

# **Material Mix Design Specification 2023 Jefferson Co. Mill & Fill/Leveling**

PennDOT 10-5 Jefferson Co.  
205 Witherow St.  
Punxsutawney, PA 15767

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PennDOT Maintenance 10-5, Jefferson County, (herein referred to as “The Department”), is requesting bids for:

- 19mm SRL= Any, Binder 0.0<0.3 MESAL, PG 64-22
- 9.5mm SRL= Any ESAL=Any, PG 64-22
- 9.5mm SRL= H 0.3<3 Million ESAL, PG 64-22
- 9.5mm SRL= Any, ESAL=Any, PG 58-28

Testing and development of mix designs will be the responsibility of the vendor and subject to review and approval by the PennDOT District Material Engineer.

## **Worker Protection and Investment**

Pursuant to Executive Order 2021-06, Worker Protection and Investment (October 21, 2021), the Commonwealth is responsible for ensuring that every Pennsylvania worker has a safe and healthy work environment and the protections afforded them through labor laws. To that end, contractors and grantees of the Commonwealth must certify that they are in compliance with all applicable Pennsylvania state labor and workforce safety laws. Such certification shall be made through the Worker Protection and Investment Certification Form (BOP-2201) and submitted with the bid, proposal or quote.

## **Questions**

Questions regarding this IFB must be submitted in writing to Aaron Emhoff, PennDOT 10-5 Jefferson Co. Maintenance Manager at [aemhoff@pa.gov](mailto:aemhoff@pa.gov). All questions and answers will be posted as an addendum to this IFB.

## **Bid Opening**

No public bid opening will be held.

## **SPECIFICATIONS**

### **19mm**

The Department is requesting bids for 19mm, SRL=ANY, 0.0<.3 MESAL, PG 64-22 material to be delivered to the Department crews for placement by Department equipment on Jefferson County state routes in the northwest portion of Jefferson County. (See attached chart). The material is for placement by Department forces with the delivery to state routes by the vendor. The awarded vendor is to provide a Warm Mix Asphalt, as approved by the District Materials Engineer. Additionally, the Department is requesting an FOB plant pick up price for incidental work in the county of the same material bid for delivery.

### **9.5mm SRL-Any**

The Department is also requesting bids for 9.5mm SRL=Any ESAL=Any, PG 64-22 material to be delivered to the Department crews for placement by Department forces on various State Routes (see attached chart) within Jefferson County. For this operation, the Department will be (scratch) paving portions of these roadways. The awarded vendor is to provide an approved Warm Mix Asphalt mix as approved by the District Materials Engineer. Additionally, the Department is requesting an FOB plant pick up price for incidental work in the county of the same material bid for delivery.

### **9.5mm SRL-H**

The Department is also requesting bids for 9.5mm SRL-H 0.3<3 Million ESAL, PG 64-22 material to be delivered to the Department crews for placement by Department forces on State Route 28 and State Route 36. For this operation, the Department will be patching portions of Route 28 between the Clarion County line and Brockway. On Route 36 we will be patching portions of the roadway in the Cook Forest area. The awarded vendor is to provide an approved Warm Mix Asphalt mix as approved by the District Materials Engineer. Additionally, the Department is requesting an FOB plant pick up price for incidental work in the county of the same material bid for delivery.

### **9.5mm SRL-Any PG 58/28**

The Department is also requesting bids for 9.5mm SRL=Any ESAL=Any, with PG 58-28 asphalt binder material to be delivered to the Department crews for placement by Department forces on State Routes 3039. For this operation, the Department will be (scratch) paving portions of this roadway. The awarded vendor is to provide an approved Warm Mix Asphalt mix as approved by the District Materials Engineer. Additionally, the Department is requesting an FOB plant pick up price for incidental work in the county of the same material bid for delivery.

Delivery of the material is anticipated to start the week of July 10<sup>th</sup>, 2023 as requested by the Department of Transportation. All quantities estimated.

The Department will be working a four-day work week throughout the spring/summer. This will consist of three-10-hour days and one-7.5-hour day (Typically Monday through Thursday).

- All material will be placed by Department forces and equipment. Measurement and payment will be in accordance with Pub 408, Section 413.
- Daily deliveries will be coordinated with the awarded vendor based on field conditions and Department working hours.

