

STATE OF NEBRASKA
DEPARTMENT OF TRANSPORTATION
ADDENDUM NO. 1
AND
ELECTRONIC BIDDING SYSTEM
AMENDMENT NO. 1
PROJECT NO. NH-75-2(128)
CONTROL NO. 21209
CALL NO. 200
US-75, MURRAY - PLATTSMOUTH
LETTING DATE: NOVEMBER 19, 2020

The Schedule of Items is amended as follows:

1. In Group 3, the quantity for bid item "8" Doweled Concrete Pavement, Class 47B-3500" is incorrect and should read 4,541.000 SY.
2. In Group 3, the quantity for bid item "10" Concrete Pavement, Class 47B-3500" is incorrect and should read 66,315.000 SY.
3. In Group 3, the quantity for bid item "Temporary Surfacing 10"" is incorrect and should read 5,306.000 SY.
4. In Group 3, the quantity for bid item "Hydrated Lime" is incorrect and should read 6,067.331 TON.
5. In Group 3, the quantity for bid item "Foundation Course 4"" is incorrect and should read 320,509.000 SY.
6. In Group 3, the quantity for bid item "Stabilized Subgrade Type Lime" is incorrect and should read 320,304.000 SY.
7. In Group 3, the quantity for bid item "Water" is incorrect and should read 1,420.500 MGAL.
8. In Group 3, the quantity for bid item "Subgrade Preparation" is incorrect and should read 31,294.000 SY.
9. In Group 4, the bid item "Structural Steel for Face Armor" has been added with a quantity of 729.000 LB.

The EBSX generated bid items sheets must show these corrections or the bid will be void.

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It should be noted that the plan sheets C1, C2 & C3 will not be revised to reflect these changes. The Project Manager is directed to make these changes as part of the AS BUILT plans.

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On pages 258 and 259 of the Special Provisions, the provision titled **PORTLAND CEMENT CONCRETE** is void and superseded by the following:

PORTLAND CEMENT CONCRETE

Paragraphs 1. a. and b. of Subsection 1002.04 in the Standard Specifications are void and superseded by the following:

1. Class 47B Concrete Mix Design Submittal:
 - a. The contractor shall submit the Department's Concrete Mix Design Worksheet with all relevant tabs completed prior to review by the engineer. The Concrete mix design shall be from a minimum of a 4 cubic yard batch. The Department's Concrete Mix Design Worksheet can be found on the Materials and Research website.
 - (1) All testing must be performed by a qualified laboratory found on the Department's Material and Research website, under the Nebraska Qualified Consultant & LPA Laboratories and submitted to the Engineer.
 - (2) The Concrete Mix Design shall be submitted to the Engineer 4 weeks prior to any concrete being placed on the project.
 - (3) The Concrete Mix Design shall not be paid for directly by the Department and shall be subsidiary to items which direct payment is made.
 - i. Concrete shall not be placed on the project before the Concrete Mix Design Worksheet has been reviewed and approved by the Engineer.
 - (4) Contractor shall meet the combined Target Aggregate Gradation (TAG) percent passing as described on Table 1033.03C.
 - i. If the Contractor intends to optimize a TAG by use of the Tarantula Curve technique, then the Contractor shall develop the TAG that meets the following Tarantula Curve requirements.
 - A minimum of 15% Coarse Sand between and including the No. 8 to the No. 30 sieves.
 - For slipform paving, the allowable range for fine sand is between 24-34% including No. 30 to No. 200 sieve.

