, loading and unloading the piles, guide platforms, and all other materials, labor, equipment and incidentals necessary to complete the test. The tests will not include cost of piles tested, or driving of test piles.

61. TEMPORARY EXCAVATION SUPPORT:

A. GENERAL

Support for excavation for construction is to be designed to protect, vehicular traffic along New Hampshire Avenue and, Railroad traffic under the bridge or adjacent to the excavation for foundation of the abutments. Tiebacks may be utilized. Sheet piling or H-Piles and lagging may also be used to form the temporary support.

The design of temporary supports for roadway will conform to 1996 AASHTO Standard Specifications.

B. EXCAVATION NEAR RAILROAD TRACKS

The Contractor is alerted to take extreme caution to protect the integrity of the railroad tracks. The design and installation of the temporary support system for railroad tracks shall conform to “CSX CRITERIA FOR OVERHEAD BRIDGES, October 1999.”

1. If there is excavation within the live load influence zone, temporary excavation support (sheeting and shoring) will be required to support tracks. Any encroachment on these limits will require structural support (shoring) in accordance with “CSX CRITERIA FOR OVERHEAD BRIDGES, October 1999.” Excavation limits are determined by the live load influence line, which is a line beginning at a point twelve (12') feet from centerline of track 1 foot 6 inch below top of rail extending away from the track at a rate of 1 ½ horizontal to 1 vertical. See detail shown on plans.
2. The top of sheeting or other portions of excavation support shall not project above top of rail, where face of sheeting is located closer than ten (10') feet from centerline of track. Within eighteen (18') feet of the centerline of track and in supporting slopes, the Contractor shall use sheet pile. No sheet pile in slopes or within eighteen (18') feet of centerline of track shall be pulled. Sheet pile shall be cut off three (3') feet below the ground line after backfilling to that point. The remaining three (3') feet shall be backfilled immediately after cutoff.

C. SUBMISSION

The Contractor shall submit design calculations and working drawings of the temporary excavation support he intends to use, for review and approval by the Engineer.

D. MEASURE AND PAYMENT

Temporary support for excavation will not be measured separately. The cost for this work is included in the Item No. 205 002 “STRUCTURE EXCAVATION”. Temporary excavation support that are called out to remain partly or completely shall be left in place and the Contractor will not be compensated.

62. CONSTRUCTION JOINTS:

This Special Provision supplements and modifies 703 of the Standard Specifications.

A. GENERAL

The construction joints require “intentionally roughened” or “roughened” concrete surfaces at construction joints. This Special Provision describes the requirements necessary at these locations.

B. CONSTRUCTION METHODS

The first placement of PCC shall have a hardened concrete surface that is clean and free of laitance. The interface (with the second placement of PCC) shall have been roughened to full amplitude of approximately 1/4 inch throughout the bonding surface.

C. MEASURE AND PAYMENT

There will be no measure or specific payment for this element of work. This work will be considered incidental to the pay item encompassing the PCC that is roughened.

63. DRILLING AND GROUTING REINFORCING BARS:

This Special Provision provides information pertaining to the drilling and grouting of reinforcing bars into PCC. This operation ensures proper connection between the existing construction and the new construction. The location and length of the drilling and the reinforcing bar size are indicated in the contract plans.

A. GENERAL

The work required by this Special Provision shall be accomplished in the following manner:

1. The Contractor shall drive holes in the existing PCC.
2. The holes shall have a diameter approximately 9/32 inch greater than the diameter of the reinforcing bars being embedded.
3. The holes shall be clean and free of deleterious materials prior to the installation of the grout.
4. After the installation of grout into the holes, the Contractor shall install clean reinforcing bars into the grout-filled holes.
5. The reinforcing shall be properly supported (as necessary) to allow proper setting of the grout.
6. The grouted reinforcing bars shall have cured for twelve (12) hours prior to placing adjacent PCC.

B. MATERIALS

1. The reinforcing bars shall comply with item 704 002 or they shall comply with item 704 004 when epoxy-coated reinforcement is utilized.

2. The grout shall be epoxy resin adhesive complying with 821.10 (B)(2) of the Standard Specifications.

C. EXISTING REINFORCING DAMAGED DURING DEMOLITION

When existing reinforcing (to remain in place and integrate existing construction to new construction) is damaged during demolition, corrective action shall be required of the Contractor. The Contractor shall inform the Engineer of the damaged reinforcing and the Engineer will require the Contractor to drill and grout reinforcing bars to ensure integrated construction between existing and new work.

D. MEASURE AND PAYMENT

No direct measurement or payment will be made for the work required by this Special Provision. The work required by this Special Provision will be considered part of the PCC FOOTING item or PCC PIER – ABUTMENT WALL item that is cast against the existing construction. The reinforcing bars will be considered part of item 704 002 or item 704 004 unless section C of this Provision necessitates the work and no additional payment will be made.

64. LEAN PCC (FLOWABLE BACKFILL), Item 703 005:

This Special Provision modifies and supplements 703 and 804.07 of the Standard Specification. The LEAN PCC item shall be utilized where shown on the plans and as directed by the Engineer.

A. GENERAL

This work shall also consist of furnishing and placing lean PCC in lieu of compacted soil or aggregate backfill at selected locations. The voids between existing wingwalls of the south abutment will be filled back to lines and levels as called for in the plans as “Wingwall Modifications” and as directed by the Engineer.

B. MATERIALS

1. Portland Cement – 801.01
2. Fly Ash shall have no specific requirement for fineness, loss of ignition, or reactivity.
3. Water – 821.01
4. Aggregate shall conform to the requirements of 803.01 and 803.02 of the Standard Specifications with a combined gradation as determined by the Contractor.
5. Admixtures and Granulated Blast Furnace Slag – 817.02

C. MIX DESIGN

The mix design for lean PCC shall be provided by the Contractor. Lean PCC shall have a design compressive strength of 200 to 1400 kilopascals at 28 days when tested in accordance with AASHTO T-23. Mix design shall result in a fluid product having a 200 mm to 1250 mm slump at time of placement.

The Contractor shall submit a mix design for approval supported by laboratory test data verifying compliance with 28-day compression strength requirements. The Engineer shall approve the mix prior to placement.

D. CONSTRUCTION

Mixing and transport shall be in accordance with 703.05, or by other methods approved by the Engineer.

Temperature of lean PCC shall be at least 50 degrees Fahrenheit at the time of placement. Materials shall be protected from freezing for 24 hours after placement.

Horizontal construction joints shall be introduced into the lean PCC to prevent failure of the forms and to reduce hydrostatic pressure. Concrete placing shall be in such lengths that the shrinkage stresses will be negligible.

The Contractor should sequence his work of demolition of the south abutment and lean PCC work for the wingwall modifications such that stability of the structure is assured at all times.

E. MEASURE AND PAYMENT

Measure and payment will be per 703.25 of the Standard Specifications. If after receiving the Engineer's approval, the Contractor elects to use lean PCC in lieu of a compacted backfill item (in areas not requiring lean PCC in the contract documents), no separate measurement or payment will be made.

65. PCC PIER-ABUTMENT-WALL, Item 703 006:

This Special Provision supplements 703. Work under this item consists of constructing abutments and portions of wingwalls.

A. GENERAL

The south abutment will be removed and replaced, with a semi-integral detail, providing more horizontal clearance to the railroad. Majority of the existing wingwalls will remain and that on the abutment footing will be reconstructed and integrated with the existing as indicated in the plans or as modified by the Engineer.

The new north abutment will be located behind the existing abutment utilizing an integral detail. The existing abutment stem will be modified and utilized to retain the new pile foundation of the integral

abutment. The wingwalls on the north approach will remain except for corner walls. Portions of walls at about seat level will be removed and reconstructed to accommodate the new abutment as detailed on plans.

The integral backwalls will be covered under PCC SUPERSTRUCTURES, Item 703 008. The pile cap concrete at the north abutment will be covered under PCC FOOTING, Item 703 002.

B. CONSTRUCTION METHOD

1. The layout of the wingwalls are indicated in the plans and shall match existing. The footings for the wingwalls shall be constructed as indicated in the plans. The newly constructed portion of the wingwall should be aligned to follow the face of parapet.
2. Excavation behind the north abutment may be carried out before the girders are removed to reduce the height of retained earth. The Contractor will be responsible for the stability and integrity of the wall and shall protect against failure or damage to the wall.
3. The new north abutment will be founded on single row of piles.
4. Existing concrete removal should utilize methods that will not damage existing reinforcement needed for laps.
5. Uncoated reinforcing steel be utilized for bars in the footings of the wing walls. All other bars in the wall stem shall be epoxy-coated.
6. Other construction methods shall follow the Standard Specifications for the pay items comprising the retaining walls.

C. WINGWALL MODIFICATIONS

Wingwall modification will be as detailed on plans.

While performing excavation work, care shall be taken to protect any utilities that might come in conflict with the work. The excess spoil shall be disposed off safely.

D. MEASURE AND PAYMENT

The measurement and payment for the wingwalls will be comprised of the various pay items constituting the completed work. The material and labor required for grouting existing drain holes in the abutment will be considered incidental to the PCC-PIER ABUTMENT-WALL pay item.

66. PREDRILLING AND ENCASING STEEL PILES Item No. 701 011:

A. GENERAL

1. Work under this item covers the following:
 - a. 20 inch diameter holes will be drilled in the heel of the existing north abutment footing at new pile locations of the north abutment. These holes will be grouted after installation of piles is complete.
 - b. Casing around piles will be provided to retain the backfill around the casing.
 - c. Uncompacted, loose sand will be used as fill in the annular space within the casing.
2. The Contractor shall install the piles at the north abutment at locations indicated in the plans with a maximum tolerance of, 3 inches for each individual pile and 1-½ inches about the centerline of the pile cap.
3. When drilling through the existing footing, care shall be taken to avoid damage to the footing and reinforcement. Reinforcement in direct conflict with the pile section shall only be cut. If more than two bars (one top and one bottom) in any one direction need to be cut, then the matter has to be brought to the attention of the Engineer for further directions. The Contractor shall employ methods that will not damage the footing reinforcement.

B. MEASURE AND PAYMENT

No measurement will be made for this item. The costs of all materials and labor for drilling holes and grouting, casing and sand filling around piles are covered under this item. Payment will be made for the JOB at LUMP SUM.

67. NORTH ABUTMENT WALL MODIFICATIONS AND RESTRAINT SYSTEM.
Item No. 701 013:

A. GENERAL

The existing north abutment backwall and seat will be removed and reconstructed, to elevations indicated by the plans, to function as a retaining wall in front of the new integral bridge abutment. In addition, the toe of the footing will be removed to limits indicated by the plans as a requirement by the Railroad. The new retaining wall will require a permanent restraint system for stability due to the modifications of the existing abutment. This item consists of removal of a portion of the toe of footing and the backwall of the north abutment and constructing a restraint system that will enhance the stability of the wall. The restraint system shall consist of a ground anchored restraining system at locations as indicated by the plans and as specified by the Specifications in Appendix E.

B. DESIGN CRITERIA FOR WALL AND RESTRAINT SYSTEM

1. Performance:

The wall restraint system is to be designed for a 70-year service life. Corrosion protection for a severe aggressive environment shall be used for the design of the anchor system. No lateral movement is expected for the wall from its current position.

2. Specification reference:

- a. The design of the anchors shall follow the 1996 AASHTO Standard specification Ch. 5 Art. 5.7 for ‘Anchored wall design.’
- b. Geotechnical Engineering Circular No. 4 for ‘Ground Anchors and Anchored Systems’ dated June 1999 of the FHWA may be used as a reference for design and installation procedures of the ground anchors.

3. Design:

The wall shall be designed to ensure stability against failure. The minimum factors of safety shall be:

Overtuning	2.0
Sliding	1.5
Global stability	1.5
Pull out force	1.33
Allowable soil bearing capacity	5.8 ksf

The anchor system shall be designed to resist a minimum tensile working load of 28 kips per foot length of wall (for the proposed configuration).

The Project Geotechnical report may be referenced. The following soil parameters may be used for the design:

Soil dry density	125 pcf
Angle of internal friction	32 degrees
Coefficient of friction	0.39

4. Material Specifications:

The anchor system shall conform to the specification requirements for Ground Anchors that is included in Appendix E, Part 2, MATERIALS.

5. Design, Installation, Testing:

The wall restraint system shall conform to the Specifications for Ground Anchors located in Appendix E.

C. CONSTRUCTION METHODS

1. The Contractor shall be solely responsible for the methods chosen. The Contractor shall submit, to the Engineer for approval, his methods and sequence of work to accomplish the modification of the abutment along with design calculations and working drawings for the restraint system signed by a registered Professional Engineer licensed to practice in the District of Columbia.
2. Temporary support for excavation will be provided by the Contractor to protect the Railroad traffic while excavating for removal of the toe of the footing. See Special Provision item for “TEMPORARY EXCAVATION SUPPORT”. The Contractor shall coordinate this work with the Railroad and account for any restrictions of working time imposed by the Railroad into his schedule. No compensation or claim will be allowed for any loss resulting from this.
3. The Contractor shall be responsible for the protection and maintenance of the underground utilities present in this area and shall inform and coordinate efforts with the respective utility owners. If piles are driven for support for excavation, precautions shall be taken to avoid existing utilities.

D. CONSTRUCTION REQUIREMENTS

1. A 6-inch diameter pipe underdrain will be utilized to release any hydrostatic pressure behind the wall and shall be extended through the wingwalls up to the surface of the fill in front of the walls. The existing drainpipes or underdrains of the wingwalls that are located and capped during DEMOLITION shall be connected to the new 6-inch pipe underdrain. The cost of 6-inch diameter underdrain will be covered under Item No. 604 005 “UNDERDRAIN PIPE, 6 INCH”.
2. Holes will be predrilled in the existing walls of the north abutment to accommodate the new 6-inch pipe underdrain. The holes shall be located to avoid interference with existing reinforcement in the walls.
3. The Temporary Excavation Support shall be cut and removed above an elevation approximately 3 feet below finished grade.
4. The work shall be coordinated with the construction of the pile foundations for the new abutment.

5. The removal of a portion of the toe of the footing shall be performed in such a manner that will not impact railroad ballast, drainage or track. The cut edge of the footing shall be finished using epoxy concrete to provide adequate cover for the existing reinforcement.
6. The Contractor shall be responsible for and shall protect against failure of the structure during construction. When tieback load is applied on the wall, the Contractor shall protect against tension cracks on the front face of the wall.

E. ALTERNATE RESTRAINT SYSTEM

The Contractor may consider an alternate restraining system in lieu of the suggested scheme, in which case, a written request shall be provided to the Engineer outlining the impacts, methods and computations for approval. The criteria for design shall follow Section B above.

F. MEASURE AND PAYMENT

The cost of the work included in this item will be paid for the JOB at LUMP SUM price.

68. PCC SUPERSTRUCTURE, Item 703 008;
PCC APPROACH SLAB, Item 703 014:

This Special Provision supplements 703 and 817.

A. MATERIALS

PCC used in the bridge deck and approach slabs shall meet the requirements of Class A - Concrete.

B. MACHINE FINISHING

A rolling bridge shall be located on the backside of the finishing machine for the use of the Contractor and inspection testing.

