



South Dakota Department of Transportation
Division of Operations
700 E Broadway Avenue
Pierre, South Dakota 57501-2586

July 15, 2022

Mr. Craig Smith
Director of Operations
South Dakota Department of Transportation
Pierre, SD 57501

Subject: 9/7/2022 Supplemental Specifications to Division I of the 2015 Standard Specifications for Roads and Bridges

Dear Mr. Smith:

It is requested the subject item be reviewed for approval at the July 28, 2022 Transportation Commission Meeting. The proposed 9/7/2022 version of the Supplemental Specifications to Division I of the 2015 Standard Specifications for Roads and Bridges is attached.

Sincerely,

Ryan K. Johnson
Senior Specifications Engineer

**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

**SUPPLEMENTAL SPECIFICATIONS TO
2015 STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES**

SEPTEMBER 7, 2022

All items included in this Supplemental Specification will govern over the Supplemental Specifications for Errata.

MAKE THE FOLLOWING CHANGES TO THE INDICATED SECTIONS:

Section 1.4 – Page 1 – Add the following to page 3:

SDDANR	South Dakota Department of Agriculture & Natural Resources
THPO	Tribal Historic Preservation Office

Section 1.4 – Page 1 – Delete SHPO on page 3 and replace with the following:

SHPO	State Historic Preservation Office
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Section 1.5 – Page 3 – Delete the definition of contract on page 4 and replace with the following:

CONTRACT - The written agreement between the Department and the Contractor setting forth the obligations of the parties for the performance of the prescribed work.

The contract includes the following:

addenda, bidding package, bid proposal, bid proposal guaranty, bid schedule, contract form, change orders, contract items (pay items), contract performance bond, contract time, contract unit prices, notice to contractors, notice to proceed, plans (general and detailed), final project question and answer (Q&A) forum, proposal forms, standard specifications, supplemental specifications, special provisions, Department's Materials Manual, working drawings, written orders, extra work authorizations, and agreements required to complete construction of the work, including authorized extensions of time, all of which constitute one instrument.

Section 4.5 B.1 – Page 27 – Delete the first sentence and replace with the following:

Prior to written suspension, the Contractor will prepare the project as directed by the Engineer. To adequately accommodate traffic, the Contractor will provide surfacing materials to dimensions meeting the design standards of the roadway section for the anticipated type and volume of traffic during the period of suspension. The Department will provide the surfacing type and dimension requirements upon request. The surfacing must provide an acceptable grade elevation and provide proper drainage throughout the project leaving no bumps, dips, or vertical drop offs.

Section 4.7 – Page 28 – Add the following sentence:

Additionally, the Contractor will restore the project in accordance with environmental documents, permits, environmental commitments, and the contract.

Section 5.17 – Page 38 – Delete the last sentence of the 3rd paragraph and replace with the following:

At a minimum, the Contractor will submit the following required information in order and properly labeled:

Section 5.17 A, B, C, & D. – Page 39 – Delete and replace with the following:

- A. A fully completed, signed, and notarized Contract Claim Form (DOT-248). The written justification citing the basis for the claim will clearly reference relative sections of the plans, specifications, and other contract documents supporting the claim (label Page 1.1 through Page 1.X).
- B. An itemized list of the amount of extra compensation, time, or both providing all necessary dates, locations, and items of work claimed including, but not limited to, an itemized breakdown of actual costs for materials and supplies, labor, equipment, delays, indirect costs, overhead, and profit. Allowable costs submitted for each of the individual claim items will be verified using generally accepted contract cost principles and procedures (label Page 2.1 through Page 2.X).
- C. Records such as startup schedules, construction schedule updates, daily superintendent reports, diaries, photographs, and other documents supporting the claim (label Page 3.1 through Page 3.X).

Section 5.17 – Page 38 – Delete the 2nd sentence of the last paragraph on page 39 and replace with the following:

The Claim Review Panel will consist of the following: Department Secretary, Director of Planning and Engineering, State Construction & Maintenance Engineer, and the remaining Region Engineers who are not responsible for the project for which the claim was submitted, or any panel member's designee.

Section 7.21 – Page 52 – Add the following after 1st paragraph:

Any proposed alterations or changes will be reviewed to determine if there will be additional environmental impacts not previously addressed in the environmental documents, permits, environmental commitments, or the contract. This review will occur prior to work commencing on the proposed alterations or changes.

