

NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION
REQUEST FOR PROPOSAL

URBAN FEDERAL AID PROJECT NO. SU-5-983(059)059 (PCN-21723)

0.629 Miles

GRADING, AGGREGATE BASE COURSE, HOT MIX ASPHALT, PCC PAVEMENT, CURB & GUTTER, SIDEWALKS,
DRIVEWAY, VALLEY GUTTER, SIGNING, MARKING, LIGHTING AND WATER MAIN

DICKINSON 8TH ST S FROM 2ND AVE SW TO 6TH AVE SE

STARK COUNTY

DBE Race Neutral Goal - 0%

BID OPENING: The bidder's proposal will be accepted via the Bid Express on-line bidding exchange at www.bidx.com until **09:30AM Central Time on November 17, 2017.**

Prior to submitting a Proposal, the Bidder shall complete all applicable sections and properly execute the Proposal Form in accordance with the specifications.

Proposal Form of:

(Firm Name)

(Address, City, State, Zipcode)

(For official use only)

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Project: SU-5-983(059)059 (PCN-21723)

The company, firm, corporation, or individual hereby acknowledges that it has designated a responsible person or persons as having the authority to obligate the company, firm, or individual, through electronic or paper submittal, to the terms and conditions described herein and in the contract documents. The designated responsible person submitting this proposal shall be hereafter known as the bidder. By submitting this proposal, the bidder fully accepts and agrees to all the provisions of the proposal. The bidder also certifies that the information given in this proposal is true and the certifications made in this proposal are correct.

The bidder acknowledges that they have thoroughly examined the plans, proposal form, specifications, supplemental specifications, special provisions and agrees that they constitute essential parts of this proposal.

The bidder acknowledges that all line items which contain a quantity shall have a unit price bid. Any line item which is bid lump sum shall contain a lump sum bid price.

The bidder acknowledges that they understand that the quantities of work required by the plans and specifications are approximate only and are subject to increases and decreases; the bidder understands that all quantities of work actually required must be performed and that payment therefore shall be at the prices stipulated herein; that the bidder proposes to timely furnish the specified materials in the quantities required and to furnish the machinery, equipment, labor and expertise necessary to competently complete the proposed work in the time specified.

NON-COLLUSION AND DEBARMENT CERTIFICATION

The bidder certifies that neither he/she, nor any official, agent or employee of the bidder has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this bid.

By submitting this proposal, the bidder certifies to the best of his/her knowledge and belief that he/she and his/her principles:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal Department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or perform a public (Federal, State or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property

Project: SU-5-983(059)059 (PCN-21723)

-
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph b. of the certification; and
 - d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or Local) terminated for cause or default

Where the prospective bidder is unable to certify to any of the statements in this certification, the bidder shall submit an explanation in the blanks provided herein. The explanation will not necessarily result in denial of participation in a contract:

Explanation: _____

If the prequalified bidder's status changes, he/she shall immediately submit a new fully executed non-collusion affidavit and debarment certification with an explanation of the change to the Contract Office prior to submitting the bid.

Failure to furnish a certification or an explanation will be grounds for rejection of a bid.

BID LIMITATION (Optional)

The bidder who desires to bid on more than one project on which bids are to be opened on the same date, and who also desires to avoid receiving an award of more projects than the bidder is equipped to handle, may bid on multiple projects and limit the total amount of work awarded to the bidder on selected projects by completing the "Bid Limitation".

The Bid Limitation must be filled in on each proposal form for which the Bidder desires protection. Each such proposal must be covered by a proposal guaranty.

The bid limitation can be made by declaring the total dollar value of work OR total number of projects a bidder is willing to perform.

The Bidder desires to disqualify all of his/her bids on this bid opening that exceed a total dollar value of
\$ _____

OR

that exceed a total number of _____ projects.

The Bidder hereby authorizes the Department to determine which bids shall be disqualified.

Project: SU-5-983(059)059 (PCN-21723)

PERMISSIBLE DISCOUNT (optional)

Only when invited to do so in the Request for Proposal by Special Provision, Bidders are permitted to offer a discount on a specific project (discount project) if they are awarded the contract on one or more additional projects bid at the same bid opening time and date. The bidder must present the proposal so that it can be considered with or without the discount. The bid or discount offered on the "discount project" will not affect the determination of the low bid of any other project.

When discounts are offered, they must be presented as a reduction in the unit price for one or more items of work in the specified proposal (discount project).

Space for Offering Discounts:

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

TOTAL DISCOUNT _____

It is understood that the discount will only apply if awarded under the conditions as listed above and signed by the bidder.

Project: SU-5-983(059)059 (PCN-21723)

RECEIPT OF ADDENDA ACKNOWLEDGEMENT

We hereby acknowledge receipt of the following addenda:

Addendum # _____ Dated _____

Addendum # _____ Dated _____

Addendum # _____ Dated _____

Addendum # _____ Dated _____

Addendum # _____ Dated _____

Addendum # _____ Dated _____

PROPOSAL GUARANTY

A proposal guaranty is required. The proposal guaranty must comply with Section 102.09, "Proposal Guarantee" of the Standard Specifications.

TYPE OF PROPOSAL GUARANTY APPLIED TO THIS PROJECT (Check one):

_____ Annual Bid Bond*

_____ Single Project Bid Bond

_____ Certified or Cashier's Check

*Annual Bid Bond is required when submitting proposals electronically

BID ITEMS

Project: SU-5-983(059)059 (PCN-21723)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

| Item No. | Spec No. | Code No. | Description | Unit | Approx. Quantity | Unit Price | | Amount | |
|----------|----------|----------|-------------------------------------|-------|------------------|------------|-----|------------|----|
| | | | | | | \$\$\$\$\$ | 000 | \$\$\$\$\$ | 00 |
| 001 | 103 | 0100 | CONTRACT BOND | L SUM | 1. | | | | |
| 002 | 201 | 0352 | REMOVAL OF TREES & BRUSH | L SUM | 1. | | | | |
| 003 | 201 | 0370 | REMOVAL OF TREES 10IN | EA | 2. | | | | |
| 004 | 202 | 0136 | REMOVAL OF PAVEMENT | TON | 5,266. | | | | |
| 005 | 202 | 0174 | REMOVAL OF PIPE ALL TYPES AND SIZES | LF | 2,003. | | | | |
| 006 | 203 | 0101 | COMMON EXCAVATION-TYPE A | CY | 26. | | | | |
| 007 | 203 | 0113 | COMMON EXCAVATION-WASTE | CY | 4,428. | | | | |
| 008 | 216 | 0100 | WATER | M GAL | 145. | | | | |
| 009 | 230 | 0165 | SUBGRADE PREPARATION-TYPE A-12IN | STA | 26.300 | | | | |
| 010 | 251 | 0100 | SEEDING CLASS I | ACRE | .300 | | | | |
| 011 | 253 | 0201 | HYDRAULIC MULCH | ACRE | .300 | | | | |
| 012 | 261 | 0106 | FIBER ROLLS 6IN | LF | 1,332. | | | | |
| 013 | 261 | 0107 | REMOVE FIBER ROLLS 6IN | LF | 1,332. | | | | |
| 014 | 261 | 0200 | WEIGHTED FIBER ROLLS | LF | 144. | | | | |
| 015 | 261 | 0201 | REMOVE WEIGHTED FIBER ROLLS | LF | 144. | | | | |
| 016 | 302 | 0120 | AGGREGATE BASE COURSE CL 5 | TON | 6,456. | | | | |

BID ITEMS

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| Item No. | Spec No. | Code No. | Description | Unit | Approx. Quantity | Unit Price | | Amount | |
|----------|----------|----------|---|-------|------------------|------------|-----|----------|----|
| | | | | | | \$\$\$\$ | 000 | \$\$\$\$ | 00 |
| 017 | 302 | 0407 | RESHAPE AGGREGATE BASE COURSE | STA | 7.200 | | | | |
| 018 | 401 | 0050 | TACK COAT | GAL | 714. | | | | |
| 019 | 401 | 0060 | PRIME COAT | GAL | 5,000. | | | | |
| 020 | 430 | 0040 | SUPERPAVE FAA 40 | TON | 3,174. | | | | |
| 021 | 430 | 1000 | CORED SAMPLE | EA | 17. | | | | |
| 022 | 430 | 5828 | PG 58-28 ASPHALT CEMENT | TON | 190. | | | | |
| 023 | 550 | 0300 | 8IN NON-REINF CONCRETE PVMT CL AE-DOWELED | SY | 3,884. | | | | |
| 024 | 702 | 0100 | MOBILIZATION | L SUM | 1. | | | | |
| 025 | 704 | 0100 | FLAGGING | MHR | 800. | | | | |
| 026 | 704 | 1000 | TRAFFIC CONTROL SIGNS | UNIT | 3,181. | | | | |
| 027 | 704 | 1052 | TYPE III BARRICADE | EA | 69. | | | | |
| 028 | 704 | 1054 | SIDEWALK BARRICADE | EA | 28. | | | | |
| 029 | 704 | 1060 | DELINEATOR DRUMS | EA | 161. | | | | |
| 030 | 704 | 1067 | TUBULAR MARKERS | EA | 166. | | | | |
| 031 | 704 | 1080 | STACKABLE VERTICAL PANELS | EA | 158. | | | | |
| 032 | 704 | 1500 | OBLITERATION OF PAVEMENT MARKING | SF | 595. | | | | |

BID ITEMS

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| Item No. | Spec No. | Code No. | Description | Unit | Approx. Quantity | Unit Price | | Amount | |
|----------|----------|----------|---------------------------------|------|------------------|------------|-----|------------|----|
| | | | | | | \$\$\$\$\$ | 000 | \$\$\$\$\$ | 00 |
| 033 | 706 | 0550 | BITUMINOUS LABORATORY | EA | 1. | | | | |
| 034 | 706 | 0600 | CONTRACTOR'S LABORATORY | EA | 1. | | | | |
| 035 | 708 | 1540 | INLET PROTECTION-SPECIAL | EA | 7. | | | | |
| 036 | 708 | 1541 | REMOVE INLET PROTECTION-SPECIAL | EA | 7. | | | | |
| 037 | 722 | 6140 | ADJUST GATE VALVE BOX | EA | 27. | | | | |
| 038 | 722 | 6200 | ADJUST MANHOLE | EA | 8. | | | | |
| 039 | 724 | 0210 | FITTINGS-DUCTILE IRON | LBS | 1,440. | | | | |
| 040 | 724 | 0270 | REMOVE GATE VALVE & BOX | EA | 14. | | | | |
| 041 | 724 | 0300 | GATE VALVE & BOX 6IN | EA | 8. | | | | |
| 042 | 724 | 0310 | GATE VALVE & BOX 8IN | EA | 15. | | | | |
| 043 | 724 | 0411 | 6IN HYDRANT | EA | 5. | | | | |
| 044 | 724 | 0430 | REMOVE HYDRANT | EA | 5. | | | | |
| 045 | 724 | 0805 | PLUG 6IN WATERMAIN | EA | 2. | | | | |
| 046 | 724 | 0810 | WATERMAIN 6IN PVC | LF | 110. | | | | |
| 047 | 724 | 0830 | WATERMAIN 8IN PVC | LF | 1,899. | | | | |
| 048 | 724 | 0955 | WATER SERVICE CONNECTION 1IN | EA | 3. | | | | |

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| Item No. | Spec No. | Code No. | Description | Unit | Approx. Quantity | Unit Price | | Amount | |
|----------|----------|----------|--|------|------------------|------------|-----|------------|----|
| | | | | | | \$\$\$\$\$ | 000 | \$\$\$\$\$ | 00 |
| 049 | 724 | 0975 | WATER LINE CONNECTION 6IN | EA | 3. | | | | |
| 050 | 724 | 0976 | WATER LINE CONNECTION 6IN TO 8IN | EA | 7. | | | | |
| 051 | 724 | 0980 | WATER LINE CONNECTION 8IN | EA | 3. | | | | |
| 052 | 724 | 1208 | BORE & PUSH 8IN WATERMAIN | LF | 100. | | | | |
| 053 | 748 | 0100 | CURB & GUTTER | LF | 1,171. | | | | |
| 054 | 748 | 1030 | VALLEY GUTTER 72IN | SY | 30. | | | | |
| 055 | 750 | 0100 | SIDEWALK CONCRETE | SY | 951. | | | | |
| 056 | 750 | 1000 | DRIVEWAY CONCRETE | SY | 16. | | | | |
| 057 | 750 | 2115 | DETECTABLE WARNING PANELS | SF | 216. | | | | |
| 058 | 754 | 0110 | FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING | SF | 262.100 | | | | |
| 059 | 754 | 0206 | STEEL GALV POSTS-TELESCOPING PERFORATED TUBE | LF | 582.600 | | | | |
| 060 | 754 | 0592 | RESET SIGN PANEL | EA | 2. | | | | |
| 061 | 754 | 8010 | DYNAMIC SPEED DISPLAY SIGN | EA | 2. | | | | |
| 062 | 762 | 0122 | PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED) | SF | 208. | | | | |
| 063 | 762 | 0430 | SHORT TERM 4IN LINE-TYPE NR | LF | 380. | | | | |
| 064 | 762 | 0434 | SHORT TERM 8IN LINE-TYPE NR | LF | 363. | | | | |

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| Item No. | Spec No. | Code No. | Description | Unit | Approx. Quantity | Unit Price | | Amount | |
|----------|----------|----------|---|------|------------------|------------|-----|------------|----|
| | | | | | | \$\$\$\$\$ | 000 | \$\$\$\$\$ | 00 |
| 065 | 762 | 0436 | SHORT TERM 24IN LINE-TYPE NR | LF | 13. | | | | |
| 066 | 762 | 0442 | SHORT TERM MESSAGE-TYPE NR | SF | 48. | | | | |
| 067 | 762 | 1305 | PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED | LF | 12,045. | | | | |
| 068 | 762 | 1307 | PREFORMED PATTERNED PVMT MK 6IN LINE-GROOVED | LF | 954. | | | | |
| 069 | 762 | 1309 | PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED | LF | 885. | | | | |
| 070 | 762 | 1315 | PREFORMED PATTERNED PVMT MK 12IN LINE-GROOVED | LF | 85. | | | | |
| 071 | 762 | 1325 | PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED | LF | 627. | | | | |
| 072 | 770 | 0020 | CONCRETE FOUNDATION-HIGHWAY LIGHTING | EA | 20. | | | | |
| 073 | 770 | 0100 | PULL BOX | EA | 2. | | | | |
| 074 | 770 | 0330 | 2IN DIAMETER RIGID CONDUIT | LF | 3,215. | | | | |
| 075 | 770 | 0504 | UNDERGROUND CONDUCTOR NO4-TYPE RHW | LF | 6,766. | | | | |
| 076 | 770 | 0505 | UNDERGROUND CONDUCTOR NO6-TYPE RHW | LF | 3,383. | | | | |
| 077 | 770 | 0735 | FEED POINT-TYPE II-PAD MOUNTED | EA | 1. | | | | |
| 078 | 770 | 1718 | LT STD 8FT MA 32FT POLE BREAKAWAY | EA | 20. | | | | |
| 079 | 770 | 4210 | LED LUMINAIRE | EA | 20. | | | | |
| 080 | 770 | 4560 | REMOVE LIGHT STANDARD | EA | 2. | | | | |

BID ITEMS

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Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

| Item No. | Spec No. | Code No. | Description | Unit | Approx. Quantity | Unit Price | | Amount | |
|----------|----------|----------|----------------------------|-------|------------------|------------|-----|------------|----|
| | | | | | | \$\$\$\$\$ | 000 | \$\$\$\$\$ | 00 |
| 081 | 770 | 4582 | REMOVE CONCRETE FOUNDATION | EA | 2. | | | | |
| 082 | 970 | 0070 | STONE MULCH | SF | 332. | | | | |
| 083 | 990 | 0230 | TEMPORARY ACCESS | L SUM | 1. | | | | |
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| | | | TOTAL SUM BID | | | | | | |

Project: SU-5-983(059)059 (PCN-21723)

Type of Work: GRADING, AGGREGATE BASE COURSE, HOT MIX ASPHALT, PCC PAVEMENT, CURB & GUTTER, SIDEWALKS, DRIVEWAY, VALLEY GUTTER, SIGNING, MARKING, LIGHTING AND WATER MAIN

County: STARK

Length: 0.6290 Miles

TIME FOR COMPLETION:

The undersigned Bidder agrees, if awarded the contract, to prosecute the work with sufficient forces and equipment to complete the contract work within the allowable time specified as follows:

WORKING DAY CONTRACT: NA working days are provided. The Department will begin charging working days beginning NA or the date work begins on the project site, whichever is earlier.

CALENDAR DAY CONTRACT: NA calendar days are provided. The completion date will be determined by adding NA calendar days to NA or the date work begins on the project site, whichever is earlier.

COMPLETION DATE CONTRACT The project completion date is 10/27/2018. The Department provides a minimum of NA working days. The Department will begin charging working days beginning NA or the date work begins on the project site, whichever is earlier.

Project: SU-5-983(059)059 (PCN-21723)

Type of Work: GRADING, AGGREGATE BASE COURSE, HOT MIX ASPHALT, PCC PAVEMENT, CURB & GUTTER, SIDEWALKS, DRIVEWAY, VALLEY GUTTER, SIGNING, MARKING, LIGHTING AND WATER MAIN

County: STARK

Length: 0.6290 Miles

CONTRACT EXECUTION:

The undersigned Bidder agrees, if awarded the contract, to execute the contract form and furnish a contract bond within fifteen calendar days, as determined by NDCC Section 1-02-15, after date of notice of award, in accordance with the provisions of Sections 103.05 and 103.06 of the Standard Specifications.

AFFIDAVIT:

STATE OF _____)
) **ss.**
COUNTY OF _____)

The undersigned bidder, being duly sworn, does depose and say that they are an authorized representative of _____

of _____, a
CONTRACTOR NAME
MAILING ADDRESS

- Individual Partnership Joint Venture Corporation

and that they have read, understand, acknowledge, and accept the entire proposal form; and that all statements made by said bidder are true and correct.

_____, TITLE _____
BIDDER MUST SIGN ON THIS LINE

TYPE OR PRINT SIGNATURE ON THIS LINE Subscribed and sworn to before me this day.

COUNTY

(Seal)

STATE DATE

NOTARY PUBLIC

My commission expires _____

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Job #32, Project No. SU-5-983(059)059

Grading, Aggregate Base Course, Hot Mix Asphalt, PCC Pavement, Curb & Gutter,
Sidewalks, Driveway, Valley Gutter, Signing, Marking, Lighting, & Watermain

INDEX OF PROVISIONS

Road Restriction Permits

Hot Line Notice

NDDOT Supplemental Specifications dated October 1, 2017

Price Schedule for Miscellaneous Items dated October 1, 2014 (PS-1)

SP DBE Program - Race Neutral dated January 1, 2017

E.E.O. Affirmative Action Requirements dated March 15, 2014

Appendix A of the Title VI Assurances dated February 4, 2015

Appendix E of the Title VI Assurances dated February 4, 2015

SP Cargo Preference Act

Required Contract Provisions Federal Aid Construction Contracts
(Form FHWA 1273 Rev. May 1, 2012)

SP Certified Payrolls, dated 9-6-17

SP DBE Project Payment Reporting, dated 10-3-17

Labor Rates from U.S. Department of Labor dated January 6, 2017 (Mod. No. 4)

On-The-Job Training Program dated October 1, 2016

SP 3(14) Temporary Erosion & Sediment Control Measures

SP 40(14) Local Agency Contracts

SP 281(14) Buy America

SP 282(14) Certificate of Compliance

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SP 449(14) Work Drawings Submittals

SP 453(14) Haul Roads

SP 462(14) Limitations of Operations

SP 525(14) Street Lighting

SP 556(14) Internal Manhole Chimney Seals

SP Fuel Cost Adjustment Clause dated September 8, 2006

Contract

Contract Bond

NOTICE

TO: All prospective bidders on all North Dakota Department of Transportation Highway Construction Projects.

Contractors moving construction equipment to NDDOT highway construction projects are subject to the Road Restriction Policy with the following modifications:

- A. The contractor may purchase up to 10 single trip permits for each NDDOT highway construction project at a cost ranging from \$20 to \$70 each. These permits must be purchased from the Motor Carrier Division of the Highway Patrol at the central office of the NDDOT in Bismarck, North Dakota.
- B. The \$1 per mile fee will not be charged for Gross Vehicle Weights (GVW) exceeding 105,500 pounds, 105,500 pounds, and 105,000 pounds for highways Restricted by Legal Weights, 8 Ton, and 7 Ton highways respectively.
- C. The \$5 per ton per mile fee will be charged only for loads exceeding a GVW of 130,000 pounds, 120,000 pounds, 110,000 pounds and 80,000 pounds for highways Restricted by Legal Weights, 8 Ton, 7 Ton, and 6 Ton highways respectively.
- D. The maximum weights per axle for each of the class restrictions still apply. If it is shown that more axles cannot be added, movement may be authorized; however, a \$1 per ton per mile fee will be charged for all weight in excess of the restricted axle limits.
- E. These construction equipment single trip permits apply to State and US Highways only.
- F. The District Engineers and Highway Patrol will select the route of travel.
- G. Contractors moving equipment to other than NDDOT highway construction projects are subject to all fees as shown in the Road Restriction Permit Policy.
- H. Contractors must call the Highway Patrol prior to movement of all overweight loads on all State and US Highways.

ROAD RESTRICTION PERMITS

Permits shall be issued for the movement of non-divisible vehicles and loads on state highways which exceed the weight limits during spring road restrictions. The issuance of permits may be stopped or posted weights changed at any time based on the varying conditions of the roadways. Permits can be obtained from the Highway Patrol.

| RESTRUCTION CLASSIFICATIONS WITH ALLOWABLE AXLE WEIGHTS AND GROSS VEHICLE WEIGHTS | PERMIT AND TON/MILE FEES |
|---|---|
| <p>Highways Restricted by Legal Weight</p> <p>Single Axle -- 20,000 lbs. Tandem Axle -- 34,000 lbs. Triple Axle -- 48,000 lbs. 4 Axles or more -- 15,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 105,500 lbs.</p> <p>Note: The above weights apply to state highways restricted by legal weights, other than interstate highways, in areas where road restrictions are in force. When the gross weight of an axle grouping exceeds 48,000 pounds, the \$1 per ton per mile shall apply to all weight in excess of 15,000 pounds per axle.</p> | <p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>105,501 lbs. to 130,000 lbs. GVW -- \$1 per mile</p> <p>Over 130,000 lbs. GVW -- \$1 per mile plus \$5 per ton per mile for that weight exceeding 130,000 lbs. GVW</p> <p>Exceeding axle limits -- \$1 per ton per mile</p> |
| <p>8-Ton:</p> <p>Single Axle -- 16,000 lbs. Tandem Axle -- 32,000 lbs. 3 Axles or more -- 14,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 105,500 lbs.</p> | <p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>105,501 lbs. to 120,000 lbs. GVW -- \$1 per mile</p> <p>Over 120,000 lbs. GVW -- \$1 per mile plus \$5 per ton per mile for that weight exceeding 120,000 lbs. GVW</p> <p>Exceeding restricted axle limits -- \$1 per ton per mile</p> |
| <p>7-Ton:</p> <p>Single Axle -- 14,000 lbs. Tandem Axle -- 28,000 lbs. 3 Axles or more -- 12,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 105,500 lbs.</p> | <p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>105,500 lbs. to 110,000 lbs. GVW -- \$1 per mile</p> <p>Over 110,000 lbs. GVW -- \$1 per mile plus \$5 per ton per mile for that weight exceeding 110,000 lbs. GVW</p> <p>Exceeding restricted axle limits -- \$1 per ton per mile</p> |
| <p>6-Ton:</p> <p>Single Axle -- 12,000 lbs. Tandem Axle -- 24,000 lbs. 3 Axles or more -- 10,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 80,000 lbs.</p> | <p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>\$5 per ton per mile for all weight exceeding 80,000 lbs. GVW</p> <p>Exceeding restricted axle limits -- \$1 per ton per mile</p> |
| <p>5-Ton:</p> <p>Single Axle -- 10,000 lbs. Tandem Axle -- 20,000 lbs. 3 Axles or more -- 10,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 80,000 lbs.</p> | <p>No overweight movement allowed</p> |

SINGLE UNIT FIXED LOAD VEHICLES SUCH AS TRUCK CRANES AND WORKOVER RIGS

- A. Permit Fee and Ton Mile Fee for Self-Propelled Fixed Load Vehicles .
1. Permit Fee: \$25 per trip
 2. \$1 per ton per mile for all weight in excess of restricted axle limits or in excess of legal limits on state highways in areas where road restrictions are in force. When the gross weight of an axle grouping exceeds 48,000 pounds, the \$1 per ton per mile shall apply to all weight in excess of 15,000 pounds per axle (see weight classification chart in section C.)
 3. **\$5 per ton per mile** for all movements exceeding the following gross vehicle weight limits:
 - a. 105,500 lbs. GVW on unrestricted state highways, other than interstate highways, in areas where road restrictions are in force.
 - b. 105,500 lbs. GVW on 8-ton highways.
 - c. 105,500 lbs. GVW on 7-ton highways.
 - d. 80,000 lbs. GVW on 6-ton highways.
 - e. No overweight movement allowed on 5-ton highways
- B. Permit Fees for Work-Over Rigs and Special Mobile Equipment Exceeding 650 but not 670 Pounds Per Inch Width of Tire.
1. Permit Fee:
 - a. \$50 per trip on work-over rigs up to 650 pounds per inch width.
 - b. \$75 per trip on work -over rigs that exceed 650 but not 670 pounds per inch width of tire.
 2. The work-over rig shall be stripped to the most minimum weights.
 3. A minimal number of state highway miles shall be used.
 4. District engineer approval shall be obtained prior to movement when vehicle exceeds restricted axle weights by more than 5,000 pounds.
 5. A validation number ending in TM must be obtained from the Highway Patrol prior to using a self-issue single trip movement approval form.
 6. The ton mile shall be waived .

NOTICE

U.S. DEPARTMENT OF TRANSPORTATION

"HOT LINE"

As part of its continuing investigation into Highway Construction Contract Bid Rigging and abuses in the Disadvantaged Business Enterprise Program, the Inspector General for the Department of Transportation (DOT) has established a "HOT LINE" to receive information from contractors, suppliers, or anyone with knowledge of such activities.

The toll-free "HOT LINE" telephone number is 1-800-424-9071 and will be manned during normal working hours (8 a.m. to 5 p.m. EST). This operation is under the direction of DOT's Inspector General. All information will be treated confidentially and anonymity will be respected.

CALL

Inspector General's 'HOT LINE'
Toll Free 1-800-424-9071
Washington, DC Area:
202-366-1461
Fax: 202-366-7749

WRITE

Inspector General
Post Office Box 23178
Washington, DC 20026-0178

Email: hotline@oig.dot.gov

The field office address and telephone number for NORTH DAKOTA is:

CHICAGO REGIONAL OFFICE

Special Agent-in-Charge
Commercial: 312-353-0106
111 N. Canal St., Suite 677
Chicago, Illinois 60606

CERTIFICATION

I hereby certify the attached supplemental specifications effective on October 1, 2017.

 /S/

Bob Fode, P.E., Director
Office of Project Development

 6/9/2017

Date



**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
REVISIONS**

Effective Date: 10/01/2017

The following specifications are supplementary to the 2014 Edition of the *Standard Specifications for Road and Bridge Construction* as they apply to this Contract. Page references in this document apply to the hard bound, printed edition of the specifications (the “blue book”) and the “as printed” version of the specifications on the Department’s website.

101.03 ABBREVIATIONS

PAGE 8

10/01/15

Delete the line for “ACPA American Concrete Precast Association” and replace it with the following:

ACPA American Concrete Pipe Association

Add the following item to Section 101.03:

NPCA National Precast Concrete Association
SWPPP Storm Water Pollution Prevention Plan

101.04 DEFINITIONS

PAGE 10

10/01/15

Delete the definition for “Sieve” and replace it with the following:

Sieve. U.S.A. Standard Sieve, as defined in ASTM E 11. The specified percent passing for each sieve is measured by weight.