69. PCC PARAPET MODIFICATION, Item 703 027:

A. GENERAL

Work under this item consists of the reconstruction of PCC parapet/ coping on top of the wingwalls on the four quadrants of the bridge. The PCC parapet railing shall be constructed as shown in the plans to the proper lines and grades.

B. ELEMENTS OF WORK

The PCC work shall conform to 703 of the Standard Specifications except that 703.25 shall not apply.

The PCC parapet modification item shall include incorporation of the existing bridge tablets on to the southeast and northwest ends of the wingwalls. The repositioning of reinforcing steel, construction of boltholes or threaded inserts and other miscellaneous work associated with the installation of the tablets will be considered incidental to this item. Reinforcing steel that are newly added into the PCC parapet will be included.

Reinforcement to remain from the existing coping will be cleaned and prepared to receive new concrete under Item 205 008, DEMOLITION.

Quantity related to the anchorage of the light pole, on the southwest corner of the south abutment, will be deducted from this item.

C. MEASURE AND PAYMENT

The unit of measure for PCC PARAPET, Item 703 009, will be the linear feet. The number of linear feet of parapet will be the actual length of properly constructed and accepted parapet, as measured along the centerline of parapet.

The number of feet of parapet will be paid for at the contract unit price per feet, which payment will include all PCC and reinforcing steel incorporated into the parapet. This payment will also include all labor, materials, cleaning, furnishing extra reinforcing bars, equipment, and incidentals necessary for proportioning, mixing, forming, placing, finishing and the curing the concrete parapet.

70. STRUCTURAL STEEL - AASHTO M270, GRADE 36, Item 706 004; STRUCTURAL STEEL - AASHTO M270, GRADE 50, Item 706 006;

This work shall conform to 706 of the Standard Specifications except as modified by the Special Provisions or plans.

STRUCTURAL STEEL – AASHTO M270, GRADE 36, Item 706 004, applies to miscellaneous steel in the project, and STRUCTURAL STEEL – AASHTO M270, GRADE 50, Item 706 006, applies to the bridge girders, cross frames, bearings and stiffeners.

A. GENERAL

Work under this item includes fabricating, furnishing, installing or erecting all steel for superstructure construction including steel girders / beams, cross frames, stiffeners, connection plates, structural shapes used in utility supports, other structural steel items and miscellaneous metal work specified for use in various Special Provisions in this document and in the contract plans and drawings. Also included is the work necessary to modify existing components to accept new work.

B. ELEMENTS OF WORK

The following elements of work are listed according to the bridge and the pay item to which they pertain:

1. AASHTO M270, Grade 36, Item No. 706 004

- a. Field welding of sole plates to girders
- b. Modifications to existing work for introduction of new work
- c. Furnishing and installation of bolts, nuts, and washers
- d. Support of the girders during construction
- e. Fabrication and installation of new angles, end diaphragms, and utility supports to existing girders

2. AASHTO M270, Grade 50, Item 706 006

- a. Fabrication and installation of new structural steel for girders, cross frames, connection plates and stiffeners
- b. Furnishing and installation of new shear studs
- c. Furnishing and installation of sole plates
- d. Furnishing and installation of bolts, nuts, and washers

C. SPECIAL CONSTRUCTION METHODS

Cross-frames connecting phases 1 and 2 work on the bridge shall be fully tightened immediately after the 2-deck slab has been placed.

The Contractor shall be strictly coordinated with CSX and WMATA, the structural steel erection work and provide for the required protection of the railroad tracks as approved by the Engineer.

Sole plates may be field-welded to the girders; see Special Provision – BRIDGE BEARINGS, for requirements.

All bolt holes required in the existing structural steel shall be drilled or punched.

D. MODIFICATIONS TO GENERAL PROVISIONS

Welding flux shall be furnished with each anchor and stud, either attached to weld point or combined with the ferrule.

E. MEASURE AND PAYMENT

The provisions of 706.24(B) and 706.25(B) will apply to STRUCTURAL STEEL - AASHTO M270, GRADE 36, Item 706 004 and STRUCTURAL STEEL – AASHTO M270, GRADE 50, Item 706 006.

71. BRIDGE BEARINGS, Item 706 022:

This Special Provision modifies and supplements 706 of the Standard Specifications.

A. GENERAL

The bearings utilized on this project are constructed of steel reinforced elastomeric pads, steel sole plates welded to button flanges of girders, steel anchor bolts, steel washers, steel nuts, and other miscellaneous materials dependent upon the method of installation. Bearing shall be fabricated as indicated in the plans and according to the Specifications.

B. MATERIALS

1. Steel used for sole plates shall comply with AASHTO M270, Grade 36. The fabricator of the structural steel plate girders shall include the fabrication of the sole plates in conjunction with the girder fabrication.
2. The paint (and its application) on the sole plates shall be similar to the paint on the structural steel the plates support.
3. Anchor bolts shall conform to AASHTO M183.
4. Elastomeric bearing with internal steel laminates shall conform to AASHTO M251.
5. The elastomer shall conform to Durometer 50 hardness with a shear modulus ranging from 95 to 130 psi..

C. CONSTRUCTION METHODS

1. To attach the sole plates to the steel stringer, the Contractor has the option of field-welding the plates to the bottom flange of the stringer. If the Contractor chooses the field-weld option, a qualified welder or welders shall perform the procedure. The qualification requirements for the welders are in section 706.18 of the Standard Specifications. The specific documentation requirements are found in 706.18 (C). The required documentation shall be submitted to the Engineer at least thirty (30) days before field welding.

The structural steel shall be in place with anchor bolts (as necessary) installed and grouted. Necessary precautions to prevent heat damage to bearing materials shall be taken by the Contractor and welder.

2. Anchor bolts (as necessary) shall be installed by method of holes formed while the concrete is being placed, or by method of holes drilled after the concrete has set as specified in 703.20 (B) of the Specifications. The anchor bolt nuts shall be left loose with 3/8-inch separation from being snug tight. The threads immediately above the nut shall be struck with a hammer against a dull cold chisel to burr the anchor bolt threads and prevent unintentional removal of the loose anchor bolt nut.

D. MEASURE AND PAYMENT

The unit of measure for BRIDGE BEARINGS will be the job. No actual measure will be made. Payment for BRIDGE BEARINGS will include the seat preparation, anchor bolts, nuts, washers, grout, sole plates, laminated elastomeric pads, welding, polishing, and other materials within or attached to the unit and also all labor, equipment, tools and incidentals necessary to complete the work in place as specified.

72. UTILITY SUPPORTS ON THE BRIDGE, Item 706 031:

A. GENERAL

Work under this item consists, in stages, of providing permanent support systems for the existing PEPCO 69 kV pipes, the new gas main, water main and utility conduits on the bridge. All work shall be performed in accordance with this Special Provision, the contract plans and with the requirements of the concerned utility owners. For Potomac Electrical Power Company (PEPCO), see Appendix H; for WASA, see Appendix D. Any deviation from these plans and specifications shall be approved in writing by the owners prior to implementation of the change.

The Contractor shall ensure the maintenance, safety and continued service of the existing utilities during demolition and construction of the bridge and adjacent roadway.

B. MATERIALS

The Contractor shall furnish and install threaded hanger rods, washers and nuts and roller supports as shown on plans.

C. REQUIREMENTS

At no time will the Contractor be permitted to discontinue or interrupt power service provided by PEPCO. The Contractor shall be responsible and liable for any damages incurred to the utilities due to their action or failure to properly protect the facilities within the limits of the projects. The District of Columbia will not consider any claims for compensation due to delays related to this work, other than written, authorized time extensions.

PEPCO will inspect/supervise removing the existing 69 kV pipes from the existing supports and reinstalling on the new supports. The Contractor must allow sufficient time in his construction schedule to allow for this work by PEPCO.

The Contractor shall provide the 4-inch extra heavy wall, fiberglass reinforced conduits, expansion joints for the conduit, split stop rings and epoxy adhesive kits for the Contractor to install the conduits on the bridge. The Contractor shall be responsible for installing the new support system to support the 3-69 kV conduits as part of the reconstruction of the bridge.

The Contractor shall provide for block-outs or sleeves and expansion joints in the abutment backwalls for the utilities.

The Contractor shall notify PEPCO and Washington Gas 48 hours (two working days) before starting the installation of the conduit hangers to review applicable standards and requirements for bridge installations.

The review is to include PEPCO's requirements for the application of epoxy to all couplings, expansion joints and split stop rings. The Contractor's work on the 69 kV pipes shall be subject to PEPCO's inspector and must have the PEPCO's inspector's final approval. The Contractor shall make arrangements with PEPCO for the final inspection and approval of the Contractor's utility installations.

D. MEASURE

The unit of measure for UTILITY SUPPORTS ON THE BRIDGE shall be the JOB.

E. PAYMENT

Payment for work under this item will be made at the contract lump sum price, which payment will include furnishing and installation of permanent supports, all installation and all labor, tools, materials, equipment and incidentals necessary to furnish, protect, and maintain the utilities as specified.

Payment for ensuring the maintenance and continuation of service of the existing utilities will be made as part of the payment for DEMOLITION

73. PAINT NEW METALWORK, Item 707 002:

This Special Provision modifies and supplements 707 of the Standard Specifications. This item includes the painting of the new steel superstructure.

A. COLOR OF PAINT FINISH

The new metalwork shall have the paint tinted (modify tint as directed by the Engineer) as follows:

Structural Steel	Light-Gray	Chip No. 26408 of FS No. 595(A)
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Bridge Bearings	Light-Gray	Chip No. 26408 of FS No. 595(A)
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B. FAYING SURFACES OF STRUCTURAL STEEL

Faying surfaces of structural steel shall be shop-coated with stripe and primer systems. The primer shall cure in accordance with 707.09 (E) before bolting connections. In no case shall field primer be applied to

any faying surface prior to field erection and installation of the fasteners. In the third paragraph of 706.17(H) add the word "extrinsic" before the word "paint."

If the Contractor applies the intermediate and finish coats in the shop, the faying surfaces shall be masked. Intermediate and finish coats shall be applied to exposed surfaces at bolted connections only after installation of the fasteners is complete.

C. FASTENERS

All fastener components used at connections for new steel shall be coated. At the Contractor's option, fastener components (nuts, bolts and washers) shall be degreased, blast cleaned to a minimum SSPC-SP5 White Metal Blast, and coated with a two-component, high-ratio zinc silicate coating. The liquid vehicle portion of the zinc silicate shall be high-ratio potassium silicate (5.3:1, SiO₂:H₂O). The zinc silicate coating shall be applied at 1.5 mil DFT to the bolt threads, 0.5 mil DFT to the nut threads and 2.0-2.5 mil DFT to all other surfaces. After coating, the fasteners shall be lubricated with a water-based lubricant. Otherwise, the Contractor shall propose an alternate coating, subject to the approval of the Engineer.

D. COATING SYSTEM

1. In 707.05 (A), change the word "acrylic" found in the sentence, "Intermediate - One coat of acrylic . . ." to "epoxy." After this sentence, add the sentence "The color of the intermediate coat shall be different from the finish coat."
2. In 707.05 (A), change the words "acrylic topcoat" found in the sentence, "Finish - One coat of acrylic topcoat, . . ." to "urethane paint."
3. Paint systems, selected from the current approved lists of the Maryland State Highway Administration and the Virginia Department of Transportation, may be submitted for approval. Said systems shall meet the criteria stated in the Final Rule for National Volatile Organic Compound Emission Standards for Architectural Coatings published on September 11, 1998 by the Environmental Protection Agency and in subsequent amendments. The submittal shall be accompanied by full documentation, including the state's list of approved systems. All products, including thinners, for the complete system shall be from the same manufacturer.

E. PROTECTION OF THE ENVIRONMENT

Applicable portions of Section 605 are as follows:

605. CONTROL OF FUGITIVE DUST

- 605.1** Reasonable precautions shall be taken to minimize the emission of any fugitive dust into the outdoor atmosphere. The reasonable precautions shall include, but not be limited to, the following:

“(g)...and in the case where dry sandblasting or dry abrasive cleaning is necessary: Use of enclosed areas or hoods, vents, and fabric filters.”

It is recommended that the Contractor obtain a complete copy of D.C. Municipal Regulation (DCMR) Title 20 prior to preparation of bids. Publications may be purchased by mail or in person from:

D.C. Office of Documents and Administrative Issuances
One Judiciary Square, Room 520
441 – 4th Street, N.W.
Washington, D.C. 20001
Phone: (202) 727-5090

F. TRANSPORTATION, ONSITE STORAGE, AND PROTECTION OF PAINTED STEEL

All steel that has been shop painted shall be transported to the job site in a manner that prevents damage to the paint system. The Contractor shall take reasonable precautions including, but not limited to, padding of contact points and lifting devices, covering of exposed painted surfaces and proper securing/restraining during the transportation and onsite storage of the steel. Additionally, the exposed surfaces of structural steel shall be covered during the placement of concrete.

**74. STONE MASONRY, Item 708 003;
RESET STONE MASONRY, Item 708 011;
REPOINT STONE MASONRY, Item 708 013:**

This Special Provision supplements 708 of the Standard Specifications. The Contractor shall carefully coordinate his efforts under the guidance of the Engineer.

A. ELEMENTS OF WORK

1. At the Bridge the following stone masonry work is required:

The Contractor may salvage stones from the existing wingwalls. Salvaged stone that is suitable for reuse may be integrated into the new stone masonry work. The Contractor shall construct stone masonry and/or reset stone masonry on the faces of the proposed wingwalls and cheekwalls.

2. At another part of the Bridge, the following masonry work is required:

The Contractor shall carefully remove stone masonry from the top portion of the wingwalls to allow new PCC coping and parapet construction. This removed stonework shall be held to a minimum, unless approved otherwise by the Engineer. Salvaged stone that is suitable for reuse may be used for resetting stone masonry. The Contractor shall construct stone masonry and/or reset stone masonry on the top portions of the wingwalls.

B. MATERIALS

Salvaged and new stone shall be selected from stones similar in size, color, patterns and appearance, shape, and face relief to the stone facing along the existing wingwalls. Stone masonry shall match the existing wingwalls of the bridge. The selected stone shall be approved by the Engineer before installation.

All stone shall be clean, sound, durable, and free of seeds, rifts, lamination, and shall show no sign of deterioration.

C. BEDS AND JOINTS

New beds and joints shall match the existing average width of beds and joints or otherwise shall be 3/4 inch. The finished beds and joints shall be raked out squarely to a depth similar to the existing stonework.

D. ANCHORS

The anchors for all new masonry work shall utilize the “masonry constructed after placing concrete backing.” This work shall comply with 708.09 (C)(2). The Appendix of these Special Provisions contains a DCDPW Standard Drawing indicating the anchor system.

In the event the existing anchor system has deteriorated beyond structural reuse, the Contractor shall submit a method of attaching anchor straps to existing PCC to the Engineer for approval. The submitted system shall utilize comparable components (and spacing) to the anchor system attached to new PCC work.

E. REPOINT EXISTING STONE MASONRY

Areas of the existing stone masonry walls (that are to remain) shall be raked and repointed following methods specified in 708.10 (D). The Engineer will provide guidance in determining which areas require repointing.

F. MEASURE AND PAYMENT

The unit of measure for STONE MASONRY and RESET STONE MASONRY will be the cubic feet, complete and in place. The unit price for REPOINT STONE MASONRY will be the feet.

