

FY2020 Contract Seal Coat Guidelines

- **Plan templates are located in ProjectWise in the design seed files:**

SEAL_COAT_01_Title_05_2020
 SEAL_COAT_02_Typical_2020
 SEAL_COAT_03_Quantities_2020
 SEAL_COAT_04_TC_1_2020
 SEAL_COAT_05_TC_2_2020
 SEAL_COAT_06_TC_3_2020
 SEAL_COAT_07_TC_4_2020
 SEAL_COAT_08_TC_5_2020

The ADT of the routes should be listed in the left top corner of the Title sheet. This information is used by the Project Reviewer to set the liquidated damages and is also beneficial to the contractor to be aware of the amount of traffic on the route.

- **Selection guidance on the aggregate grade of seal coat will be as follows:**

The type of bituminous material and grade of liquid asphalt is selected by the contractor. Differing aggregate qualities are available and specified according to the roadway traffic as shown in the tables below:

Two Way Traffic	
Seal Coat Grade	ADT
C	< 750 and any shoulders
B1 & B2	< 1,700
A1	< 3,500
A2	< 8,500

Divided Highways	
Seal Coat Grade	ADT
B1 & B2	< 3,500
A1	< 14,000
A2	< 17,000

Grades A1 and B1 are coarse (3/8") aggregate seals and should be used on pavement surfaces with minor distresses. Grades A2 and B2 are fine (1/4") aggregate seals and should be used on pavement surfaces with little to no distresses. Higher grades (grades associated with higher ADT) maybe substituted for lower grades.

A seal coat placed on a porous surface such as an aggregate base should receive a prime coat. If a prime coat is used, the appropriate pay item must be added to the project.

- The JSP template is located in [EPG 409 Seal Coat Program](#). The DBE Program Requirements should not be included with Seal Coat Projects. Additionally, QM and Contractor QC JSP's are not included with Seal Coat Projects.
- Any surface irregularities will be accounted for by adjusting the application rate in the field per the direction of the Engineer. No additional quantities should be accounted for in the plans. Major surface irregularities should be corrected by maintenance forces at least two weeks prior to placement of the Seal Coat, by placing cold or hot mix.
- Proper design of a seal coat consists of determining the proper rate of application for the bituminous material and cover aggregate. Contact the District Pavement Specialist for the target emulsion application rate to place on typicals, and to determine quantities.

MoDOT Pavement Marking:

The district will need to coordinate with the striping crews to have the stripe completed within 14 days after the seal coat is completed. Pavement marking quantities need to be removed from Summary of Quantities Sheet 1 of 1, and remove Traffic Control Sheet 5 of 5 from the template plan sheets. Any route that currently has existing edgeline, will need to include quantities for Temporary Pavement Markers for the edgeline in addition to the centerline marking. If used, intersection marking should be coordinated with District Traffic.

Contractor Pavement Marking:

Contractor striping should be performed after a minimum 7 day cure time after placement of the seal coat. The contractor is required to provide temporary pavement marking for both the centerline and any edgelines. No pay item is included for temporary pavement marking when contractor striping is provided.

- Contract Time:** The contract time will need to be specified in the *Contract Liquidated Damages* JSP. The general rule is two (2) calendar days for every one (1) working day with a minimum of 30 calendar days unless the district has justification for a tighter time frame due to impacts to the traveling public. Calendar days for each route should be included in the PS&E submittal.

Recommended Completion Date: September 1, 2020
 Recommended Completion Date if let after March 31, 2019: September 1, 2021

For projects with a 2021 completion date, Seal Coat Completion of Work JSP (JSP-15-08) must be included in the JSPs. Additionally; the RE will be responsible to advise maintenance staff of the contractor proposed completion date in order to address any impacts to maintenance activities performed in effort to prepare the route for the contract treatment.

- Bridges:** Bridges should be excepted unless prior written approval is obtained from the Bridge Division and submitted with the transmittal package. If included, bridge slab drains should be plugged. Existing guardrail at bridge ends and box culverts may need to be replaced, review EPG Section 606.1 Guardrail for replacement guidance. When replacing guardrail at existing bridge end connections that do not conform to the current standards, they should be considered for replacement or modification, consult the Bridge Division Liaison Engineer.
- Pay Items: - Add additional bid items as needed.**

CONTRACTOR STRIPING	
Item No.	Description
4091048	Emulsified Asphalt, Seal Coat
40940XX	Seal Coat Aggregate, Grade A1, A2, B1, B2, or C
6161005	Construction Signs
6161009	Flag Assemblies
6181000	Mobilization
6206000C	4 In White Standard Waterborne Pavement Marking Paint
6206001C	4 In. Yellow Standard Waterborne Pavement Marking Paint