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Coshocton County Engineer's Office
2023 MVG Sealing, FDR Project

Addendum Number 3 – March 20, 2023

Issue Date	Monday, March 20, 2023
Issued By:	Joshua D. Kempf, P.E., S.I. Deputy Engineer
Bid Date:	Monday, March 27, 2023
Bid Time:	9:00 a.m. Local Time

Addendum 1

1. Replace sheet DS 7 and DS 8 with the attached corresponding sheets.

All other materials contained within the original bid documents remain the same and unchanged unless noted in subsequent addendums.

As per the bidding requirements, all addendums must be acknowledged in the Contracts Proposals on page Contract Form 1 (CF 1).

ITEM 1601 FULL DEPTH RECLAMATION, 10”

1601.01 Description. This work consists of constructing a stabilized base course using Full Depth Reclamation (FDR) to pulverize and mix the existing asphalt pavement and base material with ~~304 aggregate base and~~ a portion of the underlying subgrade soil. The full depth reclaimed, stabilized, base course is also referred to as FDR.

1601.02 Materials. Furnish materials conforming to ODOT CMS 2019
~~Aggregate Base 703.17~~

Table 1601.02-1 PULVERIZED MATERIAL GRADATION

Sieve Size and Minimum Percent Passing			
3 in (75 mm)	2 in (50 mm)	No. 4 (4.75 mm)	No. 200 (75 µm)
100	95	45	[1]

1601.03 Equipment. Provide equipment as follows:

A. Reclaimer. Use a self-propelled reclaimer capable of:

1. Fully pulverizing the material into a gradation that meets Table 1601.02-1, incorporating water, and mixing the materials to produce a homogeneous, thoroughly blended material.

2. Providing 600 hp to reclaim a nominal 8 feet wide and 10 inches deep in each pass.

3. Adding water using a full-width spray bar consisting of a positive displacement pump interlocked to the reclaimer's ground speed so that the amount of water being added is automatically adjusted with changes to the reclaimer's ground speed. Equip the spray bar with individual valves capable of being turned off as necessary to minimize water overlap on subsequent passes.

4. Adjusting the rotation speed of the cutting drum independent of the machine’s forward speed.

B. Rollers. Provide vibratory footed roller(s) with front mounted blade for back-dragging, having a minimum static weight of 10 tons and a minimum effective weight of 25 tons. Provide vibratory single or tandem smooth drum roller(s) having a minimum static weight of 10 tons for intermediate and finish rolling.

1601.04 Construction. Protect all reclaimed areas from damage.

A. Weather. Do not perform reclamation of frozen material. Do not perform reclamation when the air temperature is less than 40 °F. Do not perform reclamation in rain or if rain is forecasted within two hours of completion of the work.

B. Pulverization and Initial Shaping. Overlap adjacent passes of the reclaimer by a minimum of one foot. Shape and densify reclaimed material using the motor grader.

~~**C. Spreading.** Before pulverizing and shaping, spread the aggregate base uniformly on the surface at a depth of 2" over entire area to be reclaimed using a mechanical spreader.~~

D. Mixing. Combine the pulverized materials, ~~aggregate base~~, and water. Maintain adequate liquids in the mixture to ensure thorough mixing of the reclaimed material and aggregates.

If the moisture content is too low, add water directly to the mixing chamber of the reclaimer by a water truck connected to the reclaimer. Monitor the depth of reclamation regularly to maintain the designed depth.

E. Compacting. Compact the FDR material as described below

Rolling. Begin compaction no more than 30 minutes after the final mixing. Complete all compaction operations within 2 hours from the start of mixing. Use a footed roller for compaction and maintain a distance less than 500 feet behind all reclaimer units. Compact with roller settings for high amplitude and low frequency vibration. Use at least 4 passes over entire reclaimed area.

F. Grading. After the completion of compaction, use a motor grader to cut the FDR material, no deeper than necessary, to remove roller marks from the compaction rolling and to achieve desired cross slope.

G. Final Rolling. Compact the graded FDR material with a smooth drum roller. Vibratory mode may be used for intermediate compactive pass(es). Do not use vibratory mode during the final finish rolling pass(es). Alter the number of roller passes to meet compaction requirements of the regraded surface material. Water may be lightly sprayed by a water truck to aid in improving final density and appearance.

I. Proof Rolling. After final rolling, proof roll the FDR according to ODOT CMS 204.06

1601.05 Method of Measurement. The Department will measure full depth reclaimed base course by the number of square yards computed from area reclaimed. The Department will measure aggregate base by the number of tons incorporated in the complete and accepted work.

THIS PROJECT MUST BE COMPLETED BETWEEN
May 8, 2023 and June 30, 2023