Payment for STONE MASONRY will be made at the contract unit price per cubic feet. Payment will include furnishing and setting of new stone masonry, anchors, cramps, dowels and other anchoring devices and all labor, tools, equipment and incidentals required to complete the specified work.

Payment for RESET STONE MASONRY will be made at the contract unit price per cubic feet. Payment will include setting of stone masonry, replacement of anchors, cramps, dowels and other anchoring devices, and all labor, tools, equipment and incidentals required to complete the specified work.

Payment for REPOINT STONE MASONRY will be made at the contract unit price per feet. Payment will include all labor, tools, equipment and incidentals required to complete the specified work.

75. CLEAN EXISTING STONE MASONRY, Item 708 015:

A. GENERAL

The existing stone masonry shall be cleaned. The Engineer shall determine the extent of this work.

B. WORK REQUIREMENTS

The Contractor may consider one of the following alternatives:

1. In situ / on-site cleaning with non-chemical (biodegradable) methods.
2. Off-site cleaning with chemical (or non-chemical) methods. Chemical methods shall be those approved by the governing jurisdictional authority in accordance with environmental regulations.

The Contractor is responsible for the method chosen, with respect to both achieving the required results and adhering to environmental regulations in the governing jurisdiction.

The sequence, objective, and suggested method (in parentheses) of cleaning shall be as follows:

1. Remove vegetative materials growing in the wall cracks or on stone surface.
2. Remove water deposits – calcium/minerals (water-jet blast, water-wash with non-ionic soap or detergents).
3. Remove atmospheric soiling, rust stains, and oily deposits. (Preferred method: micro-blasting – fine glass powder in compressed air; chemical methods may, however, be used but with great care. Dilution shall be to the greatest degree that still provides effective cleaning.)
4. Spot Cleaning. (Reapply previous method; certain abrasive methods – scour cleaner, sanding, wire brushing, grinding, water-sand and sand-blasting shall only be permitted for localized areas of severe contamination.)

C. MEASURE AND PAYMENT

The unit of measure for CLEANING EXISTING STONE MASONRY will be the job. CLEANING EXISTING STONE MASONRY will be paid for at the contract lump sum price. Payment will include all preparation and cleaning operations, and furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the work as specified herein.

76. CONCRETE REPAIR:

This Special Provision modifies and supplements 715 and 716 of the Standard Specifications.

A. GENERAL

The materials and methods specified below apply to the applicable types of substructure repairs for the north abutment to remain, as shown in the contract plans, and as specified elsewhere in these Special Provisions.

The Contractor shall verify the extent of repairs on the existing north abutment wall and variations in quantities shall be reported to the Engineer prior to work.

The Contractor shall expect that this work may require man-lift equipment and/or scaffolding for high-level access.

All of this work shall be done at the direction of the Engineer. The District does not guarantee the exact locations and quantities (either more or less) of repairs.

Due to the time interval between the field survey and the Notice to Proceed, further deterioration may have occurred which would not be reflected in the quantities for the particular bid item; the Engineer will be the sole judge of the extent and total quantity of repairs that are to be made.

B. MATERIALS

1. Substructure Concrete

Concrete shall conform to Class B (Special) Structural Concrete, but shall contain aggregate no greater than 5/8" nominal size.

2. Non-Shrink Grout

A proprietary formulation with minimum bond strength of 3000 psi per ASTM C 882, compressive strength of 5000 psi after 24 hours per ASTM C 579.

3. Non-Shrink Mortar

Mortar shall be cement base non-shrink type meeting the requirements of ASTM C 109 for 3500 psi, 28-day strength. It shall be non-sag, stiff consistency for vertical surfaces, and capable of adhering to damp concrete surfaces.

4. Epoxy Resin Adhesive (Bonding Agent)

Epoxy adhesive shall conform to AASHTO M235 Type III, two-part mix in equal parts (1:1), thixotropic (non-sag).

5. Low Viscosity Epoxy Grout for pressure injection grouting

This shall be a high-modulus, moisture insensitive, low-viscosity, for application at not less than 5 degrees Celsius, fast-setting, rigid, for grouting both damp and dry cracks, ASTM C 811 Type I and II, Grade 1, Class B and C. If recommended by the epoxy manufacturer, the Contractor shall provide a compatible surface sealer. Pressure injection shall be carried out in strict accordance with manufacturer's instructions.

6. Surface Sealant

Epoxy resin used to seal cracks and ports before injection. ASTM C 881, Type I and II, Grade 3, Class B and C.

7. Caulking Compound

A one-component, non-sag (gun grade) urethane sealant, of gray color, meeting Federal Specification TT-S-00230C Type II for vertical use and ASTM 920.

8. Welded Wire Fabric

Comply with 812.01 of the Standard Specifications for galvanized welded wire fabric 2x2 - W 1.4 / W 1.4.

9. Non-Shrink Epoxy Grout

A proprietary formulation, rapid set, flowable epoxy grout for tight clearances meeting applicable AASHTO Specifications for epoxy and cement components, non-shrink per ASTM C 827 and tensile strength of 2000-psi minimum ASTM C 190.

10. Epoxy Mortar

Epoxy-cement, proprietary formulation, non-metallic, non-flowable, stiff consistency.

11. Mastic Lubricant

Non-flowable material, wash-resistant to moisture, compatible elastomeric material, molybdenum disulfide base.

12. Primer Paint

Organic primer (two coats), complying with 811.03 (A), well stirred and applied with a brush.

13. Alternative Concrete Bonding Agent

See Special Provision, CONCRETE BONDING AGENTS.

C. SUBMITTALS

1. Submit certification for all materials in accordance with 821.10 (D).
2. Submit the materials and methods proposed for repair not later than 30 days prior to commencement of work.
3. Submit construction drawings and calculations showing temporary shoring and support systems (if applicable).
4. Shop drawings and construction drawings shall be certified by a professional engineer.
5. As-built drawings shall indicate the type, location and extent of the repairs and the products and methods actually used.

D. CONSTRUCTION METHODS

For concrete repairs, the following is recommended for determining the limits of deterioration:

The extent of removal of deficient concrete shall be as indicated by sounding with a steel hammer. A hollow sound indicates deficiency. Where sounding indicates a deficient area, outline the area with weather-resistant chalk or paraffin marking pencil, and document the repair area on working drawings. The working drawings shall be drawn to scale and shall indicate the repair type and measure. The Contractor shall submit the working drawings to the Engineer for approval. The working drawing's areas and quantities shall be updated after the repairs are completed and resubmitted to the Engineer. After removing unsound concrete or mortar, clean the affected area free of all laitance and dust using brushes and compressed air. Use bonding agents as specified or as recommended by the manufacturer of the repair material to be used.

77. CONCRETE BONDING AGENTS:

This Special Provision supplements 824.

A. GENERAL

Alternative bonding agents for concrete surface repairs and bonding new concrete to existing, to be used in lieu of epoxy, may be considered as follows:

Bonding agent compound for bonding uncured concrete to existing concrete shall be **Thorobond, Weld-Crete, Link**, or approved equal with a polyvinyl acetate homopolymer base for surface bonding application.

The Contractor shall submit product specification sheets to the Engineer for approval.

Application procedure and temperature shall be in accordance with manufacturer's recommendation.

B. MEASURE AND PAYMENT

CONCRETE BONDING AGENTS will not be measured for payment. Payment will be included in the construction of which they are a part.

78. METAL RAILING AND PEDESTRIAN FENCE, Item 709 015:

A. GENERAL

Work under this item consists of furnishing and installing one strand metal railing and pedestrian fence on the concrete parapets of the bridge as shown on plans and as specified herein.

B. MATERIALS

Materials shall meet the following requirements:

1. Chain link fence – AASHTO M181-95
Rails, posts – Grade 1
Fence fabric – Type IV, Class A
2. Heavy hex nuts, bolts, washers – AASHTO M180
3. Bolts – Type 3
4. Rolled steel, plates – AASHTO M270 Grade 36, Fs=20,000 psi

All steel for railings, posts, rolled sections and plates to be galvanized as per AASHTO M111-94. Galvanizing for wires and hardware shall conform to AASHTO M232-84.

C. CONSTRUCTION METHODS

All railing shall be fabricated and erected as indicated on the plans. The Contractor shall submit shop drawings for railing and pedestrian fence. Rails shall be parallel to the grade of the roadway. Rail section shall be attached to as many posts not exceeding the maximum spacing indicated on plans.

Posts shall be set perpendicular to top of parapet.

The centerline of any splice and/or expansion joint shall be located at least 2'-0" away from centerline of a post except where indicated other on plans.

Post bases shall sit on ¼-inch neoprene bearing pad conforming to 821.02(C). The pad shall contact the entire bottom surface of the base plate with not more than 1/8-inch protruding beyond the base plate on any side.

Prior to erection, all parts shall be inspected for damage and for chipped or marred coatings. Pieces warped, deformed or with substantial areas damaged to steel, as determined by the Engineer, will be rejected and the Contractor shall replace such damaged parts with parts meeting specifications at his sole expense.

D. MEASURE AND PAYMENT

The unit of measurement will be the JOB. No actual measurement will be taken.

Payment for METAL RAILING AND PEDESTRIAN FENCE will be made at the Contract lump sum price for which payment will include furnishing, fabricating and installing all materials, including anchor bolts, bars and shapes and all labor, tools, material, equipment and incidentals needed to complete the specified work.

79. TYPE III REPAIR - CRACK INJECTION, Item 715 001:

A. GENERAL

The work covered by this item includes repair of concrete cracks by pressure injection of epoxy on the existing north abutment wall.

B. MATERIALS

As specified in the Special Provision for CONCRETE REPAIR.

C. METHODS

Concrete surfaces shall be clean and sound. Remove foreign matter by mechanical means. Substrate temperatures shall be no less than 41 degrees Fahrenheit or as recommended by the epoxy manufacturer. The method of application shall be approved by the Engineer prior to beginning work.

Epoxy shall be applied by pressure-injection method using procedures recommended by the epoxy manufacturer. Use a surface sealer if recommended by epoxy manufacturer. Use epoxy mortar or mastic lubricant as necessary. If a surface sealer is used, it shall be removed after satisfactory completion of pressure injection. Crack surface shall be hand-rubbed and finished to blend with existing adjacent concrete.

D. MEASURE

The unit of measurement will be the linear feet of crack repaired.

E. PAYMENT

Payment for TYPE III REPAIR - CRACK INJECTION will be made at the contract unit price per linear feet. Payment will include furnishing all materials, labor, tools, equipment and incidentals to accomplish the work specified and shown.

**80. TYPE II REPAIR – REPLACE PCC SUBSTRUCTURE (3-½inches OR LESS IN DEPTH),
Item 716 001:**

A. GENERAL

The work covered by this item includes concrete repairs such as patching spalls, delaminations and deteriorated concrete no greater than 3 ½' maximum depth using non-shrink grout or mortar.

The Engineer will determine locations for this work.

B. MATERIALS

As specified in the Special Provision for CONCRETE REPAIR.

C. METHODS

Submit shop drawings and follow the procedures specified in the Special Provision for CONCRETE REPAIR, and the contract plans and drawings. Application temperature shall not be less than 50 degrees Fahrenheit or as recommended by the bonding agent manufacturer. Saw cut repair areas to the smallest neat rectangular shape. Individual repairs having surface areas greater than one square feet shall have formed surfaces in lieu of troweling.

Blast-clean all exposed reinforcement to remove all rust and scale. Coat reinforcement with primer paint.

D. MEASURE

The unit of measurement will be the square feet, as measured on the surface.

E. PAYMENT

Payment for TYPE II REPAIR – REPLACE PCC SUBSTRUCTURE (3 ½ inches OR LESS IN DEPTH) will be made at the contract unit price per square feet. Payment will include the removal and disposal or all deteriorated concrete, furnishing all materials, labor, tools, equipment and incidentals to accomplish the work specified and shown.

81. TYPE I REPAIR – REPLACE PCC SUBSTRUCTURE (OVER 3-½inches IN DEPTH), Item 716 003:

A. GENERAL

The work covered by this item includes concrete repairs and patching of spalls, delaminations and deteriorated concrete on the structure greater than 3 ½' and up to 6 ½' maximum depth on substructure concrete. The TYPE IV REPAIR – REPLACE PCC SUBSTRUCTURE will supplement this item for depths greater than 6 ½inches.

The Engineer will determine the locations and extent of this work.

B. MATERIALS

As specified in the Special Provision for CONCRETE REPAIR.

C. METHODS

Submit shop drawings and follow the procedures specified in the Special Provision for CONCRETE REPAIR, and the contract plans and drawings. Saw cut repair areas to the smallest neat rectangular shape. Application temperature shall not be less than 50 degrees Fahrenheit or as recommended by the bonding agent manufacturer.

Blast-clean all exposed reinforcement to remove all rust and scale. Coat reinforcement with primer paint.

D. MEASURE

The unit of measurement will be the square feet, as measured on the surface.

E. PAYMENT

Payment for TYPE I REPAIR – REPLACE PCC SUBSTRUCTURE (OVER 3 ½ inches IN DEPTH) will be made at the contract unit price per square feet. Payment will include the removal and disposal of all deteriorated reinforced concrete, furnishing all materials, labor, tools, equipment and incidentals to accomplish the work specified and shown.

82. RAPID CHLORIDE PERMEABILITY TEST:

The D.C. Department of Public Works, Office of Materials Development and Research, will conduct tests for the determination of the permeability of the various concrete mixes to chloride ions.

The permeability test data will not be used as a basis for acceptance, rejection or adjustment to any unit bid price, but will be used as a means of evaluating control of concrete permeability properties as a function of mix design parameters within the constraints of actual field conditions.

83. CONTRACT TYPE:

In accordance with Title 27 DCMR, Chapter 24, the contract type shall be a fixed price contract.

84. PROTEST:

Any actual or prospective bidder, offeror or contractor who is aggrieved in connection with the solicitation or award of a contract, must file with the DC Contract Appeals Board (Board) a protest no later than ten (10) business days after the basis of protest is known or should have been known, whichever is earlier. A protest based on alleged improprieties in a solicitation that are apparent prior to bid opening or the time set for receipt of initial proposals shall be filed with the Board prior to bid opening or the time set for receipt of initial proposals. In procurements in which proposals are requested, alleged improprieties which do not exist in the initial solicitation, but which are subsequently incorporated into this solicitation, must be protested no later than the next closing time for receipt of proposals following the incorporation. The protest shall be filed in writing, with the Contract Appeals Board, 717 14th Street, N.W., Suite 430, Washington, D.C. 20004. The aggrieved person shall also mail a copy of the protest to the Contracting Officer for the solicitation.

85. DISPUTES:

- A. All disputes arising under or relating to this contract shall be resolved as provided herein:
- B. Claims by a Contractor against the District:
 - 1. Claim, as used in Section B of this clause, means a written assertion by the Contractor seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract. A claim arising under a contract, unlike a claim relating to that contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant.
 - 2. All claims by a Contractor against the District arising under or relating to a contract shall be in writing and shall be submitted to the Contracting Officer for a decision.
 - 3. For any claim of \$50,000 or less, the Contracting Officer shall issue a decision within sixty (60) days from receipt of a written request from a Contractor for a decision.
 - 4. For any claim over \$50,000, the Contracting Officer shall issue a decision within ninety (90) days of receipt of the claim. Whenever possible, the Contracting Officer shall take into account factors such as the size and complexity of the claim and the adequacy of the information in support of the claim provided by the Contractor.