102.07 B Electronic Proposal

Page 23

10/1/16

Replace 102.07 B with the following:

B. Electronic Proposal.

1. Electronic Bidding Credentials.

A Digital ID is required to electronically sign proposals.

If a Bidder does not have a Digital ID, create a Digital ID and set up bidding privileges by following the instructions on the Bid Express website (www.bidx.com). Begin the Digital ID creation process a minimum of 7 business days before the bid opening.

2. Submitting an Electronic Proposal.

Prepare the proposal using Bid Express as follows:

1. Download the most current “Proposal Files” and “DBE Roster File” from the Bid Express website (www.bidx.com).
2. Use the Bid Component for AASHTOWare Project Bids to prepare and submit the proposal forms. Follow the Bid Component software instructions and review the help

screens provided on the Bid Express website to ensure that the bid item list is prepared properly. Provide a unit price for each bid item.

If the proposal forms contain alternate or optional bid items, provide unit prices for those bid items as follows:

- a. For alternate bid items, provide a unit price for each bid item included in the Bidder's preferred alternate.
- b. For optional bid items, provide a unit price for all bid items under all options.

The user's Digital ID must be on file and enabled by Bid Express. The use of the Digital ID constitutes the Bidder's signature for execution of the proposal. The Department is not responsible for the Bidder's inability to submit a proposal using AASHTOWare.

103.08 A General**PAGE 30****10/1/16**

Replace the second paragraph with the following:

For subcontracts at any tier equal to or greater than \$750,000, obtain from the subcontractor all bid documentation used to prepare the subcontractor's bid for the portion of the work reflected in the subcontract. The subcontractor's bid documentation requirements shall be the same as for the Contractor, except it shall be submitted within 5 days of approval of the Prime Contractor's Request to Sublet. Submit to the Department the bid documentation and affidavit in a separate sealed container, including the subcontractor's name and address on the container.

104.02 C Significant Changes to the Character of Work**PAGE 34****10/01/15**

Delete the following paragraph in its entirety:

If the Contractor believes an alteration in the work is a significant change that necessitates a contract revision, the Contractor shall notify the Engineer in accordance with Section 104.03, "Contractor Requested Contract Revisions".

104.05 A Submission of the Claim**PAGE 37****10/01/15**

Replace the fourth paragraph of Section 104.05 with the following:

Provide a claim submittal to the Engineer that contains, at a minimum, the following information for each claim issue included on the [Notice of Intention to File a Claim \(SFN 16743\)](#). Failure to supply the following information for each claim issue constitutes a waiver of claim for additional compensation for each submitted claim item.

104.07 C. Conditions**PAGE 42****10/01/16**

Replace number 5 with the following:

5. Contains revisions to the contract that the Department has previously accepted on another Department project, or is based on or similar to standard specifications, special provisions, or another set of plans.

Delete Section 105.03 COOPERATION WITH UTILITY OWNERS and replace with the following:

105.03 COOPERATION WITH UTILITY OWNERS

A. General.

Utility facilities shown on the plans, if any, are for reference purposes only and may not constitute an exhaustive representation of all utility facilities within the project. Notify the North Dakota One Call System (811) before starting the work, so they may locate and mark all utility facilities within the project.

Comply with Chapter 49-23 of the NDCC in determining the location of underground utilities.

Locate Department-owned, publicly-owned, and privately-owned utility facilities, whether on or off the One Call System.

If the Contractor's operations have the potential to damage utility facilities identified in the contract to remain in place during the work, including operations adjacent to these utility facilities, the Contractor shall account for and protect the utility facilities. Before starting the work, coordinate the protections with the utility owner.

B. Utilities Identified in Plans.

Notify all utility owners of the anticipated project schedule within two weeks of receiving notice to proceed. Coordinate adjustments and relocations with affected utility owners. The Contractor, the Engineer, and the utility owners shall agree to a schedule of the work and the adjustments and relocations before beginning the work.

Cooperate with utility owners in relocating and adjusting utility facilities to minimize interruption to service and duplication of work by utility owners.

The Department will provide utility conflict plans, if available. Utility conflict plans are not part of the contract and are for information purposes only.

C. Utilities Encountered During Work.

If the Engineer determines that adjustment or relocation of utility facilities is necessary to accommodate construction, the Engineer will arrange and coordinate the work with the owner if the contract does not otherwise provide for such work. This does not relieve the Contractor of any liability that may arise under the provisions of the NDCC.

D. Scheduling.

1. General.

In order to minimize interference with traffic operations, the Contractor, Engineer, and utility owner shall agree to a detailed schedule before starting work.

2. Utility Coordination Meeting.

If the contract requires a utility coordination meeting, arrange the meeting with the utility owners and the Engineer to occur no later than two weeks after the notice to proceed. At the meeting, provide an agenda and a tentative construction schedule for planning utility relocations and adjustments; after the meeting, publish minutes and distribute a copy to all meeting attendees.

E. Fire Hydrants.

Before starting work that affects a fire hydrant, coordinate with the local fire authority to determine if provisions need to be in place before starting the work. If provisions are necessary, obtain the approval of the local fire authority before beginning the work affecting the fire hydrant.

F. Damage and Interruptions.

If the Contractor causes damage to utility facilities, the Contractor is responsible for the costs of restoring or repairing the damaged utility facility to a condition equal to or better than the condition existing before the damage occurred. Immediately notify the utility owner of the damage or, if the owner is unknown, the One Call System. Do not conceal, attempt to conceal, or make repairs to the utility facilities until approved by the utility owner. If this damage causes interruption to utility service, continuously coordinate with the utility owner until the service is fully restored.

The Department will not pay the Contractor for the cost to restore or repair damage utility facilities and will consider any delays resulting from this damage to be non-excusable in accordance with Section 108.06, Determination of and Extensions to the Contract Time.”

**105.08 A.3 Additional Section 600 Work Drawing Submittal Requirements. PAGE 50
10/01/16**

Replace the first paragraph with the following:

Provide work drawings on 11 inch × 17 inch sheets generated by a CADD system.

Use the minimum text sizes shown in Table 105-01.

| Table 105-01 | |
|----------------------|-------------|
| Dimensions and Notes | 0.08 Inches |
| Detail Subtitles | 0.09 Inches |
| Detail Titles | 0.10 Inches |

105.08 B Work Drawings Submittal Requirements PAGE 50 10/1/17

Replace 105.08 B with the following:

B. Work Drawing Submittal Requirements.

Submit work drawings by either of the following methods:

1. Paper Submittal.

Submit a cover letter and two copies of the work drawings to the Engineer.

2. Electronic Submittal.

To submit the work drawings electronically to the Engineer, post a cover letter and one electronic copy of the work drawing to the Department’s managed file transfer (MFT) website. Follow the requirements of NDAC Title 28 for all submittals.

Contact the Engineer to receive instructions describing how to upload files to the MFT website.

Replace the Section 105.08 C with the following:

C. Engineer's Response to Work Drawing.

Allow 21 days for the Engineer to review the work drawing. The Engineer will respond in one of the following ways:

- No Exceptions Noted;
- Returned for Correction;
- Not Required for Review; or
- Not Acceptable.

If the work drawing is returned stating "Returned for Correction" or "Not Acceptable", make necessary revisions and resubmit the work drawing as specified in Section 105.08, "Work Drawings".

After the Department has reviewed the work drawings, the Department will return the reviewed work drawing submittal to the Contractor as follows:

- If a paper submittal, the Engineer will return the reviewed drawings to the Contractor.
- If an electronic submittal, the Department will post reviewed work drawings on the MFT site and will send an email notification to the Contractor that the reviewed work drawings are available on the MFT site. Retrieve the reviewed work drawings from the MFT site within 30 calendar days. The Department will delete files from the MFT site after 30 calendar days.

Include the cost of drafting and submitting work drawings in the contract unit price for the relevant contract items.

106.01 C Certificate of Compliance

Replace 106.01 C, "Certificate of Compliance with the following:

C. Certificate of Compliance (CoC).

SP 282(14) Certificate of Compliance (CoC) has replaced this section.

106.02 D Aggregate Source Limitations

Delete number 8 and replace it with the following:

8. In Stark County, within the 2-mile radius from the center of Section 30-137-92;

Delete number 11 and replace it with the following:

11. In Hettinger County, within the 1-mile radius from the center of Section 28-135-91;

107.06 Discoveries

Replace the first paragraph with the following:

If the Contractor encounters one or more of the items included in the following list anywhere the Contractor performs the work, the Contractor shall immediately suspend the work and notify the Engineer of the encounter:

- Threatened or endangered species;
- Prehistoric dwelling sites;
- Human remains;
- Concentrated historic or prehistoric artifacts; or
- Vertebrate, invertebrate, plant and trace fossils.

If encountering one of the following, protect the location from further disturbance:

- Prehistoric dwelling sites;
- Human remains;
- Concentrated historic or prehistoric artifacts; or
- Vertebrate, invertebrate, plant and trace fossils.

Resume work in the location of the encounter only with written approval from the Engineer.

107.07 Responsibility to the Public **PAGE 70** **10/01/17**

Add the following to the end of Section 107.07

F. Crossing Traffic.

Construction vehicles are not allowed to cross lanes of traffic to enter or exit work zones on the interstate. Construction vehicles are required to merge into public traffic.

107.08 Haul Roads **PAGE 72** **10/01/17**

Replace 107.08 with the following:

107.08 HAUL ROADS

SP 453(14) Haul Roads has replaced this section.

107.13 G Railroad Flagging **PAGE 78** **10/01/17**

Delete the last sentence of the first paragraph.

107.17 REMOVED MATERIAL **PAGE 80** **10/01/15**

Replace Section 107.17 with the following:

107.17 REMOVED MATERIAL

Unless otherwise designated in the contract, removed material becomes the property of the Contractor.

If the Contractor determines that the material will be disposed of, the material must be disposed in one of the following ways:

- A. Dispose of the material through a beneficial use. Apply for a beneficial use permit from the NDDoH by completing an [NDDOT Projects-Inert Waste Beneficial Use Application \(SFN 58981\)](#). Provide the Engineer with copies of all documents submitted to the NDDoH.
- B. Dispose of the material at an approved permanent waste management facility.

- C. If waste cannot be reasonably managed at a permanent waste management facility, obtain approval from the NDDoH for a variance to dispose of the inert waste at another site. Apply for a variance by completing an [NDDOT Projects-Inert Waste Disposal Variance Application \(SFN 54344\)](#). Provide the Engineer with copies of all documents submitted to the NDDoH.

Obtain locations of permanent waste facilities, applications, and guidelines from the NDDoH, Division of Waste Management. View a list of municipal and inert waste landfills and review guidance on the NDDoH website: <http://www.ndhealth.gov>.

Include the cost of material disposal in the contract unit price of the relevant contract item.

108.02 PRECONSTRUCTION CONFERENCE

PAGE 81

10/01/16

Delete Section 108.02 and replace with the following:

108.02 CONSTRUCTION MEETINGS

A. Preconstruction Conference.

Before beginning the work, including pit operations specific to the project, and unless waived by the Engineer, coordinate and hold a preconstruction conference with the Engineer at a mutually agreed time and place. Notify subcontractors, utility companies, and other interested parties of the time and place of the preconstruction conference.

Submit the following to the Engineer before or at the preconstruction conference:

1. A company safety plan and the name of the safety officer;
2. An EEO / affirmative action plan and the name of the EEO officer;
3. A list of key project personnel and their phone numbers;
4. The initial or baseline schedule in accordance with Section 108.03, "Progress Schedule";
5. A list of proposed subcontractors requested in accordance with Section 108.01, "Subletting of Contract";
6. A list of material suppliers;
7. A list of pits to be used (owner and legal description);
8. All COAs in accordance with Section 107.05, "Material Source Approval";
9. The applicable storm water permits and the SWPPP in accordance with Section 107.02.C, "Storm Water Permits";
10. The names of Quality Control Personnel and a Quality Control Plan in accordance with Section 430.04 A, "Contractor Quality Control (QC)."

B. Weekly Planning and Reporting Meeting.

The weekly planning and reporting meeting is required when specified in the plans.

Organize a weekly meeting to coordinate efforts between subcontractors, utilities, local authorities, and others. The Engineer will develop a list of parties to be invited to the meeting and will provide the list to the Contractor at the Preconstruction Meeting. The Engineer may provide an updated list with additional attendees at any time.

Send a knowledgeable representative to conduct the meeting. Prepare minutes for each meeting and make the appropriate distribution of the minutes. Distribute the minutes within 48 hours of the meeting conclusion. Allow the Engineer to review and approve the minutes before distribution.

Include in the meeting agenda a discussion of problems encountered since the last meeting, and information of interest to those invited to the meeting. Provide a written schedule of the next week's work and a tentative schedule for the following week.

108.03 D Measurement and Payment

PAGE 91

10/01/15

Replace Table 108-01 with the following:

**Table 108-01
CPM Schedule Price Reductions**

| Days Late Submitting Update Schedule | Percentage Price Reduction to the Prorated Amount¹ |
|---|--|
| 1 | 20 |
| 2 | 40 |
| 3 | 60 |
| 4 | 80 |
| 5 | 100 |

¹ The "prorated amount" is equivalent to the amount calculated for each update schedule submission in Section 108.03 D, Item 2.

108.05 Limitation of Operations

PAGE 91

10/01/17

Replace 108.05 Limitations of Operations with the following:

108.05 LIMITATION OF OPERATIONS

SP 462(14) "Limitation of Operations" has replaced this section.

108.06 B.1 General

PAGE 93

10/01/15

Replace the 6th paragraph of Section 108.06 B.1 with the following:

The Contractor's plea that the contract time was insufficient is not a valid reason for an extension of time. For calendar day and completion date contracts, the Department will not extend the contract time for delays encountered on holidays and during the period from November 15 to April 15. When the time as extended by the Department falls on a date that is a holiday, the Engineer will extend the contract time to the next business day.

108.06 B.4 Excusable, Non-compensable Delays

PAGE 96

10/01/16

Replace letter "f." with the following:

- f. Delays due to utility or railroad work when the Contractor has complied with the requirements of Section 105.03.D, "Scheduling," but the utility or railroad company failed to perform their work within the time agreed to in the utility coordination meeting.

109.01 J.2 Scale Applications**PAGE 103****10/01/16**

Replace the paragraph with the following:

Use either computerized or non-computerized scales to determine weights for material when the quantity of the material included in the bid item list is 2,000 tons or less.

109.01 J.2.a Computerized Scales**PAGE 103****10/01/16**

Replace the first paragraph with the following:

Use a computerized scale to determine the weight of material when the quantity included on the bid item list is greater than 2,000 tons.

109.01 J.2.b Computerized Loader Bucket Scales**PAGE 103****10/01/15**

Delete the first paragraph and replace with the following:

Loader bucket scales may be used to weigh materials when the quantity of material included in the bid item list is less than 10,000 tons and for aggregates specified under Sections 420 "Bituminous Seal Coat", 421 "Microsurfacing", and 422 "Slurry Seal" regardless of quantity.

109.01 J.4.b(2) Hopper or Batch Scales**PAGE 105****10/01/15**

Replace Section 109.01 J.4.b(2) with the following:

After the material has been weighed on the project scale and placed in a truck, weigh the loaded truck on a certified scale owned and operated by an entity other than the Contractor. Provide the tare weight of the truck along with the comparison weigh ticket.

109.01 J.6.a General**PAGE 106****10/01/15**

Delete the second paragraph and replace with the following:

Document the weight of each load on a separate, sequentially numbered weigh ticket that has a maximum size of 5.5 × 8.5 inches. Provide one copy to the driver of the truck. The truck driver shall deliver the weigh ticket to the Engineer at the location where the material is incorporated into the work. The Engineer will reject loads that are not accompanied by a legible weigh ticket.

155.02 A General**PAGE 140****10/01/17**

Add the following paragraph to Section 155.02 A:

Provide a NRMCA Certified plant for concrete used in Sections 550, "Concrete Pavement", 570 "Concrete Pavement Repair", 602 "Concrete Structures", and 622 "Pilings".

Replace the second paragraph in Section 155.03 A.3 with the following:

Use a water measuring system that:

- Delivers the designated quantity of water for each batch within the tolerance specified in Section 802.03 B.4, "Batching Water";
- Automatically stops the water flow when the designated quantity has been delivered; and
- Is adjustable and has a calibrated indicator showing the quantity of water measured for each batch.

Replace Section 155.07 D with the following:

D. Bridge Deck Overlays Finishing Equipment.

Use a finishing machine that is:

- Equipped with an oscillating screed or screeds with an effective weight of at least 75 pounds for each square foot of bottom face area, and provided with positive control of vertical position, the angle of tilt, and the shape of the crown. At least one oscillating screed shall be capable of consolidating the concrete to the specified density;
- Long enough to uniformly strike off and consolidate the width of lane to be paved
- Capable of forward and reverse motion under positive control;
- Travelling on rails with fully-adjustable and stable supports;
- Supported without the use of shims; and
- Not anchored to the concrete using powder actuated fasteners, unless that concrete will be subsequently overlaid.

Replace the second paragraph with the following:

Remove existing bituminous and concrete surfaces to a joint or create a smooth, vertical plane along the entire length of the remaining surface.

Replace Section 202.04 B with the following:

B. Removal of Structures and Box Culverts.

When the removal is of a bridge, perform asbestos inspection and testing and submit SFN 17987 "Asbestos Notification of Demolition and Renovation" to NDDoH at least 10 working days before conducting any demolition. If asbestos is discovered, the Engineer will issue a contract revision for work related to the asbestos.

Remove existing substructures to one foot below the existing stream bottom, and remove those parts outside the stream to one foot below final ground surface.

If bridge elements are designated for salvage, match mark the elements and transport them to the location specified in the contract.

202.06 BASIS OF PAYMENT

PAGE 162 10/01/16

Delete the “Saw Concrete, Linear Foot” and “Saw Bituminous Surfacing-Full Depth, Linear Foot” from the “Pay Item List”.

203.02 EQUIPMENT

PAGE 163 10/01/15

Replace the equipment list in Section 203.02 with the following:

| Equipment | Section |
|---|----------------|
| Vibratory Sheepsfoot/Pad Foot/Extended Pad Foot Rollers | 151.01 E |

203.04 B Topsoil

PAGE 164 10/01/17

Replace 203.04 B with the following:

B. Topsoil.

1. General.

Remove topsoil to its full depth or a depth up to 6 inches, whichever is less, from all excavation and embankment areas. Do not remove the subsoil or other deleterious material with topsoil. Stockpile the removed topsoil.

Place topsoil piles at acceptable locations outside of the grading limits or, if necessary, outside the right of way at no additional cost to the Department. If stockpiling topsoil outside the right of way, submit a copy of the agreement negotiated with the landowner 10 days before constructing topsoil stockpiles.

When stockpiling topsoil within the clear zone, construct topsoil stockpiles with foreslopes of 4:1 or flatter and approach slopes of 10:1 or flatter.

Scarify the surface to a depth of 2 inches before replacing topsoil.

Uniformly spread the stockpiled topsoil over the disturbed areas within the right of way.

2. Topsoil – Imported.

Provide imported topsoil consisting of friable, fertile soil of loamy character, containing an amount of organic matter normal to the region, capable of sustaining healthy plant life, and reasonably free from subsoil, roots, heavy or stiff clay, stones larger than two inch in greatest dimension, noxious weeds, sticks, brush, litter, and other deleterious matter. Provide the topsoil from a site outside the right of way. Spread the topsoil uniformly to a minimum depth of 6 inches. Use all existing stockpiled topsoil before importing topsoil.

203.04 C Subcut

PAGE 165 10/01/15

Add the following paragraph to the end of Section 203.04 C:

Dispose of material removed from the subcut area as specified in Section 107.17, “Removed Material”.

203.05 B Borrow Excavation

PAGE 169

10/01/16

Replace the third paragraph of Section 203.05 with the following:

If the borrow source is a Department option, the Engineer will measure the topsoil stripped from the borrow area. Provide a minimum of two working days' notice to allow the Engineer to complete the preliminary cross sectioning before removing topsoil. Remove and stockpile topsoil, as specified in Section 203.04 B, "Topsoil", before excavation. Provide notice and allow one working day for the Engineer to complete the topsoil measurement before beginning borrow excavation.

203.05 C Topsoil

PAGE 170

10/01/17

Add the following to 203.05 C:

The agreement will be in writing and signed by the both the Contractor and the Engineer.

203.05 D Topsoil – Wetland

PAGE 170

10/01/16

Replace 203.05 D Topsoil – Wetland with the following:

D. Reserved.
Reserved.

203.06 BASIS OF PAYMENT

**PAGE 171
10/1/17**

10/01/16 &

Delete "Topsoil Borrow Area, Cubic Yard" from the Pay Item List and replace with "Topsoil – Dept Option Borrow Area, Cubic Yard".

Delete "Topsoil – Wetland, Cubic Yard" from the Pay Item List.

203.06 C Department Optioned Borrow

PAGE 171

10/01/16

Add the following to the end of Section 203.06 C:

Include the removal and replacement of topsoil in Department optioned borrow areas in the contract unit price for "Topsoil – Dept Option Borrow Area".

216.06 Basis of Payment

PAGE 175

10/01/15

Replace Section 216.06 with the following:

| Pay Item | Pay Unit |
|-----------------|-----------------|
| Water | M Gal |

An "M Gal" is equivalent to 1,000 gallons.

Such payment is full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

230.05 B Reshaping Inslopes

PAGE 179

10/01/16

Replace Section 230.05 Reshaping Inslopes with the following:

B. Reshaping Foreslopes.

The Engineer will measure each foreslope on each side of the roadway separately.

251.03 D Seed Class

PAGE 182

10/01/15

Add the following footnote to Table 251-01:

¹ Substitute Thickspike or Stream bank Wheatgrass of the Critana, Banstock, Sodar, AC Polar or Elbee variety if Sideoats Grama is unavailable.

253.02 A Hydraulic Mulch

PAGE 188

10/01/16

Replace the first paragraph with the following:

When applying hydraulic mulch and seed together, use hydraulic spraying equipment that mixes the seed and mulch in water.

253.03 B Hydraulic Mulch

PAGE 188

10/01/16

Delete the third paragraph.

253.03 C Straw Mulch

PAGE 188

10/01/15

Delete the following sentence from this section:

At least 50 percent of the mulch by weight must be at least 8 inches in length.

262.04 A Installation

PAGE 201

10/01/15

Replace the first paragraph of Section 262.04 A with the following:

Attach anchor lines to the flotation device.

265.06 Basis of Payment

PAGE 204

10/01/15

Replace the first paragraph after the list of pay items with the following:

Include the cost for pipe, geosynthetic material, topsoil, and seed in the price bid for "Stabilized Construction Access".

302.03 MATERIALS**PAGE 209****10/01/15**

Replace table in Section 302.03 with the following:

| Material | Section |
|---------------------------|---------------------|
| Aggregates | 816 |
| Salvaged Base Course | 817 |
| Traffic Service Aggregate | 816 Class 5; or 817 |

302.04 A.2 Gradation**PAGE 209****10/01/15**

Replace the first paragraph in Section 302.04 A.2 with the following:

The Engineer will collect three samples for each 1,000 tons of material placed, except when more than 1,000 tons are placed in a day. If more than 1,000 tons are placed in a day, the Engineer will collect three samples for that day's placement. If the aggregate fails to meet the specified gradation, the Engineer will apply a price reduction as specified in Section 302.06 B, "Contract Price Adjustments".

302.04 B Placement and Compaction**PAGE 210****10/01/17**

Replace the third paragraph with the following:

Compact aggregate, utilizing pneumatic-tired rollers, until the surface is tightly bound and shows no rutting or displacement occurs under the roller operation. The Engineer may allow other compaction methods, when placing aggregate under sidewalks, driveways, or medians.

302.04 C Surface Tolerance**PAGE 210****10/01/15**

Replace Section 302.04 C with the following:

C. Surface Tolerance.

Unless one of the following surface tolerances is specified, construct the surface to within 0.08 feet of the proposed elevation.

1. Surface Tolerance Type B.

Use trimming equipment, including motor graders, equipped with automatic grade control to adjust for the cross slope and longitudinal profile. Construct the finished surface to within 0.04 feet of the proposed elevation.

Reincorporate material removed from high points during trimming into other portions of the base.

2. Surface Tolerance Type C.

Use roadbed planers to construct the finished surface. The Engineer will allow the base or surface course to be used as the grade reference when trimming shoulders. Construct the finished surface to within 0.04 feet of the proposed elevation.

Reincorporate material removed from high points during trimming into other portions of the base.

Replace the first paragraph in Section 306.04 A.1 with the following:

The Engineer will collect three samples for each 1,000 tons of material placed, except when more than 1,000 tons are placed in a day. If more than 1,000 tons are placed in a day, the Engineer will collect three samples for that day’s placement. If the aggregate fails to meet the specified gradation, the Engineer will apply a price reduction as specified in Section 306.06 B, “Contract Price Adjustments”.

Replace the last paragraph in Section 401.03 with the following:

Obtain samples of the bitumen under the observation of the Engineer. The Engineer will take immediate possession of the samples.

Delete Section 401.03 B and add the following:

B. Tack Coat.

Use a material from Table 401-01.

Table 401-01

| Material | Section |
|-----------------|----------------|
| SS-1h | 818.02 F |
| MS-1 | 818.02 F |
| CSS-1h | 818.02 E.1 |

When MS-1 is used it may be diluted by the supplier or the Contractor.

C. Fog Seal.

Use a material from Table 401-02.

Table 401-02

| Material | Section |
|-----------------|----------------|
| SS-1h | 818.02 F |
| CSS-1h | 818.02 E.1 |

Delete Section 401.04 A and add the following:

A. Application of Bitumen.

1. General.

Prepare the surface by removing loose dirt and deleterious material.

Provide the Engineer with the manufacturer recommended application temperature ranges. During application, maintain the temperature of bitumen within the ranges recommended by the manufacturer.

Apply bitumen with a distributor on a compacted and stable surface. Use hand sprayers to cover irregular areas. Completely cover the area receiving the bitumen application.

If applying bitumen in multiple passes, overlap the bitumen along adjoining edges of the passes.

Protect the surfaces of structures and other roadway appurtenances against tracking and splattering.

2. Prime Coat.

Apply prime coat when the ambient air temperature is at least 40°F.

Allow the prime coat to cure a minimum of 48 hours before placing pavement.

3. Tack Coat.

Apply tack coat when the air temperature and existing mat temperature are at least 35°F.

Apply tack coat to a dry surface.

Allow tack coat to cure before applying surfacing material.

4. Fog Coat.

Apply fog coat when the ambient air temperature is at least 40°F.

Apply fog coat to a dry surface.

411.04 Construction Requirements

PAGE 223

10/01/17

Replace the sixth paragraph with the following:

Coordinate milling and paving operations so that no section of milled roadway has public or construction traffic operating on it for more than 5 days. If public or construction traffic operates on the milled surface for more than 5 days, repair the roadway as directed by the Engineer at no additional cost to the Department.

420.04 A General

PAGE 224

10/01/15

Replace Section 420.04 A with the following:

A. General.

Do not start seal work after September 1.

Allow material to cure as shown in Table 420-01 before applying seal coat materials.

| Table 420-01 Curing Period | |
|---------------------------------------|----------------------|
| Material Type | Curing Period |
| Prime Coat | 4 days |
| Asphalt Cement Pavements | 7 days |
| Emulsion Pavements | 15 days |

Schedule the work so that the last bitumen application of the day is sufficiently cured to allow installation of the short-term pavement marking before sunset.

420.04 D Cover Coat Material Application**PAGE 225****10/01/15**

Replace the third paragraph with the following:

Within one minute following the application of the bitumen, spread the cover coat material uniformly over the bituminous material with an aggregate spreader. Apply cover material by hand to areas that are inaccessible to the aggregate spreader.

