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## **SPECIFICATIONS FOR PERMANENT PAVEMENT REPLACEMENT**

### **PART 1- GENERAL**

#### **SCOPE OF WORK**

- A. Work and materials required by this Section of the Specifications consists of the following:
1. Saw cut existing bituminous concrete pavement required to be removed and where matching to existing pavements.
  2. Prepare and compact roadway sub-grade for permanent pavement placement.
  3. Furnishing, placing and compacting sub-base material to depths and dimensions indicated on the attached drawing.
  4. Furnish, install and compact base courses, consisting of the materials and the number of courses indicated on the attached drawings **OR** of the thickness(es) necessary to match the existing pavement thickness (es).
  5. Furnish, install and compact surface courses, consisting of the materials and the number of courses indicated on the attached drawings **OR** of the thickness(es) necessary to match the existing pavement thickness(es).
  6. Furnish and apply bituminous tack coats and joint sealer.
  7. Excavation and disposal off-site of temporary pavement and portion of roadway base as necessary to perform the work indicated on the attached drawings, to the limits shown on the drawings or as directed by the Southington Water Dept.
- B. The work of this Section shall include all incidental work related to this Section including, but not limited to:
1. Furnish, install, maintain, repair & replace, and remove temporary traffic control, signs, barriers and detours as required by the CT DOT, Town of Southington, Chief of Police or the Southington Water Department.
  2. Notify appropriate municipal and state officials, i.e. Chief of Police.
  3. Secure all necessary permits and approvals.

## **RELATED WORK:**

### **A. Maintenance and Protection of Traffic**

#### **1. SCOPE OF WORK:**

- A. The work and materials required consist of furnishing, erecting, moving, re-erecting, maintenance and removal of all signs, barricades, warning lights and devices required to adequately safeguard, maintain and direct traffic through the project area for the entire duration of the project
- B. Contractor shall provide a sufficient number of travel lanes and pedestrian passways to move all traffic ordinarily using the project area.
- C. Contractor shall satisfy all State and municipal requirements for maintenance and protection of traffic for this bid.
- D. Contractor shall also provide Uniformed Trafficmen / Flagmen to supplement the Southington Police Department Special Duty Police and as required to otherwise provide for the safe movement of vehicular and pedestrian traffic through the construction work area(s).

#### **2. MATERIALS:**

- A. All signs, barricades and necessary devices shall be of sufficient size and color so as to adequately inform the public of any possible traffic hazards and alternate routes and shall conform to the details as outlined in "State of Connecticut, Department of Transportation, Bureau of Highways Traffic Control Signing Patterns for Maintenance- Construction- Permit Operations, "latest revision.

#### **3. WORKMANSHIP:**

- A. Travel lanes and pedestrian passways shall be drained and kept reasonably smooth and in suitable condition at all times in order to provide minimum interference to traffic consistent with the proper prosecution of work.
- B. Suitable ingress and egress shall be provided at all times where required, for all intersecting roads and for all abutting properties having legal access.
- C. Contractor shall submit for approval by the Southington Water Department a schedule showing the proposed sequence of paving operations and a compatible method of maintaining traffic.
- D. Should the Contractor fail to perform any of the work require for maintenance and protection of traffic, the Southington Water Department may perform or arrange for others to perform such work. In such cases, the Southington Water Department will deduct money due or to become due to the Contractor all expenses connected therewith which are found to be greater than the cost to the Southington Water Department had the Contractor perform the specified work.

## **B. Traffic Regulation- Special Duty Police**

### **1. SCOPE OF WORK:**

- A. The work covered includes providing such uniformed police officers as the Southington Water Department and the Town of Southington Police Department shall deem necessary to avoid insofar as reasonably possible, danger to the safety of persons and substantial interference of the project with the free circulation of traffic.
- B. Nothing contained herein shall be construed as relieving the Contractor of any responsibilities for the protection of persons and property. The Contractor shall remain fully responsible at all times whether or not police protection has been provided.

