

PART 1 GENERAL

1.01 GENERAL

Work includes but is not limited to the following:

- A. This work shall consist of one or more courses of plant mixed asphalt concrete placed on a prepared foundation or base in accordance with the Washington State Department of Transportation Standard Specifications and in reasonably close conformity with the lines, grades, thicknesses, and typical cross-sections shown in the plans or established by the Landscape Architect.
- B. Asphalt concrete shall be composed of asphalt and aggregate which, with or without the addition of mineral filler and blending sand as may be required, shall be mixed in the proportions specified to provide a homogeneous, stable, and workable mixture.

1.02 SCOPE OF WORK

- A. Furnish all materials, equipment, labor, and related items necessary to complete the work shown on the Drawings and as specified in the Specifications for Asphaltic Concrete Paving. The items of work to be performed shall include but are not limited to:
 - 1. Subgrade preparation
 - 2. Base course and pavement surfacing
 - 3. All other related items required to complete the work shown on the Drawings and as specified.

1.03 RELATED WORK DESCRIBED ELSEWHERE

- A. Related work in other sections of these Specifications includes but is not limited to:
 - 1. Demolition
 - 2. Site Preparation
 - 3. Grading, Embankment, and Backfill

1.04 QUALITY ASSURANCE

- A. Standard Specifications:
 - 1. This section references the latest edition of the Washington State Department of Transportation (W.S.D.O.T.) Standard Specifications for Road, Bridge, and Municipal Construction, including all necessary amendments. In case of conflict between the Standard Specifications and these modifications, the requirements of this section shall prevail.

B. Samples and Submittals

1. Refer to Section 5-04.3(12) of the W.S.D.O.T. Standard Specifications. The last sentence is revised to read as follows:

Where samples have been taken from the uncompressed asphalt concrete, new material shall be placed and compacted to conform with the surrounding area at no additional expense to the Owner.

2. In addition to the above Standard, the following submittals shall be provided:

- a. Truck load tickets for aggregate base and asphalt concrete at the time of delivery.
- b. Technical data of asphalt to be used for tack coat.
- c. Technical data of asphalt to be used in paving mix.
- d. A sample (5 gallons) of the aggregate base.
- e. Gradation data for asphalt concrete aggregates.
- f. A sample (5 gallons) of asphalt concrete aggregates.

- C. Construction shall conform to the details, cross-sections, dimensions, and grades specified. All elevations and grade stakes shall be established to provide a smooth and even surface.

The Contractor shall immediately notify the Landscape Architect of any discrepancy of line and level.

- D. Qualifications of Asphalt Concrete Supplier:

Refer to Section 5-04.3(1) of the W.S.D.O.T. Standard Specifications.

1.05 GUARANTEE

- A. Any settlement in paved areas which occur within the one (1) year guarantee period will be considered to be caused by improper compaction methods and shall be corrected within thirty (30) days of notice at no cost to the Owner. Repair damage caused by settlement at no cost to the Owner.

1.06 JOB CONDITIONS

- A. Weather Limitations:

1. Refer to Section 5-04.3(16) of the W.S.D.O.T. Standard Specifications.
2. Base course may be placed when air temperature is not below thirty degrees (30°) F.

PART 2 PRODUCTS

2.01 AGGREGATE BASE

- A. A base course of one and one-quarter (1-1/4) inches maximum crushed aggregate, per W.S.D.O.T. Standard Specifications Section 9-03.9(3), shall be installed over the subgrade as shown on Drawings.

2.02 ASPHALT CONCRETE

- A. TRAIL SURFACE 3/8" AGGREGATE – Aggregate shall be Type Class B as shown on Drawings, conforming to Section 9-03.8 of the WSDOT-APWA. Asphalt binder shall be paving asphalt, Grade AR-4000, and shall comply with Section 9-02.1 of WSDOT-APWA. Asphalt concrete mixing and proportioning shall comply with Section 9-03.8 of the WSDOT-APWA.

2.03 SOIL STERILANT (Under Asphalt Only)

- A. Non-organic water-soluble herbicide "Polyborchlorate" by U.S. Borax Company, Caseron, or approved equal. Shall be applied in accordance with the W.S.D.O.T. Standard Specifications Section 5-04.3(5)D.

2.04 PAINT STRIPING

- A. Paint for pavement markings shall comply with Washington State Department of Transportation Specifications. The paint shall be factory mixed, quick drying and non-bleeding. Color: white.

PART 3 EXECUTION

3.01 PREPARATION OF SUBGRADE

- A. Preparation of subgrade shall occur in all areas to receive asphalt cement paving in accordance with the W.S.D.O.T. Standard Specifications Sections 2-06.3(1), 2-06.3(2), and 2-09.3(1)C. The second item under Section 2-06.3(1) is revised to read:

"Remove excess material from site unless otherwise approved by the Landscape Architect for use on the project site."

The first sentence of the sixth item under Section 2-06.3(1) is revised to read:

"Compact the subgrade to a depth of six (6) inches and three (3) feet beyond all areas to receive asphalt concrete paving."

- B. INSTALL ALL SLEEVING AND CONDUIT AS REQUIRED FOR IRRIGATION AND OTHER UTILITIES PRIOR TO THE FINAL COMPACTION OPERATION. COORDINATE WORK AS REQUIRED. All ends of sleeves and/or conduit shall be capped and staked as directed by the Landscape Architect.