420.04 D Cover Coat Material Application**PAGE 225****10/01/15**

Delete the eighth paragraph in its entirety.

420.04 H.1 Bitumen**PAGE 226****10/01/16**

Replace Section 420.04 H.1 with the following:

1. Bitumen.

Obtain samples of this material under the observation of the Engineer. The Engineer will take immediate possession of the samples.

421.03 MATERIALS**PAGE 228****10/01/16**

Add the paragraph following to the end of Section 421.03:

Obtain samples of the bitumen under the observation of the Engineer. The Engineer will take immediate possession of the samples.

422.03 MATERIALS**PAGE 232****10/01/16**

Add the paragraph following to the end of Section 422.03:

Obtain samples of the bitumen under the observation of the Engineer. The Engineer will take immediate possession of the samples.

430.03 F Commercial Grade Hot Mix Asphalt**PAGE 238****10/01/17**

Delete Section 430.03 F "Commercial Grade Hot Mix Asphalt" from Section "430.03 Material".

430.04 D.1 General**PAGE 241****10/01/15**

Replace the third paragraph of Section 430.04 D.1 with the following:

Submit the mix design a minimum of 10 calendar days before beginning paving operations. The Engineer will review the mix design. If the Engineer does not approve the mix design, revise the mix design and submit the revised mix design. Allow 10 calendar days for the Engineer to review a revised mix design before beginning paving operations.

430.04 D.2 Items to be Submitted**PAGE 242****10/01/15**

Add the following item to Section 430.04 D.2:

- e. If the mix contains RAP, submit a 50 pound sample of the milled material.
-

430.04 E.5 Control Limits**PAGE 245****10/01/17**

Replace "Percent Air Voids" values in Table 430-07 with the following:

| Test/Assessment | Single Test Target Value Control Limit | Moving Average Target Value Control Limit |
|------------------------|---|--|
| Percent Air Voids | 2.0% to 6.0% | 2.5% to 5.0% |

430.04 F Surface Preparation**PAGE 246****10/01/15**

Replace the second paragraph of Section 430.04 F with the following:

Correct local irregularities in the existing surface before placing the first lift of bituminous material. If milling is specified, correct local irregularities after milling. Apply a tack coat to the surface before correcting the irregularities. Use the same type of mix that is required for the subsequent lift. Use a pneumatic roller as specified in Section 151.01 A.3. "Self-Propelled Pneumatic-Tired Roller" to compact the mix.

430.04 G Patching**PAGE 247****10/01/15**

Replace Section 430.04 G with the following:

G. Patching.

Remove existing broken or unstable surface material and replace that material with the same mixture specified for the next course.

Place the bituminous material in lifts not to exceed 3 inches and compact the material. Allow the patch material to cool to 130°F before placing additional material. If patching is required during the paving operation, allow the patch material to cool to 185°F before placing additional material.

430.04 H.1 General**PAGE 248****10/01/15**

Delete the ninth paragraph of Section 430.04 H.1

430.04 I.3.c Intermediate Rolling**PAGE 250****10/01/15**

Replace the second paragraph of Section 430.04 I.3.c with the following:

If roller tires pick up the bituminous material or there are excessive roller marks in the mat, the Engineer may allow the removal of the intermediate rolling operation if it appears to the Engineer that compaction is being achieved.

430.04 J Joints**PAGE 250****10/01/15**

Replace Section 430.04 J with the following:

J. Joints.**1. General.**

Place pavement against the surface of curbing, gutters, manholes, and similar structures uniformly near the contact surfaces so the pavement is slightly higher than the edge of the structure after compaction. Do not construct a joint on top of a joint from a previous lift.

2. Longitudinal Joints.

Construct longitudinal joints on successive lifts between 6 and 12 inches from the previous longitudinal joint.

Place and follow markings to guide the paver. Construct joints in a uniform line. Correct pavement edges that deviate from the uniform line and correct areas of the joint that vary from the intended location of the joint by more than 2 inches. Construct joints with tight seams and no visible segregation.

3. Transverse Joints.

Construct transverse joints on successive lifts a minimum of 12 feet from the previous transverse joint.

430.06 A General**PAGE 253****10/01/17**

Delete "Commercial Grade Asphalt, Ton" from the Pay Item List

550.03 Materials**PAGE 261****10/01/15**

Add the following to Section 550.03:

Develop a mix design with a maximum water-cement ratio of 0.40 when placing concrete with a slip form paving machine. Use the water-cement ratio shown in Section 802.01 B.2, "Concrete Class Designation" for all other paving methods.

550.04 D.1 General**PAGE 263****10/01/16**

Replace the fourth paragraph with the following:

Adjacent concrete may be used as a side form after the concrete has attained a minimum compressive strength of 3,000 psi or a minimum flexural strength of 450 psi.

Replace Section 550.04 H.1.d with the following:

d. Final Surface Finish.

(1) General.

Uniformly texture the surface by dragging a seamless strip of stiff-fiber artificial grass carpet longitudinally along the full width of the pavement in a single pass.

Use and maintain a taut string line for operating the carpet drag. Attach the leading edge of the carpet drag to a bridge. If the Engineer determines it is not feasible to use a bridge or string line, other texturing methods will be allowed.

Maintain a clean carpet free of encrusted concrete.

Provide a minimum texture depth of 0.031 inches.

(2) Roadways with Speed Limits Less than 45 MPH.

The Engineer will test the texture achieved by the carpet drag in accordance with ASTM E 965 and the Field Sampling and Testing Manual. The Engineer will determine the test location.

If three or more lots have texture depths less than 0.031 inches but greater than or equal to 0.025 inches, perform diamond grinding on those lots.

Perform diamond grinding any lot having a texture depth of less than 0.025 inches.

Perform grinding as specified in Section 550.04 M.4, "Grinding."

The Engineer will determine the limits of any failing test by running additional tests at 100 foot intervals before and after the failing test. The Engineer will determine the location of the additional tests.

(3) Roadways with Speed Limits 45 MPH or Greater.

Run a clean, metal tine longitudinally along the surface immediately following the carpet drag. Exclude areas within 3 inches of the edge of the slab and longitudinal joints. Run the tine continuously across transverse joints.

Use a tine that provides:

- 1/8 inch \pm 1/64 inch groove width;
- 3/16 inch \pm 1/16 inch groove depth; and
- 3/4 inch spacing of between grooves.

If the concrete has become too stiff to receive the metal tine finish, use diamond bladed equipment to produce the longitudinal grooves.

Replace the first paragraph of Section 550.04 I.3 with the following:

Use a curing compound that meets the requirements of Section 810.01 B.2, "Type 2, Class B".

Replace the title of “Impervious Membrane Cure” with “Concrete Curing Compound”.

550.04 M.3.a General

PAGE 273

10/01/16

Replace the first sentence of the first paragraph with the following:

The Engineer will determine the pavement smoothness by profiling the finished surface of the mainline pavement.

550.04 M.3.b Operation

**PAGE 273
10/1/17**

10/01/16 &

Replace the second paragraph with the following:

The Engineer will apply a liquidated damage of \$1,500 per trip for each profile collected after the second profile.

Replace the third paragraph with the following:

The Engineer will use an inertial profiler to collect the profile in each wheel path of each lane.

550.04 M.3.c(1) General

PAGE 274

10/1/17

Replace the second bullet with the following:

- Use ProVal, <http://www.roadprofile.com>, to calculate the IRI for the Pavement Profile (PPF);

Replace all instances of “ERD” with “PPF”.

550.04 M.3.c(1)(b) Corrective Action Plan

PAGE 275

10/1/17

Replace all instances of “ERD with “PPF”.

550.04 N.1 Contractor Coring

PAGE 276

10/01/17

Add the following to the end of the first paragraph of 550.04 N.1:

Fill the core hole with fresh concrete mix and use a vibrator to consolidate the concrete in the holes. Screed the new concrete off and apply curing compound to the new concrete.

570.03 A General

PAGE 281

10/01/15

Add the following item to the table:

Impervious Membrane Cure

810.01 B.1

570.03 B.2.a Concrete**PAGE 281****10/01/15**

Replace Section 570.03 B.2.a with the following:

a. Concrete.

Use Class AE concrete with cement that meets the requirements of AASHTO M 85, Type I or Type IA for spall repairs.

570.03 D Curing Compound**PAGE 281****10/01/15**

Delete Section 570.03 D.

570.04 A.1.b Full Depth Repairs**PAGE 282****10/01/15**

Replace Section 570.04 A.1.b with the following:

b. Full Depth Repairs.

Use the lift out method to remove concrete in full depth repair areas with minimal disruption to the subgrade and without damage to the remaining concrete. Do not operate equipment, other than compaction equipment, in areas where concrete has been removed. Fill voids deeper than 1 inch with aggregate and compact the material to the level of the existing subgrade.

Place concrete for repairs less than 100 feet long the same day that removals are initiated. Place concrete for repairs longer than 100 feet within 48 hours of initiating removals. Dampen the faces of existing concrete before placing new concrete.

Place, consolidate, finish, and cure concrete according to the following portions of Section 550.04, "Construction Requirements":

- 550.04 C, "Roadbed Condition";
- 550.04 D, "Placing and Spreading Concrete";
- 550.04 E, "Placing Reinforcing Steel and Tie Bars";
- 550.04 F, "Uncontrolled Cracking";
- 550.04 G, "Joints";
- 550.04 H, "Finishing Concrete", except parts 1.d, "Final Surface Finish" and 1.e, "Imprinting Pavement";
- 550.04 J, "Removing Forms";
- 550.04 K, "Sealing Joints"; and
- 550.04 L, "Opening to Traffic".

Provide finished concrete that is flush with all adjacent pavement surfaces. Before the concrete sets, check the repair utilizing a 10 foot straight edge and correct areas that deviate by 1/8 inch or greater.

Texture the repair by dragging a carpet of artificial grass longitudinally over the repaired area.

If repairs involve multiple lanes, fill the gap between the lane under repair and the existing concrete with cold bituminous material. Remove this material before making the repair to the adjacent lane.

(1) Repairs One Lane Wide.

Use a bond breaker along the centerline joint. Tie bars are not required on repairs that are one lane wide.

When the repair falls in a ramp, restore the longitudinal joints crossing the repair, but do not use tie bars.

(2) Repairs Wider Than One Lane.

Before placing the concrete in the second lane, install 30 inch #5 tie bars in the longitudinal joint using the original tie bar pattern. Drill holes for the bars and secure the bars in the holes using epoxy.

(3) Impervious Membrane Cure.

Use a curing compound that meets the requirements of Section 810.01 B.1, "Type 2".

Apply the cure at a minimum rate of 1 gallon per 150 square feet of pavement in one or two applications. If applying two coats, apply the second application within 30 minutes of the first application.

Protect joints that require sealing from infiltration of the curing compound.

Immediately cover the exposed sides of the concrete pavement with curing compound if removing forms exposes curing concrete before the expiration of the curing period.

Immediately reapply curing compound to damaged areas within the curing period.

570.04 A.2.c Dowel Bars

PAGE 284

10/01/15

Replace the first paragraph of Section 570.04 A.2.c with the following:

Drill 1-3/8 inch diameter holes using a rigid frame-mounted drill. Clean the hole, inject epoxy into the hole, and insert dowels.

570.04 A.3.a Concrete Removal

PAGE 285

10/01/15

Replace the third paragraph of Section 570.04 A.3.a with the following:

If existing reinforcing steel is damaged or bent within the 18 inch lap area, replace the damaged reinforcing steel.

570.04 C Grinding

PAGE 285

10/01/15

Replace the first paragraph of Section 570.04 C with the following:

Allow new concrete and dowel bar retrofit patch material to cure for a minimum of 24 hours before grinding.

570.04 C.6 Slurry Removal

PAGE 286

10/01/15

Replace Section 570.04 C.6 with the following:

6. Slurry Removal.

Continuously collect all slurry or residue resulting from the grinding operation.

In areas with speed limits of 45 mph or less and in areas with curb and gutter, dispose of slurry as specified in Section 107.17, "Removed Material".

In areas with speeds greater than 45 mph and without curb and gutter, slurry may be place on the foreslope of the roadway. Prevent slurry from entering pipes, culverts, storm drains, ravines, streams, waterways, wetlands, and all other water conveyances. Install erosion control features as necessary to prevent contamination, or dispose of slurry as specified in Section 107.17, "Removed Material".

570.04 D.1 General

PAGE 286

10/01/16

Replace the first sentence of the first paragraph with the following:

The Engineer will determine the pavement smoothness by profiling the finished surface of the mainline pavement.

570.04 D.2 Operation

PAGE 286

10/01/16

Replace the second paragraph with the following:

The Engineer will apply a liquidated damage of \$1,500 per trip for each profile collected after the second profile.

570.05 METHOD OF MEASUREMENT

PAGE 289

10/01/16

Add the following to Section 570.05:

E. Full-Depth Doweled.

Include the cost of the end dowel bars in the contract unit price "___-Inch Concrete Pavement Repair – Full-Depth Doweled". The cost for intermediate dowel bar assemblies is paid by "Doweled Contraction Joint Assembly".

570.06 BASIS OF PAYMENT

PAGE 289

10/01/15

Delete the following paragraph from Section 570.06:

Include all costs for saw cuts, steel reinforcing, bar supports, tie bars, and joint sealing in the unit price bid for "___Inch Concrete Pavement Repair - Full-Depth _____".

602.02 EQUIPMENT

PAGE 299
10/1/17

10/01/16 &

Add the following to Section 602.02.

E. Curing Concrete.

Use a fogging machine as specified in Section 156.02, "Fogger" for exposed surfaces.

F. Shot Blasting Equipment.

Use centrifugal or wheel type shot blasting equipment that is designed to clean concrete surfaces and leave no oil or other foreign material on concrete surfaces. Use a shot blaster capable of collecting blast media and dust.

602.02 A General

PAGE 299 10/01/17

Add the following sentence to the end of 602.02 A:

Use a plant and equipment as specified in Section 155, "Concrete Equipment".

602.03 A General

PAGE 299 10/01/16

Delete the last paragraph.

602.04 D Deck Finishing

PAGE 303 10/01/16

Replace Section 602.04 D with the following:

D. Deck and Bridge Approach Slab Finishing.

Following the screed operations, obtain the final surfacing with a 10 foot long scraping straightedge with a suitable handle. Ensure the final surface has the required crown and does not vary more than 1/8 inch from a 10 foot straightedge laid longitudinally thereon.

Pull a burlap or artificial grass drag over the surface in a longitudinal direction while the concrete is plastic.

Immediately following the artificial grass drag, run a clean metal tine transversely across the deck. Stop the tine 18 inches from the face of the barrier or curb and 6 inches from the beginning and end of the deck or approach slab. The tine may be hand-operated. Use a tine that provides:

- 1/8 inch ±1/64 inch groove width;
 - 3/16 inch ±1/16 inch groove depth; and
 - 3/4 inch spacing between grooves.
-

602.04 F.1 General

PAGE 304 10/01/17

Add the following to the end of the third paragraph of Section 602.04 F.1:

Do not use a waterproof material to cover the wet burlap during the curing period.

602.04 F.2 Deck Slab Concrete

PAGE 304 10/01/16

Delete Section 602.04 F.2 and replace with the following:

2. Deck and Bridge Approach Slab Concrete.

Cure the concrete surface by covering with a double thickness of burlap. Moisten the concrete surface using a light fog spray if the surface begins to dry after finishing and before placement of the wet cure. Keep the burlap continuously moist at all times.

During the curing process do not allow vehicles and equipment on the deck or approach slab and do not perform work on the deck or approach slab.

For deck slab concrete, place the wet cure burlap and start the wet cure within 15 minutes of the passing of the finishing machine.

Delete Section 602.04 G and add the following:

G. Barriers.**1. General.**

Use Class AAE-3 concrete for barriers.

Perform corrective actions of any surface that deviates by 3/8 inches or more when measured with a 10 foot straightedge. Make corrections by grinding, filling with an approved epoxy mortar, or replacing.

Except at expansion joints, construct V-grooves that are 3/4 inch wide and 3/4 inch deep in all faces of the barriers at each pier and at equal spaces between piers and abutments at approximately 10 foot spacing.

2. Conventional Forming.

Adequately tie forms to avoid any shifting during concrete placement.

If concrete inserts in the deck slab are holding the barrier forms in place, remove the inserts. Clean and fill the cavities flush with the deck slab using an epoxy resin adhesive.

3. Slipforming.

Conventional form a minimum distance of 4 feet on each side of expansion joints before slip forming.

After the reinforcement is installed, check the clear distance between the reinforcement and the slipform for the entire length of the pour.

The Engineer will allow slab overhang distance to be increased up to 1 inch provided the specified gutterline is maintained.

The Engineer will allow a radius to be used instead of a bevel on all edges of the barrier.

602.04 J Penetrating Water Repellent Treatment of Concrete Surfaces

Replace section 602.04 J with the following:

J. Penetrating Water Repellent Treatment.

Apply penetrating water repellent solution a minimum of 21 days after placement of the concrete bridge deck and approach slabs.

Apply penetrating water repellent solution to the following surfaces:

- Driving surfaces of bridge deck;
- Approach slabs;
- Concrete medians;
- Front faces and tops of curbs; and
- Front faces and tops of barriers.

Remove the barrier forms before applying treatment to surfaces. Clean all surfaces receiving treatment using either sandblasting, shot blasting, or water-washing equipment. Remove dirt, dust, grease, oil, laitance, asphalt, or other materials that may inhibit the coverage and penetration of the solution. Use hand tools and penetrating water repellent solution manufacturer's approved solvents to remove any bonded foreign materials. Do not remove or alter the existing surface finish or expose the coarse aggregate.

Allow any wet concrete surfaces to dry a minimum of 48 hours or longer if required by the solution manufacturer.

Apply the penetrating water repellent solution when the following conditions are met:

- The air temperature is within the following:
 - 40 °F and rising; or
 - 95 °F and falling;
- Wind is less than 25 mph; and
- Rain is not expected within 4 hours.

Use airless equipment that has a pressure range between 15 to 40 psi. Apply the repellent treatment solution uniformly so that one gallon of material does not spread over more than 200 sf. If the repellent solution manufacturer recommends a coverage of an area less than 200 sf per gallon, use the manufacturer's recommended rate. Squeegee or broom excess material to avoid ponding.

602.04 K.1 General**PAGE 307****10/01/15**

Replace Section 602.04 K.1 with the following:

1. General.

When shown in the plans, apply membrane and primer in dry weather and when the air temperature is above 40°F. Apply to surfaces that are dry, clean, free of sharp protrusions and above 40°F.

604.03 B.1 General**PAGE 309****10/01/16**

Replace Section 604.03 B.1 with the following:

1. General.

Develop a mix design that produces concrete that will achieve a minimum compressive strength of 5,000 psi within 28 days.

Section 802.01 H, "Air Content" will not apply.

Obtain the Engineer's approval for admixtures before developing the mix design. Include approved admixtures in the mix design.

Perform tests to determine the concrete's compressive strength using 6 inch by 12 inch cylinders.

604.03 B.3 Trial Mix**PAGE 310****10/01/15**

Replace the "AASHTO T 23" test requirement with "ND T 23"

604.03 E.1 Concrete**PAGE 310****10/01/15**

Replace the "AASHTO T 23" test requirement with "ND T 23"

604.04 B Work Drawings**PAGE 311****10/01/16**

Replace Section 604.04 B with the following:

B. Work Drawings.

Provide work drawings that include:

- Beam dimensions;
- Size and location of all reinforcing and prestressing steel including;
 - o Strand layout;
 - o Pull down locations;
 - o Tensioning forces;
 - o Elongation; and
 - o Proposed changes in the reinforcing steel;
- Initial prestress forces;
- Location of handling hooks or devices; and
- Losses in the prestress due to:
 - o Elastic shortening;
 - o Shrinking or creeping of concrete; and
 - o Relaxation of steel stress as determined by the Contractor method of stressing.

Submit calculations and work drawings that are signed, sealed, and dated by a Professional Engineer registered in the State of North Dakota as set forth in NDCC Title 43.

604.04 D Placing Concrete**PAGE 312****10/01/16**

Replace Section 604.04 D with the following:

D. Placing Concrete.

Place concrete in forms made entirely of steel.

Vibrate concrete for the beams. Vibrate without displacement of reinforcing, conduits, voids, or wire. Vibrate for a sufficient duration and intensity to thoroughly consolidate the concrete without causing segregation.

Rough float and transversely broom the top of the beams.

606.04 A Design and Manufacture**PAGE 314****10/01/15**

Replace the second paragraph in Section 606.04 A with the following:

Use an ACPA or NPCA certified plant in the construction.

624.03 B E-Rail Retrofit**PAGE 336****10/01/16**

Replace ASTM A 307, Grade C with ASTM F 1554, Grade 36.

624.03 C Free Standing Rail Retrofit**PAGE 336****10/01/16**

Replace ASTM A 307, Grade C with ASTM F 1554, Grade 36.

650.02 EQUIPMENT**PAGE 341****10/01/16**

Replace the Equipment list with the following:

| Equipment | Section |
|--|----------------|
| Mobile Mixer | 155.03 C |
| Bridge Deck Overlays Finishing Equipment | 155.07 D |
| Sawing | 155.09 |
| Grinding | 155.11 |
| Concrete Buggy | 155.12 |
| Fogger | 156.02 |
| Milling Machine | 156.03 |

650.03 A Concrete**PAGE 342****10/01/16**

Delete the last paragraph in its entirety.

650.03 B Low Slump Concrete**PAGE 342****10/01/17**

Replace Section 650.03 B with the following:

B. Low Slump Concrete.**1. General.**

| Item | Section |
|---------------------------|----------------|
| Fine Aggregate | 802.01 C.3 |
| Coarse Aggregate – Size 5 | 802.01 C.2 |
| Concrete Admixtures | 808 |
| Burlap Cloth | 810.01 A |
| Water | 812 |

Use cement that meets the requirements of AASHTO M 85, Type I or Type IA.

Mix low slump concrete using 8.75 bags of cement per cubic yard and a maximum water-cement ration of 0.42.

Use coarse aggregate composed of crushed stone. Use crushed stone that has at least one fractured face on 75 percent of the particles retained on the number 4 sieve.

Entrain air within the concrete as specified in Section 802.01 H, "Air Content", except supply concrete with an air content between 5.0 and 7.0 percent of the volume of the concrete at the time of placement.

Produce concrete that has a slump of 1 inch or less, when determined according to ND T 119.

Use a mobile mixer to produce low slump concrete.

2. Mix Design.

Use a mix design that has the percentages shown in Table 650-01.

| Table 650-01 | |
|---------------------|-----|
| Coarse Aggregate | 31% |
| Fine Aggregate | 31% |
| Air | 6% |
| Water | 16% |
| Cement | 16% |

650.04 C Removals with Hydrodemolition Equipment

PAGE 343

10/01/16

Add the following to 650.04 C:

In areas inaccessible for using hydrodemolition equipment, remove concrete using hand held hydrodemolition equipment or mechanical equipment.

650.04 C.1 Class 1H

PAGE 343

10/01/16

Delete the last paragraph in 650.04 C.1.

650.04 G Finishing

PAGE 345

10/01/16

Remove and replace the last paragraph of 650.04 G with the following:

Pull a burlap or artificial grass drag over the surface in a longitudinal direction while the concrete is plastic. Immediately follow the drag with a metal tine finish as specified in Section 602.04 D, "Deck and Approach Slab Finishing".

650.04 I Curing

PAGE 345

10/01/16

Replace all instances of Section 602.04 F.2, "Deck Slab Concrete" with the following:

Section 602.04 F.2, "Deck and Bridge Approach Slab Concrete".

650.05 Method of Measurement

PAGE 346

10/01/17

Add the following to the end of Section 650.05:

C. Hydrodemolition Removals.

Removals made beyond the designated limits stated in Sections 650.04 C.1, "Class 1H", and 650.04 C.2, "Class 2H" will not be paid for under any classification of removal.

Replace the Table 702-01 with the following:

**Table 702-01
Payment for Mobilization**

| Original Contract Amount Earned | Payment will be the Lesser of: | |
|---------------------------------|--------------------------------|--------------------------|
| | Mobilization Bid Amount | Original Contract Amount |
| 5% | 25% | 2.5% |
| 10% | 50% | 5.0% |
| 50% | 100% | 7.5% |
| 75% | 100% | 10.0% |

Add the following to the end of 704.03 A:

Provide traffic control devices that meet the crash testing requirements of the appropriate classification under NCHRP 350. The Engineer will accept devices that meet the requirements of MASH.

Submit a Certificate of Compliance for all temporary traffic control materials before installation.

Replace 704.04 A.1 with the following:

1. Requirements Before Device Installation.

Before beginning work, coordinate and hold a meeting with the Engineer to review the traffic control plans.

Replace all instances of "ATSAA" in Section 704.04 B with "ATSSA".

Replace the web address in the first paragraph with <http://www.ndsc.org>.

Replace the last sentence of the second paragraph with the following:

The handbook is available for download at www.ndltap.org and at <http://www.ndsc.org>.

704.04 M Protection Vehicle with Truck Mounted Attenuation Device (TMA)

PAGE 366
10/01/15

Replace the last paragraph of 704.04 M with the following:

Equip the protection vehicle with an advance warning flashing or sequencing arrow panel conforming to Section 704.03 M, "Advance Warning Flasher or Sequencing Arrow Panel" and the MUTCD.

704.04 O Traffic Control for Uneven Pavement

PAGE 367 **10/01/15**
10/01/17

Replace all instances of "Sign W20-52-24" in Section 704.04 O with "W20-52-54".

Change the title of Section 704.04 O.3.b to "Uneven Pavement Greater Than 2 Inches."

Add the following to 704.04 O:

4. Uneven Shoulder and Adjacent Lane.

If the shoulder and adjacent driving lane are not even at the end of the day, the following criteria will apply:

Install "Shoulder Drop Off" signs (Sign W8-9a-48) at the following locations:

- In advance of the drop off;
- Spaced at each mile from the advance sign; and
- At major intersections (CMC routes, state and US highways, and Interstate ramps).

If the difference in elevation between the shoulder and the driving lane is 2" or greater, construct a slough at the edge of the driving lane that is 4:1 or flatter.

If the difference in elevation between the shoulder and the driving lane is less than 2", no slough is required.

704.04 O.1 General.

Page 367 **10/01/17**

Replace 704.04 O.1 with the following:

1. General.

If pavement in adjacent lanes or the shoulder adjacent to an open lane is uneven at the completion of a day's work, install traffic control devices as specified in this section.

Leave these devices in place until the pavement surface in the adjacent lanes or shoulder are even.

706.02 A General

PAGE 372 **10/01/16**

Add the following to the end of Section 706.02 A:

Furnish Aggregate and Bituminous labs with DSL broadband internet and a router that broadcasts Wi-Fi and will allow for hard wiring of a computer.

Replace Section 706.02 B with the following:

B. Aggregate Laboratory.

Place the laboratory at a location acceptable to the Engineer. The Engineer will have the full control and the exclusive use of the laboratory.

Provide a laboratory with a minimum floor area of 230 square feet, minimum exterior width of 8 feet, and a minimum ceiling height of 7 feet.

Partition the building into a minimum of two rooms, a smaller room having a floor area of approximately 70 square feet.

Provide a workbench with a length of 7 feet in the smaller room.

Provide the following equipment in the larger room:

1. Mechanical shaker capable of receiving 6 trays that have a screen size of 14 inches by 14 inches and the following compatible sieves:
 - 1-1/2 inch;
 - 1-1/4 inch;
 - 1 inch;
 - 3/4 inch;
 - 1/2 inch;
 - 3/8 inch;
 - No. 4; and
 - An enclosed dust pan.
2. Mary Ann shaker capable of being adjusted to receive 8 and 12 inch diameter sieves;
3. Splitter with a maximum hopper capacity of 0.6 cubic feet;
4. Splitter with a minimum hopper capacity of 1.0 cubic feet; and
5. An exhaust fan capable of changing the air in the room every minute.