### **2. GENERAL REQUIREMENTS:**

- A. Contractor shall so plan his work and shall fully inform the Southington Police Department well in advance, so that the Southington Police Department may determine the project needs for Special Duty Police.
- B. Contractor shall notify the Southington Police Department at least SEVENTY-TWO (72) hours in advance of the need for Special Duty Police Officers. The Southington Chief of Police or his/her duly authorized representative shall be the sole judge of the need for Special Duty Police Officers
- C. The preliminary project needs for Special Duty Police have been determined to be ONE (1) Special Duty Police Officer per work location.
- D. Contractor shall provide Uniformed Flagmen/Trafficmen to supplement and assist the Special Duty Police Officer assigned by the Town.
- E. Uniformed Flagmen shall be specifically assigned to that traffic control function and shall be suitably attired according to the requirements of the Manual of Uniform Traffic Control Devices (MUTCD) and the Southington Police Department.

### **3. METHOD OF MEASUREMENT:**

- A. The Contractor will pay the Southington Police Department for all Special Duty Police costs related to this bid.

### **4. BASIS OF PAYMENT:**

- A. All Contract related costs associated with the Southington Police Department Special Duty Police will be paid by the Contractor directly to the Police Department.
- B. Contractor shall be responsible for and shall pay for all Uniformed Flagmen/Trafficmen required to supplement the Special Duty Police and required to otherwise provide for the safe movement of vehicular and pedestrian traffic through the work area(s). The cost of the Contractor furnished Uniformed Flagmen/Trafficmen shall be included in the bid.

5. REFERENCES:

- A. Whenever reference is made to “Form 814A” in these specifications, it shall refer to the State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 814A, 1995 and its latest supplements and Revisions.
- B. When reference is made to a particular section of “Form 814A”, it will be construed to include all related articles referred to.

6. GENERAL REQUIREMENTS:

- A. It shall be the responsibility of the Contractor to obtain from the controlling State and Municipal authorities all required permits for cutting sidewalk and roadway pavements

**PART 2- PRODUCTS**

1. MATERIALS:

- A. Class 1, Class 2 and Class 4 Bituminous Concrete pavement shall conform to the requirements of Section M.04.01, “Form 814A”.
- B. Bituminous material for tack coat shall conform to the requirements of Section M.04 of “Form 814A”
- C. Joint sealer shall conform to the requirements of Section M.04 of “Form 814A”.

2. REFERENCES:

- A. Whenever reference is made to “Form 814A” in these specifications, it shall refer to the State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 814A, 1995 and its latest supplements and Revisions.
- B. When reference is made to a particular section of “Form 814A”, it will be construed to include all related articles referred to.

3. GENERAL REQUIREMENTS:

- A. It shall be the responsibility of the Contractor to obtain from the controlling State and Municipal authorities all required permits for cutting sidewalk and roadway pavements.

## **PART 2- PRODUCTS**

### 1. MATERIALS:

- A. Processed stone material for the base course shall conform to the requirements of CT DOT “Form 814A” Section M.05.
- B. Class 1, Class 2 and Class 4 Bituminous Concrete pavement shall conform to the requirements of Section M.04.01, “Form 814A”.
- C. Bituminous material for tack coat shall conform to the requirements of Section M.04 of “Form 814A”
- D. Joint sealer shall conform to the requirements of Section M.04 of “Form 814A”.

## **PART 3- EXECUTION**

### 1. WORKMANSHIP:

- A. The methods employed in placing the bituminous pavement and all equipment, tools, machinery and other plant used in handling materials and executing any part of the work shall conform to all of the requirements of Section 4.06.03 of “Form 814A”. The completed and compacted permanent pavements shall match the adjacent grade of the existing pavement and meet or surpass the uniformity of the adjacent surface and its roughness or riding quality.
- B. The base course shall be constructed in two layers of equal depth. The material shall be spread on the prepared and compacted sub-grade to such a depth that this course will be at the specified thickness after final compaction. The material shall be shaped, wetted and compacted with a power roller weighing not less than ten (10) tons or equivalent vibratory roller or compactor until thoroughly compacted. The construction method for the processed stone base shall conform to Section 3.04 Processed Aggregate Base of “Form 814A”.
- C. The Contractor shall at all times maintain the permanent pavements in a safe and satisfactory condition, all maintenance and repairs of permanent pavements shall be provided by the Contractor at no additional expense to the owner.
- D. Prior to the construction of the permanent pavement replacement, and as part of work included under permanent pavements, the temporary bituminous concrete pavement surface course shall be removed in its entirety and a portion of the processed aggregate base course shall be removed to the depth necessary for the construction of the applicable pavements and sub-base, as specified herein, and as shown on the attached drawing. Contractor shall satisfactorily dispose of all temporary pavement materials and portion of earth which are removed and shall at all times maintain the adjacent area clean and free of materials resulting from removal operations.