- ii. The above listed criteria shall be reported on the appropriate Tab in the Concrete Mix Design Worksheet.
 - iii. If the Contractor meets the Tarantula Curve requirements, the minimum cement content may be reduced to 517 lbs./yd³.
- (5) Testing of Concrete Mix Design:
- i. The concrete mix design shall show the weights of all ingredients including Interground/Blended cements, aggregates, water, admixtures types and water cement ratio.
 - Temperature of concrete at time of sampling, ASTM C 1064.
 - The air content of plastic concrete, ASTM C 231.
 - Weight per cubic foot, yield, ASTM C 138.
 - Compressive strength shall be performed with a minimum of three averaged specimens at 7-day and 28-day, ASTM C 39. The minimum 28-day compressive strength shall be 3500 psi.
- (6) Traditional 47B Mix Design is defined as a IP, IT or IS interground/Blended cements, 70% Class B Aggregate and 30% Class E Aggregate. The traditional 47B mix may be exempt from the concrete testing described in Paragraph 1.(a)(5). All other requirements shall be included in the Concrete Mix Design Worksheet.

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On pages 259 and 260 of the Special Provisions, the provision titled **PORTLAND CEMENT** is void and superseded by the following:

PORTLAND CEMENT

Paragraph 1. of Subsection 1004.04 is void and superseded by the following:

1. Portland and Interground/Blended cements shall be on the Nebraska Qualified Material Vendors List (NQMVL).

The reference to “the APL” in Paragraph 2. of Subsection 1004.04 is revised to “the NQMVL”.

Paragraph 2.a.(9) of Subsection 1004.04 is void and superseded by the following:

- (9) Report test results per ASTM C 1567 at 28 days and/or AASHTO T 380 at 56 days.

Paragraph 3. of Subsection 1004.04 is void and superseded by the following:

3. Alkali Silica Reaction Requirements and Testing:
 - a. Interground/Blended cement shall be tested according to the provisions of ASTM C 1567.
 - (1) The mortar bars shall be composed of Type IP, IS or IT Interground/blended cement and sand/gravel from an approved Platte River Valley (Saunders County) and/or Elkhorn River (Madison County) aggregate source.
 - (2) The mortar bars for the ASTM C 1567 shall not exceed 0.10% expansion at 28 days.
 - i. If the expansion is greater than 0.10% at 28 days, then the Interground/Blended cement shall be tested in accordance with AASHTO T 380 using sand/gravel from an approved Platte River Valley (Saunders County) and/or Elkhorn River (Madison County) aggregate source with an expansion not greater than 0.02% at 56 days.

Paragraph 2. of Subsection 1004.05 is void and superseded by the following:

2. Noncompliant material shall be tested in accordance with ASTM C 1567 and in accordance with Subsection 1004.04, Paragraph 3.a.(1).
 - a. The mortar bars for the ASTM C 1567 shall not exceed 0.10% expansion at 28 days.
 - b. If the expansion for ASTM C 1567 is greater than 0.10% at 28 days, then the Interground/Blended cement shall be tested in accordance with AASHTO T 380 using the most reactive aggregate from the project with an expansion not greater than 0.02% at 56 days.
 - c. If the expansion for ASTM C 1567 is greater than 0.10% at 28 days or if the expansion for the AASHTO T 380 is greater than 0.02% at 56 days, then the Interground/Blended cement shall be subject to removal, 40% pay, and/or removal from NDOT's NQMVL in accordance with NDOT's Acceptance Policy on Portland and Interground/Blended Cements.

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On page 260 of the Special Provisions, the provision titled **BITUMINOUS LIQUID COMPOUNDS FOR CURING CONCRETE** is void and superseded by the following:

BITUMINOUS LIQUID COMPOUNDS FOR CURING CONCRETE

Subsection 1013.02 in the Standard Specifications is amended to include the following:

2. The Contractor has the option of using bituminous tack coat. The tack coat shall conform to all requirements of Section 504.