5. Any failure by the Contracting to issue a decision on a contract claim within the required time period will be deemed to be a denial of the claim. The Contractor may appeal denial of the claim as provided herein.
6. If a Contractor is unable to support any part of his or her claim and it is determined that the inability is attributable to a material misrepresentation of fact or fraud on the part of the Contractor, the Contractor shall be liable to the District for an amount equal to the unsupported part of the claim in addition to all cost to the District attributable to the cost of reviewing that part of the Contractor's claim.
 - (1) Liability under this paragraph (6) shall be determined within six (6) years of the commission of the misrepresentation of fact or fraud.
7. Interest on amounts found due to a Contractor on claims shall be payable at a rate set in D. C. Code Section 28-3302(b) applicable to judgments against the District and shall begin accruing from the date the Contracting Officer receives the claim until payment of the claim.
8. The decision of the Contracting Officer shall be final and not subject to review unless an administrative appeal or action for judicial review is timely commenced by the Contractor as authorized in D. C. Code Section 1-1189.4.
9. Pending final decision of an appeal, action or final settlement, a Contractor shall proceed diligently with performance of the contract in accordance with the decision of the Contracting Officer.

C. Claims by the District against the Contractor:

1. Definition:

Claim, as used in Section C of this clause, means a written demand or written assertion by the District seeking, as a matter of right, the payment of money in a sum certain, the adjustment of contract terms, or other relief arising under or relating to this contract. A claim arising under a contract, unlike a claim relating to that contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant.

2. Procedures:

- a. All claims by the District against a Contractor arising under or relating to a contract shall be decided by the Contracting Officer.
- b. The Contracting Officer shall send written notice of the claim to the Contractor. The Contractor may respond to the claim within thirty (30) days from the date the Contractor receives the claim.

- c. After expiration of sixty (60) days from the date the Contractor receives the claim, the Contracting Officer shall issue a decision, in writing, and furnish a copy of the decision to the Contractor.
- d. The decision shall be supported by reasons and shall inform the contractor of his or her rights as provided herein. Specific findings of fact are not required, but, if made, shall not be binding in any subsequent proceeding.
- e. The authority contained in this clause shall not apply to a claim or dispute for penalties or forfeitures prescribed by statute or regulation which another District agency is specifically authorized to administer, settle or determine.
- f. This clause shall not authorize the Contracting Officer to settle, compromise, pay or otherwise adjust any claim involving fraud.
- g. Interest on amounts found due to the District from a Contractor on claims shall be payable at the rate set in D. C. Code Section 28-3302(b) applicable to judgments against the District and shall begin accruing from the date the Contractor receives a Contracting Officer's written decision on behalf of the District until payment of the claim.
- h. The decision of the Contracting Officer shall be final and not subject to review unless an administrative appeal or action for judicial review is timely commenced by the District as authorized by D.C. Code Section 1-1189.4.
- i. Pending final decision of appeal, action or final settlement, the Contractor shall proceed diligently with performance of the contract in accordance with the decision of the Contracting Officer.

86. UTILITY PROTECTIVE ALERT:

The following amends Article 107.15 Utility Protective Alert:

The table at top of page 126 is modified as follows:

DC Water and Sewer Authority	202/673-6604	Watermains
	202/787-2443	Sewers

87. AWARD OF CONTRACT:

The Department of Public Works intends to award this contract within ninety (90) calendar days. However, if for administrative reasons, we are unable to make an award within this time period, the Department will request the Contractor and his/her surety to extend the bid bond for an additional thirty (30) days.

88. PAYMENT BONDS:

Article 12C of the Instructions to Bidders of the STANDARD CONTRACT PROVISIONS 1973, is amended to incorporate the provisions of Section 504(b) of the District of Columbia Procurement Practices Act of 1985, which require payment bonds in an amount not less than fifty (50) percent of the amount payable by the terms of the contract.

89. CONTRACT ADMINISTRATION:

A. CONTRACTING OFFICER

Contracts may be entered into and signed on behalf of the District Government only by contracting officers. The contracting officer is the only District official authorized to contractually bind the District. The contracting officer is the Agency Chief Contracting Officer (ACCO), Department of Public Works, 2000 – 14th Street, NW, Washington, DC 20009, telephone number (202) 671-2200.

B. AUTHORIZED CHANGES BY THE CONTRACTING OFFICER

1. The Contracting Officer is the only person authorized to approve changes in any of the requirements of this contract.
2. The Contractor shall not comply with any order, directive or request that changes or modifies the requirements of this contract, unless issued in writing and signed by the Contracting Officer.
3. In the event the Contractor effects any changes at the discretion of any person other than the Contracting Officer, the changes will be considered to have made without authority and no adjustment will be made in the contract price to cover any cost increase incurred as a result thereof.

C. CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

The COTR is the **Project Manager**; the name, address and telephone number are:

Name: Muhammed Khalid
Title: Program Manager
Agency: District Division of Transportation
Address: 64 New York Avenue, N.E., 1st Floor
Washington, D.C. 20002
Telephone: 202 / 671-4577

The COTR will have the responsibility of ensuring that the work conforms to the requirements of this contract and such other responsibilities and authorities as may be specified in the contract. The COTR will act as the contracting officer's representative for technical matters, providing technical direction and discussion, as necessary with respect to the specifications or statement of work, and monitoring the progress and quality of the Contractor's performance. Other responsibilities include the following:

1. Keeping the CO fully informed of any technical or contractual difficulties encountered during the performance period and advising the ACCO of any potential problem areas under the contract;
2. Coordinating site entry for Contractor personnel, if applicable;
3. Reviewing and approving invoices for fixed-price deliverables to ensure receipt of goods and services. This includes the timely processing of invoices and vouchers in accordance with the District's Payment provisions; and
4. Maintaining a file that includes all contract correspondence, modifications, records of inspections (site, data, equipment) and invoices/vouchers.

It is understood and agreed, in particular, that the COTR is not a contracting officer and does not have the authority to:

1. Award, agree to, or sign any contract, delivery order or task order. Only the ACCO shall make contractual agreements, commitments, or modifications;
2. Grant deviations from or waive any of the terms and conditions of the contract;
3. Direct the accomplishment of effort, which is beyond the scope of the statement of work in the contract;
4. Increase the dollar limits of the contract or authorize work beyond the dollar limit of the contract; or authorize the expenditure of funds by the Contractor;

5. Change the period of performance; and
6. Authorize the furnishing of District property, except as specified under the contract.

When in the opinion of the Contractor, the COTR requests effort outside the existing scope of the contract, the Contractor shall promptly notify the contracting officer in writing.

D. ORDERING AND PAYMENT

The Contractor shall not accept orders for items under this contract unless a purchase order has been issued. The participating agency shall be the Department of Public Works, District Division of Transportation.

Invoices shall be submitted in duplicate to the D.C. Department of Public Works, Office of the Chief Financial Officer, Customer Care Division, 2000 – 14th Street N.W., 6th Floor, Washington, D.C. 20009, Telephone (202) 671-2300.

Each invoice must provide the following minimum information:

1. Contractor's name, address, invoice number and date;
2. contract line number (CLIN) being billed for payment and total amount due;
3. purchase order and contract number;
4. addressee's name and address;
5. period of service;
6. description of services and deliverables provided;
7. name, title, signature and phone number of preparer; and
8. name of the contracting officer's technical representative.

Payment may be delayed for improperly prepared invoices.

90. ANTI-DISCRIMINATION CLAUSE:

"The Contractor: 1) shall not discriminate in any manner against any employee or applicant for employment in violation of Section 211 of the District of Columbia Human Rights Act (D.C. Law 2-38; D.C. Code Anno. Section 1-2512); 2) shall include a similar clause in every subcontract, except subcontracts for standard commercial supplies or raw materials; and 3) shall, along with all subcontractors, post in a conspicuous place, available to employees and applicants for employment, a

notice setting forth the provisions of the anti-discrimination clause set out in Section 251 of the District of Columbia Human Rights Act (D.C. Code Anno. Section 1-2522)."

91. PRE-AWARD APPROVAL:

"In accordance with the Council Contract Approval Emergency Amendment Act of 1995, D.C. Code 1-1181.5a, the Mayor must submit to the Council for approval any contract action over one million dollars, and in accordance with the regulations adopted pursuant to the District of Columbia Financial Responsibility and Management Assistance Act of 1995, P.L. 104-8, the Mayor must submit to the District of Columbia Financial Responsibility and Management Assistance Authority (Control Board) the Contract action for approval."

The District of Columbia Department of Public Works Standard Specifications (1996) and amendments thereto are incorporated by reference into this Contract. In case of discrepancy:

1. The Contracting Officer shall be promptly notified, in writing, of any error, discrepancy or omission, apparent or otherwise.
2. Applicable Federal and D.C. Code requirements have priority over: The Contract
3. The Contract Form, General Provisions and Labor Provisions have priority over: Change Orders, Addenda, Contract Drawings, Special Provisions and Specifications.
4. Change order have priority over: Addenda, Contract Drawings and Specifications.
5. Addenda have priority over: Contract Drawings, Special Provisions and Specifications. A later date Addendum has priority over earlier dated Addenda.
6. Special Provisions have priority over: Contract Drawings and other Specifications.
7. Shown and indicated dimensions have priority over scaled dimensions.
8. Original scale drawings and details have priority over other different scale drawings and details.
9. Large-scale drawings and details have priority over small scale drawings and details.

Any adjustment by the Contractor without a prior determination by the Contracting officer shall be at his/her own risk and expense. The Contracting Officer will furnish from time-to-time, such detail drawings and other information as he may consider necessary, unless otherwise provided.

92. SUBCONTRACTING:

The subcontractor approval request form included herein should be used to request approval of subcontractors on this project. The form shall be completed for each subcontractor requested for approval and submitted to:

**Attention:
Contracting Officer
Department of Public Works
Construction Contract Branch
2000 14th Street, N.W., 6th Floor
Washington, D.C. 20009**

Copies of these forms are available on request.

Copies of subcontracts shall be made available for review at any time by representatives of the Department of Public Works and Federal Highway Administration.

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District Department of Transportation

PAGE: 1R

B.6 SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2007B0033

PROJECT(S): DCKA-2007-B-0033

BASE YEAR

THE CONTRACTOR WILL BE PAID ONLY FOR THE BASE YEAR PERIOD AND ONLY ONCE FOR THE OPTION YEARS FOR EACH PAY ITEM NUMBER WHERE THE TERM ONE JOB APPEARS.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0010	201002 Clear and Grub	ONE JOB	ONE JOB			.
0020	202002 Common Excavation	6000.000 CY		.		.
0030	202004 Hard Surface Pavement Excavation	1800.000 CY		.		.
0040	206004 Borrow Structure Backfill	1200.000 CY		.		.
0050	207002 Trench Excavation and Backfill	1600.000 CY		.		.
0060	207004 Trench Undercut Excavation	154.000 CY		.		.
0070	207006 Gravel for Trench Undercut	526.000 CY		.		.
0080	207008 Borrow Trench Backfill	526.000 CY		.		.

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District Department of Transportation
 B.6 SCHEDULE OF ITEMS

PAGE: 2R
 DATE:
 REVISED:

CONTRACT ID: KA2007B0033 PROJECT(S): DCKA-2007-B-0033
BASE YEAR

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0090	207991 Trench Excavation and Backfill Special Item - CY - 207 007 GRAVEL FOR 6" WATER MAIN TRENCH UNDERCUT	154.000 CY	.		.	
0100	207991 Trench Excavation and Backfill Special Item - CY - 207 009 BORROW TRENCH FILL FOR 6" WATER MAIN	308.000 CY	.		.	
0110	207991 Trench Excavation and Backfill Special Item - CY - 207 031 TRENCH EXCAVATION & BACKFILL FOR 6" WATER MAIN	706.000 CY	.		.	
0120	209002 Aggregate Base Course	2000.000 CY	.		.	
0130	300004 Water and Sewer Service Special Item-EACH- 311 063 CLEAN SEWER STRUCTURE	10.000 EACH	.		.	
0140	300005 Water and Sewer Service Special Item-LF - 311 065 CLEAN SEWER PIPE	210.000 LF	.		.	
0150	302002 Valve Casing	14.000 EACH	.		.	
0160	305002 Ductile Iron Pipe, 4 - 8 Inch	1480.000 LF	.		.	

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District Department of Transportation

PAGE: 3R

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2007B0033

PROJECT(S): DCKA-2007-B-0033

BASE YEAR

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0170	305018 Extra Fittingd - Contractor Furnished	1300.000	.		.	
		LBS				
0180	306002 Gate Butterfly Valve, 3 - 12 Inch	12.000	.		.	
		EACH				
0190	307010 Convert Fire Hydrant	10.000	.		.	
		EACH				
0200	308012 Replace Water Service Pipe	700.000	.		.	
		LF				
0210	308014 Furnish and Install Curb Stop/Curb Stop Box	54.000	.		.	
		EACH				
0220	308016 Furnish&Install Water Meter Housing, Frame& Cover	54.000	.		.	
		EACH				
0230	308018 Water Service Test Hole	54.000	.		.	
		EACH				
0240	308024 Adjust Water Meter Frame AND COVER	400.000	.		.	
		EACH				
0250	308026 Reset Water Meter Unit	60.000	.		.	
		EACH				
0260	308028 Adjust Curb Cock Box	200.000	.		.	
		EACH				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0270	308032 Reset Curb Cock Unit	60.000 EACH	.		.	
0280	309002 Sewer Manhole on Sewer 48 Inch and Less Dia.	276.000 VLF	.		.	
0290	310002 Standard Basin	2.000 EACH	.		.	
0300	310004 Standard Double Basin	4.000 EACH	.		.	
0310	310008 Basin Connect PCC Pipe, Class III, 15 Inch	600.000 LF	.		.	
0320	310016 Type S Basin	4.000 EACH	.		.	
0330	310018 Double Type S Basin	14.000 EACH	.		.	
0340	311002 Adjust Sewer-Water-Utility Manhole Frame	500.000 EACH	.		.	
0350	311004 Reset Sewer-Water-Utility Manhole Frame	800.000 EACH	.		.	
0360	311010 Adjust Standard Basin Top	200.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0370	311016 Furnish Sewer-Water Manhole Frame	300.000 EACH	.		.	
0380	311018 Furnish Basin Top	100.000 EACH	.		.	
0390	311024 Rebuild Standard Basin / ELONGATION	70.000 CY	.		.	
0400	311028 Replace Existing Basin with Triple Basin	2.000 EACH	.		.	
0410	312004 Replace Conical Shaped Water Valve Casing	30.000 EACH	.		.	
0420	313002 Abandon Basin Connecting Pipe	6.000 EACH	.		.	
0430	313004 Abandon Sewer Manhole	2.000 EACH	.		.	
0440	313006 Abandon Basin	2.000 EACH	.		.	
0450	314004 PCC Pipe, Class III, Gasket, 15 Inch	1000.000 LF	.		.	
0460	314006 PCC Pipe, Class III, Gasket, 18 Inch	1000.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0470	314008 PCC Pipe, Class III, Gasket, 21 Inch	1000.000 LF	.	.	.	.
0480	314010 PCC Pipe, Class III, Gasket, 24 Inch	40.000 LF	.	.	.	.
0490	323002 PCC Collar for Sewers	4.000 CY	.	.	.	.
0500	402002 Superpave Base Course, 19 mm	1000.000 TON	.	.	.	.
0510	402010 Superpave Surface Course, 9.5 mm	1000.000 TON	.	.	.	.
0520	403002 Tack Coat	2000.000 SY	.	.	.	.
0530	407004 Temporary AC, Superpave Surface Course, 9.5 mm	260.000 TON	.	.	.	.
0540	410004 Repair-Replace Superpave Surface Course, 9.5 mm	600.000 TON	.	.	.	.
0550	501014 Extra Welded Wire Fabric, Style 66-46	400.000 SY
0560	502002 PCC Base	1000.000 CY