Replace Section 709.04 C with the following:

C. Geosynthetic Geogrid (Type G).

Unroll geogrid parallel to the centerline of the road. Do not drag the geogrid across the underlying material. Use geogrid widths that produce overlaps of parallel rolls at the centerline and at the shoulders and so that no overlaps are required along wheel paths.

Overlap geogrid a minimum of 30 inches at all splices and joints when placing on subgrade. Overlap geogrid a minimum of 12 inches at all splices and joints when placing on base.

Construct overlaps at the end of a roll so the previous roll laps over the subsequent roll in the direction of the cover material placement. Mechanically tie transverse joints to maintain the minimum overlap. Place pins, staples, or small piles of aggregate to maintain the geogrid position before placement of cover material.

Stagger end overlaps at least 10 feet from other end overlaps in parallel rolls. Cut or increase overlaps to conform to curves.

Patch damaged areas of geogrid. Place a patch that overlaps the damaged area by 36 inches on all sides. Mechanically tie the patch to the underlying grid.

Place the first lift of material over geogrid installed on subgrade to a depth of 10 inches of loose material. Place the first lift of material over geogrid installed on base to a depth of 6 inches of loose material.

Use low ground pressure equipment to spread the initial lift of material. If rutting occurs, fill the ruts with additional material before placing the subsequent lift. Do not blade out ruts. Do not turn construction equipment on the first layer of material.

714.03 A Culverts and Storm Drains

**PAGE 378 10/01/16 &
10/1/17**

Replace the last paragraph of Section 714.03 A with the following:

Provide mortar consisting of a mixture of one part Portland Cement to two parts mortar sand, and sufficient water to furnish proper consistency.

Where placing new end sections on existing pipe, identify whether the type of end section needed is male or female.

Add the following to the end of Section 714.03 A:

If using polymer coated corrugated steel pipe, install end sections that meet the requirements of Section 830.02 C "Polymer Coated Corrugated Steel Pipes" or 830.02 B, "Metallic (Zinc or Aluminum) Coated Corrugated Steel Culverts, Storm Drains, and Underdrains".

714.04 A.1 Bedding

PAGE 379 10/01/15

Delete the first paragraph from Section 714.04 A.1.

714.04 A.3 Joining Pipe

PAGE 380 10/01/17

Delete the last paragraph.

714.04 A.5 Deflection Testing

PAGE 380 10/01/16

Replace the second paragraph of 714.04 A.5 with the following;

The Engineer will visually inspect all metal and thermoplastic pipe under unpaved approaches for deflection. If the Engineer sees any deflection, the Engineer will require the Contractor to pass a nine point mandrel or other approved object through the pipe to check for deflection. Use a mandrel with a diameter not less than 95 percent of the inside diameter of the pipe. If the mandrel cannot be passed through the pipe, replace the pipe.

714.04 A.6 Connection to Manholes, Inlets, and Pipes

PAGE 380

10/01/15

Replace Section 714.04 A.6 with the following:

6. Connection to Manholes, Inlets, and Pipes.

If connections are required to a manhole, inlet barrel, or pipe entrance; connect pipe by cutting the opening and grouting in the connecting pipe.

714.04 A.7 Compaction Control for Aggregate

PAGE 380

10/01/15

Replace Section 714.04 A.7 with the following:

7. Compaction Control for Aggregate.

Compact aggregate according to Section 203.04 E.2, "Compaction Control, Type A". The moisture content of the aggregate at the time of compaction shall be not less than 2.0 percentage points below, nor more than 3.0 percentage points above the optimum moisture content.

Compact aggregate for approach pipes according to the conduit manufacturer's recommendation

Use a maximum lift thickness of 6 inches.

714.04 A.8 Compaction Control for Non-Aggregate Material

PAGE 380

10/01/15

Replace Section 714.04 A.8 with the following:

8. Compaction Control for Non-Aggregate Material.

If Common Excavation Type A is specified, follow the compaction requirements in Section 203.04 E.2, "Compaction Control, Type A". If Common Excavation Type B is specified, follow the compaction requirements in Section 203.04 E.3, "Compaction Control, Type B".

Compact material for approach pipes according to the conduit manufacturer's recommendations.

748.03 MATERIALS

PAGE 393

10/01/15

Add the following item to the table:

| | |
|--------------------------|-----------------------------|
| Impervious Membrane Cure | 810.01 B.1 or 810.01 B.2 |
|--------------------------|-----------------------------|

750.03 MATERIALS

PAGE 395

10/01/15

Add the following item to the table:

| | |
|--------------------------|----------|
| Impervious Membrane Cure | 810.01 B |
|--------------------------|----------|

Replace the paragraph directly after the table with the following:

For imprinted concrete use any size coarse aggregate specified in Section 802.01 C.2, "Coarse Aggregate". Produce a mix that consists of 60 percent fine aggregate and 40 percent coarse aggregate

752.05 Method of Measurement

PAGE 399

10/01/17

Remove the last paragraph from 752.05:

752.06 Basis of Payment

PAGE 400

10/01/17

Replace "Fence Terminal – Wood Posts" in the Pay Item List with "Fence Terminal".

754.03 Materials

PAGE 401

10/01/17

Replace Concrete Class AAE with Concrete Class AE.

754.04 D.2 Anchor for Telescoping Perforated Tubes Supports

PAGE 403

10/01/15

Replace the last two paragraphs in Section 754.04 D.2 with the following:

If installation is in either concrete or bituminous material, omit the soil plate or use a surface mount anchor base.

Core concrete and bituminous surfacing before installing the anchor unit and fill the cored area with like material that matches the surrounding surfacing.

754.04 F Removing and Resetting Signs and Supports

PAGE 407

10/01/15

10/01/16

Replace the Section 754.04 F with the following:

F. Removing and Resetting Signs and Supports.

1. General.

Remove and reset existing signs and supports as specified. Stockpile all signs and supports not to be reset at designated locations within the project limits. The Engineer will arrange to have stockpiled signs removed from the project limits and delivered to the Department's facility.

Replace removed or reset signs and supports that are damaged during removing, resetting, or stockpiling at no additional cost to the Department.

Remove existing signs and supports as construction progresses, and immediately reset or install new signs.

The Engineer will allow the temporary reset of existing signs, or the temporary installation of new signs. Include the cost of installing and resetting signs temporarily in the price bid for other items.

2. Reset Sign Panel.

Remove sign panels from existing supports. Reinstall sign panels, angles, stringers, and steel channels on new supports.

Provide all necessary brackets and hardware to attach sign panels, angles, stringers, and steel channels on new supports.

3. Reset Sign Support.

Remove sign panels from existing supports. Reinstall support and install new sign panels, angles, stringers, and steel channels.

Provide all necessary brackets and hardware to attach sign panels, angles, stringers, and steel channels on supports.

754.04 I Overlay Panel Sign Refacing

PAGE 407

10/01/15

Replace the second paragraph of Section 754.04 I with the following:

Remove the legend, border, and symbol on those signs that have demountable copy and remove any existing sign overlays and place overlay panels on the signs. Do not remove direct applied sheeting legends, borders, and symbols. Direct apply the new legends, borders, and symbols to the overlay panels and install on the existing signs.

754.04 J Auxiliary Signs

PAGE 408

10/01/15

Replace the Section 754.04 J with the following:

J. Auxiliary Signs.

Install auxiliary signs used with route markers with the same background color as the route markers:

- Interstate, Blue;
- Interstate Business Loop, Green;
- State, White;
- US, White; and
- County, Blue.

754.05 METHOD OF MEASUREMENT

PAGE 408

10/01/15

Add the following to Section 754.05:

D. Reset Sign Panel.

The Engineer will measure the item "Reset Sign Panel" by the number of locations a sign or sign assembly has been reset.

E. Reset Sign Support.

The Engineer will measure the item "Reset Sign Support" by each leg of a sign support that has been reset.

760.03 Materials

PAGE 410

10/01/15

Replace Section 760.03 with the following:

760.03 MATERIALS

Use one of the following materials when applying a fog coat to rumple strips:

- SS-1h, Section 818.02 F, "Anionic Emulsified Asphalt";
- MS-1 Section 818.02 F, "Anionic Emulsified Asphalt"; or

- CSS-1h Section 818.02 E.1 "Cationic Emulsified Asphalt".

When MS-1 is used it may be diluted by the supplier or the Contractor.

760.04 F Traffic Control

PAGE 411

10/01/15

Replace Section 760.04 F with the following:

F. Traffic Control.

1. General.

Use a TMA as specified in Section 704.04 M, "Protection Vehicle with Truck Mounted Attenuation Device (TMA)".

2. Centerline Rumble Strip Installation.

Provide flaggers and 2 sets of the required flagger signing for each direction of travel. Ensure that at least one set of the required flagger signing is in place in each direction of travel whenever work centerline installation is performed. Limit the work area to a maximum of 3 miles.

760.05 METHOD OF MEASUREMENT

PAGE 411

10/01/15

10/01/16

Add the following to the end of Section 760.05:

The Engineer will measure flagging and traffic control signs as specified in Section 704.05, "Method of Measurement.

The Engineer will count each leg of an intersection receiving rumbles strips as one "Set".

760.06 BASIS OF PAYMENT

PAGE 411

10/01/15

10/01/16

Delete "Rumble Strips – Intersection, Each" and replace with "Rumble Strips – Intersection, Set".

Add the following paragraph after the list of pay items in Section 760.06:

Flagging and traffic control signs will be paid for as specified in Section 704.06, "Basis of Payment".

762.04 A.4 Grooved Pavement Markings

PAGE 413

10/01/16

Replace Section 762.04 A.4 with the following:

4. Grooved Pavement Markings.

a. General.

For messages, groove the same area as the messages. Do not groove a rectangular area to contain the message.

After grinding, blow the grooved slot clean to remove any residue and loose material before the installation of the pavement marking. When wet-grinding, immediately pressure wash the grooved slot to remove residue.

b. Grooves for Preformed Patterned Pavement Marking Film.

If specified in the plans, groove a recess into the pavement surface for each stripe that meets the tolerances specified in Table 762-01.

**Table 762-01
Preformed Patterned Pavement Marking Film Grooves**

| Parameter | Tolerance |
|-----------------|--|
| Depth | 90 to 110 mils |
| Smoothness | Ridges, within the groove, shall be no more than 6 mils higher than either adjacent valley |
| Width | line width plus 1/2 inch |
| Length | line length plus 3 inches per end of line |
| Line End Tapers | 3 inches |

If pavement marking installation does not occur within 24 hours of grinding, sandblast the groove and install the pavement markings the same day the sandblasting occurs.

c. Grooves for Epoxy Paint.

If specified in the plans, groove a recess into the pavement surface for each stripe that meets the tolerances specified in Table 762-02.

**Table 762-02
Epoxy Paint Grooves**

| Parameter | Tolerance |
|-----------------|--|
| Depth | 45 to 55 mils |
| Smoothness | Ridges, within the groove, shall be no more than 6 mils higher than either adjacent valley |
| Width | line width plus 1 inch |
| Length (skips) | line length plus 3 inches per end of line |
| Line End Tapers | 3 inches |

After creating the groove, prepare the surface in accordance with the manufacturer's instruction.

762.04 C.1.a Application

PAGE 415 10/1/16

Delete the last paragraph of Section 762.04 C.1.a.

762.04 C.1.b. Data Logging System (DLS)

PAGE 415 10/1/16

Replace the first paragraph of Section 762.04 C.1.b with the following:

The use of a computerized DLS is required for monitoring the application of water based paint and epoxy pavement markings when the plan quantity of long lines for liquid pavement marking is 30,000 linear feet or greater.

762.04 C.2.a Method of Application

PAGE 416 10/1/16

Replace Section 762.04 C.2.a with the following:

a. Method of Application.

Allow new bituminous treatment to cool to a temperature below 125°F and cure for a period of 72 hours before applying permanent pavement marking.

Apply pavement marking paint and glass beads separately by machine. Use hand application where machine application is not feasible.

Apply water based paint when the air and pavement surface temperatures are 45°F or warmer. Do not apply paint when the air or pavement surface temperatures are forecasted to be colder than the minimum application temperature during the curing period of the paint. Apply pavement marking paint and beads only during daylight hours.

762.04 C.3.a General

PAGE 417 10/1/16

Replace the last paragraph of Section 762.04 C.3.a with the following:

Place epoxy material after bituminous material has been in place for a minimum of 14 days.

762.04 D.2 Short-Term Pavement Marking – Type NR (Non-Removable)

**PAGE 418
10/01/15**

Replace the second paragraph of Section 762.04 D.2 with the following:

Place the short term pavement markings at the rate specified in Section 762.04 C.2.b, “Rate of Application” with the following exception:

Exception: When the permanent pavement marking is specified as epoxy paint, apply the short term pavement marking at a thickness of 10 mils.

762.04 D.3 Short-Term Pavement Marking – Type R (Removable)

PAGE 419 10/01/15

Replace Section 762.04 D.3 with the following:

3. Short-Term Pavement Marking – Type R (Removable).

Install Type R markings when the air and pavement temperatures are at a minimum of 50°F and expected to remain above 50°F.

If the air or pavement temperature falls below 50°F during installation, Type NR markings may be installed as specified in Section 762.04 D.2, “Short-Term Pavement Markings – Type NR (Non-Removable)”. Install Type R markings once the specified temperatures exist.

Remove Type R markings once they are no longer necessary for traffic control operations. If Type NR markings were substituted for Type R markings, remove the Type NR markings using a method that does not leave a scar on the pavement.

Add the following to the end of the first paragraph:

If Type NR markings are substituted for Type R markings due to temperature requirements, the markings will be paid for at the contract unit price for Type R markings.

Replace section 764.04 A with the following:

A. General.

1. Installation Requirements.

Before guardrail removal, installation, and extension, develop a written construction schedule for work at the guardrail location, and have the schedule reviewed by the Engineer. Include a sequence of controlling items and the timing of each in the schedule of work. Do not stop work between controlling items for more than four working days at any individual run.

Install the guardrail to produce a smooth continuous line with uniform height.

Set posts plumb with the front faces uniformly aligned.

Backfill posts with approved material placed and compacted in 6 inch layers, using a mechanical tamper.

Place hot bituminous pavement before guardrail post installation. Drill post holes for the new or reset guardrail through the hot bituminous pavement. Install the post in the remaining material by augured holes or driving.

When posts are installed in augured holes, backfill the holes with approved material without displacing the post alignment. Remove surplus excavated material.

When posts are driven, make the diameter of the hole in the bituminous pavement sufficient so when the soil around a post heaves up while the post is driven, the remaining asphalt will not move. If driving causes damage to posts, replace the post and install the replacement post by auguring the hole. Use a post cap if making minor vertical adjustments with a sledgehammer or maul.

Place a maximum thickness of 2 inches of bituminous material around each post to blend the post hole into the surrounding bituminous material.

Do not burn or weld after the material has been galvanized. All holes shall be machined drilled.

Repair areas exposed by cutting or drilling and any damaged galvanized coating according to Section 854.02, "Damaged Galvanized Coatings".

Hang guardrail and end terminals for individual runs in a single day.

2. Installation on Roadways Open to Public Traffic.

At locations of guardrail installation where the roadway is open to traffic, complete the installation of each individual run within 10 working days from the date all controlling items allow guardrail installation to begin.

Install delineator drums, as specified in Section 704, "Temporary Traffic Control", at 25-foot intervals adjacent to areas meeting one of the following conditions:

- Existing guardrail was removed and new guardrail will be installed;
- Where no guardrail previously existed but will be installed; or
- At guardrail extensions.

Leave the drums in place until guardrail installation at that location is complete and accepted by the Engineer.

3. Failure to Comply with Installation Requirements.

Provide temporary protection according to the plans at an object if unable to complete the required work in the specified time. Do not use material installed for this purpose in the final guardrail installation. The Department will not make separate payment for attenuation provided due to the Contractor's inability to complete the work in the specified time.

If the Contractor fails to comply with all requirements of Section 764.04 A.2, "Installation on Roadways Open to Public Traffic", the Engineer will perform one or both of the following:

1. The Engineer will apply a contract price reduction of \$1000 per day if the deficiency is not remedied within 24 hours of notification to correct the item.
2. The Engineer will have the temporary protection installed by other forces and deduct the costs from monies due or that become due to the Contractor.

If the Engineer uses other forces to install temporary protections, remove and dispose of the materials installed by the other forces at no additional cost to the Department.

764.04 D Removal of Guardrail

PAGE 422

10/1/17

Replace section 764.04 D with the following:

D. Removal of Guardrail.

1. General.

If the Engineer determines that the concrete anchors do not interfere with other construction, cut off concrete anchors one foot below ground level. When concrete anchors are removed, backfill the holes with approved material in 6 inch layers. Thoroughly tamp each layer using a mechanical tamper. If concrete anchors are cut off or removed, shape the surface to match the surrounding area and dispose of the removed concrete.

When removing guardrail posts and not replacing the posts in the same hole, backfill the hole with approved material. When the existing surrounding surface is bituminous, place 2 inches of bituminous material at the top of the hole to match existing surrounding surface.

2. Removed Guardrail in Locations Where There will be no permanent guardrail.

At locations where guardrail is to be removed and no guardrail will exist upon completion of the work, leave the guardrail in place until the hazard associated with the guardrail is no longer present and all work is complete except for that which requires the guardrail to be removed.

764.04 G Completion Requirements

PAGE 423

10/1/17

Replace section 764.04 G Completion Requirements with the following:

G. Reserved.

Reserved.

764.04 H Attenuation Devices

PAGE 423 10/1/17

Replace the first paragraph with the following:

Install attenuating devices that meet the appropriate MASH testing Requirements and have an eligibility letter from FHWA.

766.04 CONSTRUCTION REQUIREMENTS

**PAGE 425 10/01/15 &
10/1/17**

Replace Section 766.04 with the following:

766.04 CONSTRUCTION REQUIREMENTS

A. General.

The mailbox owner will furnish a postal service approved mailbox. Install the furnished mailbox on the new support system.

B. Temporary Relocation.

If construction activities require the removal of the support system and delayed installation of the new support system, reset the existing support system at a location approved by the Engineer and postal service.

If construction activities require the removal of the support system and delayed installation of the new support system, relocate mailboxes to a location approved by the Engineer and postal service.

If existing mailboxes meet NCHRP 350 or MASH requirements, they may be reset temporarily during construction. If the existing support does not meet NCHRP 350 or MASH, place temporarily located mailboxes on supports that meet MASH requirements. If there is no support that meets MASH requirements, perform one of the following actions:

- Place them outside the clear zone;
- Place them on a 4 × 4 inch wood post; or
- Reset them using assemblies shown in the plans.

After construction has progressed to allow permanent installation, install the mailbox assemblies and mailboxes at the specified locations.

770.03 A General

PAGE 426 10/01/17

Replace Concrete Class AAE-3 with Concrete Class AE-3.

770.04 C. Concrete Foundation

PAGE 428 10/01/17

Replace Section 770.04 C with the following:

C. Concrete Foundation.

Cast concrete foundations in place. Place the concrete in one continuous operation with no construction joints. Consolidate the concrete according to Section 602.04 C.2 "Vibration".

Allow the concrete foundation to cure for 7 days before placing poles on the foundation.

Do not grout between the foundation and the pole base.

Install anchor bolts according to Section 754.04 D.5.b, "Anchor Bolt Installation".

770.04 D.1 General

PAGE 428

10/01/15

Add the following to the end of Section 770.04 D.1:

Install duct seal on all conduits containing cables at controller cabinets, traffic signal bases, and pull boxes.

770.04 G Light Standards

PAGE 430

10/01/16

Replace the first paragraph of Section 770.04 G with the following:

Plumb the light standard with leveling nuts. Adjust the leveling nuts on assembled light standards before 10:00 am. Tighten anchor nuts according to Section 754.04 D.5.c "Anchor Bolt Tightening".

772.03 A General

PAGE 433

10/01/17

Replace Concrete Class AAE-3 with Concrete Class AE-3.

772.03 D Wiring Diagrams

PAGE 434

10/01/15

Replace the first paragraph with the following:

At the time the cabinet and control equipment is accepted, furnish a traffic signal cabinet wiring diagrams showing all circuits and parts in detail. Place the wiring diagram in the signal cabinet and submit one PDF copy to the Engineer.

772.04 A General

PAGE 435

10/01/15

Replace the second paragraph with the following:

Provide and bear all costs for the electrical service necessary to operate and maintain the traffic signal system until the system is accepted as specified in Section 772.04 N.3, "Supplemental Inspections and Final Acceptance".

772.04 E.8 Final Testing

PAGE 439

10/01/15

Replace Section 772.04 E.8 with the following:

After installing sealer, perform the tests specified in Section 772.04 E.6, "Initial Testing". Record the test results on SFN 60844 *Traffic Signal Loop Detector Test Report* and submit the form to the Engineer.

Replace number 3 with the following:

Install and tighten the anchor bolts as specified in Section 754.04 D.5, "Overhead Sign Structures".

772.04 N Tests and Acceptance

PAGE 442

10/01/15

Replace 772.04 N with the following:

1. General.

Furnish all instruments and personnel required for testing and record test results. If a subcontractor performed electrical work, ensure the subcontractor is present during testing and inspection.

The Engineer will perform the initial and final inspections when:

- Winds are 30 mph or less;
- Ambient temperature is 15°F or greater; and
- It is not raining or snowing.

a. Malfunction Management Unit Test.

Before uncovering the signal heads, perform a malfunction management unit test. Record the test results on SFN 60836 *Traffic Signal Malfunction Management Unit Test* and submit the results to the Engineer.

b. Ground Test.

Before opening to traffic, perform a ground test. The maximum allowable resistance at the controller cabinet is 10 Ohms. The maximum allowable resistance at each traffic signal standard is 25 Ohms. Record and submit the test results on SFN 60834, *Traffic Signal Ground Test*.

2. Initial Inspection.

After the signal system is operational and open to traffic, submit a request to schedule the initial inspection. The system must be fully operational for a minimum of 15 days before the Engineer will perform the initial inspection. The Engineer will record the inspection results on form SFN 59867, *Traffic Signal Inspection Checklist* or SFN 60845 *Flashing Beacon Inspection Checklist*. Copies of completed forms will be sent to the Contractor.

3. Supplemental Inspections and Final Acceptance.

After performing corrections, submit a request for a supplemental inspection. The Engineer will perform a supplemental inspection within 30 days of receiving the request.

If this inspection discloses any unsatisfactory items, the Engineer will provide the Contractor with a written list of items that require correction. After correcting the items, request another supplemental inspection.

If the Engineer determines that the work is complete, the signal system must operate for 14 consecutive days without interruption from defective equipment or improper workmanship.

If the signal system fails within the 14 days, make necessary repairs. After repairs are complete, request another supplemental inspection.

If the signal system operates for 14 consecutive days without interruption from defective equipment or improper workmanship, the Engineer will consider the last supplemental inspection as the final inspection and will accept the signal system.

802.01 A.1 Development

PAGE 453

10/01/16

Replace the second paragraph of Section 802.01 A.1 with the following:

Design a mix that will attain a compressive strength of 3,000 psi after 7 days or a flexural strength of 450 psi after 7 days. Mix designs used for Section 550, "Concrete Pavement" will be required to attain both a compressive strength of 3,000 psi and a flexural strength of 450 psi after 7 days. Measure compressive strength according to AASHTO T 22 and flexural strength according to AASHTO T 97. Apply a correction factor of 0.92 when using 4 inch x 8 inch concrete cylinders.

802.01 B Cement

PAGE 453

10/01/17

Delete section 802.01 B.3.

802.01 C.2 Coarse Aggregate

PAGE 454

10/01/15

Replace Table 802-02 with the following:

**Table 802-02
Miscellaneous Coarse Aggregate Properties**

| Test | Method | Max. Percent by Weight of the Plus No. 4 fraction |
|---|---------------|--|
| Shale | NDDOT 3 | 0.7 |
| Iron oxide particles | NDDOT 3 | 4.0 ¹ |
| Lignite and other coal | NDDOT 3 | 0.5 |
| Soft Particles (Excluding Shale, Iron oxide particles and Lignite and other coal) | NDDOT 3 | 2.5 |
| Thin or Elongated Pieces | NDDOT 3 | 15 |
| L.A. Abrasion | AASHTO T 96 | 40.0 |
| Soundness (Sodium Sulfate) | AASHTO T 104 | 12 |

¹ For concrete for spall repairs and bridge deck overlays, the maximum iron oxide particles shall be 2.0 percent.

802.01 C.3 Fine Aggregate

PAGE 454

10/01/15

Replace the second paragraph of Section 802.01 C.3 with the following:

Test fine aggregates in accordance with AASHTO T 21. If the results of the analysis are darker than the standard color, determine the compressive strength of mortar mixed using the aggregate in accordance with AASHTO T 71. If the results of the AASHTO T 71 test result in a relative strength less than 95 percent, do not use the fine aggregate.

802.01 H Air Content**PAGE 456****10/01/17**

Replace the last paragraph with the following:

Supply concrete with an air content between 5.0 and 8.0 percent of the volume of the concrete at the time of placement.

802.01 J Tests on Concrete**PAGE 457****10/01/16**

Delete 802.01 J “Tests on Concrete” and replace with the following:

J. Tests on Concrete.

Furnish the concrete necessary for the tests.

Near the site of concrete placement, provide a level area protected from construction activities near the site of placement for the Engineer to conduct tests.

810.01 B Liquid-Membrane-Forming Compounds**PAGE 464****10/01/15**

Add the following to the end of Section 810.01 B:

3. Curing Compound for Pigmented Concrete.

Use a curing compound when curing pigmented concrete that meets the requirements of ASTM C 309 Type 1-D.

816.03 AGGREGATES FOR BLOTTER AND SEAL COATS**PAGE 467****10/01/16**

Replace Table 816-02 with the following:

**Table 816-02
Aggregates for Blotter and Seal coats**

| Sieve Size Or Testing Method | Aggregate Class | | | | | |
|--|-----------------|-----|------|------|--------|--------|
| | 41 | 41M | 42 | 43 | 44 | 45 |
| Percent Passing or Testing Requirement | | | | | | |
| 5/8 inch | | | | | 100 | |
| 3/8 inch | 100 | | | | | 100 |
| No. 4 | 20-70 | | | | 90-100 | 85-100 |
| No. 8 | 0-17 | | 2-20 | 0-17 | | |
| No. 16 | | | | | | 45-80 |
| No. 50 | | | | | | 10-30 |
| No. 200 | 0-1.5 | | 0-5 | 0-2 | 0-20 | 0-3 |
| ND T 113, Shale (max %) | 8.0% | | | | | 3.0% |
| AASHTO T 96, L.A. Abrasion (max %) | 40% | | | | | |
| NDDOT 4, Fractured Faces ¹ | | 50% | | | | |

**Table 816-02
Aggregates for Blotter and Seal coats**

| | | | | | | |
|---|---|-----|----|----|----|----|
| Sieve Size Or Testing Method | Aggregate Class | | | | | |
| | 41 | 41M | 42 | 43 | 44 | 45 |
| | Percent Passing or Testing Requirement | | | | | |

¹ Minimum weight percentage allowable for the portion of the aggregate retained on a No. 4 sieve having at least 1 fractured face for Class 41M.

816.04 AGGREGATE FOR MICRO SURFACING

PAGE 467

10/01/15

Replace Section 816.04 with the following:

816.04 AGGREGATE FOR MICRO SURFACING

A. General.

Use aggregate that is manufactured crushed stone such as granite, slag, limestone, or other high quality aggregate or combination thereof.

Before stockpiling aggregate, perform the tests specified in Table 816-03.

Table 816-03

| Test | Test Method | Requirement |
|---|--------------------|--------------------|
| Soundness of Aggregates by Use of Sodium Sulfate | AASHTO T 104 | 15% Max |
| Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine ¹ | AASHTO T 96 | 30% Max |
| Deleterious Substances | ND T 176 | 60 or Higher |

¹ Perform the AASHTO T 96 test on the parent aggregate

B. Mix Design.

Develop a mix design using aggregate that meets the requirements of Table 816-04. Establish mix design target values for each sieve and submit the mix design before beginning placement operations.