**\*PHASES OF WORK**

This year, our program will be broken up in *two (2)* phases. The vendor will bid on delivered pricing for all of the line items, in addition to quoting the source pickup pricing. **All quantities are estimated.**

- The first phase is anticipated to start on July 10<sup>th</sup>, 2023 and end on August 31<sup>st</sup>, 2023.
  - For informational purposes only, 19mm WMA material will be delivered to several different State Routes in the northwestern portion of Jefferson County for our mill and fill program. (See attached)
  - The estimated daily tonnage of supplied material for phase 1 is 300 to 500 tons.
  - Five roads within the program will require a minimum of five (5) delivery trucks per day. See attached for more details.
- The second phase is anticipated to start on September 5<sup>th</sup>, 2023 and end on October 13<sup>th</sup>, 2023.
  - For informational purposes only, 9.5mm WMA material will be delivered to roadways in the northwest portion of Jefferson County for our (scratch) leveling/paving program. (See attached)
  - The estimated daily tonnage of supplied material for phase 2 is 400 to 600 tons.

It is understood that the Department will be milling bituminous patches and will deliver the clean bituminous milling (suitable to be used for RAP) to the contractor's stockpile within a range of 25 highway miles on state-owned roads from our Reynoldsville/Emerickville maintenance stockpile

in Jefferson County (the 25 mile traveling distance is due to the County's time and truck limitations).

The bid price of all four materials in this Statement of Work should reflect the value of the residual asphalt and stone included in the millings that will be delivered with Department trucks to the vendor's stockpile.

**Note: Lines 1-4 of the solicitation should be utilized to quote asphalt with delivery while lines 5-8 should be utilized to quote pricing for source pickup where PennDOT would be picking up material at the plant.**

In an attempt to encourage and promote the use of high percentage recycled asphalt material in a cost-saving effort to the public, the amount of millings that are to be returned to the vendor will be equal to the amount of millings used in the provided material (10,000 tons X 30% RAP= 3000 tons returned). Millings that are contaminated with aggregates or dirt will be retained by Jefferson County PennDOT and will be used for other operations and would be the property of the Department.

A Pre-Pave meeting is required and will be scheduled prior to the start of paving – date to be determined.

See the chart below for estimated tonnage to each location, for information only. \*RED- Denotes roads requiring a minimum of five (5) delivery trucks per day.

## Mill and Fill

<u>SR</u>	<u>Segments</u>	<u>Estimated Tons / SR</u>	<u>Material</u>
28	0010 to 0090 0360/0460 0490/0530	500 400 200	9.5mm-H 9.5mm-H 9.5mm-H
36	0980 to 1010	200	9.5mm-H
<b>*949</b>	<b>0470 to 0490</b>	<b>500</b>	<b>19mm-ANY ANY</b>
<b>*1027</b>	<b>0010 to 0080</b>	<b>600</b>	<b>19mm-ANY ANY</b>
3003	0310 to 0360	700	19mm-ANY ANY
3035	0010 to 0024	200	19mm-ANY ANY
3039	0010 to 0080	150	19mm-ANY ANY
<b>*4001</b>	<b>0010 to 0090</b>	<b>750</b>	<b>19mm-ANY ANY</b>
4002	0010 to 0020	200	19mm-ANY ANY
4004	0010 to 0050	200	19mm-ANY ANY
<b>*4005</b>	<b>0170 to 0320</b>	<b>1,600</b>	<b>19mm-ANY ANY</b>
<b>*4006</b>	<b>0010 to 0120</b>	<b>1,000</b>	<b>19mm-ANY ANY</b>

## Paving/ Leveling

<u>SR</u>	<u>Segments</u>	<u>Estimated Tons / SR</u>	<u>Material</u>
949	0470 to 0490	450	9.5mm ANY ANY
1027	0010 to 0080	1,600	9.5mm ANY ANY
3003 3003	0260 to 0300 0330 to 0340	500 50	9.5mm ANY ANY
3035	0010 to 0024	200	9.5mm ANY ANY
4001	0010 to 0090	1,200	9.5mm ANY ANY
4004	0010 to 0050	900	9.5mm ANY ANY
4005	0170 to 0320	1,400	9.5mm ANY ANY
4006	0010 to 0120	1,000	9.5mm ANY ANY
3039	0010 to 0090	1,900	9.5 MM <b>PG 58/28</b>

The Department, working with the Pennsylvania Asphalt Pavement Association, developed a standard special provision (SSP) facilitating the use of higher amounts of reclaimed asphalt pavement (RAP) into 19.0 mm asphalt mixtures for use on low volume roadways. This SSP was developed in support of the Department's RoadMaP initiative to expand the cost-effective use of RAP on our roadways. The SSP C4411-0010 allows up to a maximum of 50% RAP by weight in the mix. However, existing approved mixes with lesser quantities of RAP may also meet the requirements of the SSP. (See the attached Standard Special Provisions).

The Department has the right to add and / or eliminate tonnage.

**One vendor will be awarded the bid for the lowest overall bid total combined.**

**Note: All quantities are estimated.**