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0570	502991 Portland Cement Concrete Base Special Item -CY - 502 021 REMOVE AND REPLACE PCC BASE FOR 6" WATER MAIN	120.000 CY	.		.	
0580	505030 Anchor Bolts - Paving	200.000 EACH	.		.	
0590	506002 Repair PCC Pavement	160.000 CY	.		.	
0600	506004 Repair PCC Base	200.000 CY	.		.	
0610	506008 Repair PCC Driveway-Alley Entrance	1000.000 CY	.		.	
0620	602002 PCC Footing (Minor)	200.000 CY	.		.	
0630	602004 PCC Property Wall	200.000 CY	.		.	
0640	602008 PCC Steps	100.000 CY	.		.	
0650	602010 Standard PCC Coping	200.000 CY	.		.	
0660	602012 Special PCC Coping -	100.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0670	602991 Minor Structures Special Item - CY - 602 013 R\R PCC PROPERTY WALLS-STEPS- COPING	200.000 CY	.	.	.	.
0680	603002 Underdrain Pipe, 4 Inch	200.000 LF	.	.	.	.
0690	603004 Underdrain Pipe, 6 Inch	100.000 LF	.	.	.	.
0700	603010 Underdrain Connect Pipe, 4 Inch	100.000 LF	.	.	.	.
0710	603018 Underdrain Pipe Risers	300.000 VLF	.	.	.	.
0720	603991 Underdrain Special Item - LF - UNDERDRAIN CONNECT PIPE, 6 INCH 603 012	60.000 LF	.	.	.	.
0730	606002 Pavement Profiling (Milling)	2000.000 SY	.	.	.	.
0740	607002 Chain Link Fence, 4 Ft. Ht.	676.000 LF
0750	607004 Chain Link Fence, 6 Ft. Ht.	1000.000 LF

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0760	607991 Misc. Fencing Special Item - LF - 607 003 WOOD FENCE, 6 FT HT	200.000	.		.	
0770	607991 Misc. Fencing Special Item - LF - 607 005 TEMPORARY SAFETY FENCE	1000.000	.		.	
0780	607991 Misc. Fencing Special Item - LF - 607 041 REMOVE AND RESET CHAIN LINK FENCE & GATE	400.000	.		.	
0790	608004 PCC Sidewalk, 4 Inch	3000.000	.		.	
0800	608006 PCC Sidewalk, 6 Inch	600.000	.		.	
0810	608016 Repair-Replace PCC Sidewalk, 4 Inch	50000.000	.		.	
0820	608020 Repair-Replace Exposed Aggregate PCC Sidewalk	1000.000	.		.	
0830	608022 AC Walk	200.000	.		.	
0840	608024 Brick Sidewalk on PCC Base	10000.000	.		.	
0850	608026 Brick Sidewalk on Sand/Cement Bed	16000.000	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0860	608032 Brick Sidewalk Repair on PCC Base	2000.000 SY	.		.	
0870	608034 Brick Sidewalk Repair on Sand-Cement Base	4000.000 SY	.		.	
0880	608992 Sidwalks & Driveway Special Item - SY - 608 009 FURNISH AND INSTALL RUBBER SIDEWALK W/ ACC	8000.000 SY	.		.	
0890	608992 Sidwalks & Driveway Special Item - SY - 608 019 R/R MIS. PAVING & SIDEWALK	100.000 SY	.		.	
0900	608992 Sidwalks & Driveway Special Item - SY - 608 029 R/R EXT. SIDEWALK W/LONDON PAVERS	400.000 SY	.		.	
0910	608992 Sidwalks & Driveway Special Item - SY - 608 055 FURNISH AND SET BRICK PAVERS	200.000 SY	.		.	
0920	609002 PCC Curb and/or Gutter	200.000 CY	.		.	
0930	609004 PCC Circular Curb and/or Gutter	100.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0940	609040 PCC Circular Curb for Alley-Drive Entrance	150.000				
		LF	.		.	
0950	609050 Repair-Replace PCC Curb and/or Gutter	700.000				
		CY	.		.	
0960	609052 Repair-Replace PCC Circular Curb and/or Gutter	200.000				
		CY	.		.	
0970	609068 Furnish and Set 8"x12" Granite Straight Curb	2000.000				
		LF	.		.	
0980	609070 Furnish and Set 8"x12" Granite Circular Curb, Radius Under 10 Ft.	700.000				
		LF	.		.	
0990	609072 Furnish and Set 8"x12" Granite Circular Curb, Radius 10-100 Ft.	700.000				
		LF	.		.	
1000	609074 Furnish and Set 8"x12" Granite Circular Curb, Radius Over 100 Ft.	700.000				
		LF	.		.	
1010	609086 Reset Stone Curb	1000.000				
		LF	.		.	
1020	609100 AC Curb	1000.000				
		LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1030	609204 PCC Wheelchair/Bicycle Ramp	1000.000	.		.	
1040	609993 Curb, Gutter, & Paved Flume Special Item - LF - 609 051 R/R EX. GUTTER W/ BRICK ON PCC	200.000	.		.	
1050	610018 Sod with 3 Inch Topsoil	6000.000	.		.	
1060	611002 Remove Tree and Stump up to 6 Inch Dia.	10.000	.		.	
1070	611004 Remove Tree and Stump 6 to 12 Inch Dia.	10.000	.		.	
1080	611006 Remove Tree and Stump 12 to 18 Inch Dia.	10.000	.		.	
1090	611008 Remove Tree and Stump 18 to 24 Inch Dia.	10.000	.		.	
1100	611010 Remove Tree and Stump 24 to 30 Inch Dia.	10.000	.		.	
1110	611012 Remove Tree and Stump 30 to 36 Inch Dia.	10.000	.		.	
1120	611014 Remove Tree and Stump 36 to 42 Inch Dia.	10.000	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1130	611016 Remove Tree and Stump over 42 Inch Dia.	10.000 EACH	.		.	
1140	611028 Remove Tree Stump 5 to 12 Inch Dia.	10.000 EACH	.		.	
1150	611030 Remove Tree Stump 12 to 24 Inch Dia	10.000 EACH	.		.	
1160	611032 Remove Tree Stump 24 to 36 Inch Dia	10.000 EACH	.		.	
1170	611034 Remove Tree Stump over 36 Inch Dia.	10.000 EACH	.		.	
1180	611040 Prune Tree 6 Inch to 12 Inch Dia.	8.000 EACH	.		.	
1190	611042 Prune Tree 12 Inch to 18 Inch Dia.	8.000 EACH	.		.	
1200	611044 Prune Tree 18 Inch to 24 Inch Dia.	8.000 EACH	.		.	
1210	611046 Prune Tree 24 Inch to 30 Inch Dia.	8.000 EACH	.		.	
1220	611048 Prune Tree 30 Inch to 36 Inch Dia.	8.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1230	611050 Prune Tree over 36 Inch Dia.	8.000 EACH	.		.	
1240	612002 Mobilization	ONE JOB	ONE JOB		.	
1250	615004 Three-Ply Membrane Waterproofing	100.000 SY	.		.	
1260	616001 Maintenance of Highway Traffic	ONE JOB	ONE JOB		.	
1270	616122 Steel Protection Plate 5'X10'	20.000 EACH	.		.	
1280	616992 Traffic Control Special Item - EACH - 624 029 STEEL PROTECTION PLATE FOR 6" WA TER MAIN	40.000 EACH	.		.	
1290	628002 Erosion and Sediment Control	ONE JOB	ONE JOB		.	
1300	704002 Reinforcing Steel	200.000 LBS	.		.	
1310	709002 Steel Railing (STEEL PIPE RAILING)	200.000 LF	.		.	
	BASE YEAR TOTAL				.	

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THE CONTRACTOR WILL BE PAID ONLY ONCE FOR THE BASE PERIOD AND ONLY ONCE FOR THE OPTION YEARS FOR EACH PAY ITEM NUMBER WHERE THE TERM ONE JOB APPEARS.

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1320	201002 Clear and Grub	ONE JOB	ONE JOB			.
1330	202002 Common Excavation	6000.000 CY		.		.
1340	202004 Hard Surface Pavement Excavation	1800.000 CY		.		.
1350	206004 Borrow Structure Backfill	1200.000 CY		.		.
1360	207002 Trench Excavation and Backfill	1600.000 CY		.		.
1370	207004 Trench Undercut Excavation	154.000 CY		.		.
1380	207006 Gravel for Trench Undercut	526.000 CY		.		.
1390	207008 Borrow Trench Backfill	526.000 CY		.		.
1400	207991 Trench Excavation and Backfill Special Item - CY - 207 007 GRAVEL FOR 6" WATER MAIN TRENCH UNDERCUT	154.000 CY		.		.

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1410	207991 Trench Excavation and Backfill Special Item - CY - 207 009 BORROW TRENCH FILL FOR 6" WATER MAIN	308.000 CY	.		.	
1420	207991 Trench Excavation and Backfill Special Item - CY - 207 031 TRENCH EXCAVATION & BACKFILL FOR 6" WATER MAIN	706.000 CY	.		.	
1430	209002 Aggregate Base Course	2000.000 CY	.		.	
1440	300004 Water and Sewer Service Special Item-EACH- 311 063 CLEAN SEWER STRUCTURE	10.000 EACH	.		.	
1450	300005 Water and Sewer Service Special Item-LF - 311 065 CLEAN SEWER PIPE	210.000 LF	.		.	
1460	302002 Valve Casing	14.000 EACH	.		.	
1470	305002 Ductile Iron Pipe, 4 - 8 Inch	1480.000 LF	.		.	
1480	305018 Extra Fitting - Contractor Furnished	1300.000 LBS	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1490	306002 Gate Butterfly Valve, 3 - 12 Inch	12.000 EACH	.		.	
1500	307010 Convert Fire Hydrant	10.000 EACH	.		.	
1510	308012 Replace Water Service Pipe	700.000 LF	.		.	
1520	308014 Furnish and Install Curb Stop/Curb Stop Box	54.000 EACH	.		.	
1530	308016 Furnish&Install Water Meter Housing, Frame& Cover	54.000 EACH	.		.	
1540	308018 Water Service Test Hole	54.000 EACH	.		.	
1550	308024 Adjust Water Meter Frame AND COVER	400.000 EACH	.		.	
1560	308026 Reset Water Meter Unit	60.000 EACH	.		.	
1570	308028 Adjust Curb Cock Box	200.000 EACH	.		.	
1580	308032 Reset Curb Cock Unit	60.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1590	309002 Sewer Manhole on Sewer 48 Inch and Less Dia.	276.000 VLF	.		.	
1600	310002 Standard Basin	2.000 EACH	.		.	
1610	310004 Standard Double Basin	4.000 EACH	.		.	
1620	310008 Basin Connect PCC Pipe, Class III, 15 Inch	600.000 LF	.		.	
1630	310016 Type S Basin	4.000 EACH	.		.	
1640	310018 Double Type S Basin	14.000 EACH	.		.	
1650	311002 Adjust Sewer-Water-Utility Manhole Frame	500.000 EACH	.		.	
1660	311004 Reset Sewer-Water-Utility Manhole Frame	800.000 EACH	.		.	
1670	311010 Adjust Standard Basin Top	200.000 EACH	.		.	
1680	311016 Furnish Sewer-Water Manhole Frame	300.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1690	311018 Furnish Basin Top	100.000				
	EACH		.		.	
1700	311024 Rebuild Standard Basin / ELONGATION	70.000				
	CY		.		.	
1710	311028 Replace Existing Basin with Triple Basin	2.000				
	EACH		.		.	
1720	312004 Replace Conical Shaped Water Valve Casing	30.000				
	EACH		.		.	
1730	313002 Abandon Basin Connecting Pipe	6.000				
	EACH		.		.	
1740	313004 Abandon Sewer Manhole	2.000				
	EACH		.		.	
1750	313006 Abandon Basin	2.000				
	EACH		.		.	
1760	314004 PCC Pipe, Class III, Gasket, 15 Inch	1000.000				
	LF		.		.	
1770	314006 PCC Pipe, Class III, Gasket, 18 Inch	1000.000				
	LF		.		.	
1780	314008 PCC Pipe, Class III, Gasket, 21 Inch	1000.000				
	LF		.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1790	314010 PCC Pipe, Class III, Gasket, 24 Inch	40.000 LF	.		.	
1800	323002 PCC Collar for Sewers	4.000 CY	.		.	
1810	402002 Superpave Base Course, 19 mm	1000.000 TON	.		.	
1820	402010 Superpave Surface Course, 9.5 mm	1000.000 TON	.		.	
1830	403002 Tack Coat	2000.000 SY	.		.	
1840	407004 Temporary AC, Superpave Surface Course, 9.5 mm	260.000 TON	.		.	
1850	410004 Repair-Replace Superpave Surface Course, 9.5 mm	600.000 TON	.		.	
1860	501014 Extra Welded Wire Fabric, Style 66-46	400.000 SY	.		.	
1870	502002 PCC Base	1000.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1880	502991 Portland Cement Concrete Base Special Item -CY - 502 021 REMOVE AND REPLACE PCC BASE FOR 6" WATER MAIN	120.000 CY	.		.	
1890	505030 Anchor Bolts - Paving	200.000 EACH	.		.	
1900	506002 Repair PCC Pavement	160.000 CY	.		.	
1910	506004 Repair PCC Base	200.000 CY	.		.	
1920	506008 Repair PCC Driveway-Alley Entrance	1000.000 CY	.		.	
1930	602002 PCC Footing (Minor)	200.000 CY	.		.	
1940	602004 PCC Property Wall	200.000 CY	.		.	
1950	602008 PCC Steps	100.000 CY	.		.	
1960	602010 Standard PCC Coping	200.000 CY	.		.	
1970	602012 Special PCC Coping -	100.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1980	602991 Minor Structures Special Item - CY - 602 013 R\R PCC PROPERTY WALLS-STEPS- COPING	200.000 CY	.	.	.	.
1990	603002 Underdrain Pipe, 4 Inch	200.000 LF	.	.	.	.
2000	603004 Underdrain Pipe, 6 Inch	100.000 LF	.	.	.	.
2010	603010 Underdrain Connect Pipe, 4 Inch	100.000 LF	.	.	.	.
2020	603018 Underdrain Pipe Risers	300.000 VLF	.	.	.	.
2030	603991 Underdrain Special Item - LF - UNDERDRAIN CONNECT PIPE, 6 INCH 603 012	60.000 LF	.	.	.	.
2040	606002 Pavement Profiling (Milling)	2000.000 SY	.	.	.	.
2050	607002 Chain Link Fence, 4 Ft. Ht.	676.000 LF
2060	607004 Chain Link Fence, 6 Ft. Ht.	1000.000 LF

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OPTION YEAR 1

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2070	607991 Misc. Fencing Special Item - LF - 607 003 WOOD FENCE, 6 FT HT	200.000	.		.	
2080	607991 Misc. Fencing Special Item - LF - 607 005 TEMPORARY SAFETY FENCE	1000.000	.		.	
2090	607991 Misc. Fencing Special Item - LF - 607 041 REMOVE AND RESET CHAIN LINK FENC E & GATE	400.000	.		.	
2100	608004 PCC Sidewalk, 4 Inch	3000.000	.		.	
2110	608006 PCC Sidewalk, 6 Inch	600.000	.		.	
2120	608016 Repair-Replace PCC Sidewalk, 4 Inch	50000.000	.		.	
2130	608020 Repair-Replace Exposed Aggregate PCC Sidewalk	1000.000	.		.	
2140	608022 AC Walk	200.000	.		.	
2150	608024 Brick Sidewalk on PCC Base	10000.000	.		.	
2160	608026 Brick Sidewalk on Sand/Cement Bed	16000.000	.		.	