**Table 816-04
Aggregate Gradation for Development of Mix Design**

| SIEVE SIZE | TYPE II %PASSING | TYPE III %PASSING |
|-------------------|-------------------------|--------------------------|
| 3/8" | 100 | 100 |
| #4 | 90 – 100 | 70 – 90 |
| #8 | 65 – 90 | 45 – 70 |
| #16 | 45 – 70 | 28 – 50 |
| #30 | 30 – 50 | 19 – 34 |
| #50 | 18 – 30 | 12 – 25 |
| #100 | 10 – 21 | 7 – 18 |
| #200 | 5 – 15 | 5 – 15 |

C. Stockpile Tolerances.

The mix design target values will be used for acceptance of material. Gradation tests may vary from the mix design target values based on the stockpile tolerance shown in Table 816-05. The percent passing each sieve for gradation tests may not fall outside the gradation limits specified in Table 816-04.

Table 816-05

| SIEVE SIZE | STOCKPILE TOLERANCE |
|-------------------|----------------------------|
| 3/8" | - |
| #4 | $\pm 5\%$ |
| #8 | $\pm 5\%$ |
| #16 | $\pm 5\%$ |
| #30 | $\pm 5\%$ |
| #50 | $\pm 4\%$ |
| #100 | $\pm 3\%$ |
| #200 | $\pm 2\%$ |

D. Acceptance.

1. Stockpile Testing.

Perform a gradation test in accordance with ND T 11 and ND T 27 for every 500 tons of material produced and placed in the stockpile. Also perform test ND T 176 when performing gradation tests. Submit the test results to the Engineer.

The Engineer will perform acceptance testing. If the result of the Engineer's testing lead to rejection of the stockpile, additional material may be blended with the stockpiled material so that the stockpile meets the requirements. The Engineer will resample and retest for both gradation and deleterious substances to determine if the stockpiled material will be accepted.

If choosing to blend additional material into the stockpile, use additional material that meets the requirements of Table 816-06. After blending, develop and submit a new mix design.

2. Gradation.

The Engineer will obtain 5 independent samples from the stockpile and perform a gradation analysis in accordance with ND T 11 and ND T 27. If the average gradation for each sieve is within the stockpile tolerance of the mix design target values, the Engineer will accept the material.

If the stockpile is rejected, additional material may be blended with the stockpiled material to obtain the required gradation. The Engineer will resample and retest to determine if the stockpiled material will be accepted.

If choosing to blend additional material into the stockpile, use additional material that meets the requirements of Table 816-03. After blending, develop and submit a new mix design.

3. Deleterious Substances.

The Engineer will determine the amount of deleterious substances in the aggregate using the same samples obtained in Section 816.04 D.2, "Gradation". If the average of the test results is 60 or higher, the Engineer will accept the material.

Replace Section 816.05 with the following:

A. General.

Use aggregate that is manufactured crushed stone such as granite, slag, limestone, or other high quality aggregate or combination thereof. Use aggregate with 100 percent of the parent aggregate larger than the largest stone in the specified gradation.

Before stockpiling aggregate, perform the tests specified in Table 816-06.

Table 816-06

| Test | Test Method | Requirement |
|---|--------------|--------------|
| Soundness of Aggregates by Use of Sodium Sulfate | AASHTO T 104 | 15% Max |
| Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine ¹ | AASHTO T 96 | 35% Max |
| Deleterious Substances | ND T 176 | 60 or Higher |

¹ Perform the AASHTO T 96 test on the parent aggregate

B. Mix Design.

Develop a mix design using aggregate that meets the requirements of Table 816-07. Establish mix design target values for each sieve and submit the mix design before beginning placement operations.

Table 816-07
Aggregate Gradation for Development of Mix Design

| SIEVE SIZE | TYPE II %PASSING | TYPE III %PASSING |
|------------|------------------|-------------------|
| 3/8" | 100 | 100 |
| #4 | 90 – 100 | 70 – 90 |
| #8 | 65 – 90 | 45 – 70 |
| #16 | 45 – 70 | 28 – 50 |
| #30 | 30 – 50 | 19 – 34 |
| #50 | 18 – 30 | 12 – 25 |
| #100 | 10 – 21 | 7 – 18 |
| #200 | 5 – 15 | 5 – 15 |

C. Stockpile Tolerances.

The mix design target values will be used for acceptance of material. Gradation tests may vary from the mix design target values based on the stockpile tolerance shown in Table 816-08. The percent passing each sieve for gradation tests may not fall outside the gradation limits specified in Table 816-07.

Table 816-08

| SIEVE SIZE | STOCKPILE TOLERANCE |
|------------|---------------------|
| 3/8" | - |
| #4 | <u>±</u> 5% |
| #8 | <u>±</u> 5% |
| #16 | <u>±</u> 5% |
| #30 | <u>±</u> 5% |
| #50 | <u>±</u> 4% |
| #100 | <u>±</u> 3% |
| #200 | <u>±</u> 2% |

D. Acceptance.

1. Stockpile Testing.

Perform a gradation test in accordance with ND T 11 and ND T 27 for every 500 tons of material produced and placed in the stockpile. Also perform test ND T 176 when performing gradation tests. Submit the test results to the Engineer.

The Engineer will perform acceptance testing. If the result of the Engineer's testing lead to rejection of the stockpile, additional material may be blended with the stockpiled material so that the stockpile meets the requirements. The Engineer will resample and retest for both gradation and deleterious substances to determine if the stockpiled material will be accepted.

If choosing to blend additional material into the stockpile, use additional material that meets the requirements of Table 816-06. After blending, develop and submit a new mix design.

2. Gradation.

The Engineer will obtain 5 independent samples from the stockpile and perform a gradation analysis in accordance with ND T 11 and ND T 27. If the average gradation for each sieve is within the stockpile tolerance of the mix design target values, the Engineer will accept the material.

3. Deleterious Substances.

The Engineer will determine the amount of deleterious substances in the aggregate using the same samples obtained in Section 816.05 D.2, "Gradation". If the average of the test results is 60 or higher, the Engineer will accept the material.

817.01 D Salvage Base Course Containing Bituminous Material **PAGE 472** **10/01/17**

Replace the last paragraph with the following:

If salvaged base course is to be placed beneath a bituminous asphalt roadway or used as a final surfacing, the following specifications apply.

817.01 D.2.a Extraction Test Method **PAGE 472** **10/01/15**

Replace the second paragraph of Section 817.01 D.2.a with the following:

The Engineer will determine the percentage of asphalt binder in the stockpile in accordance with AASHTO T 164 and average the results obtained from the three samples. The material will be rejected if any single sample has a value greater than 4.0 percent or the average extraction is greater than 3.5 percent. If the stockpile is rejected, the stockpiled material may be blended with other material.

818.02 A Performance Graded (PG) Asphalt Cement **PAGE 474** **10/01/17**

Replace the first and second paragraph with the following:

If the Performance Graded (PG) asphalt cement called for in the plans contains an S, H, V, or E designation, use PG asphalt cement that meets AASHTO M 332. In all other cases use PG asphalt cement that meets AASHTO M 320.

Base asphalt may be modified with Polyphosphoric Acid (PPA). PPA may make up no more than 0.50 percent of the finished binder, by weight.

818.02 E.2 Modified Cationic Emulsified Asphalt**PAGE 474****10/01/16**

Replace the second paragraph of Section 818.02 E.2 with the following:

Use asphalt with a maximum 3.0 percent oil distillate by volume of emulsified asphalt when tested according to AASHTO T 59, Residue and Oil Distillate by Distillation on Emulsified Asphalt. Use the manufacturer's recommended distillation temperature when using CRS-2P emulsion.

818.03 Bituminous Materials for Micro Surfacing**PAGE 475****10/01/15**

Replace Table 818-01 with the following:

Table 818-01

| Test | Specification | Requirement |
|---|----------------------|--------------------|
| Settlement and Storage Stability of Emulsified Asphalts, 24-h | AASHTO T 59 | 1% Minimum |
| Distillation of Emulsified Asphalt ¹ | AASHTO T 59 | 62% Minimum |
| Tests on Emulsified Asphalt Residue | | |
| Softening Point of Bitumen (Ring and Ball Apparatus) | AASHTO T 53 | 135°F Minimum |

¹ Hold the temperature for this test at 350°F for 20 minutes.

822.01 General**PAGE 477****10/01/17**

Replace the second paragraph with the following:

Use an Alkyl-Alkoxysilane organosilicon compound.

Replace the second bullet in the third paragraph with the following:

- Contains 100 percent active solids;

Replace the last bullet in the third paragraph with the following:

- Treated concrete is surface dry a maximum of 4 hours after application.
-

822.02 TESTING**PAGE 477
10/1/17****10/01/16 &
10/1/17**

Replace the first sentence of Section 822.02 with the following:

Provide a repellent that, when applied to concrete, meets the following requirements:

Add the following to Section 822.02:

C. Scaling Resistance to Deicing Chemicals.

| Test | Duration | Visual Rating | Method |
|--------------------|-----------|------------------|------------|
| Salt Water Ponding | 50 Cycles | 0 at 25 cycles | ASTM C 672 |
| | | ≤ 3 at 50 cycles | ASTM C 672 |

826.02 B.1 Sealant

Page 479

10/01/16

Replace Section 826.02 B.1 with the following:

1. Sealant.

Provide a one-part silicone joint sealant that meets the requirements of ASTM D 5893, Type NS and the following:

- Low modulus; and
- Is capable of withstanding repeated joint movement between 50 percent shrinkage and 100 percent expansion without losing adhesion to the concrete and without cohesion failure.

826.02 B.2 Backer Rod

PAGE 479

10/01/16

Replace the first paragraph of Section 826.02 B.2 with the following:

Use backer rod that meets the requirements of ASTM D 5249, Type 1 or Type 3.

830.01 CONCRETE PIPE AND DRAINAGE STRUCTURES

PAGE 480

10/01/16

Replace Section 830.01 with the following:

830.01 CONCRETE PIPE AND DRAINAGE STRUCTURES

The Department will evaluate the fabricator's concrete pipe plant according to Department procedures described in Field Sampling and Testing Manual, Quality Assurance Program for Prestressed and Precast Concrete Products. The results of this evaluation will determine if the material may be accepted by certificate of compliance as specified in Section 106.01 C "Certificate of Compliance."

Use an ACPA or NPCA certified plant in the construction.

A. Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe.

Provide pipe that meets AASHTO M 170, M 206, or M 207 for the specified diameters and strength class except use aggregates that meet the requirements in:

- Table 802-02 of Section 802.01 C.2 "Course Aggregate"
- Table 802-05 of Section 802.01 C.3 "Fine Aggregate"

B. Work Drawings.

Provide work drawings for Class IV and V Pipes that include:

- Reinforcing steel layouts;
- Type and strength of concrete and reinforcing steel;
- All concrete and reinforcing dimensions;
- Installation and handling instructions; and
- Design calculations.

Submit calculations and work drawings that are signed, sealed, and dated by a Professional Engineer registered in the State of North Dakota as set forth in NDCC Title 43.

C. Fasteners and Tie Bolts.

Provide tie bolts and nuts that are of steel meeting ASTM A 307 Grade A. Provide steel washers that meet ASTM A 1008 or ASTM A 1011. Provide fastener castings that are gray iron castings that meet ASTM A 48 Class 20.

834.03 A.2 Rotational Capacity Testing of Assemblies

PAGE 483

10/01/16

Replace Section 834.03 A.2 with the following:

2. Rotational Capacity Testing of Assemblies.

Perform the rotational capacity test according to ASTM A 325, except as modified by this specification.

a. General.

Perform rotational capacity tests on all bolt, nut, and washer assemblies before shipping.

If galvanized parts are required, perform the rotational capacity test after galvanization.

Washers are required as part of the tests even if the final assembly does not require washers.

b. Assemblies.

Test each combination of bolt lot, nut lot, and washer lot as an assembly.

c. Rotational Capacity Lot Numbers.

Assign each combination of lots a rotational capacity lot number. Washers do not need to be identified as part of the assembly lot if they are not required in the final assembly.

d. Testing Frequency.

Test a minimum of two assemblies per rotational capacity lot.

e. Testing Device.

Use a Skidmore-Wilhelm Calibrator, or an approved alternate, to perform the rotational capacity tests.

Test bolts that are too short for the Skidmore-Wilhelm Calibrator in a steel joint. The tension requirements of Table 834-02 do not apply. Compute the maximum torque required in Section 834.03 A.2.g, "Results" using a value of "P" equal to the Turn Test Tension in Table 834-02.

f. Performance of the Test.

The minimum rotation from initial tightening (10 percent of the specified proof load) shall be as specified in Table 834-01.

Table 834-01

| Bolt Length | Amount of Turn |
|------------------------------------|--------------------------|
| Length ≥ 4 diameters | 240 degrees (2/3 turn) |
| 4 diameters < Length ≤ 8 diameters | 360 degrees (1 turn) |
| Length > 8 diameters | 480 degrees (1-1/3 turn) |

The tension reached at the rotation specified in Table 834-01 shall be equal to values for the Turn Test Tension shown in Table 834-02.

Table 834-02

| | | | | | | | | | |
|------------------------------------|------------|------------|------------|------------|----------|--------------|--------------|--------------|--------------|
| Diameter (in) | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 | 1-3/8 | 1-1/2 |
| Installation Tension (kips) | 12 | 19 | 28 | 39 | 51 | 56 | 71 | 85 | 103 |
| Turn Test Tension (kips) | 12 | 22 | 32 | 45 | 59 | 64 | 82 | 98 | 118 |

g. Results.

After exceeding the Installation Tension specified in Table 834-02, obtain and record a reading of the tension and torque.

The maximum torque (T) shall be equal to 0.25 the measured bolt tension (P) and the bolt diameter (D):

$$T \text{ (foot pounds)} \leq 0.25 \times P(\text{pounds}) \times D(\text{feet})$$

856.01 A General

PAGE 495 10/01/15

Replace the "Slope Gradient" row in Table 856-01 with the following:

| | | | | |
|----------------------------|---------|-----------------|---------|------------------|
| Slope Gradient Application | ≤ 3H:1V | < 3H:1V - 2H:1V | ≤ 2H:1V | < 2H:1 - 1.5H:1V |
|----------------------------|---------|-----------------|---------|------------------|

860.02 A Barbed Wire

PAGE 501 10/01/15

Replace Section 860.02 A with the following:

A. Barbed Wire.

Provide barbed wire that meets the requirements of AASHTO M 280. Provide wire that has a minimum gage of 12½ and at least 2 point barbs.

860.02 B Woven Wire

PAGE 501 10/01/15

Replace Section 860.02 B with the following:

Provide woven wire that meets the requirement of AASHTO M 279, Design Number 939-6-12½.

862.03 E W-Beam Guardrail End Treatments

PAGE 504 10/1/17

Replace the first paragraph with the following:

Provide W-beam guardrail end treatments that meet the requirements of MASH TL-3.

Replace the Section 862.04 C with the following:

C. 3-Cable.

Provide round treated timber posts used for three-cable guardrail that are between 4.5 and 6.5 inches in diameter.

Replace Section 880.02 B.2 with the following:

2. Color.

Provide material that meets the requirements of Table 880-03 and 880-04 when tested in accordance with ASTM D 2805.

**Table 880-03
CIE Chromaticity limits using illuminant "C" for Yellow Epoxy**

| | | | | |
|---|-------|-------|-------|-------|
| x | 0.470 | 0.485 | 0.520 | 0.048 |
| y | 0.440 | 0.460 | 0.450 | 0.420 |

**Table 880-04
Daylight Directional Reflectance (Y)**

| Color | Minimum Value |
|--------|---------------|
| White | 83 |
| Yellow | 50 |

Replace Section 885.01 E.1 with the following:

1. Cast Iron.

Provide cast iron panels with a minimum thickness of 0.2 inches. Use either grey cast iron that meets AASHTO M 105, Class 35 B or use ductile cast iron that meets ASTM A 536, Grade 65-45-12. Provide panels without a surface coating and allow the panels to transition to the iron's natural patina.

Delete the second paragraph from Section 894.03 A.1:

Replace Section 894.05 A with the following:

A. General.

Galvanize all materials requiring galvanization according to Section 854, "Galvanizing" after fabrication.

Submit work drawings for all structures for overhead signs according to Sections 105.08 A.3, "Additional Section 600 Work Drawing Submittal Requirements".

1. Welding.

a. General.

Perform all steel welding according to the specifications for welding of steel structures in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

b. Treatment of Welded Areas.

Punch a minimum 3/4 inch hole into chords to facilitate galvanizing the struts and diagonal tubes. Provide two 1/2 inch holes at the top and bottom of the chords on the capped end to facilitate galvanizing. Provide on the end tower vertical columns two 1/4 inch holes in the base plate and two 3/4 inch holes at the top of each column to facilitate galvanizing.

c. Repair Galvanization.

Repair damaged galvanization according to Section 854, "Galvanizing".

894.05 B.2 Round-Tapered or Octagonal-Tapered Tubes

PAGE 523

10/1/16

Replace the second paragraph of 894.05 B.2 with the following

Retain major dimensions, such as truss cross section and length, and end towers vertical dimensions. If this option is chosen, furnish to the Engineer all necessary calculations and drawings used in designing these structures. Design the structures according to the latest issue of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. Use a wind velocity of 90 mph to compute the wind pressures on the signs and structures.

895.05 A General

PAGE 528

10/01/16

Replace Section 895.05 A with the following:

A. General.

Design lighting poles to meet the requirements of AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

When a breakaway base is required, provide a manufacturer certification that the light standard base meets the AASHTO requirements for both breakaway and structural adequacy.

Use a wind velocity of 90 mph with the following height and exposure correction factor:

- If the traffic signal is less than 33 feet use a K_z^a of 1.00; or
- If the traffic signal is greater than 33 feet use the K_z^a found in Table 3.8.4-1 "Height and Exposure Factors, K_z^a ".

Apply different wind pressures to the structure at different heights rather than using an average wind pressure for the entire height of the structure.

Design each structural component on light standards 55 feet or greater for fatigue using the requirements of Table 11.6-2, "Fatigue Importance Categories for HMLT's".

Furnish all the necessary calculations and drawings used in the design of poles with the shop drawing submittal. A Professional Engineer duly registered in the State of North Dakota must sign, seal, and date the calculations and work drawings used in the design of lighting standards.

Replace the first paragraph with the following:

Use cables that are rated for 600 volts and meet IMSA 19-1 or 20-1.

Delete the fifth paragraph.

Replace Section 896.05 A with the following:

A. Design.

Design traffic signal standards to meet the requirements of AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

Use a wind velocity of 90 mph with the following height and exposure correction factor:

- If the traffic signal is less than 33 feet use a K_z^a of 1.00; or
- If the traffic signal is greater than 33 feet use the K_z^a found in Table 3.8.4-1 “Height and Exposure Factors, K_z^a ”.

Apply different wind pressures to the structure at different heights rather than using an average wind pressure for the entire height of the structure.

Design each structure component using the requirements of Table 11.6-1, “Fatigue Importance Factors, I_F .”

Design the components for the total deflection, with galloping, at the free end of the traffic signal arm is limited to less than 8 Inches.

Furnish all the necessary calculations and drawings used in the design of poles with the shop drawing submittal. A Professional Engineer duly registered in the State of North Dakota must sign, seal, and date the calculations and work drawings used in the design of lighting standards.

Replace the 3 with the following:

3. Provide a metal weatherproof cover that blocks air flow in cold weather, and adequately covers the fan vent assembly and the louver on the door. Install a gasket to the cover and attach the cover to the inside of the cabinet. Construct the cover of the same material as the cabinet.

Provide a weep hole in the bottom loop on each end of the cabinet full-size door.

Build the cabinet to contain the following items:

- All items of control equipment specified in these Specifications.
- Provide a thermostatically-controlled minimum 250 watt strip-type heater mounted on the full-size door cover with a protective wire-mesh shield installed around the heater. Use a heavy-duty thermostat capable of being set within a temperature range of 30°F to 90°F. Activate the power to the fan and to the heater using a three-position toggle switch located on the auxiliary switch panel.

Use a switch that operates vertically up and down with the:

- Up position being FAN (power to the fan on and power to the heater off);
- Center position being OFF (power to both the fan and the heater off); and
- Down position being HEATER (power to the heater on and power to the fan off).

Provide an electrical three-prong twist lock-type plug between the switch and the heater. Mount the heater thermostat on the auxiliary switch panel. Make the connection to the heater with stranded copper wire having 200°C insulation and non-insulated, solderless terminals.

- Provide three duplex receptacles with ground fault interrupter. Fuse the receptacles ahead of the main circuit breaker.
- Provide a switched lamp socket, fuse the lamp socket ahead of the main circuit breaker.
- Include the following in the maintenance switches inside the cabinet:
 - Stop time control.
 - Timer power.
 - Flash.
 - Vehicle detector input for each phase in use and all future phases.
 - Pedestrian input for each phase in use and all future phases.

10/1/2014

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
PRICE SCHEDULE FOR MISCELLANEOUS ITEMS (PS-1)**

The Contractor agrees to accept the following unit prices for each listed item of work and or material when no project contract unit price exists for that item. Each price listed will be full compensation for the cost of labor, material and equipment necessary to provide the item of work and/or material, complete in place, including (but not limited to) royalty, disposal of unsuitable material, equipment rental, sales tax, use tax, overhead, profit, and incidentals.

Each listed item is referenced to the Standard Specifications by Section number and Section name.

| SECTION NO. | SECTION NAME | ITEM NAME | PRICE PER ITEM |
|-------------|---|-------------------------------------|--|
| 107.08 | Haul Roads | Water | \$27 per M Gal |
| 107.08 | Haul Roads | Bitumen for Mix | Invoice Price ¹ + 10% |
| 107.08 | Haul Roads | Bituminous Mix | \$42 per Ton ² |
| 107.08 | Haul Roads | Aggregate Base | \$17 per Ton ² |
| 203.01 B | Rock Excavation | Rock Excavation | \$11 per CY |
| 203.01 C | Shale Excavation | Shale Excavation | Common Excavation Price + \$1.00 per CY |
| 203.01 D | Muck Excavation | Muck Excavation | \$9 per CY |
| 203.05 H.3 | Embankment | Overhaul | \$1.40 per CY - Mile |
| 260 | Silt Fence | Mucking Silt Fence | \$3.90 per LF |
| 260 | Silt Fence | Removal of Silt Fence ³ | \$4.25 per LF |
| 261 | Fiber Rolls | Mucking of Fiber Rolls | \$3.90 per LF |
| 261 | Fiber Rolls | Removal of Fiber Rolls ³ | \$4.25 per LF |
| 420.04 E | Bituminous Seal Coat | Blotter Sand | \$27 per Ton ² |
| 430.04 G | Hot Mix Asphalt (Exc. Material Hauled to Disposal Area) | Bituminous Mixture | Machine Placed: Bid or Invoice Price + \$31 per ton Hand Placed: Bid or Invoice Price + \$48 per Ton |
| 704 | Temporary Traffic Control | Flagging | \$32 per MHR |

¹Price paid for bituminous material will be invoice price plus freight costs.

²Price Includes haul up to 10 miles. Payment for haul exceeding 10 miles will be according to Section 109.03 E, "Force Account." The haul distance for aggregate base and bituminous mix will be based on the average haul. The haul distance for blotter sand will be from the point where the haul begins to the point where it enters the project.

³This is only for pre-existing items that were not installed under the Contract.

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION:
 DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM**

PROJECT SU-5-983(059)059 (PCN-21723)

RACE/GENDER NEUTRAL GOAL: 0%

| NDDOT Contact Information | |
|--|--|
| Civil Rights Certification & Compliance System (CRCCS): https://dotnd.diversitycompliance.com/ may be used to post bid documentation. | |
| Contractor Sign In & Submit Advertisements https://apps.nd.gov/dot/cr/csi/login.htm | Amy Conklin, DBE Program Administrator 701-328-3116 - or - aconklin@nd.gov |
| Submit quotes and post-bid documentation to: subquotes@nd.gov or Fax: 701-328-0343 | Ramona Bernard, Civil Rights Division Director 701-328-2576 - or - rbernard@nd.gov |
| DBE Directory https://dotnd.diversitycompliance.com/ | All times are stated in Central Time. "Days" refers to calendar days, unless otherwise stated. |
| All subcontractors, suppliers, manufacturers, regular dealers, vendors, and brokers should fax or email quotes to the Department no later than 9 PM the day before each bid opening. | |
| All DBEs quoting on this project MUST submit all quotes and a list of contractors they quoted to NDDOT no later than 9 PM the day before each bid opening. | |
| Prime contractors preparing to bid on NDDOT highway projects have requested that quotes be sent to them by: 2 PM Central - Suppliers (brokers/regular dealers), vendors, & manufacturers 5 PM Central - Subcontractors under \$500,000 8 PM Central - Subcontractors over \$500,000 | |

PURPOSE

These provisions:

1. Provide an explanation of the federal law and information regarding compliance with the DBE requirements applicable to this contract
2. Explain the process NDDOT will follow to evaluate bidders' efforts to obtain DBE participation
3. Provide the standards NDDOT will use to measure compliance with the requirements
4. Identify sanctions

FEDERAL AUTHORITY

The following paragraph must be included in all subcontracts of all tiers in accordance with 49 CFR § 26.13(b):
 The contractor or all tiers of subcontractors shall not discriminate on the basis of race, color, sex, sexual orientation, gender identity, national origin, age, or disability in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR § 26.13 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as NDDOT deems appropriate which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

It is the prime contractors' responsibility to ensure all tiers of subcontractors, brokers, manufacturers, suppliers, vendors, and regular dealers comply with the requirements of this special provision. In addition, the prime contractor has the responsibility to monitor DBE performance on the project, and to ensure that the DBE performs a commercially useful function (CUF).

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All bidders and all subcontractors over \$500,000 (regardless of whether they are apparent low bidder or their quote was used on a project in this bid opening) are strongly encouraged to submit copies of all quotes received or submit SFN 52013-List of Businesses Submitting Quotes within 7 calendar days of the bid opening. This process is necessary in identifying “ready, willing, and able” contractors upon which to base the NDDOT Triennial DBE Goal. The number of contractors and the types of work they have bid/quoted will be used in the calculation of the DBE goal for each goal setting period.

APPARENT LOW BIDDER REQUIREMENT

Apparent Low Bidders (ALB) must submit post-bid documentation no later than 4 PM 5 days after the bid opening. Prime contractors are encouraged to submit their post-bid documentation in one electronic file.

Contract award will be made to the lowest responsible bidder whose proposal substantially complies with the requirements prescribed herein. Any DBE Participation counts toward the Department’s DBE Goal.

The project may be awarded only after the ALB submits all documentation by 4 PM five (5) calendar days after the Bid Opening (as required by 49 CFR § 26.53(b)(3)(i)(B)).

The ALB must submit [SFN 52160](#), Form C - [Notification of Intent to Use](#) for each DBE used, any Form A revisions on [SFN 52012](#), and quote copies or SFN 52013 [Form B - List of Businesses Submitting Quotes](#) (Form instructions begin on page 9 of this special provision.)

If you have submitted the documentation including Form B and Form C(s), you have completed your pre-award requirements. If no DBEs are to be used on the project, no Form C is required.

To maximize subcontracting opportunities the following actions are encouraged.

ADVERTISE

All DBE and Non-DBE prime contractors and all subcontractors (over/under \$500,000), vendors, regular dealers/suppliers, and manufacturers, are encouraged to advertise using one of the two options:

OPTION 1: Place an advertisement soliciting DBE participation using the **DBE Advertisement System** at <https://apps.nd.gov/dot/cr/csi/login.htm>. Advertisements will be published to the NDDOT website if received by noon, 15 calendar days before the bid opening.

