



**DULUTH CITY HALL
GROUNDS IMPROVEMENTS**

ADDENDUM NUMBER 1

DATE: August 29, 2022

City of Duluth #: 22-99385

OWNER: City of Duluth, 1532 W. Michigan St, Duluth MN 55806

CONSULTANT: **SAS+Associates** 219 West First Street, Suite 350 Duluth, MN 55802

TO: **Prospective Bidders**

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated August 12, 2022 with amendments and additions noted below.

Acknowledge receipt of this Addendum within the Bid Express solicitation. Failure to do so may disqualify the Bidder.

This Addendum consists of 1 page and revised pages 20-21 of the Specifications (Bid Form).

CLARIFICATION

- 1) (*Spec Section 32 12 16 – 2.01.D*) Surface Course for Asphalt Materials shall be 1-1/2" in compacted thickness and meet all 2019 City of Duluth Construction Standards/ 2018 MNDot Standard Specifications for Construction.
- 2) (*Spec Section 32 12 16 – 2.01.D*) Surface Course for Asphalt Materials; the line stating "The exact bitumen content shall be as determined by the preliminary job mix formula within the range of 5-8% by weight of the total mixture" is to be removed from the spec. The asphalt paving materials are to meet all 2019 City of Duluth Construction Standards/ 2018 MNDot Standard Specifications for Construction.
- 3) Striping for the Electric Vehicle (EV) parking stalls is to be approved by City of Duluth staff through shop drawing submittal. Minimum size for EV stall stencil is to be approximately 36" x 36".

ATTACHMENTS

Spec Section 31 12 16 – Asphalt Paving.

END OF DOCUMENT

32 12 16
ASPHALT PAVING

PART 1 - GENERAL

1.01 SCOPE OF WORK

- A. The Conditions of the Contract and the Provisions of Division 01 apply to all work of this Section.
- B. This Section includes all labor, material, equipment and services necessary to furnish and install all asphalt paving and related work all in accordance with the drawings and specified herein.
- C. Related Work Specified Elsewhere:
 - 1. Site Clearing - Section 31 10 00
 - 2. Earth Moving - Section 31 20 00
 - 3. Aggregate Base Courses - Section 32 11 23

1.02 SYSTEM DESCRIPTION

- A. Two courses of Asphalt Pavement (plant mixed) and related painting and signage.

1.03 QUALITY ASSURANCE

- A. All work shall conform to requirements of the Minnesota Department of Transportation specifications.

1.04 SUBMITTALS

- A. This contractor shall submit a preliminary design mix for approval by the Architect based on materials outlined in Article 2.01 below.
- B. TESTS: The following tests shall be made by an independent testing laboratory. Tests shall be paid for by the contractor. One set of tests shall be performed for the Base Course and one set of tests on the Surface Course. Test set shall be as follows:
 - 1. Extraction of Bitumen.....ASTM D2172-75
 - 2. Gradation.....ASTM C136-76 and C117-76
 - 3. Field Density.....ASTM D1188-71 and D1559-76
 - 4. Thickness.....Field Measurement

PART 2 - PRODUCTS

2.01 ASPHALT MATERIALS

- A. Furnish and place plant mixed bituminous materials using Plant Mixed Asphalt Pavement and Asphalt concrete surface.
- B. BASE COURSE: Conform to DOT Spec. 2331, type BA-2 aggregate per DOT Spec. 3139. Bitumen for base course shall be asphalt cement, 85-100 penetration or 120-150 penetration. The exact bitumen content shall be as determined by the preliminary job mix formula within the range of 3.5 to 5.5% by weight of the total mixture. Base course shall be 2" in compacted thickness, with max. 3/4" aggregate.
- C. TACK COAT: Conform to DOT Spec. 2357, Bituminous Tack Coat, RC liquid asphalt.

- D. SURFACE COURSE: Conform to DOT Spec. 2331, Type BA-1 aggregate per MnDOT Spec. 3139. Bitumen for the surface course shall be asphalt cement, 85-100 penetration. ~~The exact bitumen content shall be as determined by the preliminary job mix formula within the range of 5-8% by weight of the total mixture.~~ Surface course shall be 1-1/2" in compacted thickness.

2.02 PAINTING MATERIALS

- A. Paint for marking shall be Alkyd Resin Type, PPG traffic and zone marking paint #11-4 yellow or approved equal.

If White paint is required change number to 11-3. If chlorinated rubber type paint is required use UC-12838 - White or UC-12839 - Yellow.

PART 3 - EXECUTION

3.01 INSTALLATION - ASPHALT

- A. Bituminous surfacing shall not be placed until testing lab has approved aggregate base compaction.
- B. Conform with DOT Sections called for above and the following requirements:
1. Compaction shall be complete and uniform over all asphalt surfaces. Ordinary compaction method may be used over each course uniformly compacting until there is no further evidence of consolidation, all roller marks are eliminated, and complete surface drainage is achieved. Roll to attain a uniformly tight and dense surface without voids, cracks, and similar Water traps.
 2. Provide patch where new pavement abuts existing streets with clean edge cut and full design depth where meeting existing pavement.

3.02 PAINTING

- A. Painting shall be done only when temperature is above 50 degrees F.
- B. Apply paint in accordance with manufacturer's instructions.
- C. Surfaces shall be dry and free of grease and loose dirt particles. Apply with brush or marking machine as per manufacturer's recommendation. Stripes to be 4" wide minimum or wider in accordance with local requirements. Lines to be parallel, evenly spaced, with sharply defined edges. Paint lines as shown on the drawings.

END OF SECTION