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2170	608032 Brick Sidewalk Repair on PCC Base	2000.000 SY	.		.	
2180	608034 Brick Sidewalk Repair on Sand-Cement Base	4000.000 SY	.		.	
2190	608992 Sidwalks & Driveway Special Item - SY - 608 009 FURNISH AND INSTALL RUBBER SIDEWALK W/ ACC	8000.000 SY	.		.	
2200	608992 Sidwalks & Driveway Special Item - SY - 608 019 R/R MIS. PAVING & SIDEWALK	100.000 SY	.		.	
2210	608992 Sidwalks & Driveway Special Item - SY - 608 029 R/R EXT. SIDEWALK W/LONDON PAVERS	400.000 SY	.		.	
2220	608992 Sidwalks & Driveway Special Item - SY - 608 055 FURNISH AND SET BRICK PAVERS	200.000 SY	.		.	
2230	609002 PCC Curb and/or Gutter	200.000 CY	.		.	
2240	609004 PCC Circular Curb and/or Gutter	100.000 CY	.		.	

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2250	609040 PCC Circular Curb for Alley-Drive Entrance	150.000				
		LF	.		.	
2260	609050 Repair-Replace PCC Curb and/or Gutter	700.000				
		CY	.		.	
2270	609052 Repair-Replace PCC Circular Curb and/or Gutter	200.000				
		CY	.		.	
2280	609068 Furnish and Set 8"x12" Granite Straight Curb	2000.000				
		LF	.		.	
2290	609070 Furnish and Set 8"x12" Granite Circular Curb, Radius Under 10 Ft.	700.000				
		LF	.		.	
2300	609072 Furnish and Set 8"x12" Granite Circular Curb, Radius 10-100 Ft.	700.000				
		LF	.		.	
2310	609074 Furnish and Set 8"x12" Granite Circular Curb, Radius Over 100 Ft.	700.000				
		LF	.		.	
2320	609086 Reset Stone Curb	1000.000				
		LF	.		.	
2330	609100 AC Curb	1000.000				
		LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2340	609204 PCC Wheelchair/Bicycle Ramp	1000.000				
		SY	.		.	
2350	609993 Curb, Gutter, & Paved Flume Special Item - LF - 609 051 R/R EX. GUTTER W/ BRICK ON PCC	200.000				
		LF	.		.	
2360	610018 Sod with 3 Inch Topsoil	6000.000				
		SY	.		.	
2370	611002 Remove Tree and Stump up to 6 Inch Dia.	10.000				
		EACH	.		.	
2380	611004 Remove Tree and Stump 6 to 12 Inch Dia.	10.000				
		EACH	.		.	
2390	611006 Remove Tree and Stump 12 to 18 Inch Dia.	10.000				
		EACH	.		.	
2400	611008 Remove Tree and Stump 18 to 24 Inch Dia.	10.000				
		EACH	.		.	
2410	611010 Remove Tree and Stump 24 to 30 Inch Dia.	10.000				
		EACH	.		.	
2420	611012 Remove Tree and Stump 30 to 36 Inch Dia.	10.000				
		EACH	.		.	
2430	611014 Remove Tree and Stump 36 to 42 Inch Dia.	10.000				
		EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2440	611016 Remove Tree and Stump over 42 Inch Dia.	10.000 EACH	.		.	
2450	611028 Remove Tree Stump 5 to 12 Inch Dia.	10.000 EACH	.		.	
2460	611030 Remove Tree Stump 12 to 24 Inch Dia	10.000 EACH	.		.	
2470	611032 Remove Tree Stump 24 to 36 Inch Dia	10.000 EACH	.		.	
2480	611034 Remove Tree Stump over 36 Inch Dia.	10.000 EACH	.		.	
2490	611040 Prune Tree 6 Inch to 12 Inch Dia.	8.000 EACH	.		.	
2500	611042 Prune Tree 12 Inch to 18 Inch Dia.	8.000 EACH	.		.	
2510	611044 Prune Tree 18 Inch to 24 Inch Dia.	8.000 EACH	.		.	
2520	611046 Prune Tree 24 Inch to 30 Inch Dia.	8.000 EACH	.		.	
2530	611048 Prune Tree 30 Inch to 36 Inch Dia.	8.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2540	611050 Prune Tree over 36 Inch Dia.	8.000 EACH	.		.	
2550	612002 Mobilization	ONE JOB	ONE JOB		.	
2560	615004 Three-Ply Membrane Waterproofing	100.000 SY	.		.	
2570	616001 Maintenance of Highway Traffic	ONE JOB	ONE JOB		.	
2580	616122 Steel Protection Plate 5'X10'	20.000 EACH	.		.	
2590	616992 Traffic Control Special Item - EACH - 624 029 STEEL PROTECTION PLATE FOR 6" WATER MAIN	40.000 EACH	.		.	
2600	628002 Erosion and Sediment Control	ONE JOB	ONE JOB		.	
2610	704002 Reinforcing Steel	200.000 LBS	.		.	
2620	709002 Steel Railing (STEEL PIPE RAILING)	200.000 LF	.		.	
OPTION YEAR 1 TOTAL					.	

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THE CONTRACTOR WILL BE PAID ONLY ONCE FOR THE BASE YEAR PERIOD AND ONLY ONCE FOR THE OPTION YEARS FOR EACH PAY ITEM NUMBER WHERE THE TERM ONE JOB APPEARS

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2630	201002 Clear and Grub	ONE JOB	ONE JOB			.
2640	202002 Common Excavation	6000.000 CY		.		.
2650	202004 Hard Surface Pavement Excavation	1800.000 CY		.		.
2660	206004 Borrow Structure Backfill	1200.000 CY		.		.
2670	207002 Trench Excavation and Backfill	1600.000 CY		.		.
2680	207004 Trench Undercut Excavation	154.000 CY		.		.
2690	207006 Gravel for Trench Undercut	526.000 CY		.		.
2700	207008 Borrow Trench Backfill	526.000 CY		.		.
2710	207991 Trench Excavation and Backfill Special Item - CY - 207 007 GRAVEL FOR 6" WATER MAIN TRENCH UNDERCUT	154.000 CY		.		.

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2720	207991 Trench Excavation and Backfill Special Item - CY - 207 009 BORROW TRENCH FILL FOR 6" WATER MAIN	CY 308.000	.		.	
2730	207991 Trench Excavation and Backfill Special Item - CY - 207 031 TRENCH EXCAVATION & BACKFILL FOR 6" WATER MAIN	CY 706.000	.		.	
2740	209002 Aggregate Base Course	CY 2000.000	.		.	
2750	300004 Water and Sewer Service Special Item-EACH- 311 063 CLEAN SEWER STRUCTURE	EACH 10.000	.		.	
2760	300005 Water and Sewer Service Special Item-LF - 311 065 CLEAN SEWER PIPE	LF 210.000	.		.	
2770	302002 Valve Casing	EACH 14.000	.		.	
2780	305002 Ductile Iron Pipe, 4 - 8 Inch	LF 1480.000	.		.	
2790	305018 Extra Fitting - Contractor Furnished	LBS 1300.000	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2800	306002 Gate Butterfly Valve, 3 - 12 Inch	12.000 EACH	.		.	
2810	307010 Convert Fire Hydrant	10.000 EACH	.		.	
2820	308012 Replace Water Service Pipe	700.000 LF	.		.	
2830	308014 Furnish and Install Curb Stop/Curb Stop Box	54.000 EACH	.		.	
2840	308016 Furnish&Install Water Meter Housing, Frame& Cover	54.000 EACH	.		.	
2850	308018 Water Service Test Hole	54.000 EACH	.		.	
2860	308024 Adjust Water Meter Frame AND COVER	400.000 EACH	.		.	
2870	308026 Reset Water Meter Unit	60.000 EACH	.		.	
2880	308028 Adjust Curb Cock Box	200.000 EACH	.		.	
2890	308032 Reset Curb Cock Unit	60.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2900	309002 Sewer Manhole on Sewer 48 Inch and Less Dia.	276.000 VLF	.		.	
2910	310002 Standard Basin	2.000 EACH	.		.	
2920	310004 Standard Double Basin	4.000 EACH	.		.	
2930	310008 Basin Connect PCC Pipe, Class III, 15 Inch	600.000 LF	.		.	
2940	310016 Type S Basin	4.000 EACH	.		.	
2950	310018 Double Type S Basin	14.000 EACH	.		.	
2960	311002 Adjust Sewer-Water-Utility Manhole Frame	500.000 EACH	.		.	
2970	311004 Reset Sewer-Water-Utility Manhole Frame	800.000 EACH	.		.	
2980	311010 Adjust Standard Basin Top	200.000 EACH	.		.	
2990	311016 Furnish Sewer-Water Manhole Frame	300.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3000	311018 Furnish Basin Top	100.000				
		EACH	.		.	
3010	311024 Rebuild Standard Basin / ELONGATION	70.000				
		CY	.		.	
3020	311028 Replace Existing Basin with Triple Basin	2.000				
		EACH	.		.	
3030	312004 Replace Conical Shaped Water Valve Casing	30.000				
		EACH	.		.	
3040	313002 Abandon Basin Connecting Pipe	6.000				
		EACH	.		.	
3050	313004 Abandon Sewer Manhole	2.000				
		EACH	.		.	
3060	313006 Abandon Basin	2.000				
		EACH	.		.	
3070	314004 PCC Pipe, Class III, Gasket, 15 Inch	1000.000				
		LF	.		.	
3080	314006 PCC Pipe, Class III, Gasket, 18 Inch	1000.000				
		LF	.		.	
3090	314008 PCC Pipe, Class III, Gasket, 21 Inch	1000.000				
		LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3100	314010 PCC Pipe, Class III, Gasket, 24 Inch	40.000 LF	.		.	
3110	323002 PCC Collar for Sewers	4.000 CY	.		.	
3120	402002 Superpave Base Course, 19 mm	1000.000 TON	.		.	
3130	402010 Superpave Surface Course, 9.5 mm	1000.000 TON	.		.	
3140	403002 Tack Coat	2000.000 SY	.		.	
3150	407004 Temporary AC, Superpave Surface Course, 9.5 mm	260.000 TON	.		.	
3160	410004 Repair-Replace Superpave Surface Course, 9.5 mm	600.000 TON	.		.	
3170	501014 Extra Welded Wire Fabric, Style 66-46	400.000 SY	.		.	
3180	502002 PCC Base	1000.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3190	502991 Portland Cement Concrete Base Special Item -CY - 502 021 REMOVE AND REPLACE PCC BASE FOR 6" WATER MAIN	120.000 CY	.		.	
3200	505030 Anchor Bolts - Paving	200.000 EACH	.		.	
3210	506002 Repair PCC Pavement	160.000 CY	.		.	
3220	506004 Repair PCC Base	200.000 CY	.		.	
3230	506008 Repair PCC Driveway-Alley Entrance	1000.000 CY	.		.	
3240	602002 PCC Footing (Minor)	200.000 CY	.		.	
3250	602004 PCC Property Wall	200.000 CY	.		.	
3260	602008 PCC Steps	100.000 CY	.		.	
3270	602010 Standard PCC Coping	200.000 CY	.		.	
3280	602012 Special PCC Coping -	100.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3290	602991 Minor Structures Special Item - CY - 602 013 R\R PCC PROPERTY WALLS-STEPS- COPING	200.000 CY	.		.	
3300	603002 Underdrain Pipe, 4 Inch	200.000 LF	.		.	
3310	603004 Underdrain Pipe, 6 Inch	100.000 LF	.		.	
3320	603010 Underdrain Connect Pipe, 4 Inch	100.000 LF	.		.	
3330	603018 Underdrain Pipe Risers	300.000 VLF	.		.	
3340	603991 Underdrain Special Item - LF - UNDERDRAIN CONNECT PIPE, 6 INCH 603 012	60.000 LF	.		.	
3350	606002 Pavement Profiling (Milling)	2000.000 SY	.		.	
3360	607002 Chain Link Fence, 4 Ft. Ht.	676.000 LF	.		.	
3370	607004 Chain Link Fence, 6 Ft. Ht.	1000.000 LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3380	607991 Misc. Fencing Special Item - LF - 607 003 WOOD FENCE, 6 FT HT	200.000	.		.	
3390	607991 Misc. Fencing Special Item - LF - 607 005 TEMPORARY SAFETY FENCE	1000.000	.		.	
3400	607991 Misc. Fencing Special Item - LF - 607 041 REMOVE AND RESET CHAIN LINK FENCE & GATE	400.000	.		.	
3410	608004 PCC Sidewalk, 4 Inch	3000.000	.		.	
3420	608006 PCC Sidewalk, 6 Inch	600.000	.		.	
3430	608016 Repair-Replace PCC Sidewalk, 4 Inch	50000.000	.		.	
3440	608020 Repair-Replace Exposed Aggregate PCC Sidewalk	1000.000	.		.	
3450	608022 AC Walk	200.000	.		.	
3460	608024 Brick Sidewalk on PCC Base	10000.000	.		.	
3470	608026 Brick Sidewalk on Sand/Cement Bed	16000.000	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3480	608032 Brick Sidewalk Repair on PCC Base	2000.000 SY	.		.	
3490	608034 Brick Sidewalk Repair on Sand-Cement Base	4000.000 SY	.		.	
3500	608992 Sidwalks & Driveway Special Item - SY - 608 009 FURNISH AND INSTALL RUBBER SIDEWALK W/ ACC	8000.000 SY	.		.	
3510	608992 Sidwalks & Driveway Special Item - SY - 608 019 R/R MIS. PAVING & SIDEWALK	100.000 SY	.		.	
3520	608992 Sidwalks & Driveway Special Item - SY - 608 029 R/R EXT. SIDEWALK W/LONDON PAVERS	400.000 SY	.		.	
3530	608992 Sidwalks & Driveway Special Item - SY - 608 055 FURNISH AND SET BRICK PAVERS	200.000 SY	.		.	
3540	609002 PCC Curb and/or Gutter	200.000 CY	.		.	
3550	609004 PCC Circular Curb and/or Gutter	100.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3560	609040 PCC Circular Curb for Alley-Drive Entrance	150.000				
		LF	.		.	
3570	609050 Repair-Replace PCC Curb and/or Gutter	700.000				
		CY	.		.	
3580	609052 Repair-Replace PCC Circular Curb and/or Gutter	200.000				
		CY	.		.	
3590	609068 Furnish and Set 8"x12" Granite Straight Curb	2000.000				
		LF	.		.	
3600	609070 Furnish and Set 8"x12" Granite Circular Curb, Radius Under 10 Ft.	700.000				
		LF	.		.	
3610	609072 Furnish and Set 8"x12" Granite Circular Curb, Radius 10-100 Ft.	700.000				
		LF	.		.	
3620	609074 Furnish and Set 8"x12" Granite Circular Curb, Radius Over 100 Ft.	700.000				
		LF	.		.	
3630	609086 Reset Stone Curb	1000.000				
		LF	.		.	
3640	609100 AC Curb	1000.000				
		LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3650	609204 PCC Wheelchair/Bicycle Ramp	1000.000				
		SY	.		.	
3660	609993 Curb, Gutter, & Paved Flume Special Item - LF - 609 051 R/R EX. GUTTER W/ BRICK ON PCC	200.000				
		LF	.		.	
3670	610018 Sod with 3 Inch Topsoil	6000.000				
		SY	.		.	
3680	611002 Remove Tree and Stump up to 6 Inch Dia.	10.000				
		EACH	.		.	
3690	611004 Remove Tree and Stump 6 to 12 Inch Dia.	10.000				
		EACH	.		.	
3700	611006 Remove Tree and Stump 12 to 18 Inch Dia.	10.000				
		EACH	.		.	
3710	611008 Remove Tree and Stump 18 to 24 Inch Dia.	10.000				
		EACH	.		.	
3720	611010 Remove Tree and Stump 24 to 30 Inch Dia.	10.000				
		EACH	.		.	
3730	611012 Remove Tree and Stump 30 to 36 Inch Dia.	10.000				
		EACH	.		.	
3740	611014 Remove Tree and Stump 36 to 42 Inch Dia.	10.000				
		EACH	.		.	