OPTION 2: Directly contact by email or fax, all DBEs certified in the specific NAICS (work type) required. Use the DBE Directory to determine the DBE firms certified in the work to be subcontracted.

SIGN IN

All bidders and all subcontractors over \$500,000 are encouraged to announce their intention to bid and/or receive quotes on specific jobs by using the Department's **Bid Opening Sign-In System**.

The **Bid Opening Sign-In** web application is located at <https://apps.nd.gov/dot/cr/csi/login.htm>.

- Sign-In opens at 8 AM seven days prior to the bid opening and closes at 11 AM the day before the bid opening. The Bid Opening Contact Report is available after the sign in closes at: <https://apps.nd.gov/dot/cr/csi/public/listBidOpenings.htm>

RECEIVE & EVALUATE ALL QUOTES GIVEN

All prime contractors and all subcontractors over \$500,000 should receive and evaluate all quotes offered, whether the quotes are calculated by ton-mile, hour, acre or square mile, and whether work elements are intended to be subcontracted. It is the responsibility of any firm receiving quotes to convert the quotes to an acceptable format.

All quotes given for each job should be faxed or emailed to prime contractors or subcontractors no later than the day before the bid opening. Subcontractors interested in work on the advertised jobs are encouraged to quote all contractors on the Sign-In report.

POST-AWARD REQUIREMENTS

PRIME CONTRACTOR'S MONITORING, RESPONSIBILITIES, REPORTING

For the life of the project, the prime contractor is responsible for the DBEs listed on Form C and for the specific spec/code items or products that the prime committed to during the award process.

The prime contractor is responsible to:

- Report payments to DBEs. The Civil Rights Certification & Compliance System (CRCCS) may be used to report payments on the contract.
- Invite and encourage all subcontractors and all DBEs listed on Form C to the pre-construction conference.
- Provide minutes to any DBE not in attendance at the pre-construction conference.
- Ensure their company as well as any subcontractors, manufacturers, and regular dealers/suppliers comply with the requirements of this special provision.
- Provide all subcontractors with Proposed Project Schedules and any necessary updates.
- Monitor DBE performance on the project.
 - Submit SFN 60638, Monthly Record of DBE Project Payments for each DBE on the project, by the 15th calendar day of every month while payments are made to the DBE.
 - Submit SFN 60597, DBE Performance – Commercially Useful Function Certification to the Engineer with SFN 5682, Prime Contractor's Request to Sublet. Project engineers will not approve the Requests to Sublet without the CUF Certification.
- Maintain project records and documentation of payments to DBEs for three years following acceptance of the final payment from NDDOT (per FHWA-1273, Section II Nondiscrimination #11).

- Submit SFN 14268, DBE Participation Certification for each DBE, to the project engineer within 4 weeks of the DBE contract work completion. Each certification must be signed by the prime contractor and DBE used on the project.
 - This reporting requirement also applies to any certified DBE.
 - NDDOT may perform interim audits of contract payments to DBEs to ensure that the actual amount paid to DBEs equals or exceeds the dollar amount stated on Form C.
 - Make these records available for inspection, upon request, by an authorized representative of the NDDOT or USDOT.
- **Payments on the contract may be entered and stored in the CRCCS. Use of CRCCS on the project eliminates the requirement to submit SFN 60638 and SFN 14268.**
- If SFN 60597, SFN 60638, and/or SFN 14268 are not received in a timely manner, progress payments will be withheld until submitted.

MONITORING AND ENFORCEMENT MECHANISMS

The Department will bring any false, fraudulent, or dishonest conduct in connection with the DBE program to the attention of USDOT. USDOT may pursue action as provided in 49 CFR § 26.107. Actions include referral to the Department of Justice for criminal prosecution or referral to the USDOT Inspector General for action under suspension and debarment, or Program Fraud and Civil Remedies rules. The Department will also consider similar action under its own legal authority, including responsibility determination in future contracts.

COMMERCIALLY USEFUL FUNCTION

DBEs are required to perform a commercially useful function (CUF). CUF refers to those services the DBE is certified to perform. Certified services for each DBE are listed in the online DBE Directory. It is a DBE's responsibility to immediately notify the prime contractor in writing if the DBE is unable to perform a CUF or the services indicated on Form C.

The contractor must certify that DBEs working on the prime's contract are performing a commercially useful function. Submit SFN 60597, DBE Performance – Commercially Useful Function Certification to the project engineer with SFN 5462, Prime Contractor's Request to Sublet. Project engineers will not approve the Requests to Sublet without the CUF Certification. A review of the certification must be performed by the project engineer to determine whether the contract dollar value of the DBE's work may be counted toward the project goal.

The Department counts participation to a DBE contractor toward DBE goals only if the DBE is performing a CUF on that contract.

- A. A DBE performs a CUF when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a CUF, the DBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material, installation and paying for the material itself. 49 CFR § 26.55(c)(1)
- B. A DBE does not perform a CUF if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of DBE participation. 49 CFR § 26.55(c)(2)
- C. If a DBE does not perform or exercise responsibility for at least 30 percent of the total cost of its contract with its own work force, the Department must presume that it is not performing a CUF. 49 CFR § 26.55(c)(3)
- D. When a DBE is presumed not to be performing a CUF as provided in paragraph C (above), the

DBE may present evidence to rebut this presumption. 49 CFR § 26.55(c)(4)

- E. The Department's decisions on CUF matters are subject to review by Federal Highway Administration, but are not administratively appealable to USDOT. 49 CFR § 26.55(c)(5)

COUNTING RACE/GENDER NEUTRAL DBE PARTICIPATION - 49 CFR § 26.55

The Department does not count the participation of a DBE subcontractor toward a contractor's final compliance with its DBE obligations on a contract until the amount being counted has actually been paid to the DBE. 49 CFR § 26.55 (h)

The Department will count DBE participation toward our overall annual goal as provided in 49 CFR § 26.55 as noted below.

1. The Department will use the following factors in counting DBE trucking participation.
 - A. For purposes of this section, a lease must indicate that the DBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. Leased trucks must display the name and identification number of the DBE. 49 § 26.55(d)(7)
 - B. The DBE must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract. 49 CFR § 26.55(d)(1)
 - C. The DBE must itself own and operate at least one fully licensed, insured, and operational truck used on the contract and receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs. 49 CFR § 26.55(d)(2-3)
 - D. The DBE may lease trucks and drivers from another DBE firm and receives credit for the total value of the transportation services the lessee DBE provides. 49 CFR § 26.55(d)(4)
 - E. The DBE may also lease trucks with drivers and is entitled to credit for the total value of transportation services provided by non-DBE leased trucks equipped with drivers not to exceed the services under items 1C and 1D. Additional participation by non-DBE owned trucks equipped with drivers receives credit only for the fee or commission it receives as a result of the lease arrangement. 49 CFR § 26.55(d)(5)

Example to 1D: DBE Firm X uses two of its own trucks on a contract. It leases two trucks with drivers from DBE Firm Y and six trucks with drivers from non-DBE Firm Z. DBE credit would be awarded for the total value of transportation services provided by Firm X and Firm Y, and may also be awarded for the total value of transportation services provided by four of the six trucks provided by Firm Z. In all, full credit would be allowed for the participation of eight trucks. DBE credit could be awarded only for the fees or commissions pertaining to the remaining trucks Firm X receives as a result of the lease with Firm Z.

- F. The DBE may lease trucks without drivers from a non-DBE truck leasing company and if the DBE uses its own employees as drivers, it is entitled to credit for the total value of these hauling services.

Example to paragraph 1F: DBE Firm X uses two of its own trucks and drivers on a contract. It leases two additional trucks and drivers from non-DBE Firm Z. Firm X uses its own employees to drive the trucks leased from Firm Z. DBE credit would be awarded for the total value of the transportation services provided by all four trucks. 49 § 26.55(d)(6)

2. Only the value of the work actually performed by the DBE counts toward the project goal when a DBE participates in a contract provided the DBE is certified in this work.
 - A. The Department counts the entire amount of that portion of a construction contract, or other contract not covered by item 2. B, that is performed by the DBE's own forces. Included are the cost of supplies and materials obtained by the DBE for the work of the contract, including supplies purchased or equipment leased by the DBE (except supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate). 49 CFR § 26.55 (a)(1)

- B. The Department counts the entire amount of fees or commissions charged by a DBE firm for providing a bona fide service for which they are certified, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a USDOT-assisted contract, toward DBE goals, if the Department determines the fee to be reasonable and not excessive. 49 CFR § 26.55 (a)(2)
 - C. When a DBE subcontracts part of the work of its contract to another firm, the value of the subcontracted work may be counted toward DBE goals only if the DBE's subcontractor is also a DBE. 49 CFR § 26.55 (a)(3)
3. The Department counts expenditures with DBEs for materials or supplies toward DBE goals as provided in the following:
 - A. If the materials or supplies are obtained from a DBE manufacturer, count 100% of the cost of the materials or supplies toward DBE goals. 49 CFR § 26.55 (e)(1)(i)
 - B. If the materials or supplies are purchased from a DBE regular dealer, count 60 percent of the cost of the materials or supplies toward DBE goals. 49 CFR § 26.55 (e)(2)(i)
 - C. Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not regular dealers within the meaning of 3B (above) 49 CFR § 26.55 (e)(2)(ii)(C)
 - D. With respect to materials or supplies purchased from a DBE which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, toward DBE goals, if the Department determines the fees to be reasonable and not excessive. Do not count any portion of the cost of the materials and supplies themselves toward DBE goals, however. 49 CFR § 26.55 (e) (3)
 - E. The Department determines the amount of credit awarded to a firm for the provisions of materials and supplies (e.g., whether a firm is acting as a regular dealer or a transaction expeditor) on a contract-by-contract basis. 49 CFR § 26.55 (e)(4)
 4. If a firm is not currently certified in ND at the time of the execution of the contract, the Department does not count the firm's participation toward any DBE goal. 49 CFR § 26.55 (f)
 5. The Department does not count the dollar value of work performed under a contract with a firm after it has ceased to be certified toward the Department's overall annual goal. 49 CFR § 26.55 (g)

DEFINITIONS

The definitions specified below apply only to this Special Provision and may contain differences from NDDOT Standard Specifications.

Achievement means any DBE certified service dollar amount committed to at the time of award. Any achievement must be supported by a request to sublet and Monthly DBE Payment Records for each DBE.

Aggregate providers are considered subcontractors rather than regular dealers/suppliers, regardless of the amount of their quote.

Apparent low bidder (ALB) means the bidder whose bid is read as low bid at the bid opening.

Bid Opening Sign-In System means the Department's online system to which all prime contractors and subcontractors must register to indicate their interest in quoting or bidding prior to each bid opening.

Bidder means a contractor intending to serve as the prime contractor for highway construction projects.

Blanket quote means when a business provides the same quote, for all projects, at a bid opening, using the same price at one rate, which is not project specific. Blanket quotes for the construction season are not allowed, i.e. trucking, striping, signing, construction supplies, etc.

Commercially Useful Function (CUF) describes a DBE's responsibilities and involvement in a project, see section Commercially Useful Function of this SP.

Commitment means the dollar amount of work the DBE will complete as stated in the bidder's proposal.

Contractor means all DBE and non-DBE firms, including prime contractors, brokers, vendors, regular dealers/suppliers, and manufacturers at any tier.

DBE Goal means a percentage of the total contract targeted for the hiring of DBE subcontractors to do specific

bid items for which the DBE has been certified to perform. Project goals are set by assessing the project's bid items, location, whether DBEs are available to do the work.

DBE Participation means the percentage achieved when the dollar amount committed to the DBE is divided by the dollar amount of all contract items.

DBE Participation Review summarizes the prime's participation at the time of award. A replacement approval request must be submitted to substitute a firm for any DBEs reported as being used at the time of award.

Department means the project owner regardless of whether the owner is NDDOT, a city or a county project.

Disadvantaged business enterprise or DBE means a for-profit small business concern that is certified by the Department and listed in the DBE Directory available on the Department's web site. DBEs must first be certified in the work intended before any DBE achievement may be counted toward the project goal.

Equipment supplier is a firm which provides equipment for sale or lease, without operators, and whose primary business function is equipment sales or leasing.

Manufacturer means a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications. 49 CFR § 26.55 (e) (1) (ii)

Materials means aggregate, steel, petroleum products, concrete, asphalt, and other construction supplies.

NAICS Codes means industry codes assigned by North American Industry Classification System. When certified, DBE businesses are assigned NAICS codes which are identified in the DBE Directory.

NDDOT Civil Rights Certification & Compliance System (CRCCS) refers to the online compliance reporting system whereby contractors report/submit job related payments, commitments, and Utilization Plan documentation.

Positive Contact means active and documented solicitation of DBE and other subcontractors. Advertising the prime's intention to bid, using the Contractor sign in to notify DBEs and other subcontractors of the jobs the prime is interested in, and contacting individual DBEs is deemed positive contact.

Prime contractor means bidders who are submitting proposals on this project, regardless of the size of the project.

Project owner means any political subdivision such as a city or county which provides match to federal highway funds and uses NDDOT's electronic bidding system to let their projects to bid. The Department "owns" state projects.

Quoter means DBE or a non-DBE subcontractors, brokers, vendors, regular dealers/suppliers, and manufacturers at any tier who submits quotes to another contractor.

Race/Gender Neutral (RGN) means a zero (0) percent goal that is used to assist all small businesses. Please note, NDDOT intends to achieve its overall DBE goals via RGN means; 3.47 percent is the Department's RGN goal.

Responsible Bid Proposal means a bidder's proposal in which the project goal has been achieved, or the bidder demonstrates Good Faith Efforts (GFE) as outlined in this Special Provision timely.

Subcontractor means any firm intending to perform work, or intending to perform work and supply the materials, which were intended for their work on the project. All subcontractors must attach a list of DBE subcontractors intended for use to their quote when submitting it to the prime contractor.

Supplier means a party providing goods, services, and supplies on the project.

Broker means an agent who, without having custody of the property, a) negotiates contracts of purchase, work, lease, or sale; b) buys and sells goods; or c) negotiates between buyers and sellers. See Counting DBE Participation section.

Regular Dealer means a DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials supplies, articles, or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. See Counting DBE Participation section.

Tier means various levels of contractors on the job. For example a prime contractor's subcontractor (B) is referred to as the second tier. When B subcontracts with C, C becomes the third tier, etc.

Tied quote means the quote will be considered only if all of the bid items are included.

Untied quote means that any item or group of items quoted may be used for price noted on the quote whether one or all are used.

Utilization Plan (UP) is completed and submitted electronically by the prime to identify non-DBE subcontractors and DBE participation on a given project. (Example follows) – User Manual is available as a resource from a link on the first page of the UP.

Utilization Plan: Submit Plan

[Help & Tools](#)

This Utilization Plan is ready to be completed and submitted. Complete steps 1, 2, and 3 (if applicable) before you sign and submit. Follow the instructions for each step. **Firms that do not perform commercially useful functions may not be counted toward DBE utilization**

This is a practice Utilization Plan. You can enter data, subcontractors or other suppliers without messing anything up. I just wanted to be sure that if we had the contact information correct prior to setting up the plan, we could get the UP to the correct person in a timely manner.

This is a practice Utilization Plan. You can enter data, subcontractors or other suppliers without messing anything up. I just wanted to be sure that if we had the contact information correct prior to setting up the plan, we could get the UP to the correct person in a timely manner.

[User Manual](#) [Refresh](#)

| Utilization Plan Summary | |
|--------------------------|---|
| Organization | North Dakota Department of Transportation |
| Proposal | 11111: Practice Proposal & Utilization Plan |
| Reference | 11111 |
| Phase | Original, version 0 |
| Status | ⓘ Pending Submission |
| Notification Date | 8/17/2016 by Denise Spanjer |
| Due Date | 8/17/2016 5:00 pm US/Central |

Step 1: Provide Utilization Plan Information

Use this section to provide information on the plan. Click the button to **Fill in Utilization Plan Details**.

| Utilization Plan Information | |
|----------------------------------|-------------|
| Estimated Bid/Transaction Amount | \$2,000,000 |

Step 2: Provide Subcontractor Information

Use this section to add subcontractors to the Utilization Plan, if applicable. Click the **Add Subcontractor** button to get started. **Firms that do not perform commercially useful functions may not be counted toward DBE utilization.**

| Certification Types Recognized for this Utilization Plan | |
|---|---|
| Firms selected for credit on this utilization plan must hold one of the recognized certification types listed in this box. | |
| Organization | Certification Type |
| North Dakota Department of Transportation | DBE - Disadvantaged Business Enterprise |

| Prime Contractor | | | | | | |
|--|------|-------------|-------------|------------------------|---------------|---------------------------|
| Vendor Name | Cert | Inc in Goal | \$ Total | \$ Self Perf | \$ For Credit | Actions |
| <input type="checkbox"/> NDDOT Test Vendor 2 | No | No | \$2,000,000 | \$2,000,000 100.00% | - | Edit View |

Instructions for submitting forms:

SFN 52012 – FORM A – DBE PARTICIPATION

The original Form A is submitted as part of the bidder’s electronic bid proposal. Apparent low bidders must submit a revised Form A ([SFN 52012](#)) before the deadline if:

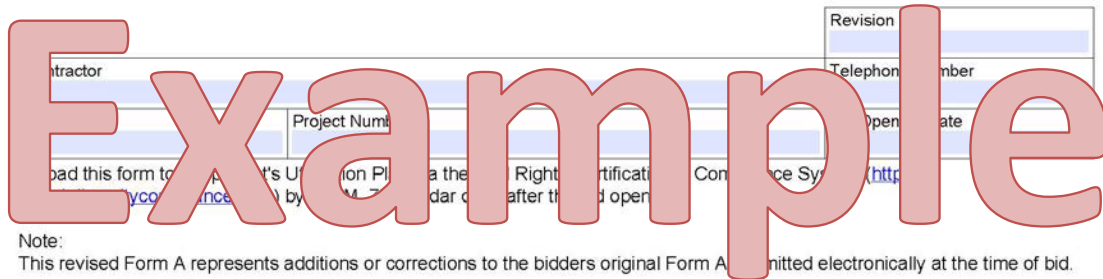
- Additional DBE Participation is achieved after the time of bid,
- Electronic Form A was incorrectly completed, or
- By request of the Department.

Download SFN 52013 from the NDDOT Website at: <http://www.dot.nd.gov/forms/sfn52012.pdf>

All subcontractors over \$500,000 must submit Form A (SFN 52012) with their quotes to bidders and to NDDOT. Bidders should account for any intended use of DBEs by their subcontractors in order to more accurately reflect their DBE participation.

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (RGN)
 North Dakota Department of Transportation, Civil Rights
 SFN 52012 (8-2016)

FORM A



Note:
 This revised Form A represents additions or corrections to the bidder's original Form A submitted electronically at the time of bid.

PRINT ALL NUMBERS CLEARLY AND LEGIBLITY

1. List DBEs your firm intends to use on this project. Participation counts toward the DBE Race/Gender Neutral goal.
2. List the DBEs to be used by subcontractors toward the project goal. Include the subcontractor's Form A listing the DBEs to be used by the subcontractor.
3. List the bid item numbers to be performed by DBEs and the total dollar value of the contract.
 DBE trucking firms: List hauling to be performed with own equipment and employees and any non-DBE trucks used as match.
4. DBE bidders: List the work to be performed with "own forces and equipment".
 Separately list any work to be subcontracted to DBEs and any materials to be purchased from DBEs.

| | |
|---|----------------------------|
| DBE Firm | |
| List Specific Bid Item Numbers or Products to be Supplied | |
| Total Contract Dollar Value | |
| Percent DBE will do with own equipment/forces = | |
| Percent Non-DBE trucker will perform = | If Regular Dealer, X 60% = |
| ADD FIRM | |

SFN 52013 – FORM B OR QUOTE COPIES

All bidders and subcontractors over \$500,000 must submit one of the following:

- Copies of all quotes from all tiers of subcontracting or,
- SFN 52013, [Form B - List of Businesses Submitting Quotes](#) with a list of all businesses that submitted quotes from all tiers of subcontracting. When submitting Form B, copies of all quotes must be retained, by each bidder, until the job is awarded.

Bidders must indicate which subcontractor(s), suppliers, regular dealers, vendors, manufacturers, and brokers will be used on the job.

Download SFN 52013 from the NDDOT Website at: <http://www.dot.nd.gov/forms/sfn52013.pdf>

LIST OF BUSINESSES THAT SUBMITTED QUOTES (RGN & RGC)

North Dakota Department of Transportation, Civil Rights
 SFN 52013 (8-2016)

FORM B - DUE BY 4 P.M. (CENTRAL) 7 CALENDAR DAYS AFTER THE BID OPENING

| | | |
|------------|-----------------|------------------|
| Contractor | Address | Telephone Number |
| PCN | Business Number | Business Name |

Contractor's name, telephone number, and address must be submitted to the project's location via the Diversity Certification & Compliance System (<https://dotnd.diversitycompliance.com>).

1. Copies of all quotes received from all tiers of subcontracting on the project.
2. Form B, SFN 52013: List all firms that submitted quotes from all tiers of subcontracting.

Use the check box to indicate which subcontractor will be used on the Job. When submitting Form B, copies of all DBE and non-DBE quotes must be retained until the project is awarded.

| | | | |
|---|-----------------------------------|----------------|------------------|
| X | <input type="checkbox"/> Business | Contact Person | Telephone Number |
| | Mailing or Email Address | | Type of Work |

ADD FIRM

SFN 52160 – INTENT TO USE

Submit one Form C - [Notification of Intent to Use](#) for each DBE or Non-DBE/BD to be used, through the Civil Rights Certification & Compliance System Utilization Plan.

The contractor and DBE and/or Non-DBE/BD must each sign the form; faxed or photocopied signatures are acceptable.

The apparent low bidder and their direct DBEs or their subcontractor(s) and the subcontractor(s) DBEs must submit signed copies of Form C (SFN 52160) before credit will be given toward DBE participation.

Download SFN 52160 from the NDDOT Website at: <http://www.dot.nd.gov/forms/sfn52160.pdf>

NOTIFICATION OF INTENT TO USE (RGN & RGC)
 North Dakota Department of Transportation, Civil Rights
 SFN 52160 (11-2016)

FOR THE APPARENT LOW BIDDER AND ALL DBE/BD PARTIES APPROXIMATELY 1 P.M. ON THE DAY BEFORE BID OPENING

The apparent low bidder shall submit individual Form C for each DBE/BD to be used on the project to subquotes@ndot.gov or fax to 701-328-3333.

The contractor and each DBE/BD shall sign this form. Fax or photocopy signatures acceptable. Form C to be submitted to the DBE/BD E-acknowledgment unit to be signed.

Example

- 3. If Form C contains additional pages or attachments, both parties must sign each page or attachment.
- 4. Explain any difference between the information on Form A and Form C in the comments section below.

This form is not a contract and does not take the place of any contract. This form indicates to the NDDOT that all DBEs identified on Form A will be used on the project.

| Prime Contractor or Subcontractor | | | | Project Number | | |
|-----------------------------------|------------------|--|------------------|------------------|------------|---------------|
| Intended DBE/ Non-DBE | | | | Bid Opening Date | Job Number | |
| Spec & Code # | Work Description | (DBE) Percent of work to be done with own forces | Approx. Quantity | Unit Costs | Amount | |
| X | | | | | | |
| ADD EXPENSE | | | | | | |
| | | | | | | Total: \$0.00 |

Are there any agreements not addressed in your quote? Yes No If yes, explain:

Comments: Use this space to explain any differences between the amounts, units, work descriptions, spec/code items, quantities, and totals between those indicated on Form A as submitted with the bid proposal and this Form C.

| | | |
|--|-------|------|
| Prime Contractor/Subcontractor Signature | Title | Date |
| Intended DBE/Non-DBE Signature | Title | Date |

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
EEO AFFIRMATIVE ACTION REQUIREMENTS**

March 15, 2014

Bidders shall become familiar with the following requirements and be prepared to comply in good faith with all of them:

APPENDIX A

Notice or Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246).

1. The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:
 - a. Goals for Female Participation in Each Trade – Statewide6.9%
 - b. Goals for Minority Participation in Each Trade by County:
Barnes, Cass, Dickey, Eddy, Foster, Griggs, LaMoure, Logan,
McIntosh, Ransom, Richland, Sargent, Steele, Stutsman, Traill0.7%
 - Grand Forks1.2%
 - Benson, Cavalier, Nelson, Pembina, Ramsey, Towner, Walsh2.0%
 - Burleigh, Morton0.4%
 - Adams, Billings, Bowman, Dunn, Emmons, Golden Valley, Grant,
Hettinger, Kidder, Mercer, Oliver, Sheridan, Sioux, Slope, Stark, Wells . . .1.3%
 - Bottineau, Burke, Divide, McHenry, McKenzie, McLean, Mountrail,
Pierce, Renville, Rolette, Ward, Williams4.4%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR 60-4 shall be based on its implementation of the Equal Opportunity Clause specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3 (a)

and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall notify the Office of Federal Contract Compliance Programs, in writing, within ten working days of award of any subcontract in excess of \$10,000. The notification shall include the name, address, and telephone number of the subcontractor and their employer identification number; dollar amount of the contract, estimated starting and completion dates of the contract; the contract number; and geographical area in which the contract is to be performed.

Notification should be sent to

U.S. Department of Labor/ESA
OFCCP
Denver District Office
1244 Speer Boulevard
Denver, Colorado 80202
Phone: 720-264-3200
Fax: 720-264-3211

4. As used in this "Notice" and in the contract for this project, the "covered area" is the State of North Dakota.

APPENDIX B

Standard Federal Equal Employment Opportunity Construction Contract Specifications
(Executive Order 11246)

1. As used in these specifications
 - a. "Covered area" means the geographical area described in the proposal from which this contract resulted.
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority.
 - c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. "Minority" includes:

- (1) Black (all persons having origins in any of the Black African racial groups, not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish Culture or origin, regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (4) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation of community identification)
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the proposal from which this contract resulted.
 3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft.
 5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 12466, or the regulations promulgated pursuant thereto.
 6. In order for the nonworking training hours of apprentices and trainees to be counted

in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor. (Training programs approved by the North Dakota Department of Transportation are recognized by the U.S. Department of Labor.)

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all Foremen, Superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources; provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its union have employment opportunities available, and maintain a record of the organization's responses.
 - c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union, or if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to

the sources compiled under 7b above.

- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the Company newspaper, annual report, etc., by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the Company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the Company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing it with the Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students, and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minorities and women, and where reasonable, provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of the Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring

- all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and Company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractors and Suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all Supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligation
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p) The efforts of a Contractor association, joint Contractor- union, Contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's, and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. Goals for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minorities, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm d - barred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termin -

tion, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60 4.8.
14. The Contractor shall designate a responsible official to monitor all employment-related activity to ensure that the Company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form, however, to the degree that existing records satisfy this requirement, Contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX A OF THE TITLE VI ASSURANCES**

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees as follows:

1. Compliance with Regulations: The Contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, the Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. Non-discrimination: The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. Information and Reports: The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Recipient or the Federal Highway Administration as appropriate, and will set forth what efforts it has made to obtain the information.
5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. Incorporation of Provisions: The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX E OF THE TITLE VI ASSURANCES**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*)

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

CARGO PREFERENCE ACT (CPA)

DESCRIPTION

The Federal Highway Administration (FHWA) in partnership with the Federal Maritime Administration (MARAD) has mandated the implementation of 46 CFR 381 making the cargo preference requirements applicable to the Federal Aid Highway Program.

The requirements of this Special Provision apply to items transported by ocean vessel.

CONTRACT REQUIREMENTS

A. General

Utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. Gross tonnage is computed separately for dry bulk carriers, dry cargo liners, and tankers.

Furnish a legible, English language copy of a rated 'on-board' commercial ocean bill-of-lading for each shipment of cargo described in the previous paragraph. Furnish the bill-of-lading within 20 days following the date of loading for shipments originating in the United States and within 30 working days following the date of loading from shipments originating outside the United States.

