

**SPECIFICATIONS
FOR
PLANT MIXED BITUMINOUS CONSTRUCTION**

CITY OF MAPLE GROVE, MINNESOTA

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April 2015**

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CITY OF MAPLE GROVE, MINNESOTA

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1) GENERAL

The General Conditions and the Special Provisions and Conditions as embodied in these Contract Documents shall be applied to all work and materials to be furnished and installed under these specifications.

2) LOCATION

The plant mixed bituminous shall be constructed and installed under this contract are located in the City of Maple Grove, Hennepin County, Minnesota, as shown on the drawings.

3) SCOPE OF WORK

The work to be done under this contract shall include the furnishing of all material, labor, tools, and equipment to construct, complete in place, the plant mixed bituminous surfacing as shown on the drawings and as specified herein.

4) MINNESOTA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS WHICH APPLY

Those portions of the State of Minnesota Department of Transportation Specifications for Construction, 2014 Edition, and all subsequent supplemental specifications are incorporated herein by reference and are made a part of the contract as fully as though set out herein at length, and shall apply to this contract except as modified in the Special Provisions and Conditions, together within any sections referred to in said section or necessary for proper interpretation or use.

The word City shall be substituted for the word State wherever it appears and shall mean the City of Maple Grove, Minnesota.

5) NOTIFICATION TO PROPERTY OWNER

The Contractor shall provide 24 hour notice to the property owner before any driveway is blocked and give them sufficient time to move their vehicles. No driveway shall be blocked longer than necessary for construction and only as approved by the Owner.

Access to existing businesses shall be maintained at all times. When construction is directly impacting business driveways and entrances, work shall be done continuously and as promptly as possible to return the driveway entrance to a finished surface. The contractor shall exercise care to minimize impacts to business parking facilities.

6) METHOD OF PROCEDURE

Prior to the start of any work, the Contractor shall submit in writing to the Owner for approval, a schedule of procedure, which shall be followed as closely as possible. Where problems as to coordination and completion may appear to exist, the Owner may require modifications therein. Once work has started on a street it must be diligently pursued until the street is finished. Each successive phase of work shall follow the preceding phase as closely as possible so that the time any one street is under construction is kept to a minimum.

Should the Contractor, in the Owner's opinion, fail to complete the work as specified above, the Owner may limit the work which has been started but not completed to any such amount as the Owner deems reasonable. No extension of time shall be granted to the Contractor for not being permitted to open new street to construction for this reason.

a. PLACEMENT OF TACK COAT

The application rate for Bituminous Tack Coat Material shall conform to Mn/DOT section 2357.3 D and table 2357-2.

The Contractor shall protect adjacent curb and gutter, sidewalk and other expose surfaces from over spraying during the application process. If overspray occurs, the Contractor shall clean to the satisfaction of the Owner.

In additional to the overall traffic control requirements, the Contractor shall be responsible for traffic control during placement of the tack coat and while the tack coat is

exposed prior to paving operations. Removal of tack coat on vehicles or driveways as a result of substandard traffic control operations shall be the responsibility of the Contractor at no cost to the City or owner of the vehicle or driveway.

b. Placement of Bituminous Layers

Obtain compaction by the specified density method as per the current Minnesota Department of Transportation specification to achieve a degree of compaction no less than 95% of the Marshall density as determined for "job mix" formula.

7) TESTING OF MATERIALS

Compaction testing will be performed for the Owner by an independent testing laboratory as identified below. The cost of passing tests will be paid by the Owner and the Contractor shall pay for all failing test and the retest.

- a. One (1) sample for Marshall Density test per 1,000 tons, or per 8,000 square yards, of mix installed or a minimum of one (1) sample per job.
- b. The Contractor shall supply the Owner a split companion sample of the bituminous mix taken from behind the paver. The Owner may have Mn/Dot lab or an independent lab do the QA testing as required in Section 2350/2360. Inform the Owner no less than 24 hours in advance of paving.
- c. In place density tests performed by one of these procedures:
 - i. A minimum of one (1) core sample for in place density test per 1,000 tons, or per 8,000 square yards, of mix installed or a minimum of four (4) cores per job.

No cores are to be taken in the wheel tracks.

- ii. Six (6) density tests taken with a portable nuclear testing device at randomly selected locations per 1,000 tons, or per 8,000 square yards, of mix installed or a minimum of ten (10) per job.

- iii. Failing work and materials will be subject to correction or reduced payment per Minnesota Department of Transportation recommendations, except for the table below.

PAYMENT SCHEDULE OF MAXIMUM DENSITY TABLE 2360.6 MODIFIED FOR MAPLE GROVE	
DENSITY	AMOUNT OWED
95% and Above	100%
94% - 94.9%	99%
93% - 93.9%	97.5%
92% - 92.9%	95%
91% - 91.9%	92.5%
90% - 90.9%	87.5%
Below 90%	Remove and Replace

8) 2360 PLANT MIXED ASPHALT PAVEMENT

MIX DESIGNATION Numbers for the bituminous mixtures are as follows unless otherwise indicated in the Plans and Specifications:

Wearing course for residential roadways – SPWEA230B
 Non-Wearing course for residential roadways – SPNWB230B
 Wearing course for driveways and paths – SPWEA240B

9) BASIS OF PAYMENT

Payment for the accepted quantities of asphalt mixture used in each course at the Contract prices per unit of material shall be compensation in full for all costs of constructing the asphalt surfacing as specified, including the costs of furnishing and incorporating any asphalt binder, Mineral filler, hydrated lime, or anti-stripping additives that may be permitted or required.

The Contractor is responsible to complete yield checks and monitor thickness determinations so that the constructed dimensions correspond with the required Plan dimensions throughout the entire length of the project. The tolerances for lift thickness shown in MnDOT 2360E, Thickness and Surface Smoothness Requirement is for occasional variations and not for continuous overrunning or under-running, unless ordered or authorized by the Engineer.

The provisions of MnDOT 1903 are modified to the extent that the City shall not make a price adjustment in the event of increased or decreased quantities of asphalt mixture items. Payment for plant mixed asphalt surface shall be made on the basis of the following schedule:

Item No.	Item Unit
2360.501 Type SP* Wearing Course Mixture (1, 2)	square yard
2360.502 Type SP* Non Wearing Course Mixture (1, 2).....	square yard
2360.505 Type SP* Bituminous Mixture for Specified Purpose.....	square yard
2357.502 Bituminous Material for Tack Coat.....	gallon

(1) Traffic Level Designation in accordance with Table 2360-1, "Traffic Levels"

(2) AC binder grade designation (Table 2360-2)

* Aggregate size Designation, 9.5, 12.5 or 19 as appropriate, see 2360.1.A.3

[END PLANT MIXED BITUMINOUS CONSTRUCTION]