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CONTRACT ID: KA2007B0033

PROJECT(S): DCKA-2007-B-0033

OPTION YEAR 2

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3750	611016 Remove Tree and Stump over 42 Inch Dia.	10.000 EACH	.		.	
3760	611028 Remove Tree Stump 5 to 12 Inch Dia.	10.000 EACH	.		.	
3770	611030 Remove Tree Stump 12 to 24 Inch Dia	10.000 EACH	.		.	
3780	611032 Remove Tree Stump 24 to 36 Inch Dia	10.000 EACH	.		.	
3790	611034 Remove Tree Stump over 36 Inch Dia.	10.000 EACH	.		.	
3800	611040 Prune Tree 6 Inch to 12 Inch Dia.	8.000 EACH	.		.	
3810	611042 Prune Tree 12 Inch to 18 Inch Dia.	8.000 EACH	.		.	
3820	611044 Prune Tree 18 Inch to 24 Inch Dia.	8.000 EACH	.		.	
3830	611046 Prune Tree 24 Inch to 30 Inch Dia.	8.000 EACH	.		.	
3840	611048 Prune Tree 30 Inch to 36 Inch Dia.	8.000 EACH	.		.	

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PROJECT(S): DCKA-2007-B-0033
OPTION YEAR 2

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3850	611050 Prune Tree over 36 Inch Dia.	8.000 EACH	.		.	
3860	612002 Mobilization	ONE JOB	ONE JOB		.	
3870	615004 Three-Ply Membrane Waterproofing	100.000 SY	.		.	
3880	616001 Maintenance of Highway Traffic	ONE JOB	ONE JOB		.	
3890	616122 Steel Protection Plate 5'X10'	20.000 EACH	.		.	
3900	616992 Traffic Control Special Item - EACH - 624 029 STEEL PROTECTION PLATE FOR 6" WATER MAIN	40.000 EACH	.		.	
3910	628002 Erosion and Sediment Control	ONE JOB	ONE JOB		.	
3920	704002 Reinforcing Steel	200.000 LBS	.		.	
3930	709002 Steel Railing (STEEL PIPE RAILING)	200.000 LF	.		.	
OPTION YEAR 2 TOTAL					.	

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OPTION YEAR 3

THE CONTRACTOR WILL BE PAID ONLY ONCE FOR THE BASE YEAR AND ONLY ONCE FOR THE OPTION YEARS FOR EACH PAY ITEM NUMBER WHERE THE TERM ONE JOB APPEARS.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3940	201002 Clear and Grub	ONE JOB	ONE JOB			.
3950	202002 Common Excavation	6000.000 CY		.		.
3960	202004 Hard Surface Pavement Excavation	1800.000 CY		.		.
3970	206004 Borrow Structure Backfill	1200.000 CY		.		.
3980	207002 Trench Excavation and Backfill	1600.000 CY		.		.
3990	207004 Trench Undercut Excavation	154.000 CY		.		.
4000	207006 Gravel for Trench Undercut	526.000 CY		.		.
4010	207008 Borrow Trench Backfill	526.000 CY		.		.
4020	207991 Trench Excavation and Backfill Special Item - CY - 207 007 GRAVEL FOR 6" WATER MAIN TRENCH UNDERCUT	154.000 CY		.		.

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OPTION YEAR 3

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4030	207991 Trench Excavation and Backfill Special Item - CY - 207 009 BORROW TRENCH FILL FOR 6" WATER MAIN	308.000 CY	.		.	
4040	207991 Trench Excavation and Backfill Special Item - CY - 207 031 TRENCH EXCAVATION & BACKFILL FOR 6" WATER MAIN	706.000 CY	.		.	
4050	209002 Aggregate Base Course	2000.000 CY	.		.	
4060	300004 Water and Sewer Service Special Item-EACH- 311 063 CLEAN SEWER STRUCTURE	10.000 EACH	.		.	
4070	300005 Water and Sewer Service Special Item-LF - 311 065 CLEAN SEWER PIPE	210.000 LF	.		.	
4080	302002 Valve Casing	14.000 EACH	.		.	
4090	305002 Ductile Iron Pipe, 4 - 8 Inch	1480.000 LF	.		.	
4100	305018 Extra Fitting - Contractor Furnished	1300.000 LBS	.		.	

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4110	306002 Gate Butterfly Valve, 3 - 12 Inch	12.000 EACH	.		.	
4120	307010 Convert Fire Hydrant	10.000 EACH	.		.	
4130	308012 Replace Water Service Pipe	700.000 LF	.		.	
4140	308014 Furnish and Install Curb Stop/Curb Stop Box	54.000 EACH	.		.	
4150	308016 Furnish&Install Water Meter Housing, Frame& Cover	54.000 EACH	.		.	
4160	308018 Water Service Test Hole	54.000 EACH	.		.	
4170	308024 Adjust Water Meter Frame AND COVER	400.000 EACH	.		.	
4180	308026 Reset Water Meter Unit	60.000 EACH	.		.	
4190	308028 Adjust Curb Cock Box	200.000 EACH	.		.	
4200	308032 Reset Curb Cock Unit	60.000 EACH	.		.	

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4210	309002 Sewer Manhole on Sewer 48 Inch and Less Dia.	276.000 VLF	.		.	
4220	310002 Standard Basin	2.000 EACH	.		.	
4230	310004 Standard Double Basin	4.000 EACH	.		.	
4240	310008 Basin Connect PCC Pipe, Class III, 15 Inch	600.000 LF	.		.	
4250	310016 Type S Basin	4.000 EACH	.		.	
4260	310018 Double Type S Basin	14.000 EACH	.		.	
4270	311002 Adjust Sewer-Water-Utility Manhole Frame	500.000 EACH	.		.	
4280	311004 Reset Sewer-Water-Utility Manhole Frame	800.000 EACH	.		.	
4290	311010 Adjust Standard Basin Top	200.000 EACH	.		.	
4300	311016 Furnish Sewer-Water Manhole Frame	300.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4310	311018 Furnish Basin Top	100.000				
		EACH	.		.	
4320	311024 Rebuild Standard Basin / ELONGATION	70.000				
		CY	.		.	
4330	311028 Replace Existing Basin with Triple Basin	2.000				
		EACH	.		.	
4340	312004 Replace Conical Shaped Water Valve Casing	30.000				
		EACH	.		.	
4350	313002 Abandon Basin Connecting Pipe	6.000				
		EACH	.		.	
4360	313004 Abandon Sewer Manhole	2.000				
		EACH	.		.	
4370	313006 Abandon Basin	2.000				
		EACH	.		.	
4380	314004 PCC Pipe, Class III, Gasket, 15 Inch	1000.000				
		LF	.		.	
4390	314006 PCC Pipe, Class III, Gasket, 18 Inch	1000.000				
		LF	.		.	
4400	314008 PCC Pipe, Class III, Gasket, 21 Inch	1000.000				
		LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4410	314010 PCC Pipe, Class III, Gasket, 24 Inch	40.000 LF	.		.	
4420	323002 PCC Collar for Sewers	4.000 CY	.		.	
4430	402002 Superpave Base Course, 19 mm	1000.000 TON	.		.	
4440	402010 Superpave Surface Course, 9.5 mm	1000.000 TON	.		.	
4450	403002 Tack Coat	2000.000 SY	.		.	
4460	407004 Temporary AC, Superpave Surface Course, 9.5 mm	260.000 TON	.		.	
4470	410004 Repair-Replace Superpave Surface Course, 9.5 mm	600.000 TON	.		.	
4480	501014 Extra Welded Wire Fabric, Style 66-46	400.000 SY	.		.	
4490	502002 PCC Base	1000.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4500	502991 Portland Cement Concrete Base Special Item -CY - 502 021 REMOVE AND REPLACE PCC BASE FOR 6" WATER MAIN	120.000 CY	.		.	
4510	505030 Anchor Bolts - Paving	200.000 EACH	.		.	
4520	506002 Repair PCC Pavement	160.000 CY	.		.	
4530	506004 Repair PCC Base	200.000 CY	.		.	
4540	506008 Repair PCC Driveway-Alley Entrance	1000.000 CY	.		.	
4550	602002 PCC Footing (Minor)	200.000 CY	.		.	
4560	602004 PCC Property Wall	200.000 CY	.		.	
4570	602008 PCC Steps	100.000 CY	.		.	
4580	602010 Standard PCC Coping	200.000 CY	.		.	
4590	602012 Special PCC Coping -	100.000 CY	.		.	

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4600	602991 Minor Structures Special Item - CY - 602 013 R\R PCC PROPERTY WALLS-STEPS- COPING	200.000 CY	.	.	.	.
4610	603002 Underdrain Pipe, 4 Inch	200.000 LF	.	.	.	.
4620	603004 Underdrain Pipe, 6 Inch	100.000 LF	.	.	.	.
4630	603010 Underdrain Connect Pipe, 4 Inch	100.000 LF	.	.	.	.
4640	603018 Underdrain Pipe Risers	300.000 VLF	.	.	.	.
4650	603991 Underdrain Special Item - LF - UNDERDRAIN CONNECT PIPE, 6 INCH 603 012	60.000 LF	.	.	.	.
4660	606002 Pavement Profiling (Milling)	2000.000 SY	.	.	.	.
4670	607002 Chain Link Fence, 4 Ft. Ht.	676.000 LF
4680	607004 Chain Link Fence, 6 Ft. Ht.	1000.000 LF

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4690	607991 Misc. Fencing Special Item - LF - 607 003 WOOD FENCE, 6 FT HT	200.000	.		.	
4700	607991 Misc. Fencing Special Item - LF - 607 005 TEMPORARY SAFETY FENCE	1000.000	.		.	
4710	607991 Misc. Fencing Special Item - LF - 607 041 REMOVE AND RESET CHAIN LINK FENCE & GATE	400.000	.		.	
4720	608004 PCC Sidewalk, 4 Inch	3000.000	.		.	
4730	608006 PCC Sidewalk, 6 Inch	600.000	.		.	
4740	608016 Repair-Replace PCC Sidewalk, 4 Inch	50000.000	.		.	
4750	608020 Repair-Replace Exposed Aggregate PCC Sidewalk	1000.000	.		.	
4760	608022 AC Walk	200.000	.		.	
4770	608024 Brick Sidewalk on PCC Base	10000.000	.		.	
4780	608026 Brick Sidewalk on Sand/Cement Bed	16000.000	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4790	608032 Brick Sidewalk Repair on PCC Base	2000.000 SY	.		.	
4800	608034 Brick Sidewalk Repair on Sand-Cement Base	4000.000 SY	.		.	
4810	608992 Sidwalks & Driveway Special Item - SY - 608 009 FURNISH AND INSTALL RUBBER SIDEWALK W/ ACC	8000.000 SY	.		.	
4820	608992 Sidwalks & Driveway Special Item - SY - 608 019 R/R MIS. PAVING & SIDEWALK	100.000 SY	.		.	
4830	608992 Sidwalks & Driveway Special Item - SY - 608 029 R/R EXT. SIDEWALK W/LONDON PAVERS	400.000 SY	.		.	
4840	608992 Sidwalks & Driveway Special Item - SY - 608 055 FURNISH AND SET BRICK PAVERS	200.000 SY	.		.	
4850	609002 PCC Curb and/or Gutter	200.000 CY	.		.	
4860	609004 PCC Circular Curb and/or Gutter	100.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4870	609040 PCC Circular Curb for Alley-Drive Entrance	150.000				
		LF	.		.	
4880	609050 Repair-Replace PCC Curb and/or Gutter	700.000				
		CY	.		.	
4890	609052 Repair-Replace PCC Circular Curb and/or Gutter	200.000				
		CY	.		.	
4900	609068 Furnish and Set 8"x12" Granite Straight Curb	2000.000				
		LF	.		.	
4910	609070 Furnish and Set 8"x12" Granite Circular Curb, Radius Under 10 Ft.	700.000				
		LF	.		.	
4920	609072 Furnish and Set 8"x12" Granite Circular Curb, Radius 10-100 Ft.	700.000				
		LF	.		.	
4930	609074 Furnish and Set 8"x12" Granite Circular Curb, Radius Over 100 Ft.	700.000				
		LF	.		.	
4940	609086 Reset Stone Curb	1000.000				
		LF	.		.	
4950	609100 AC Curb	1000.000				
		LF	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
4960	609204 PCC Wheelchair/Bicycle Ramp	1000.000				
		SY	.		.	
4970	609993 Curb, Gutter, & Paved Flume Special Item - LF - 609 051 R/R EX. GUTTER W/ BRICK ON PCC	200.000				
		LF	.		.	
4980	610018 Sod with 3 Inch Topsoil	6000.000				
		SY	.		.	
4990	611002 Remove Tree and Stump up to 6 Inch Dia.	10.000				
		EACH	.		.	
5000	611004 Remove Tree and Stump 6 to 12 Inch Dia.	10.000				
		EACH	.		.	
5010	611006 Remove Tree and Stump 12 to 18 Inch Dia.	10.000				
		EACH	.		.	
5020	611008 Remove Tree and Stump 18 to 24 Inch Dia.	10.000				
		EACH	.		.	
5030	611010 Remove Tree and Stump 24 to 30 Inch Dia.	10.000				
		EACH	.		.	
5040	611012 Remove Tree and Stump 30 to 36 Inch Dia.	10.000				
		EACH	.		.	
5050	611014 Remove Tree and Stump 36 to 42 Inch Dia.	10.000				
		EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5060	611016 Remove Tree and Stump over 42 Inch Dia.	10.000 EACH	.		.	
5070	611028 Remove Tree Stump 5 to 12 Inch Dia.	10.000 EACH	.		.	
5080	611030 Remove Tree Stump 12 to 24 Inch Dia	10.000 EACH	.		.	
5090	611032 Remove Tree Stump 24 to 36 Inch Dia	10.000 EACH	.		.	
5100	611034 Remove Tree Stump over 36 Inch Dia.	10.000 EACH	.		.	
5110	611040 Prune Tree 6 Inch to 12 Inch Dia.	8.000 EACH	.		.	
5120	611042 Prune Tree 12 Inch to 18 Inch Dia.	8.000 EACH	.		.	
5130	611044 Prune Tree 18 Inch to 24 Inch Dia.	8.000 EACH	.		.	
5140	611046 Prune Tree 24 Inch to 30 Inch Dia.	8.000 EACH	.		.	
5150	611048 Prune Tree 30 Inch to 36 Inch Dia.	8.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5160	611050 Prune Tree over 36 Inch Dia.	8.000 EACH	.		.	
5170	612002 Mobilization	LUMP	LUMP		.	
5180	615004 Three-Ply Membrane Waterproofing	100.000 SY	.		.	
5190	616001 Maintenance of Highway Traffic	LUMP	LUMP		.	
5200	616122 Steel Protection Plate 5'X10'	20.000 EACH	.		.	
5210	616992 Traffic Control Special Item - EACH - 624 029 STEEL PROTECTION PLATE FOR 6" WATER MAIN	40.000 EACH	.		.	
5220	628002 Erosion and Sediment Control	LUMP	LUMP		.	
5230	704002 Reinforcing Steel	200.000 LBS	.		.	
5240	709002 Steel Railing (STEEL PIPE RAILING)	200.000 LF	.		.	
OPTION YEAR 3 TOTAL					.	