Furnish bills-of-lading to the Engineer and to the following:

Division of National Cargo
Office of Market Development
Maritime Administration
Washington, DC 20590

B. Subcontracts

Include the language in Section "A, General" of this Special Provision in all subcontracts issued pursuant to this contract.

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**CONTRACT SPECIAL PROVISION
MANDATORY USE OF
AUTOMATED CERTIFIED
PAYROLL**

All contractors on NDDOT federal-aid projects, including city/county projects, must file weekly Certified Payrolls, as required under Davis-Bacon and Related Acts (DBRA). **The NDDOT requires the use of LCPtracker, a paperless online system for entering and filing these certified payrolls. Certified payrolls in paper form will no longer be accepted, and all contractors must file their payroll electronically.**

After award, the Prime Contractor (Prime) must:

1. Designate an individual as Prime Approver for the project. The Prime Approver will oversee DBRA payroll for all subcontractors of all tiers on the project. A contractor may inform the NDDOT Civil Rights Division (CRD) that the same individual will be Prime Approver on all projects. CRD will set up the Prime Approver Account for the project. Thereafter, the Prime Approver will have the responsibility to use the Account to approve all payroll on the project. Until payroll is approved by the Prime Approver, it cannot be viewed by the NDDOT and it is not deemed submitted to the NDDOT.
2. The prime contractor has the responsibility to assign subcontractors within the LCPtracker system to the project and to ensure that all subcontractors are aware of the necessity to file payrolls electronically and are set up within the system. Any subcontractor not on Approved Subcontractor List or the Qualified Contractor List must register and be placed one of these lists before entry of the subcontractor into LCPtracker. These lists may be found at <https://www.dot.nd.gov/pacer/qualified.htm> and <https://www.dot.nd.gov/pacer/registered.htm>. Only Prime Approvers or the CRD may enter subcontractors into LCPtracker.
3. The prime contractor has the responsibility to see that all required payrolls are filed by subcontractors of all tiers. If payroll is rejected or project staff otherwise requests a correction of payroll by any subcontractor on the project, the prime contractor has a responsibility to see that corrected payroll is submitted.
4. For further information on certified payroll, go to the NDDOT Labor Compliance/LCPtracker page at <https://www.dot.nd.gov/divisions/civilrights/laborcompliance.htm>. On this page, contractors will find a Getting Started on LCPtracker Guide and a Prime Approver Guide. Recorded trainings are also available on this page for both contractors and prime approvers. Contractors can obtain an LCPtracker user name and password by calling the NDDOT Civil Rights Division at (701) 328-2605 or (701) 328-2576.

09/06/2017

**CONTRACT SPECIAL PROVISION
MANDATORY USE OF ONLINE
DBE PROJECT PAYMENT REPORTING**

Payments made to all tiers of subcontractors must be reported electronically using the B2GNow system. Paper forms (Monthly Record of DBE Project Payments – SFN 60638) will no longer be accepted.

After award, the Prime Contractor (Prime) must:

1. Create a new account if not already in the system. Create a user for each employee who will use the system. If there is no account already set up, you can email Customer Support directly from the Account Lookup page. Your email address will be your user ID. Customer Support will email you with the information you need to log in.
2. Once the project has been awarded and the Utilization Plan (UP) has been created in the system and assigned to the contractor it must be filled out and submitted. An automated email message will be sent to a designated individual within the company alerting them that a UP is pending. Log into the system using the link provided in the email. For each contract the Prime must add all DBE and non-DBE subs being used on the project. When all information has been provided submit the UP. Civil Rights will review the UP and if everything is in order it will be approved. If changes need to be made the UP will be returned to the contractor and they will have 7 days to make the necessary adjustments and resubmit. If DBE or non-DBE subcontractors are added after the initial UP is set up the Prime can submit a request for them to be added.
3. Once the UP is submitted the project is “locked in” after Financial Management has processed the project in their system. After a UP is locked in payments from NDDOT to the Prime are reported through the system. The Prime must start reporting DBE and non-DBE subcontractor payments through the system in accordance with prompt pay guidelines outlined in the contract.
4. A user manual for UP’s and recording project payments is available to the contractors within the system. After login they can go to View>>My Utilization Plans and they will find the guide on the top of the Utilization Plan screen. They do not have to have a current UP assigned to them to see this guide. The guide is also on the actual UP page when a UP is assigned to them.
5. For further information on the Certification and Compliance System, go to the NDDOT Civil Rights page at <https://www.dot.nd.gov/divisions/civilrights/civilrights.htm>. There is various training available on a regular basis, to sign up for training go to the main Certification and Compliance System page and click the “Training and Events” box. Contractors that need to obtain an account or need subcontractors set up within the system should call the NDDOT Civil Rights Division at (701) 328-3116 or email civilrights@nd.gov

10/3/2017

LABOR RATES FROM U.S. DEPARTMENT OF LABOR

NDDOT's *Davis-Bacon Wage and Payroll Requirements Handbook* is available at:
www.dot.nd.gov/manuals/civilrights/davisbacon.pdf

U.S. DEPARTMENT OF LABOR

| | | | |
|-----------------------|---------------------|-----------------------------------|------------------|
| STATE NORTH DAKOTA | COUNTY STATEWIDE | DECISION NO. ND170002 | PAGE 1 |
| | | DATE OF DECISION 1-6-17 | |

Revised 1-13-17 (Mod. No. 1)
 Revised 7-7-17 (Mod. No. 2)
 Revised 9-15-17 (Mod. No. 3)
 Revised 10-6-17 (Mod. No. 4)

| | Basic Hourly Rates | Fringe Benefits Payments | | | |
|---|--------------------|--------------------------|----------|---------|--------|
| | | H & W/Pensions | Vacation | App. Tr | Others |
| CARPENTERS | \$27.40 | \$ 6.70 | | | |
| CEMENT MASONS/FINISHERS | 27.40 | 6.70 | | | |
| LINE CONSTRUCTION: | | | | | |
| Lineman | 41.50 | 5.50 + 29% | | | |
| Cable Splicer | 41.50 | 5.50 + 29% | | | |
| Line Equipment Operator | 35.50 | 5.50 + 29% | | | |
| Groundman | 23.67 | 5.50 + 19% | | | |
| ELECTRICIANS: | | | | | |
| Electrician | 40.51 | 9.10 + 10.5% | | | |
| Cable Splicer | 40.91 | 9.10 + 10.5% | | | |
| (Adams, Billings, Bottineau, Bowman, Burke, Burleigh, Divide, Dunn, Emmons, Golden Valley, Grant, Hettinger, McHenry, McKenzie, McLean, Mercer, Morton, Mountrail, Oliver, Pierce, Renville, Rolette, Sheridan, Sioux, Slope, Stark, Ward, and Williams Counties) | | | | | |
| Electrician | 30.13 | 12.36 | | | |
| Cable Splicer | 28.30 | 11.26 | | | |
| (Barnes, Benson, Cavalier, Dickey, Eddy, Foster, Grand Forks, Griggs, Kidder, La-Moure, Logan, McIntosh, Nelson, Pembina, Ramsey, Ransom, Richland, Sargent, Steele, Stutsman, Towner, Traill, Walsh, and Wells Counties) | | | | | |
| Electrician (Cass County) | 14.72 | 3.40 | | | |
| WELDERS: | | | | | |
| Receive rate prescribed for craft performing operation to which welding is incidental | | | | | |
| LABORERS: | | | | | |
| Group 1 | | | | | |
| Drill Runner Tender; Flaggers and Pilot Car Drivers; General Construction Laborer; Light Truck and Pickup Driver; Pipe Handler; Sack Shaker (cement and mineral filler); Salamander Heater and Blower Tender | 19.70 | 2.50 | | | |

LABOR RATES

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Revised 1-13-17 (Mod. No. 1)

Revised 7-7-17 (Mod. No. 2)

Revised 9-15-17 (Mod. No. 3)

Revised 10-6-17 (Mod. No. 4)

Nd170002

Page 2

| Basic Hourly Rates | Fringe Benefits Payments | | | |
|---|--------------------------|----------|----------|--------|
| | H & W/Pensions | Vacation | App. Tr. | Others |
| LABORERS: (CONT.) | | | | |
| Group 2 | | | | |
| Bituminous Worker (Shoveler, Dumper, Raker, and Floater); Brick and Mason Tender; Bulk Cement Handler; Carpenter Tender; Chain Saw Operator; Chipping Hammer, Grinders, and Paving Brakers (tamper-dirt); Concrete Bucket Signalman; Concrete Curing Man (not water); Concrete Saw Operator; Concrete Vibrator Operator; Conduit Layer, telephone or electrical; Culvert Pipe Layer; Form Setter (pavement); Gas, Electric, or Pneumatic Tool Operator; Kettleman (bitum. or lead); Multiplate Pipe Layer; Power Buggy Operator; Semi Skilled Laborer | | | | |
| \$19.95 | \$ 2.50 | | | |
| Group 3 | | | | |
| Bottom Man (sanitary sewer, storm sewer, water, and gas lines); Caisson Worker; Concrete Mixer Operator (one bag capacity); Mortar Mixer | | | | |
| 20.10 | 2.50 | | | |
| Group 4 | | | | |
| Drill Runner (includes Wagon Churn or Air Track); Pipe Layers (sanitary sewer, storm sewer, water, and gas lines); Powderman, gunite and sandblast; Nozzleman; Reinforcing Steel Setters/Tiers; Concrete Finisher Tender | | | | |
| 20.85 | 2.50 | | | |
| POWER EQUIPMENT OPERATORS: | | | | |
| Group 1 | | | | |
| All Cranes, 60 tons and over; Cranes doing piling, sheeting, dragline/clam work; Derrick (Guy and Stiff); Gentry Crane Operator; Helicopter Operator; Mole Operator or Tunnel Mucking Machine; Power Shovel, 3-1/2 cy and over; Traveling Tower Crane | | | | |
| 28.60 | 16.15 | | | |
| Group 2 | | | | |
| All Cranes, 21 tons and up to 59 tons; Backhoe Operator, 3 cy and over; Creter Crane; Dredge Operator, 12" and over; Equipment Dispatcher; Equipment Foreman, Finish Dozer, Finish Motor Grader; Front End Loader Operator, 8 cy and over; Master Mechanic (when super-vising 5 or more Mechanics); Mon-O-Rail Hoist Operator; Power Shovel, up to and including 3-1/2 cy; Tugboat | | | | |
| 27.70 | 16.15 | | | |

LABOR RATES
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ND170002

Page 3

POWER EQUIP. OPERATORS: (CONT.)

Group 3

All Cranes, 20 tons and under; Asphalt Paving Machine Operator; Asphalt Plant Operator; Automated Grade Trimmer; Backhoe Operator, 1 cy up to and including 2-1/2 cy; Boom Truck, Hydraulic, 8 tons and over; Cableway Operator; Concrete Batch Plant Operator (electronic or manual); Concrete Mixer Paving Machine Operator; Concrete Paver, Bridge Decks; Concrete Pump; Concrete Spreader Operator and Belt Placer; Crushing Plant Operator; Dozer Operator; Dredge Operator or Engineer, 11" and under; Drill Rigs, Heavy Duty Rotary or Churn or Cable Drill; Front End Loader Operator, 3-1/2 cy up to and including 7-1/2 cy; Gravel Washing and Screening Plant Operator; Locomotive, all types; Mechanic or Welder, Heavy Duty; Motor Grader Operator; Pavement Breaker, Non-Hydro Hammer Type; Pipeline Wrapping, Cleaning, and Bending Machine Operator; Power Actuated Auger and Horizontal Boring Machine Operator, 6" and over; Refrigeration Plant Engineer; Roto Milling Machine (Surface Planer), 43" and over; Scraper Operator; Slip Form Concrete Paving Operator; Tandem Pushed Quad 9 or similar; Tractor with Boom Attachment; Trenching Machine Operator, 100 H.P. and over

\$27.45

\$16.15

Group 4

Articulated/Off Road Hauler; Asphalt Dump Person; Asphalt Paving Screed Operator; Backhoe, up to and including 1/2 cy; Boring Machine Locator; Con-sole Board Operator; Curb Machine Operator, Distributor Operator (Bituminous); Forklift Operator; Front End Loader, 1-1/2 cy up to and including 3 cy; Grade Person; Gravel Screening Plant Operator (not Crushing or Washing); Greaser; Lazer Screed Operator; longitudinal Float and Spray Operator; Micro Surfacer Machine; Motor Grader Operator (Haul Road); Paving Breaker, Hydro Hammer Type; Pugmill Operator; Push Tractor; Roller, Steel and Rubber on Hot Mix Asphalt Paving; Rotomill Machine (Surface Planer), up to and including 42"; Rumble Strip Machine; Sand and Chip Spreader; Self-Propelled Sheepsfoot Packer with or without Blade Attachment; Self-Propelled Traveling Soil Stabilizer; Sheepsfoot

| Basic Hourly Rates | Fringe Benefits Payments | | | |
|---|--------------------------|----------|----------|--------|
| | H & W/Pensions | Vacation | App. Tr. | Others |
| <p>Group 3 All Cranes, 20 tons and under; Asphalt Paving Machine Operator; Asphalt Plant Operator; Automated Grade Trimmer; Backhoe Operator, 1 cy up to and including 2-1/2 cy; Boom Truck, Hydraulic, 8 tons and over; Cableway Operator; Concrete Batch Plant Operator (electronic or manual); Concrete Mixer Paving Machine Operator; Concrete Paver, Bridge Decks; Concrete Pump; Concrete Spreader Operator and Belt Placer; Crushing Plant Operator; Dozer Operator; Dredge Operator or Engineer, 11" and under; Drill Rigs, Heavy Duty Rotary or Churn or Cable Drill; Front End Loader Operator, 3-1/2 cy up to and including 7-1/2 cy; Gravel Washing and Screening Plant Operator; Locomotive, all types; Mechanic or Welder, Heavy Duty; Motor Grader Operator; Pavement Breaker, Non-Hydro Hammer Type; Pipeline Wrapping, Cleaning, and Bending Machine Operator; Power Actuated Auger and Horizontal Boring Machine Operator, 6" and over; Refrigeration Plant Engineer; Roto Milling Machine (Surface Planer), 43" and over; Scraper Operator; Slip Form Concrete Paving Operator; Tandem Pushed Quad 9 or similar; Tractor with Boom Attachment; Trenching Machine Operator, 100 H.P. and over</p> | \$27.45 | \$16.15 | | |
| <p>Group 4 Articulated/Off Road Hauler; Asphalt Dump Person; Asphalt Paving Screed Operator; Backhoe, up to and including 1/2 cy; Boring Machine Locator; Con-sole Board Operator; Curb Machine Operator, Distributor Operator (Bituminous); Forklift Operator; Front End Loader, 1-1/2 cy up to and including 3 cy; Grade Person; Gravel Screening Plant Operator (not Crushing or Washing); Greaser; Lazer Screed Operator; longitudinal Float and Spray Operator; Micro Surfacer Machine; Motor Grader Operator (Haul Road); Paving Breaker, Hydro Hammer Type; Pugmill Operator; Push Tractor; Roller, Steel and Rubber on Hot Mix Asphalt Paving; Rotomill Machine (Surface Planer), up to and including 42"; Rumble Strip Machine; Sand and Chip Spreader; Self-Propelled Sheepsfoot Packer with or without Blade Attachment; Self-Propelled Traveling Soil Stabilizer; Sheepsfoot</p> | | | | |

LABOR RATES

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| Basic Hourly Rates | Fringe Benefits Payments | | | |
|--|--------------------------|----------|----------|--------|
| | H & W/Pensions | Vacation | App. Tr. | Others |
| POWER EQUIP. OPERATORS: (CONT.) | | | | |
| Group 4 (cont.) | | | | |
| Packer with Dozer Attachment, 100 H.P. and over; Shouldering Machine; Slip Form, Curb and Gutter Operator; Slurry Seal Machine; Tamping Machine Operator; Tie Tamper and Ballast Machine; Trenching Machine Operator, 46 H.P. up to and including 99 H.P.; Truck Mechanic; Tub Grinder; Well Points; Fuel/Lube Operator | | | | |
| \$27.30 | \$16.15 | | | |
| Group 5 | | | | |
| Boom Truck, A-Frame or Hydraulic, 2 tons up to and including 7 tons; Broom, Self-Propelled; Concrete Saw (power operated); Cure Bridge Operator; Front End Loader Operator, less than 1-1/2 cy; Mobile Cement Mixer; Oiler; Power Actuated Auger and Horizontal Boring Machine Operator, up to and including 5"; Roller (on other than hot mix asphalt paving); Vibrating Packer Operator (Pad Type) (Self-Propelled); Water Spraying Equipment, Self-Propelled; Skidsteer Operator with attachments | | | | |
| 26.45 | 16.15 | | | |
| Group 6 | | | | |
| Brakeman or Switchman; Curb Machine Operator (Manual); Dredge or Tugboat Deckhand; Drill Truck Gravel/Testing Operator; Form Trench Digger (Power); Gunite Operator Gunall; Paint Machine Striping Operator; Pickup Sweeper, 1 cy and over Hopper Capacity; Scissor Jack (Self-Propelled) Platform Lift; Straw Mulcher and Blower; Stump Chipper Operator; Tractor Pulling Compaction or Areating Equipment; Trenching Machine Operator, up to and including 45 H.P.; Assistant/Apprentice Operator | | | | |
| 25.15 | 16.15 | | | |
| TRUCK DRIVERS: | | | | |
| 28.02 | 12.65 | | | |
| 28.14 | 12.65 | | | |
| 28.45 | 12.65 | | | |
| 28.45 | 12.65 | | | |
| 28.45 | 12.65 | | | |
| 28.45 | 12.65 | | | |
| 29.97 | 12.65 | | | |

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses [29 CFR, 5.5 (a) (1) (ii)].

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION (NDDOT)

2017 ON-THE-JOB TRAINING PROGRAM SPECIAL PROVISION

The bidder's signature on the proposal sheet indicates the bidder agrees to take part in the On-the-Job Training (OJT) Program and to follow the OJT Program Manual and Special Provision. Contractors that fail to do so will be subject to suspension of progress payments or sanctions up to and including revocation of bidding privileges.

OJT is training conducted in a highway construction work environment designed to enable minority, female, and economically disadvantaged individuals to learn a bona fide skill and qualify for a specific occupation through demonstration and practice.

After a training program and trainee candidate have been approved, the contractor begins training its regular employee according to the approved program. The goal of this training is to retain the trainee as a permanent employee. OJT involves individuals at the entry level. Training is designed to help participants reach their fullest potential and become self-sufficient in the job.

I. POLICY STATEMENT

The purpose of the OJT Program is to provide training in the highway construction industry for minority, female, and economically disadvantaged individuals, from this time known as the targeted group. Pursuant to 23 Code of Federal Regulations Part 230, Subpart A, Appendix B - Training Special Provisions, this program provides for on-the-job training aimed at developing journey-level workers in skilled trades.

The Contractor shall take all necessary and reasonable steps to ensure that minorities and women have the opportunity to compete for and participate as trainees or apprentices and to develop as journey-level workers employed in the skilled trades.

Contractors should select a training program(s) based on their company's employment/staffing needs as stated in the OJT Program Manual.

II. INTRODUCTION/PROGRAM BACKGROUND

The OJT Program was originally prepared through the cooperative efforts of the Associated General Contractors of North Dakota (AGC); the Federal Highway Administration (FHWA); the North Dakota Department of Transportation (Department); and, other program stakeholders.

Successful operation of the OJT Program requires contractors to follow uniform and basic training procedures, keep records of trainee progress, and report each trainee's completion or termination.

III. ASSIGNED OJT POSITIONS

A. Trainee positions are assigned contractors based only on federal highway dollars awarded from October 1 to September 30. Trainee assignments are not project specific; that means the contractor may train program participants on any project where training opportunities exist.

The number of trainee positions assigned will be determined by formula based on calculations involving particular project specification numbers on applicable projects. The types of projects NOT applicable in the calculation to assign trainee positions are:

- County-only or state-only funded projects
- Emergency relief, concrete pavement repair (CPR), electrical, rest area, signing, striping projects
- Projects subject to Tribal Employment Rights Ordinances (TERO)
- Projects not let through NDDOT bid openings

- B. Contractors will receive the number of positions assigned and links to resources necessary for completion of program requirements via email.
- C. The number of trainee positions assigned to each contractor will increase proportionately, as shown below, for any applicable federally funded projects awarded to them.

For all federal highway dollars awarded from October 1 to September 30:

| | | |
|--------------------------|---|----------|
| 6,000,000 to 15,000,000 | 1 | trainee |
| 15,000,001 to 23,000,000 | 2 | trainees |
| 22,000,001 to 31,000,000 | 3 | trainees |
| 31,000,001 and above | 4 | trainees |

A maximum of four (4) trainee positions in a federal fiscal year will be assigned to any prime contractor regardless of dollar amount. Carryover positions from a prior construction season are not included in the four trainee maximum, e.g., a contractor with one carryover and four assigned positions may have a total five trainees.

Failure to follow this OJT Special Provision and the accompanying OJT Program Manual may result in suspension of progress payments or sanctions up to and including revocation of bidding privileges.

IV. FUNDING

The Department will establish an OJT fund annually from which contractors may bill the Department directly for eligible trainee hours. The funds for payment of trainee hours on federal-aid projects will be made available based on 23 USC 504(e) to a maximum of \$100,000. The funds for payment of trainee hours on state-aid only projects will be allocated to a maximum of \$10,000.

V. ONLINE RESOURCES

OJT Program Manual: Includes program requirements, wage rates, and curriculum:
<https://www.dot.nd.gov/divisions/civilrights/docs/ojtprogram.pdf>

SFN 60226 Request for On-the-Job Training Program and Trainee Approval:
<http://www.dot.nd.gov/forms/sfn60226.pdf>

SFN 51023 Voucher for On-the-Job Training Program Hourly Reimbursement:
<http://www.dot.nd.gov/forms/sfn51023.pdf>

Davis-Bacon and Related Acts (DBRA) Handbook: <https://www.dot.nd.gov/manuals/civilrights/davisbacon.pdf>

VI. APPROVALS REQUIRED

- A. Requests for Training Programs and Trainee Approvals must be submitted to Civil Rights Division (CRD). Contractors must request and receive program and trainee candidate approval in order to pay trainees less than the established Davis-Bacon wage for the job classification concerned. No training program hours will count toward the fulfillment of an assigned trainee position or be eligible for reimbursement without prior approval. No retroactive approval will be granted.
 - 1. Submit SFN 60226 *Request for On-the-Job Training Program and Trainee Approval* with each trainee's employment application. <http://www.dot.nd.gov/forms/sfn60226.pdf> and the pre-approved training curriculum for each trainee position assigned by April 1 or within fifteen (15) calendar days of notification of any additional position assignments.
 - 2. Submit SFN 7857 *Application for Eligibility, Job Service North Dakota (JSND)* approval of an economically disadvantaged individual for participation in the OJT Program.

- B. Pre-approved curriculum: NDDOT's OJT Program Manual contains pre-approved training curriculum for a number of skilled trade positions. Contractors should select a training program(s) based on their company's employment/staffing needs.
- C. Customized curriculum: To request a training curriculum not included in the pre-approved curriculum, submit a written request for approval by NDDOT and FHWA.

The request must include:

- A training curriculum, including the classification requested, minimum number of hours required, and type of training the individual will receive to achieve journey-level worker status.
- A minimum wage scale.

If approved, each new classification must comply with the provisions specified in the OJT Program Manual. No hours worked prior to approval will be credited toward completion of the customized training program. Training programs for classifications not covered by the Davis-Bacon and Related Acts (DBRA) will be considered on a limited basis.

The contractor may commence its "customized" training as of the date of the written approval.

- D. Union apprenticeship and on-the-job training programs registered with the Bureau of Apprenticeship and Training (BAT), U.S. Department of Labor, may be used for trainee positions assigned under the OJT Program, provided the trainees or apprentices are minority, female, or economically disadvantaged. Nonminority males not certified as economically disadvantaged may only be used when the contractor has requested and received approval, from the Department, for additional trainee positions. The apprenticeship indenture agreements serve as the trainee's job application and must be provided prior to any hours being credited toward OJT Program completion.
- E. Power Equipment Operators:

The contractor may train an individual on a combination of equipment if each piece of equipment falls within the same groups of power equipment operators identified in the training curricula (groups 1-3 and groups 4-6). These power equipment operator groups are referenced to the federal DBRA wage rates contained in the contract proposal. As an example, a "utility operator" may receive training on a broom, a front-end loader less than 1½ cubic yards, or other piece of equipment that is used around a paver if each piece falls within either groups 1-3 or groups 4-6. When multiple wage rates apply, the trainee's wage will be based on the equipment being operated at the time or on the highest of the applicable wage rates.

Use of the classification "pickup machine operator (asphalt dump-person)" as a group 4 power equipment operator is considered standard industry practice. The classification is defined as: "Operates the controls on the pickup machine that runs in front of the paver, trips the levers on the dump trucks, and balances the loads for the paver. The pickup machine operates on similar principles as a shouldering machine."

- F. Contractors not qualifying for the OJT Program, or contractors desiring to train more than the allotted number of trainees, may apply to the Department for additional trainee positions. Approval of additional positions will be at the sole discretion of the Department. The Department will take into consideration whether there is enough work for the trainee to successfully complete the curriculum and whether the contractor will be exceeding the allowable ratio of trainees to journey-workers (generally considered to be one trainee or apprentice to every three to five journey-workers).

The additional positions may be filled by individuals outside of the targeted groups. The contractor may pay the reduced training rates to additional trainees outside of the targeted groups, but will not receive hourly reimbursement for any individuals who are outside the targeted groups.

VII. NDDOT'S RESPONSIBILITIES

- A. The NDDOT OJT supportive services (OJTSS) consultant will monitor excerpts from the weekly certified payrolls submitted with the monthly vouchers for reimbursement. This includes weekly payrolls from

contractors working on state funded only projects. On contracts where certified payrolls are not required and not available for supporting documentation, contractors may enter trainee wages, hours in training, and the project control number(s) (PCN) in a spreadsheet to support their reimbursement vouchers. In this case, contractors should work with OJTSS to assure that all information required for payment is provided. The OJTSS consultant will assess when the trainees have completed the specified number of hours and their wages are increased accordingly. The OJTSS consultant will also assure that applicable fringe benefits are paid either directly to the trainees or for the trainee into approved plans, funds, or programs.

- B. The OJTSS consultant is charged with visiting trainees and monitoring their progress under the OJT Program. To facilitate the on-site visits, the OJTSS consultant will contact contractors for the location of the trainees weekly.

VIII. CONTRACTOR'S RESPONSIBILITIES

- A. Consistently demonstrate efforts to recruit, hire, and train candidates for the OJT Program.
- B. Assign each trainee to a particular person—either a supervisor or an employee proficient in the skills to be trained—who shall see that the trainee is given timely, instructional experience. This person must be familiar with the OJT Program, keep proper records, and ensure completion of the required training hours in accordance with the training curriculum.
- C. Appoint a company employee who will be available and responsive to weekly contacts by the OJTSS consultant. OJTSS monitors the status of assigned trainee positions (e.g., program and trainee approvals, trainees' progress, etc.). The OJTSS consultant will contact the individual listed on the company's approved SFN 60226 Request for OJT Trainee Approval. This person must reply to communications from the Department and the OJTSS consultant in a timely manner.
- D. Make trainees available to the OJTSS consultant for at least two on-site visits during the construction season.
- E. Make the trainer and project superintendent available to the OJTSS consultant for at least two on-site visits each construction season.
- F. Make trainees aware they are formally enrolled in the OJT program.
- G. Identify trainees on the payroll excerpts, for example: "grp. 4 roller operator trainee." This includes trainees in job classifications not covered by DBRA. Handwritten notes are appropriate for identification.
- H. Notify the Department when a trainee completes the number of hours required to graduate from the OJT Program. The Department will issue the trainee a certificate of completion and a wallet-sized card as proof of the graduate's successful training program completion.
- I. Notify the Department to "propose graduation" or discontinue the training period of a trainee who has completed 90% or more of their hours and thereafter advance the trainee to journey-worker status.
- J. Elect to upgrade proficient trainees from one power equipment operator group or truck driver group to another, with the approval of CRD. Fewer hours are required to complete the upgraded position.

