

SECTION 32 1216

ASPHALT PAVING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The Contractor shall restore all surfaces damaged by his operations and install all new asphalt paving to the width and extent detailed, noted on the plans or specified herein.
- B. Surface restoration in streets and roads maintained by the State Department of Highways shall be accomplished in accordance with applicable utility construction permits.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.1 GENERAL

- A. Various conditions and types of surface restoration are shown on the drawings. Materials and construction methods to be in accordance with the following specification and the Delaware DOT Standard Specifications dated June 2022.
- B. Existing pavement not subject to complete repavement shall be trimmed to secure a straight clean edge for repaving. Saw cut bituminous pavement as shown on the drawings and as directed to obtain a clean pavement edge.
- C. No staggered or irregular longitudinal trench repair widths shall be allowed in each block of work. Repairs shall be of a uniform width and in a straight line.
- D. Minimum pavement restoration width is five (5) feet including edge of roads. Actual width shall be as detailed or noted on the plans. Should the Contractor damage or disturb larger areas, he shall replace the additional area at his cost.
- E. Undermined areas shall be grout filled or cut back.
- F. A 2" inch layer of cold patch shall be placed on all lateral and main utility trenches for temporary paving at the end of every workday.
- G. Catch basins, inlets, curbs and all other appurtenances shall be adequately covered and protected prior to application of bituminous materials. No earth or bituminous materials shall be allowed to enter any storm drainage system and suitable containment provisions shall be employed to prevent surface runoff of bituminous materials.
- H. Unless otherwise noted the final surface shall match grades existing prior to construction and shall be such that a smooth transition free of abrupt changes in grade is made with

adjacent pavements and/or sidewalks. No depressions or other misalignment shall obstruct, trap or otherwise misdirect the flow of surface water drainage.

3.2 MAINTENANCE OF REFILLED EXCAVATIONS

- A. The Contractor shall maintain, at his own expense, all refilled excavations and surfacing in proper condition as specified herein. All depressions appearing in the refilled excavation, stabilized base and temporary paving shall be properly refilled. If the Contractor fails to make repairs within 48 hours after receipt of written notice from the Engineer, the Owner may refill said depressions and the cost thereof shall be deducted from any monies due the Contractor. In case of emergency the Owner may refill any depressions to protect with barricades without giving previous notice to the Contractor, and the cost of so doing shall be retained from any monies due or to become due the Contractor.
- B. The Contractor shall be responsible for any injury or damage that may result from lack of maintenance of any refilled excavation at any time.

3.3 CRUSHER RUN BASE COURSE

- A. Crusher run base course (Type "B") shall be spread on prepared and compacted refilled excavations to the compacted depth shown on the drawing details.
- B. Materials and methods of construction shall meet the provisions of Section 1004 of referenced standard specification.

3.4 BITUMINOUS CONCRETE PAVEMENT

- A. Hot mix, hot laid bituminous concrete shall consist of placing bituminous concrete base and or wearing courses on a prepared base to the minimum compacted thickness shown on the drawings.
- B. The hot-mix bituminous concrete surface and base courses shall conform to the Delaware DOT Standard Specifications for Type C & B, respectively and shall be constructed in accordance with the applicable Articles of Section 401 "Hot-Mix, Hot Laid Bituminous Concrete Pavement".
- C. The subgrade shall be properly prepared, graded and compacted in accordance with Section 31 20 00 of these specifications.
- D. Materials and methods of construction shall meet the provisions of Section 401 of referenced standard specification. All thicknesses detailed shall be compacted thicknesses.
- E. Cold mix temporary roadway material shall be furnished and placed as shown on the drawings and or directed by the Engineer. Cold mix shall meet the provisions of Section 402 of referenced standard specification. Separate payment shall not be made for temporary paving.

3.5 BITUMINOUS CONCRETE DRIVEWAY AND PARKING AREAS

Bituminous driveways and parking areas disturbed through the Contractor's construction operations shall be restored by means of 3-inches of hot-mix bituminous concrete pavement placed in a single lift onto a base course consisting of 4-inches of properly prepared and compacted crushed stone or quarry waste. Commercial and residential entrances on State maintained streets shall be in accordance with the plan details.

3.6 FIELD QUALITY CONTROL

- A. General: Test in-place bituminous concrete courses for compliance with requirements for thickness and surface smoothness. Repair or remove and replace unacceptable paving as directed by the Owner.
- B. Thickness: In-place compacted thickness will not be acceptable if exceeding following allowable variation from required thicknesses:
 - 1. Binder Course: 1/2" plus or minus.
 - 2. Surface Course: 1/4" plus or minus.
- C. Surface Smoothness: Test finish surface of each asphalt concrete course for smoothness, using 10' straightedge applied parallel with, and at right angles to centerline of paved area. Surfaces will not be acceptable if exceeding the following tolerances for smoothness:
 - 1. Base Course Surface: 1/4".
 - 2. Wearing Course Surfaces: 3/16".

3.7 PARKING AND LANE MARKERS

- A. All pavement markings, temporary and permanent, shall be installed in accordance with Section 32 17 23 of these specifications.
- B. Apply paint with mechanical equipment to produce uniform straight edges.
- C. All markings destroyed during construction operations to be replaced in kind.

END OF SECTION

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