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 OPTION YEAR 4

THE CONTRACTOR WILL BE PAID ONLY ONCE FOR THE BASE YEAR PERIOD AND ONLY ONCE FOR THE OPTION YEARS FOR EACH PAY ITEM NUMBER WHERE THE TERM ONE JOB APPEARS.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5250	201002 Clear and Grub	ONE JOB	ONE JOB			.
5260	202002 Common Excavation	6000.000 CY		.		.
5270	202004 Hard Surface Pavement Excavation	1800.000 CY		.		.
5280	206004 Borrow Structure Backfill	1200.000 CY		.		.
5290	207002 Trench Excavation and Backfill	1600.000 CY		.		.
5300	207004 Trench Undercut Excavation	154.000 CY		.		.
5310	207006 Gravel for Trench Undercut	526.000 CY		.		.
5320	207008 Borrow Trench Backfill	526.000 CY		.		.
5330	207991 Trench Excavation and Backfill Special Item - CY - 207 007 GRAVEL FOR 6" WATER MAIN TRENCH UNDERCUT	154.000 CY		.		.

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5340	207991 Trench Excavation and Backfill Special Item - CY - 207 009 BORROW TRENCH FILL FOR 6" WATER MAIN	308.000 CY	.		.	
5350	207991 Trench Excavation and Backfill Special Item - CY - 207 031 TRENCH EXCAVATION & BACKFILL FOR 6" WATER MAIN	706.000 CY	.		.	
5360	209002 Aggregate Base Course	2000.000 CY	.		.	
5370	300004 Water and Sewer Service Special Item-EACH- 311 063 CLEAN SEWER STRUCTURE	10.000 EACH	.		.	
5380	300005 Water and Sewer Service Special Item-LF - 311 065 CLEAN SEWER PIPE	210.000 LF	.		.	
5390	302002 Valve Casing	14.000 EACH	.		.	
5400	305002 Ductile Iron Pipe, 4 - 8 Inch	1480.000 LF	.		.	
5410	305018 Extra Fitting - Contractor Furnished	1300.000 LBS	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
5420	306002 Gate Butterfly Valve, 3 - 12 Inch	12.000 EACH	.		.	
5430	307010 Convert Fire Hydrant	10.000 EACH	.		.	
5440	308012 Replace Water Service Pipe	700.000 LF	.		.	
5450	308014 Furnish and Install Curb Stop/Curb Stop Box	54.000 EACH	.		.	
5460	308016 Furnish&Install Water Meter Housing, Frame& Cover	54.000 EACH	.		.	
5470	308018 Water Service Test Hole	54.000 EACH	.		.	
5480	308024 Adjust Water Meter Frame AND COVER	400.000 EACH	.		.	
5490	308026 Reset Water Meter Unit	60.000 EACH	.		.	
5500	308028 Adjust Curb Cock Box	200.000 EACH	.		.	
5510	308032 Reset Curb Cock Unit	60.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
5520	309002 Sewer Manhole on Sewer 48 Inch and Less Dia.	276.000 VLF	.		.	
5530	310002 Standard Basin	2.000 EACH	.		.	
5540	310004 Standard Double Basin	4.000 EACH	.		.	
5550	310008 Basin Connect PCC Pipe, Class III, 15 Inch	600.000 LF	.		.	
5560	310016 Type S Basin	4.000 EACH	.		.	
5570	310018 Double Type S Basin	14.000 EACH	.		.	
5580	311002 Adjust Sewer-Water-Utility Manhole Frame	500.000 EACH	.		.	
5590	311004 Reset Sewer-Water-Utility Manhole Frame	800.000 EACH	.		.	
5600	311010 Adjust Standard Basin Top	200.000 EACH	.		.	
5610	311016 Furnish Sewer-Water Manhole Frame	300.000 EACH	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
5620	311018 Furnish Basin Top	100.000				
		EACH	.		.	
5630	311024 Rebuild Standard Basin / ELONGATION	70.000				
		CY	.		.	
5640	311028 Replace Existing Basin with Triple Basin	2.000				
		EACH	.		.	
5650	312004 Replace Conical Shaped Water Valve Casing	30.000				
		EACH	.		.	
5660	313002 Abandon Basin Connecting Pipe	6.000				
		EACH	.		.	
5670	313004 Abandon Sewer Manhole	2.000				
		EACH	.		.	
5680	313006 Abandon Basin	2.000				
		EACH	.		.	
5690	314004 PCC Pipe, Class III, Gasket, 15 Inch	1000.000				
		LF	.		.	
5700	314006 PCC Pipe, Class III, Gasket, 18 Inch	1000.000				
		LF	.		.	
5710	314008 PCC Pipe, Class III, Gasket, 21 Inch	1000.000				
		LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
5720	314010 PCC Pipe, Class III, Gasket, 24 Inch	40.000 LF	.		.	
5730	323002 PCC Collar for Sewers	4.000 CY	.		.	
5740	402002 Superpave Base Course, 19 mm	1000.000 TON	.		.	
5750	402010 Superpave Surface Course, 9.5 mm	1000.000 TON	.		.	
5760	403002 Tack Coat	2000.000 SY	.		.	
5770	407004 Temporary AC, Superpave Surface Course, 9.5 mm	260.000 TON	.		.	
5780	410004 Repair-Replace Superpave Surface Course, 9.5 mm	600.000 TON	.		.	
5790	501014 Extra Welded Wire Fabric, Style 66-46	400.000 SY	.		.	
5800	502002 PCC Base	1000.000 CY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
5810	502991 Portland Cement Concrete Base Special Item -CY - 502 021 REMOVE AND REPLACE PCC BASE FOR 6" WATER MAIN	120.000 CY	.		.	
5820	505030 Anchor Bolts - Paving	200.000 EACH	.		.	
5830	506002 Repair PCC Pavement	160.000 CY	.		.	
5840	506004 Repair PCC Base	200.000 CY	.		.	
5850	506008 Repair PCC Driveway-Alley Entrance	1000.000 CY	.		.	
5860	602002 PCC Footing (Minor)	200.000 CY	.		.	
5870	602004 PCC Property Wall	200.000 CY	.		.	
5880	602008 PCC Steps	100.000 CY	.		.	
5890	602010 Standard PCC Coping	200.000 CY	.		.	
5900	602012 Special PCC Coping -	100.000 CY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
5910	602991 Minor Structures Special Item - CY - 602 013 R\R PCC PROPERTY WALLS-STEPS- COPING	200.000 CY
5920	603002 Underdrain Pipe, 4 Inch	200.000 LF	.	.	.	.
5930	603004 Underdrain Pipe, 6 Inch	100.000 LF	.	.	.	.
5940	603010 Underdrain Connect Pipe, 4 Inch	100.000 LF	.	.	.	.
5950	603018 Underdrain Pipe Risers	300.000 VLF	.	.	.	.
5960	603991 Underdrain Special Item - LF - UNDERDRAIN CONNECT PIPE, 6 INCH 603 012	60.000 LF	.	.	.	.
5970	606002 Pavement Profiling (Milling)	2000.000 SY	.	.	.	.
5980	607002 Chain Link Fence, 4 Ft. Ht.	676.000 LF
5990	607004 Chain Link Fence, 6 Ft. Ht.	1000.000 LF

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			DOLLARS	CTS	DOLLARS	CTS
6000	607991 Misc. Fencing Special Item - LF - 607 003 WOOD FENCE, 6 FT HT	200.000	.		.	
6010	607991 Misc. Fencing Special Item - LF - 607 005 TEMPORARY SAFETY FENCE	1000.000	.		.	
6020	607991 Misc. Fencing Special Item - LF - 607 041 REMOVE AND RESET CHAIN LINK FENCE & GATE	400.000	.		.	
6030	608004 PCC Sidewalk, 4 Inch	3000.000	.		.	
6040	608006 PCC Sidewalk, 6 Inch	600.000	.		.	
6050	608016 Repair-Replace PCC Sidewalk, 4 Inch	50000.000	.		.	
6060	608020 Repair-Replace Exposed Aggregate PCC Sidewalk	1000.000	.		.	
6070	608022 AC Walk	200.000	.		.	
6080	608024 Brick Sidewalk on PCC Base	10000.000	.		.	
6090	608026 Brick Sidewalk on Sand/Cement Bed	16000.000	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
6100	608032 Brick Sidewalk Repair on PCC Base	2000.000 SY	.		.	
6110	608034 Brick Sidewalk Repair on Sand-Cement Base	4000.000 SY	.		.	
6120	608992 Sidwalks & Driveway Special Item - SY - 608 009 FURNISH AND INSTALL RUBBER SIDEWALK W/ ACC	8000.000 SY	.		.	
6130	608992 Sidwalks & Driveway Special Item - SY - 608 019 R/R MIS. PAVING & SIDEWALK	100.000 SY	.		.	
6140	608992 Sidwalks & Driveway Special Item - SY - 608 029 R/R EXT. SIDEWALK W/LONDON PAVERS	400.000 SY	.		.	
6150	608992 Sidwalks & Driveway Special Item - SY - 608 055 FURNISH AND SET BRICK PAVERS	200.000 SY	.		.	
6160	609002 PCC Curb and/or Gutter	200.000 CY	.		.	
6170	609004 PCC Circular Curb and/or Gutter	100.000 CY	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
6180	609040 PCC Circular Curb for Alley-Drive Entrance	150.000				
		LF	.		.	
6190	609050 Repair-Replace PCC Curb and/or Gutter	700.000				
		CY	.		.	
6200	609052 Repair-Replace PCC Circular Curb and/or Gutter	200.000				
		CY	.		.	
6210	609068 Furnish and Set 8"x12" Granite Straight Curb	2000.000				
		LF	.		.	
6220	609070 Furnish and Set 8"x12" Granite Circular Curb, Radius Under 10 Ft.	700.000				
		LF	.		.	
6230	609072 Furnish and Set 8"x12" Granite Circular Curb, Radius 10-100 Ft.	700.000				
		LF	.		.	
6240	609074 Furnish and Set 8"x12" Granite Circular Curb, Radius Over 100 Ft.	700.000				
		LF	.		.	
6250	609086 Reset Stone Curb	1000.000				
		LF	.		.	
6260	609100 AC Curb	1000.000				
		LF	.		.	

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			DOLLARS	CTS	DOLLARS	CTS
6270	609204 PCC Wheelchair/Bicycle Ramp	1000.000				
		SY	.		.	
6280	609993 Curb, Gutter, & Paved Flume Special Item - LF - 609 051 R/R EX. GUTTER W/ BRICK ON PCC	200.000				
		LF	.		.	
6290	610018 Sod with 3 Inch Topsoil	6000.000				
		SY	.		.	
6300	611002 Remove Tree and Stump up to 6 Inch Dia.	10.000				
		EACH	.		.	
6310	611004 Remove Tree and Stump 6 to 12 Inch Dia.	10.000				
		EACH	.		.	
6320	611006 Remove Tree and Stump 12 to 18 Inch Dia.	10.000				
		EACH	.		.	
6330	611008 Remove Tree and Stump 18 to 24 Inch Dia.	10.000				
		EACH	.		.	
6340	611010 Remove Tree and Stump 24 to 30 Inch Dia.	10.000				
		EACH	.		.	
6350	611012 Remove Tree and Stump 30 to 36 Inch Dia.	10.000				
		EACH	.		.	
6360	611014 Remove Tree and Stump 36 to 42 Inch Dia.	10.000				
		EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
6370	611016 Remove Tree and Stump over 42 Inch Dia.	10.000 EACH	.		.	
6380	611028 Remove Tree Stump 5 to 12 Inch Dia.	10.000 EACH	.		.	
6390	611030 Remove Tree Stump 12 to 24 Inch Dia	10.000 EACH	.		.	
6400	611032 Remove Tree Stump 24 to 36 Inch Dia	10.000 EACH	.		.	
6410	611034 Remove Tree Stump over 36 Inch Dia.	10.000 EACH	.		.	
6420	611040 Prune Tree 6 Inch to 12 Inch Dia.	8.000 EACH	.		.	
6430	611042 Prune Tree 12 Inch to 18 Inch Dia.	8.000 EACH	.		.	
6440	611044 Prune Tree 18 Inch to 24 Inch Dia.	8.000 EACH	.		.	
6450	611046 Prune Tree 24 Inch to 30 Inch Dia.	8.000 EACH	.		.	
6460	611048 Prune Tree 30 Inch to 36 Inch Dia.	8.000 EACH	.		.	

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LINE NO	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
6470	611050 Prune Tree over 36 Inch Dia.	8.000 EACH	.		.	
6480	612002 Mobilization	ONE JOB	ONE JOB		.	
6490	615004 Three-Ply Membrane Waterproofing	100.000 SY	.		.	
6500	616001 Maintenance of Highway Traffic	ONE JOB	ONE JOB		.	
6510	616122 Steel Protection Plate 5'X10'	20.000 EACH	.		.	
6520	616992 Traffic Control Special Item - EACH - 624 029 STEEL PROTECTION PLATE FOR 6" WATER MAIN	40.000 EACH	.		.	
6530	628002 Erosion and Sediment Control	ONE JOB	ONE JOB		.	
6540	704002 Reinforcing Steel	200.000 LBS	.		.	
6550	709002 Steel Railing (STEEL PIPE RAILING)	200.000 LF	.		.	
	OPTION YEAR 4 TOTAL				.	
	TOTAL BID BASE AND FOUR OPTIONS YEARS				.	