3.02 BASE COURSE

- A. Refer to Section 4-04.3 of the W.S.D.O.T. Standard Specifications.
- B. The final surface shall be unyielding course, free from inequities, with a smooth, tight, even surface, true to grade, line, and cross section shown on the Drawings and approved in field. Depth shown on Drawings is as measured after compaction. Maximum variation in any direction in the surface of the base course shall be a maximum of one four (1/4) inch in ten (10) feet.
- C. Apply soil sterilant to all crushed rock areas to receive pavement per the manufacturers' recommendation. A licensed applicator shall be responsible for mixing and applying soil sterilant under pavement surfaces. The Contractor shall certify in writing as to the sterilization materials used, the quantity used, and the method of application prior to applying pavement.
- D. The Contractor shall maintain the crushed rock surface until it is paved.
- E. Extend based course minimum six (6) inches beyond asphalt pavement width.

3.03 PRIMING PREPARED STABILIZED BASE COURSE

- A. Ensure stabilized base course is dry and free of loose or foreign material before priming.
- B. Coat metal surfaces of manholes and catch basins, which are to remain free of asphalt, with oil to prevent asphalt adhesion.
- C. Refer to Section 5-04.3(5)A of the W.S.D.O.T. Standard Specifications.

3.04 PRIMING EXISTING ASPHALT PAVING

- A. All joints between new pavement and existing pavement shall be tack coated and sealed with hot AR 4000W immediately prior to placement of new asphalt paving and immediately after compaction of subgrade. Tack and seal coats shall be uniformly applied to all vertical edges to be joined.

3.05 ASPHALT PAVING

- A. Refer to Section 5-04.3 of the W.S.D.O.T. Standard Specifications.
- B. Section 5.04.3(2) of the W.S.D.O.T. Standard Specifications is supplemented with the following:

The asphalt concrete mixture shall leave the mixing plant at a temperature between 260°F. and 350°F. and when deposited on the road it shall have a temperature of not less than 250°F. The exact temperature range within the above limits shall be directed by the Landscape Architect and Owner's Representative.

- C. Paragraph 1 of Section 5-04.3(9) is supplemented with the following:

"Where the compacted depth of any asphalt concrete pavement exceeds the depth specified above for the particular class of mixture, the course shall be constructed in two or more equal layers."

Paragraph 2 of Section 5-04.3(9) is supplemented with the following:

"Tamp edges at forty-five (45) degrees unless otherwise shown on the Drawings.

Remove and replace defective pavement sections and/or that pavement sections which do not drain properly. PATCHING IS NOT ACCEPTABLE."

- D. Section 5-04.3(11) of the W.S.D.O.T. Standard Specifications is supplemented with the following:

Meets lines shall be sealed while the new asphalt concrete is still warm by painting with Special Tack Coat (STE-1) asphalt and immediately covering the asphalt paint strip with clean, dry paving sand meeting the requirements of Section 9-03.8(4).

- E. The second sentence of the first paragraph of Section 5-04.3(13) of the W.S.D.O.T. Standard Specifications is revised to read:

Maximum variation in any direction in the completed surface of the pavement shall be a maximum of one eighth (1/8) inch in ten (10) feet.

- F. Adjustment of all castings, such as manhole frames and covers, catch basin frame and covers of various types of gate valves, etc., and concrete footings/slabs/curbs shall conform to the exact finished grade of new asphalt concrete pavement. After such castings have been set to final grade, they shall not be disturbed by the rolling operations. The course shall be compacted thoroughly around the perimeter of the castings and concrete by rolling with sufficient number of crisscross passes around the casting and concrete with the wheel just touching the casting and concrete but not shaving or rolling over the casting and concrete.
- G. All manhole covers, inlet covers, other similar cast iron items, and concrete located in the paved area shall be left clean of all asphalt material.

- H. Ensure that each pass of roller overlaps previous passes to ensure a smooth surface free of roller marks.

3.06 PAINT STRIPING

- A. Clean surface to eliminate loose material and dust. Allow pavement to cure for a period of not less than thirty (30) days prior to the application of striping.
- B. Apply paint with mechanical equipment to produce uniform straight lines and per manufacturer's recommendations. Apply two (2) coats minimum.

3.07 DEFECTIVE WORK

- A. All costs involved in making the corrections of defects described in this specification section shall be borne by the Contractor, and no additional compensation will be made for this work.

3.08 FINAL ACCEPTANCE

- A. The Contractor shall be responsible for maintaining all asphalt concrete paving until Final Acceptance of the project. If ruts, soft spots, or other damage occurs before such time, the Contractor shall repair the surface at no extra cost or extension of time.

3.09 PROTECTION

- A. Execute all paving in an orderly and careful manner with due consideration for any existing structures, including any parts of the surrounding areas that are to remain. Barricade and cover as necessary to protect pedestrian, workmen, and adjacent properties.
- B. Avoid any encroachment on adjacent properties. Repair and make good any damage to adjoining properties or improvements caused by operations, including any damage or loss to adjoining tenants or property owners whether to buildings, stocks or merchandise, trade fixtures, or the like.

3.10 CLEAN-UP

- A. Upon completion, the Contractor shall remove all containers, surplus materials, equipment, and debris and leave the site in a clean and orderly condition acceptable to the Owner's Representative and the Landscape Architect.

END OF SECTION