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On page 261 of the Special Provisions, the provision titled **DOWEL BARS** is void and superseded by the following:

DOWEL BARS

Paragraphs 1. and 2. of Subsection 1022.02 in the Standard Specifications are void and superseded by the following:

1. A plant supplying coated dowel bars under these Specifications shall meet the Acceptance Requirements as set forth in Section 1021 for Epoxy Coated Reinforcing Steel. A certification by the manufacturer of the coating material and/or the coating applicator is required.
 - a. The certification shall consist of a statement to the effect that the coating material represented conforms to AASHTO M 254 and the requirements in this Section
 - b. Three copies of the certification and test results shall be furnished.
 - c. The coating applicator shall also furnish 3 copies of the mill test showing physical and chemical test results of the steel used in the fabrication of the coated bars.

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On pages 261 and 262 of the Special Provisions, the provision titled **AGGREGATES** is void and superseded by the following:

AGGREGATES

Paragraph 2. of Subsection 1033.02 in the Standard Specifications is amended to include the following:

- g. All Portland cement concrete aggregates - regardless of their source - will be sampled and tested by the Engineer for their potential alkali reactivity in accordance to ASTM C 1260. This testing is a part of the materials source and quarry approval process.
 - (1) The expansion shall not be greater than 0.57% at 28 days.
 - i. If the expansion is greater than 0.57%, the aggregate shall not be used.
- h. Lightweight pieces found in dry pits (where naturally occurring aggregates are being quarried from stratum above groundwater) shall not exceed 0.5% (measured by percent volume value) in accordance to NDOT T 113.

Paragraph 3.a.(8) of Subsection 1033.02 is void.

Paragraph 3.b.(2) & (3) of Subsection 1033.02 is void and superseded by the following:

- (2) The percent of clay lumps, shale, or soft particles shall not exceed the following amounts:

Clay Lumps	0.5%
Shale	1.0%
Soft Particles	3.5%
- (3) Any combination of clay lumps, shale and soft particles (all percent by weight values) shall not exceed 3.5%.

Paragraph 3.b.(8) of Subsection 1033.02 is void.

Table 1033.03C of Subsection 1033.02 is void and superseded by the following:

Table 1033.03C

*Class R – Combined Aggregate Gradation Limits (Percent Passing)								
Sieve Size	1 ½ Inch	1 Inch	¾ Inch	No. 4	No. 10	No. 30	No. 50	No. 200
Max	100	100	98.0	70.0	50.0	30.0	12.0	3.0
Min	100	84.0	64.0	6.0	2.0	2.0	2.0	0.0

* Refer to Subsection 1002.04, Paragraph 1. a (6) in these special provisions for the traditional 47B Mix Design.

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On pages 262 and 263 of the Special Provisions, the provision titled **SUPERPAVE ASPHALTIC CONCRETE** is void and superseded by the following:

SUPERPAVE ASPHALTIC CONCRETE

Table 1028.07 and Table 1028.08 in Subsection 1028.02 of the Standard Specifications are void and superseded by Table 1028.08 shown below. All references to Table 1028.07 in the Standard Specifications are void and superseded with Table 1028.08.

**Table 1028.08
 Gradation Control Points for SPR and SPR (Fine)**

English Sieve (Metric)	Control Points (Percent Passing)	
	Minimum	Maximum
¾ inch (19 mm)	98.0	100.0
½ inch (12.5 mm)		
⅜ inch (9.5 mm)	81.0	98.0
No. 4 (4.75 mm)		
No. 8 (2.36 mm)	46.0	56.0
No. 16 (1.18 mm)		
No. 30 (600 µm)		
No. 50 (300 µm)	12.0	21.0
No. 200 (75 µm)	4.0	9.0

Table 1028.10 in Subsection 1028.03 is void and superseded by the following:

**Table 1028.10
 Gyrotory Compaction Effort
 (Average Design High Air Temperature < 39 degrees C)**

Asphaltic Concrete Type	N_{des}
SPS	40
SPR	65
SPH	50
SLX	50
SRM	65

Table 1028.18 (SLX) of Subsection 1028.03 is void and superseded by the following:

