

02740 – BASE COURSE AND PAVING

(Last revised X/XX/XX)

This division contains 21 pages!

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PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this specification.
- B. Division 02200 – EARTHWORK
- C. Division 02275 – TRENCHING, BACKFILLING, AND COMPACTION OF UTILITIES.
- D. Division 02400 – CURB & GUTTER, DRIVEWAYS AND SIDEWALKS
- E. Division 02920 – SEEDING, SODDING, & GROUND COVER
- F. Bicycle lanes and paths shall be designed and constructed in accordance with the latest version of the XXDOT *XX Bicycle Facilities Planning and Design Guidelines*, latest revision, XXDOT Office of Bicycle and Pedestrian Transportation.

1.2 SUMMARY

This section includes all equipment, labor, material, and services required for complete installation of aggregate base courses and bituminous concrete pavement structures and specialties for municipal street and greenway systems.

1.3 DEFINITIONS

A. General

For the purposes of this specification, the following definitions refer to roadway and street systems that come under the authority of the City of Jacksonville, XX as specified within this section and other sections of this manual.

- 1) **Aggregate Base Course:** A layer of graded aggregate materials of a specified thickness placed between the subgrade and bituminous paving course.
- 2) **Base Course:** A layer of bituminous material of a specified thickness placed between the subgrade or aggregate base course and the intermediate or surface bituminous paving course.
- 3) **Cold Patch:** A layer of temporary asphaltic concrete mixture used for the repair and patching of small pavement areas in asphaltic concrete and Portland cement concrete in cool to cold weather applications.
- 4) **Bikeway/Greenway:** A facility, and its appurtenances, used for the public conveyance of pedestrians and/or bicyclists that is maintained by either the City of Jacksonville or the XX Department of Transportation.
- 5) **Public Road System:** Roadway, streets, and their appurtenances required for the conveyance of the motoring public that are maintained by either the City of Jacksonville or the XX Department of Transportation.
- 6) **Intermediate Course:** A layer of bituminous material of a specified thickness that is placed between the subgrade or base course and the surface bituminous paving course.
- 7) **Subgrade:** The top surface of a roadbed shaped to conform to the typical section on which the pavement structure and shoulders are constructed.
- 8) **Subgrade Stabilization:** The modification of roadbed soils by admixing with stabilizing or chemical agents that will increase the load bearing capacity, firmness, and resistance to weathering or displacement.
- 9) **Suitable Subgrade:** A subgrade that consists of a material type and density that is approved by the City Engineer for placement of a subsequent layer of material.
- 10) **Surface Course/Wearing Surface:** The top layer of a bituminous or concrete pavement structure which resists skidding, traffic abrasion, and the disintegrating effects of weather.

1.4 SUBMITTALS

- A. Submit job-mix formula for each mixture to be supplied within 30 days after contract is awarded.
- B. Submit product data and shop drawings for manholes adjustment rings.
- C. MSDS sheet on cold patch.

1.5 QUALITY ASSURANCE

PART 2 – PRODUCTS

2.1 AGGREGATE BASE COURSE

Aggregate Base Course material shall be designated as ABC in accordance with Section 520, *Aggregate Base Course*, and Table 1005-1 of the *XXDOT Standard Specifications for Roads and Structures*, latest revision.

2.2 ASPHALT SURFACE TREATMENT

Asphalt Surface Treatment shall be in accordance with Section 660 *Asphalt Surface Treatment* of the *XXDOT Standard Specifications for Roads and Structures*, latest revision.

2.3 ASPHALT TACK COAT

Asphalt Tack Coat shall be in accordance with Section 605 *Asphalt Tack Coat* of the *XXDOT Standard Specifications for Roads and Structures*, latest revision.

2.4 BITUMINOUS CONCRETE PAVEMENTS

Bituminous Concrete Pavements shall be in accordance with Section 610-3 *Composition of Mixtures (Mix Design and Job Mix Formula)* of the *XXDOT Standard Specifications for Roads and Structures*, latest revision.

2.5 CEMENT TREATED BASE COURSE

Cement Treated Base Course shall be in accordance with Section 540, *Cement Treated Base Course* of the *XXDOT Standard Specifications for Roads and Structures*, latest revision.

2.6 COLD PATCH

Cold Patch mixture shall have good workability and be capable of being placed at temperatures of 20° F to 140° F without the addition of heat. The mixture shall have good adhesion to wet surfaces and be resistant to damage by water, salt, and deicing products. It shall consist primarily of crushed stone, cut-back asphalt and additives. The mixture must be uniform and not require any mixing prior to use. It shall be capable of being removed from the container without significant adherence to the container. Application of the mixture must be able to be accomplished by hand labor. Traffic must be able to travel over the mix with little to no compaction immediately after installation without pick-up of the mix by vehicle tires. The mixture shall cure and harden with continued vehicle use. Provide MSDS sheets with product.