Section 7.21 B.2 – Page 54 – Delete the last sentence of 1st paragraph and replace with the following:

The Contractor must obtain the necessary environmental clearances and permits prior to the commencement of work, and comply with all restrictions attached to these clearances and permits associated with Contractor's use of area for project.

Section 7.21 B.2 – Page 54 – Add the following section to page 55:

- c. Endangered Species Act Clearance:** No activity is authorized under any permit which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act, or which is likely to destroy or adversely modify the critical habitat of such species. The Contractor will notify the Project Engineer if any listed species or critical habitat might be affected or is near the project and will not begin work on the activity until notified by the Project Engineer that the requirements of the Endangered Species Act have been satisfied and that the activity is authorized. Information on the location of threatened and endangered species and their critical habitat can be obtained from the USFWS.

Section 7.21 B.2.b – Page 55 – Delete the 1st paragraph and replace with the following:

Soil disturbing activities outside the plan work limits in or around “Waters of the United States”, which include jurisdictional streams and wetlands, may require a 404 permit from the USACE and a 401 Water Quality Certification from the SDDANR. The Contractor is responsible to coordinate with the USACE and SDDANR for a determination on the need for a 404 Permit or 401 Certification.

Section 7.21 D – Page 55 – Delete and replace with the following:

- D. Temporary Works in Wetlands and Waters of the United States:** Whenever temporary work is required in wetlands or waters of the United States, the Contractor must submit a plan to the Engineer for approval that utilizes temporary structures, timber, soil with geotextile fabric, or other suitable matting. The plan must conform to the requirements of Section 423.3 A. The plan must include erosion and sediment controls in accordance with the specifications. The Contractor’s plan must include a schedule for installation and removal of temporary materials so a field inspection can certify the materials were properly removed and the area properly restored. The Contractor is responsible for any corrective action required to complete this work.

Section 8.7 – Page 63 – Delete the 2nd sentence of the 1st paragraph and replace with the following:

If completion of the contract requires performance of extra work or work on items with an increase in quantities that will result in a delay to the completion of the entire project, defined as controlling items of work as shown on the Contractor’s construction schedule or a significant change in the character of work due to the conditions specified in Section 4.3 B, the contract time will be extended in the same proportion as the cost of increased work bears to the total original contract amount or by the actual amount of time delay to the completion of the entire project it takes the Contractor to perform the extra work.

Section 8.7 – Page 63 – Delete the 1st sentence of the 2nd paragraph and replace with the following:

If the Contractor feels the time extension is insufficient for the increased work involved, the Contractor may submit to the Engineer written notification of a time extension request containing a narrative justification citing the basis for the time extension.

Section 8.7 – Page 63 – Add the following sentence to the end of the 2nd full paragraph on page 64:

Any time extension granted under this section must be justified on the basis of unavoidable delay in starting or completing work on the entire project and then only when and to the extent it is shown the delay time could not be overcome and the work brought back on schedule through reasonable adjustments in the Contractor's sequence of operations.

Section 8.7 – Page 63 – Delete the last sentence of the 4th full paragraph on page 64 and replace with the following:

The Contractor will complete the remainder of the Contract Claim Form and include the following required information in order and properly labeled.

Section 8.7 1, 2, & 3. – Page 64 – Delete and replace with the following:

- A. A fully completed, signed, and notarized Contract Claim Form (DOT-248). The written justification citing the basis for the claim will clearly reference relative sections of the plans, specifications, and other contract documents supporting the claim (label Page 1.1 through Page 1.X).
- B. An itemized list of the amount of extra compensation, time, or both providing all necessary dates, locations, and items of work claimed including, but not limited to, an itemized breakdown of actual costs for materials and supplies, labor, equipment, delays, indirect costs, overhead, and profit. Allowable costs submitted for each of the individual claim items will be verified using generally accepted contract cost principles and procedures (label Page 2.1 through Page 2.X).
- C. Records such as startup schedules, construction schedule updates, daily superintendent reports, diaries, photographs, and other documents supporting the claim (label Page 3.1 through Page 3.X).

Time extension request will include a construction schedule evaluation detailing the impacts of the claim on contract time.

Section 8.10 – Page 67 – Remove the indent from the first 3 paragraphs on page 68.