- E. The edges of the existing pavements to receive permanent pavement shall be saw cut along even lines parallel to the pipe and shall be cut back about (12") inches from edge of disturbed pavement to obtain clean, sound, vertical edges of original pavement.
- F. Edges of bituminous concrete shall be coated with an approved bituminous material for proper bonding of new pavement construction with the existing pavement.
- G. The removal of the top portion of and placing and finish grading of the processed aggregate base shall be performed by hand and/or mechanical methods in such a manner that the portion of the compacted backfill to remain will not be disturbed. All grading, compacting, finishing, and appurtenant work shall be provided as necessary to provide the sub-base in an approved condition for the construction of the succeeding bituminous concrete surface courses. The Construction method shall conform to Section 3.04- Processed Aggregate Base of "Form 814A". The Contractor shall be responsible for providing all measures and work necessary for protecting and maintaining the sub-base in an approved condition until the succeeding courses of permanent pavement are constructed thereon.
- H. Pavement courses shall be individually placed and compacted with a power roller weighing at least ten (10) tons or with an equivalent vibratory roller until thoroughly compacted to a firm and uniform surface satisfactory to the Southington Water Department.
- I. New pavement shall extend to existing pavement, with all joints cut clean and straight. All pavement cut shall be saw cut as specified herein. All joints shall be properly sealed in accordance with Section 4.06 of "Form 814A".

2. ADDITIONAL CONTRACTOR REPOSIBILITIES:

- A. The responsibility of the Contractor to obtain from the controlling State and Local authorities all required permits for work of placement of pavements in accordance with all customs and requirements of the controlling authorities, in addition to those specified herein at no additional expense to the Southington Water Department.
- B. All street fixtures and such other appurtenant works damaged or displaced as a result of the Contractor's operations shall be repaired or replaced and restored by the Contractor in a manner satisfactory to the Southington Water Department and to the proper State or municipal officials as the case may be, at no additional expense to the Southington Water Department.
- C. In case of settlement or other defects in permanent pavement replacement or permanent pavement overlay, the Contractor shall cut out, replace, restore or repair the damage pavements in a manner satisfactory to the Southington Water Department at no additional expense the Southington Water Department.
- D. This Contract will not be considered as complete until the replacement, restoration and repair of pavements have been provided in a manner satisfactory to the Southington Water Department and in accordance with the requirements specified herein.

## **PART 4- METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

### 1. METHOD OF MEASUREMENT:

- A. Pavement to be replaced under this contract will be measured for payment in “Square Yards” of permanent pavement surface area. Permanent pavement one foot (1’) outside of the indicated temporary pavement area will not be measured for payment.

### 2. BASIS OF PAYMENT:

- A. “Permanent Pavement”, measured as provided above, shall be paid for at the Contract unit price bid per “Square Yard” of pavement surface complete in place. Pavement thickness(es) shall be to the depths indicated on the attached drawings or to the depths to match existing pavement thickness, whichever is greater. The “Square Yard” payment for Permanent Pavement item shall include the removal and disposal of existing temporary pavements, furnishing, placing and compacting all bituminous binding and wearing courses, repair of process stone base disturbed by removal of temporary pavement, saw cutting the existing pavements to remain, tack coat edges, joint sealing, restoration of pavement markings, and all other items of work necessary to restore the roadway surface to a condition substantially identical to that of the surrounding road surface.