**Table 1028.18 (SLX)
 Acceptance Schedule
 Air Voids – N_{des}**

Air voids test results for Asphaltic Concrete Type SLX	Pay Factor	
	Moving average of four	Single test
Less than 0.5%	50% or Reject	50% or Reject
0.5% to 0.9%	50% or Reject	50%
1.0% to 1.4%	50% or Reject	95%
1.5% to 1.9%	90%	95%
2.0% to 2.4%	100%	100%
2.5% to 3.5%	102%	104%
3.6% to 4.0%	100%	100%
4.1% to 4.5%	95%	95%
4.6% to 5.0%	90%	95%
5.1% to 5.5%	50% or Reject	90%
5.6% to 6.0%	50% or Reject	50%
6.1% and over	50% or Reject	50% or Reject

Paragraph 8.d. of Subsection 1028.03 is void and superseded by the following:

- d. Normally, 1 (one) sample for determination of density will be taken from each subplot at locations determined by the Engineer.

Paragraph 8.e. of Subsection 1028.03 is void and superseded by the following:

- e. The average density of the lot and the single density test shall be used to compute the pay factor for density. Exceptions to the sampling and testing of core samples for the determination of density are as follows:

Paragraph 8.e.(1) of Subsection 1028.03 is void and superseded by the following:

- (1) When the nominal layer thickness is 1 inch (25 mm) or less, the sampling and testing of density for this layer will be waived.

Paragraphs 8.f. (2), and (3) of Subsection 1028.03 in the Standard Specifications are void and superseded by the following:

- f. (2) (i) The “Single Test Pay Factor” listed in Table 1028.16 will be determined using the density value from each individual density test.
- (ii) The “Lot Average Pay Factor” listed in Table 1028.16 will be determined using the average density value of the individual density tests per lot.
- (3) Should the average of less than 5 (five) density tests indicate a pay factor less than 1.00, additional density samples to complete the set of 5 (five) shall be taken at randomly selected locations and the density pay factor based on the 5 (five) tests.

Table 1028.19. of Subsection 1028.03 in the Standard Specifications is void and superseded by the following:

Table 1028.19

Acceptance Schedule**		
Density of Compacted Asphaltic Concrete		
Density	Single Test Pay Factor	Lot Average Pay Factor
	% Pay Factor	% Pay Factor
≥ 94.0	104	102
93.0 to < 94.0	102	101
92.0 to < 93.0	100	100
91.0 to < 92.0	98	98
90.0 to < 91.0	95	97
89.0 to < 90.0	90	95
88.0 to < 89.0	80	90
< 88.0	50	50% or Remove

**When the final Pay Factor is below 100%, the Contractor will have the option to perform one set of recuts for the entire lot (5 new cores at locations established by the statistically based procedure of random sampling).

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On pages 263 and 264 of the Special Provisions, the provision titled **ASPHALTIC CONCRETE DENSITY** is void.

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On page 264 of the Special Provisions, the provision titled **WARM MIX ASPHALT** is void and superseded by the following:

WARM MIX ASPHALT

Paragraph 2. of Subsection 1080.03 of the Standard Specifications is amended to include the following:

Non-amine-based additives that are compatible with PPA, SBS, and other approved binder modification systems may be used with PPA and non-PPA binders, with the approval of the Engineer.

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On pages 59 and 60 of the Special Provisions, the provision titled **NOTICE TO BIDDERS (ELECTRONIC PLAN DATA)** is void and superseded by the following:

NOTICE TO BIDDERS (ELECTRONIC PLAN DATA)

General

This specification provides for the use of Electronic Plan Data for project construction. This Electronic Plan Data was used to develop the plans and was not intended for automated machine control or project surveying. Use of Electronic Plan Data is for the contractor's convenience.

Disclaimer

The Department does not guarantee or warranty that the Electronic Plan Data accurately represents the contract plans. The letting plans represent the contract plans and will be used to decide any and all disputes. The governing hierarchy will be in accordance with Subsection 105.04 of the Standard Specifications. The Contractor assumes all risks for the use of the Electronic Plan Data.