Section 9.1 H.9 – Page 75 – Delete and replace with the following:

9. Automated Scale Tickets

- a. **General:** The Contractor will supply all scales with computerized (automated) ticketing capability for all materials weighed for measurement and payment, unless otherwise specified in the plans. The Contractor will be responsible for the operation of the weighing system.

The ticket will contain the necessary information required by this section, unless otherwise approved by the Engineer. The Contractor will assure the tickets are clear, legible, and accessible during the duration of the project. The Contractor will also provide a daily summary of the material hauled to the project, unless otherwise allowed by the Engineer.

The Contractor will supply a printed ticket or an e-ticket meeting the following requirements specified. If a contract item for e-ticketing is included in the contract, the Contractor will supply e-tickets meeting the e-tickets requirements for all materials with e-ticketing specified in the contract.

b. Printed Tickets: The printed ticket will contain the following information:

- 1) Ticket Number;
- 2) Project Number or PCN;
- 3) Date and Time Material is Weighed;
- 4) Material Identification (Bid Item Number or Bid Item Description);
- 5) Material Source;
- 6) Truck (and Pup) Identification Number(s) (or license number);
- 7) Maximum Allowable Gross Weight;
- 8) Gross Weight;
- 9) Fully Fueled Tare Weight (including date and time of current tare);
- 10) Net Weight;
- 11) Net Weight Allowed (loader scale only); and,
- 12) Net Weight Loaded (loader and belt scales only).

c. E-tickets: The Contractor will use a wireless fleet management system or Global Navigation Satellite System (GNSS) management system and ticket capture software for capturing computer generated weight tickets into a digital format (e-ticketing) and tracking trucks during transit for recording of truck exchanges (truck loaded at the source and truck delivery of material at the point of placement on the project).

The Contractor will provide wireless fleet management or GNSS devices capable of tracking all trucks used to deliver materials, providing real time monitoring using mobile devices, and providing e-tickets.

The Contractor will use an e-ticketing system meeting the following minimum components:

- 1) Software to digitally capture the computer-generated weight ticket for the creation of the e-ticket containing the information required in Section 9.1 H.9.b and the information required in Section 9.1 H.9.c.4). The software must prevent the data on the computer-generated weight ticket to be altered at any time. The software will be compatible with iOS and android devices in a windows environment.
- 2) Hardware to establish a static geofence around the material source and mobile geofence around the point of placement to capture truck exchange locations.
- 3) Cloud storage and cloud computing to allow for viewing and exporting of e-tickets.
- 4) Ability to have fillable fields on the e-ticket to:
 - a) Accept load or reject load;
 - b) Input comments for wasted tons;
 - c) Input temperatures of asphalt concrete at the plant and at the point of delivery on the road;

- d) Input notes where materials were placed including, but not limited to, lanes, shoulders, approaches, intersecting roads, radii, and locations of split loads; and,
 - e) Input notes where samples were taken (truck # and location).
- 5) Continuous access for the Engineer to real time viewing, per day, of the following:
- a) Truck identification and associated e-ticket;
 - b) Total number of e-tickets;
 - c) Tons scaled; and,
 - d) Tons placed.
- 6) Continues to collect and store data when there is limited cellular data connectivity.

The Contractor will provide the Engineer with access to cloud storage and cloud computing prior to the start of work where e-tickets will be used until 90 days after final acceptance of the project in accordance with Section 9.9.

The Contractor will provide the Engineer with training or a user's manual detailing the procedure for real time viewing of the information listed in Section 9.1 H.9.c.5) and for exporting e-tickets.

The Contractor will provide e-tickets containing the same information included on the computer-generated weigh ticket, all information required in Section 9.1 H.9.b., and the fillable fields listed in Section 9.1 H.9.c.4).

The Contractor will ensure e-tickets are exportable in a *.pdf and *.csv format.

Each truck driver will be issued an e-ticket (paperless ticket). The Engineer will collect the e-ticket on the jobsite electronically and use the e-ticket to document the details of delivery.

The Contractor will ensure e-tickets are available from cloud storage and cloud computing at the time of material delivery. If adequate cellular data connectivity is not available or e-ticket software fails, the Contractor will provide the Engineer a printed ticket in accordance with Section 9.1 H.9.b.

When a contract item for e-ticketing is included in the contract, payment will include all costs related to setting up and using a fleet management system or GNSS management system; providing the Engineer access to the fleet management system or GNSS management system; providing e-tickets; performing all related duties; and furnishing all materials, equipment, labor, and incidentals to complete the work.

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