Contractor

The Contractor has the option of using the Electronic Plan Data for project construction. The Contractor may use any type of equipment and software systems that result in achieving the

requirements stipulated in the contract. The Contractor shall provide all equipment, software, technical support and Electronic Plan Data conversion required at no cost to the Department. The Electronic Plan Data furnished by the Department attempts to represent the completed project. Segments of the project may not be represented by the Electronic Plan Data. The Contractor shall determine when and may be required to construct segments of the project, not

represented by the Electronic Plan Data, using conventional methods at no additional cost to the Department.

The Contractor shall bear all costs for the correction of errors and reconstruction work that occurs due to software failure, equipment failure, ineffective satellite reception, errant Electronic Plan Data conversion or errors in the Electronic Plan Data. The Contractor shall bear all costs associated with any adjustments to their information due to changes in the contract including but not limited to plan revisions and change orders.

Delays due to software failure, equipment failure, ineffective satellite reception, errant Electronic Plan Data conversion, necessary adjustments in the contractor's information due to changes in the contract, or errors in the Electronic Plan Data will not be justification for additional compensation or granting contract time extensions.

NDOT

The Department will make the Electronic Plan Data available for selected projects only. Upon the advertisement for bids, the Electronic Plan Data will be available on the Bid Express website. The Electronic Plan Data was originally created with the computer software applications MicroStation (CADD Software) and GEOPAK (Civil Engineering Software). The Electronic Plan Data is generally made available in the following formats.

1. Documentation File (metadata about the files provided, descriptions, etc.)
2. CAD Files (*.DGN format)
 - a. Alignment File(s)
 - b. Roadway Design Feature File(s)
 - c. ROW Feature File (as applicable)
 - d. Wetlands Feature File (as applicable)
 - e. Original Topography
 - f. Cross Sections (as applicable)
 - g. 3D Design Breakline File
3. Alignment Data
 - a. LandXML Format
4. Machine Control Surface Model Files (LandXML format)
 - a. Existing Ground
 - b. Proposed Finished Grade
 - c. Proposed Grading Surface

- 5. Superelevation Transition Diagrams
 - a. Shown in Plans (typically on the General Information Sheets)
 - b. Word Document (unless a superelevation diagram is shown on the plans)

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The Special Provisions are amended to include the following:

**RECYCLED ASPHALT SHINGLES FOR USE IN
ASPHALTIC CONCRETE**

Section 1078 in the Standard Specifications is void.

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The Special Provisions are amended to include the following:

ASPHALT CONCRETE LONGITUDINAL JOINT DENSITY TESTING

Paragraph 1. of Subsection 1082.05 in the Standard Specifications is amended to include the following:

Joint Density Test Lot Pay Factor*	
Joint Density	Asphaltic Concrete Type SLX
93.0 or greater	102
92.0 to 92.9	100
91.0 to 91.9	98
90.0 to 90.9	95
89.0 to 89.9	90
88.9 or less	80

*Applicable to design thicknesses of over one inch of Asphaltic Concrete Type SLX.

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The Special Provisions are amended to include the following:

CONCRETE BEVELED EDGE

The concrete beveled edge shall be omitted when it abuts a permanent or temporary surface so as to create a clean vertical edge. The Contractor has the option to remove the beveled edge by sawing pavement at no additional cost to the Department or remove the bevel while the concrete is still plastic.

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On plan sheet B6, under the 2nd typical, the line titled Rock Bluff Rd. 9201+42.00 - 9201+54.00 is void.

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On plan sheet B6, under the 3rd typical, the bubble labeled (2) is incorrect and should read (1).

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Upon execution of the contract, the plans will be revised to reflect these changes.

DEPARTMENT OF TRANSPORTATION



for James J. Knott, P.E.
Construction Engineer

Issued: November 13, 2020
JJK: 200AD111

NOTICE: Only the contractors issued bidding proposals receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the contractor.