Minimum number of hours required:

Power Equipment Operator Groups 4-6 to Groups 1-3 = 400 hrs.

Class C Truck Driver to Class B = 200 hrs.

Class B Truck Driver to Class A = 200 hrs.

Depending on the variety of experience the trainee has gained under the previous curriculum, the difference in the hours may be deducted from the actual operation of the piece of equipment or truck. The contractor will need to review the trainee's past performance in order to make this determination.

- K. May hire commercial driver's license (CDL) holders as truck driver trainees. Those having over-the-road driving experience, with little or no highway construction experience, may be considered to have completed

the Class C truck driver training curriculum and, therefore, are eligible to be upgraded to a Class B truck driver trainee, with the approval CRD.

- L. May transfer trainees from one project to another in order to complete the OJT Program. If transfers are made, CRD must be notified and provided with the name of the trainer. The training hours will count toward overall OJT Program completion.
- M. May train trainees on municipal, private, out-of-state projects or other non-highway work. These training hours must be paid at the OJT minimum wage scale to count toward their OJT Program completion; however, no program reimbursement will be made for those hours.
- N. May delegate or reassign trainee positions to subcontractors, with the acceptance of the subcontractors and the approval of CRD. The prime contractor must verify that the trainee will be able to accumulate enough hours to complete his or her training program. If approved, the subcontractor must obtain training program and trainee approval from CRD before the trainee begins work under the OJT program. Program reimbursement will be made directly to the prime contractor. The trainee position will remain the responsibility of the prime contractor.
- O. May use trainees on projects subject to TERO requirements as part of the core crew or as part of the skilled labor supplied by the contractor. The training hours will count toward overall OJT Program completion; however, no program reimbursement will be made for those hours unless it is a NDDOT let project.
- P. May not use one trainee to simultaneously fill multiple trainee positions
- Q. May use a trainee on a piece of equipment in groups 1-3 or groups 4-6 for one assigned trainee position, then once that trainee has completed the program, the trainee may be trained on a different piece of equipment in groups 1-3 or groups 4-6 to fulfill a second assigned trainee position. When a trainee is used for a second time within a group, the contractor must pay that trainee at the higher wage rate as described in paragraph B under Wage Rates (page 8).

IX. CLASSROOM TRAINING

- A. Classroom training may be used to train employees. Each classroom training curriculum must be pre-approved by CRD if the contractor wishes to count the classroom hours as training hours and be reimbursed.

Submit a proposed classroom training curriculum to CRD for approval. Define the type of training the individual will receive, classroom training curriculum, and the minimum number of hours required. The Department will determine the number of hours of credit each trainee will receive toward their training. No retroactive approval will be granted.
- B. Contractors will be reimbursed for classroom training hours after the trainee has completed 80 hours of work on highway construction projects.
- C. Reimbursement for classroom training will be limited to 60 hours per trainee per construction season. Reimbursement for classroom training required under the NDDOT Transportation Technician Qualification Program will be at the NDDOT discretion.
- D. The minimum wage scale to be used for classroom training will be that of the first federal-aid highway construction project on which the trainee will be employed. If the trainee is already employed on a federal-aid highway construction project, the trainee will be paid in accordance with the minimum wage scale applicable to that project. However, if the first project on which the trainee will be employed is a state funded only contract, the minimum wage scale to be used for the classroom training will be that of the appropriate DBRA wage in effect at the time of award of the state funded contract.

X. WAGE RATES

- A. When the contractor is submitting the trainee's hours toward training program, wages paid shall in no case

be less than that of those stated in the approved curriculum. A trainee working on a state funded only project, must be paid the DBRA wage rate in effect at the time of award for the type of work the trainee is performing as a trainee.

- B. The minimum wage rates shall not be less than 80% of the journey-worker rate for the first two quarters of training, 85% of the journey-worker rate for the third quarter, and 90% of the journey-worker rate for the fourth quarter.
- Under the power equipment operator training curricula only, once a trainee has completed a training curriculum in either groups 1-3 or groups 4-6, the contractor may enroll the trainee in another training curriculum on a different piece of equipment in either groups 1-3 or groups 4-6.
 - The minimum wage rate under the trainee's second program shall not be less than 85% of the journey-worker rate for the first two quarters of training, 90% of the journey-worker rate for the third quarter, and 95% of the journey-worker rate for the fourth quarter.
 - For the purpose of the OJT Program, a quarter is 25% of the hours the trainee works toward completion of their approved program. The first two quarters of a 550-hour training curriculum would end after 275 hours, the third quarter after 138 hours, and the fourth after 137 hours.
- C. At any time hours are being attributed toward the completion of the approved training program, trainees shall be paid full fringe benefit amounts, where applicable, in accordance to DBRA requirements.
- D. At the completion of the OJT Program, the trainee shall receive the wages of a skilled journey-worker.

XI. RECRUITMENT AND SELECTION

- A. Prerequisites:
Trainees must possess basic physical fitness for the work to be performed, dependability, willingness to learn, ability to follow instructions, and an aptitude to maintain a safe work environment.
- B. Licenses:
Truck driver trainees must possess appropriate driver permits or licenses for the operation of Class A, B, and C trucks. When an instructional permit is used in lieu of a license, the trainee must be accompanied by an operator who:
1. Holds a license corresponding to the vehicle being operated;
 2. Has had at least one year of driving experience; and
 3. Is occupying the seat next to the driver.
- C. Recruitment:
1. Place notices and posters setting forth the contractor's Equal Employment Opportunity (EEO) Policy and the availability of the OJT Program in areas readily accessible to employees, applicants for employment, and potential employees.
 2. Employ members of the targeted group (minority, female, or economically disadvantaged individuals) for all trainee positions assigned in accordance with the OJT Program. Additional positions requested by the contractor may be filled by individuals outside of the targeted groups.
 3. Conduct systematic and direct recruitment through public and private employee referral sources.
 4. Screen present employees for upgrading to higher skilled crafts. A present employee may qualify as a trainee; however, no work hours will be reimbursed or counted toward program completion prior to training program and trainee approval by CRD.
- D. Selection:
1. Hire and enroll OJT trainee candidates who qualify as an individual in the targeted group.

2. Select a training program(s) based on their company's employment/staffing needs.
3. Individuals in the targeted group having experience in the selected curriculum may be eligible to participate in the OJT Program providing they:
 - Are not or have not been journey-workers in the selected curriculum, and/or
 - Have not been previously trained in the selected curriculum.
4. Non-minority males who are economically disadvantaged must obtain written certification from Job Service North Dakota (JSND) to qualify for the OJT Program. Contractors wishing to hire and enroll economically disadvantaged candidates must provide JSND's certification along with SFN 60226 and the employment application when requesting trainee approval.
 - JSND is the only agency that may certify an individual as economically disadvantaged. If JSND refers the candidate to the contractor, written certification under this category will be provided to the contractor at the time of the interview.
 - Any person wishing to obtain this certification must apply to JSND and complete the Workforce Investment Act Program's Application for Eligibility (SFN 7857). A contractor recruiting a candidate who may qualify must contact the Workforce Investment Act Program Manager at JSND. JSND contacts are also online:
<http://www.dot.nd.gov/divisions/civilrights/docs/jobservice-workforce-invest-contacts.pdf>

XII. BASIS OF PAYMENT

- A. Contractors will be paid \$4.00 for each hour of training in accordance with the OJT Program Manual.
- B. Reimbursement will be made directly to the contractor. Complete SFN 51023 Voucher for On-the-Job Training Program Hourly Reimbursement for each trainee. Attach excerpts from the weekly certified payrolls showing the trainee's hours, rate of pay, and how applicable fringe benefits were paid. Excerpts from weekly payrolls are also required for state funded only projects. Vouchers without excerpts from payrolls will not be paid until the excerpts are provided. If the excerpts from the payrolls are not provided within one week, the voucher will not be paid and the trainee's hours will not be credited toward completion.
<http://www.dot.nd.gov/forms/sfn51023.pdf>
- C. On contracts where certified payrolls are not required and not available for supporting documentation, contractors may enter trainee wages, hours in training, and the project control number(s) (PCN) in a spreadsheet to support their reimbursement vouchers. In this case, contractors should work with OJTSS to assure that all information required for payment is provided.
- D. Submit completed vouchers to CRD for approval and processing by the fifteenth (15th) calendar day of every following month the trainee is employed under the OJT Program.

Regardless, all vouchers for trainee hours worked on state funded only projects from July 1 to June 30 must be received by CRD no later than July 15 in order to be reimbursed. All vouchers for trainee hours worked on federally funded projects from October 1 to September 30 must be received by CRD no later than October 15 in order to be reimbursed. This is due to state and federal end-of-the-year budget fiduciary requirements.

XIII. FAILURE TO PROVIDE THE TRAINING OR HIRE THE TRAINEE AS A JOURNEY-WORKER

- A. The contractor is required to consistently demonstrate efforts to recruit, hire, and train candidates for the OJT Program.
- B. If the contractor does not show in a timely manner good faith efforts to recruit, hire, and train candidates in the targeted group, the Department may withhold progress payments
- C. If payments have been made, the Department will deduct the amount paid from the contractor's progress

payment.

- D. No payment shall be made to a contractor for failure to provide the required training or failure to hire the trainee as a journey-worker when such failure is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirements of this OJT Program Special Provision.
- E. Hiring a trainee to begin training as soon as feasible after start of work is evidence of a contractor's good faith efforts to comply with the OJT Program requirements. Additional evidence supporting a contractor's good faith efforts would be to keep the trainee employed as long as training opportunities exist in the approved work classification or until the trainee has completed his or her training program.
- F. It is not required that all trainees be employed for the entire length of the construction season. A contractor will have fulfilled its responsibilities under this OJT Special Provision if it has provided acceptable training to the number of trainees assigned.

XIV. UNFILLED OR INCOMPLETE TRAINEE POSITIONS

- A. By October 1, provide written explanation of the firm's good faith efforts for unfilled or incomplete trainee assignments to CRD. CRD will decide, on a case-by-case basis, whether to carry the assigned positions over to the next construction season.
- B. Positions carried over from the previous construction season must be among the first positions filled at season startup. To notify CRD of the trainee's rehiring, submit *SFN 60226 Request for On-the-Job Trainee Approval*, marking 'Check if Carryover Trainee' in the Approved Training Program section of the form. There is no need for the training position or a returning trainee to be re-approved.
- C. Sanctions, up to and including revocation of bidding privileges, may be imposed on the contractor for failure to provide sufficient explanation and documentation for reasons assigned trainee positions when unfilled or incomplete.

XV. DEFINITIONS

Carryover Position: Incomplete trainee position carried forward from a prior program year.

Carryover Trainee: Trainee scheduled to continue training hours under prior year's approved program.

CRD: NDDOT's Civil Rights Division administers the NDDOT On-the-Job Training Program.

Good Faith Efforts: Documentation supporting a contractor's efforts to fulfill the program requirements, e.g., new hires list, advertising examples/locations, current employees reviewed for upgrades, etc.

Journey-worker: A worker employed in a trade or craft who has attained a level of skill, abilities, and competencies recognized within the industry.

OJT Supportive Services (OJTSS): Department contractor providing in-person oversight, support, and guidance to contractors and trainees to increase the effectiveness of approved training programs.

Trainee: A person who receives training through an apprenticeship program or other FHWA approved program.

Trainer/Supervisor: Contractor's employee assigned to train, supervise, and support a trainee.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**SPECIAL PROVISION****TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES****1. GENERAL**

Install, maintain and remove appropriate Temporary Erosion and Sediment Control Measures (ESCMs).

Definitions:

A. Temporary Erosion and Sediment Control Measures are to be installed and maintained before and during the term of the land disturbance activity. These items are removed when permanent erosion and sediment ESCMs are installed.

B. Permanent Erosion and Sediment Control Measures are to be installed and maintained once the project is completed so that the applicable permits can be terminated.

In some instances, individual temporary and permanent erosion and sediment ESCMs for a site may consist of identical ESCMs. In these cases, the temporary erosion and sediment ESCMs may be used as the permanent erosion and sediment ESCMs if they meet the following criteria:

1. The ESCM was installed correctly,
2. Is in a functional condition,
3. Has had all accumulated sediment removed.

C. The Stormwater Pollution Prevention Plan (SWPPP) is the document that identifies potential sources of sediment or other pollution from construction activity and ensures practices are used to reduce the contribution of pollutants from construction site runoff.

D. Contractor Controlled Areas are project areas not included in the contract, but are obtained and solely controlled by the Contractor (e.g., concrete or asphalt batch plants, concrete washout areas, equipment staging yards, material storage areas, excavated material disposal areas, Contractor furnished borrow areas, etc.).

E. Maintenance is any action taken to keep an ESCM in working condition. These actions may consist of repairing failures of the ESCM itself.

F. Noncompliance is any action or inaction that violates the regulations imposed by the applicable permits or the requirements of this special provision and other contract documents. Failure of an ESCM does not necessarily constitute noncompliance as long as the ESCM is repaired, replaced or supplemented within the timelines established in the applicable permits and no sediment is discharged from the site or into a water of the state.

2. CONSTRUCTION REQUIREMENTS

Develop a SWPPP specific to the project. The creation of the SWPPP is a cooperative effort between the NDDOT who creates the project plan sheets and the Contractor who creates a complete SWPPP which incorporates the plan sheets and the Contractor's means and methods. The project plan sheets by themselves do not meet the requirements of a complete SWPPP and should not be considered as such. The Contractor has the flexibility to modify the design and implementation of the temporary erosion and sediment controls to match the Contractor's means and methods and/or field conditions. These changes must be documented in the SWPPP and meet all regulatory requirements.

Obtain appropriate permit coverage for the activities conducted in Contractor Controlled Areas. A permit will be required for these areas regardless of their size. The NDDOT will have no responsibility for these areas. Provide copies of the completed and signed Notice of Intent submitted for permit coverage to the Engineer before activities in these areas commence. Do not commence activities in these areas until after permit coverage has begun. Provide copies of Permit Coverage Letters for these areas to the Engineer within 7 days of receiving them from the regulating agency.

Install perimeter erosion and sediment ESCMs according to the plans/SWPPP prior to site disturbance.

Change the location of temporary erosion and sediment ESCMs to fit the field conditions.

Update the SWPPP as work progresses, or as directed by the Engineer. Update the SWPPP to show changes due to revisions in work schedules or sequence of construction. Update the site map to reflect erosion and sediment ESCMs that have been installed, changed, or removed.

Do not rely on perimeter ESCMs as the sole method of controlling erosion. As the project progresses, install temporary erosion and sediment ESCMs within the perimeter ESCMs to control erosion resulting from the construction of the project.

Use temporary erosion and sediment ESCMs to prevent contamination of adjacent streams or other watercourses, lakes, ponds or other areas of water impoundment.

Coordinate temporary erosion and sediment ESCMs with the construction of permanent erosion and sediment ESCMs to provide continuous erosion control. Do not install temporary erosion and sediment ESCMs when permanent erosion and sediment ESCMs are able to be installed. Once the permit is terminated or transferred to the Department, the maintenance of the permanent erosion and sediment ESCMs becomes the responsibility of the NDDOT.

Install stabilization ESCMs (mulch, seeding and mulch, etc.) in areas that have been disturbed where work has temporarily or permanently ceased following the timelines established in the applicable permits. If implementation of stabilization is precluded by snow cover, undertake such measures as soon as conditions allow.

Maintain the effectiveness of the temporary erosion and sediment ESCMs as long as required to contain sediment runoff. Inspect the temporary erosion and sediment ESCMs and complete the inspection and maintenance reports every 14 days and within 24 hours of a rainfall event of 0.25 inch or more. During prolonged rainfall (more than 1 day), conduct an inspection within 24 hours of the first day of the event and within 24 hours after the end of the event. Inspections are required only during normal business hours. Install a rain gauge to monitor rainfall amounts as required by the appropriate permit.

Correct any deficiencies in the ESCMs within the timelines established in the applicable permits. If conditions do not permit access to the ESCM, corrective actions can be taken by installing additional ESCMs. Correct the original deficiencies as soon as conditions allow access to their location without causing additional damage to the slopes. In the inspection logs, document the conditions that prohibit access.

Provide copies of all inspections, documentation, record keeping, maintenance, remedial actions, and repairs required by the applicable permits to the Engineer. Provide inspection and maintenance reports within 3 working days after an inspection has been conducted.

Provide, at the preconstruction conference, documentation of any Subcontractor hired for erosion control showing that the Subcontractor's on site supervisor is certified through the NDDOT Erosion & Sediment Control Construction Certification Training. This certification must be maintained by the Subcontractor's onsite supervisor through the term of the contract. The Engineer will provide a verification of their certification through the NDDOT Erosion & Sediment Control Construction Certification Training at the preconstruction conference and will maintain that certification through the term of the contract.

Provide immediate written notification to the Engineer of proposed changes to the erosion control plan or SWPPP. The Engineer will review the proposed changes and determine if they are adequate. Documentation of maintenance and inspections that does not affect the erosion control plan or SWPPP does not require approval by the Engineer.

Remove the temporary devices when directed by the Engineer or when permanent erosion and sediment controls are installed.

3. Erosion and Sediment Control Supervisor.

A. General. Designate an erosion and sediment control supervisor. Provide the name and contact information for the supervisor at the preconstruction meeting. If this erosion and sediment control supervisor becomes unavailable on the project, designate a replacement supervisor. Notify the Engineer if this supervisor changes and provide the contact information for the new supervisor.

B. Qualifications. The supervisor shall be:

1. An employee of the Prime Contractor;
2. Familiar with installation, maintenance and removal of ESCMs and the requirements of the erosion and sediment control plans, applicable permit requirements, specifications, plans and this provision; and
3. Competent to supervise personnel in erosion and sediment control operations.
4. Certified through the NDDOT Erosion & Sediment Control Construction Certification Training and maintain that training throughout the term of the contract.

C. Duties. The supervisor shall:

1. Provide erosion and sediment control as required by the SWPPP, Plans, and Specifications.
2. Be on the site to supervise the installation, operation, inspection, maintenance, and removal of the erosion and sediment ESCMs.
3. Update the SWPPP as work progresses to show changes due to revisions in work schedules or sequence of construction, or as directed by the Engineer. Update the site map to reflect erosion and sediment ESCMs that have been installed, changed, or removed.
4. Propose changes to improve erosion and sediment control.
5. Be accessible to the job site within 24-hours.
6. Provide the Engineer with documentation of all erosion and sediment control activities and inspections as required above.

4. PERFORMANCE

Correct all areas of noncompliance within 24 hours after notification of noncompliance. If corrective actions are not taken within 24 hours, the Engineer may:

1. Assess a contract price reduction of \$500 per day per instance;
2. Have deficiencies corrected by another Contractor and deduct the cost of the work from the monies due or to become due to the Contractor;
3. Suspend all work; or
4. Withhold payment on other contract items/pay estimates.

These actions will be applied until deficiencies have been corrected.

5. BASIS OF PAYMENT

ESCM installation will be paid for at the contract unit price for erosion and sediment control for the appropriate items and sections. The plans will detail the required ESCMs for temporary and permanent installations. The same bid items may be used for temporary and permanent ESCMs.

ESCM items will be measured as specified in the "Method of Measurement" portion of the appropriate section of the specifications.

ESCM item removal will be paid for at the contract unit price for "Remove _____" in the appropriate section of the specifications.

Include the costs for labor, materials, maintenance, equipment, disposal, adherence to the permit, and SWPPP modifications in the respective pay items.

When the Engineer directs the replacement of temporary erosion and sediment ESCMs that are no longer functional because of deterioration or functional incapacity and those items were installed as specified in the Contract or as directed by the Engineer, the Department will pay for replacement ESCMs

No payment will be made for replacing temporary erosion and sediment ESCMs that the Engineer determines are ineffective because of improper installation, lack of maintenance, or the Contractor's failure to pursue timely installation of permanent erosion and sediment ESCMs as required in the Contract.

No payment will be made for replacing temporary erosion and sediment ESCMs due to contractor operations. Include the cost to move Flotation Silt Curtain as work progresses in the price bid for "Flotation Silt Curtain".

Erosion and sediment controls for Contractor Controlled Areas are the responsibility of the Contractor and will not be paid for by the Department.

Removal of sediment from silt fence and fiber rolls will be paid for at the price listed in the "Price Schedule PS-1."

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
LOCAL AGENCY CONTRACTS

References to NDDOT, Department, Director, or Engineer in the Standard Specifications for Road and Bridge Construction and other portions of the Contract must be construed as referring to the Owner of the project.

If the Contractor intends to file a claim for additional compensation for work or material not covered by the Contract, the Contractor is required to prosecute the claim in accordance with the 2014 Standard Specifications for Road and Bridge Construction, Section 104.05, "Claims for Adjustment". The provisions of Section 104.05 D, "Conditions Precedent to Contractor's Demand for Arbitration", are not applicable to this Contract, nor are the provisions of North Dakota Century Code §24-02-26 et seq. regarding arbitration applicable, as the North Dakota Department of Transportation is not a party to the Contract.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**SPECIAL PROVISION****BUY AMERICA****DESCRIPTION**

Replace Section 106.08, “Buy America”, with the following:

Buy America.**A. General.**

Provide materials from domestic sources when products are permanently incorporated into the work and the products are composed of steel or iron materials.

Ensure all manufacturing processes, including applications of coatings, occur in the United States. A coating includes all processes required to apply the coating to a product to protect or enhance the value of the product.

The requirements of this SP are not applicable to the temporary iron and steel materials, including materials left in place at the Contractor’s convenience.

B. Steel and Iron Certification.**1. General.**

All certifications are submitted by the prime Contractor. When submitting certifications for materials that are subject to the requirements of this section, the prime Contractor shall include a signed letter stating that the submitted documentation is the documentation that was received by the prime contractor for the material incorporated into the work. The prime Contractor’s signature on the Department’s Certificate of Compliance form meets this requirement.

2. Bulk Manufactured Materials.

In addition to the requirements of Section 106.01 C, “Certificate of Compliance”, submit a contractor’s Certificate of Compliance stating that the iron and steel products listed in Table 1 that are permanently incorporated into the work are of domestic origin.

Table 1

| | |
|---|-----------------------------|
| Mailbox supports | Cable Fence Materials |
| Chain Link Fence Materials | Barbed Wire Fence Materials |
| Guardrail Components | Woven Wire Fence Materials |
| Culvert Markers | Delineators |
| Perforated Tube Sign Supports and Related Materials | |

3. Other Steel and Iron Products.

For steel and iron products permanently incorporated into the work that are not listed in Table 1, submit a manufacturer’s Certificate of Compliance as specified in Section 106.01 C, “Certificate of Compliance” and the following information:

- a. A signed mill test report.
- b. A signed certification from each fabricator and manufacturer that has handled the steel and iron products affirming that all processes performed on the steel and iron products were conducted in the United States.
- c. Material descriptions, quantities, and a means of material identification (lot number, bin number, heat number, or factory identification) for each process performed on the steel and iron products.

Each certification shall contain the material identification from all previous fabricators and manufacturers in the process.

C. Foreign or Uncertified Products.

These requirements allow the use of steel and iron products produced and manufactured outside the United States, or products that cannot be certified as originating in the United States, of a total value less than 0.1 percent of the original contract amount, or \$2,500, whichever is greater.

The total value is that shown to be the cost of the steel and iron products as delivered to the project site.

Document the cost of:

- Foreign steel and iron products, plus
- Steel and iron products which cannot be certified as originating in the United States.

Submit the documentation of foreign and uncertified products with the certifications required in Section B, “Steel and Iron Certification” of this SP.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**SPECIAL PROVISION****CERTIFICATE OF COMPLIANCE (CoC)****DESCRIPTION**

Section 106.01 C, "Certificate of Compliance" is no longer valid. Use this Special Provision in place of that section.

Certificate of Compliance

A Certificate of Compliance (CoC) states that the materials represented by the CoC comply with the contract requirements.

All materials manufactured off-site require either a Manufacturer or Contractor CoC. Materials listed in Table 1 require a Manufacturer CoC. All other materials require a Contractor CoC.

Submit a CoC before incorporating the material into the work. Submit CoC's electronically. Some materials require the submission of additional information as part of the CoC. When this is required, the contract documents will state the additional requirements.

The Department will not include quantities of material represented by a CoC on a progressive estimate until the Contractor has fully met the CoC requirements.

The Department may sample, test, and inspect material represented by a CoC at any time before project acceptance, and will accept or reject materials based on inspections or test results.

A. Manufacturer Certificate of Compliance.

A Manufacturer CoC requires the signature of a person having the legal authority to act for the material manufacturer. The manufacturer and prime contractor must sign the Manufacturer CoC.

Provide Manufacturer CoC for the products shown in Table 1. The entity batching Portland Cement Concrete is considered the manufacturer.

Table 1
Manufacturer Certificates of Compliance

| Section | Item |
|---------|---|
| 604 | Prestressed Concrete Beams |
| 606 | Precast Reinforced Concrete Box Culverts |
| 802 | Portland Cement Concrete |
| 804 | Cement (excluding Section 802) and Lime |
| 820 | Fly Ash (excluding Section 802) |
| 830 | Pipe and Drainage Structures |
| 834 | Structural Steel |
| 836 | Reinforcing Steel, Dowel Bars, and Tie Bars |
| 840 | Piling |

Table 1
Manufacturer Certificates of Compliance

| | |
|-----|---|
| 846 | Preservatives and Pressure Treatment Process for Timber (excluding materials provided under Sections 752 and 764) |
| 858 | Geosynthetics |

Submit Manufacturer CoC using the form [Manufacturer Certificate of Compliance \(SFN 61041\)](#).

B. Contractor Certificate of Compliance.

A Contractor CoC requires the signature of a person having the legal authority to act for the prime Contractor. The prime Contractor may require the manufacturer, supplier, or subcontractor to sign the Contractor CoC.

Submit Contractor CoC using the form [Contractor Certificate of Compliance \(SFN 61040\)](#).

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

WORK DRAWINGS SUBMITTALS

DESCRIPTION

Section 105.08 B, "Work Drawings Submittal Requirements" and Section 105.08 C, "Engineer's Response to Work Drawings" are no longer valid. Use this Special Provision in their place.

105.08 WORK DRAWINGS

B. Work Drawing Submittal Requirements.

Submit work drawings by either of the following methods:

1. Paper Submittal.

Submit a cover letter and two copies of the work drawings to the Engineer.

2. Electronic Submittal.

To submit the work drawings electronically to the Engineer, post a cover letter and one electronic copy of the work drawing to the Department's managed file transfer (MFT) website. Follow the requirements of NDAC Title 28 for all submittals.

Contact the Engineer to receive instructions describing how to upload files to the MFT website.

C. Engineer's Response to Work Drawing.

Allow 21 days for the Engineer to review the work drawing. The Engineer will respond in one of the following ways:

- No Exceptions Noted;
- Returned for Correction;
- Not Required for Review; or
- Not Acceptable.

If the work drawing is returned stating "Returned for Correction" or "Not Acceptable", make necessary revisions and resubmit the work drawing as specified in Section 105.08, "Work Drawings".

After the Department has reviewed the work drawings, the Department will return the reviewed work drawing submittal to the Contractor as follows:

- If a paper submittal, the Engineer will return the reviewed drawings to the Contractor.
- If an electronic submittal, the Department will post reviewed work drawings on the MFT site and will send an email notification to the Contractor that the reviewed work drawings are available on the MFT site. Retrieve the reviewed work drawings from the MFT site within 30 calendar days. The Department will delete files from the MFT site after 30 calendar days.

Include the cost of drafting and submitting work drawings in the contract unit price for the relevant contract items.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION

Haul Roads

DESCRIPTION

Section 107.08, "Haul Roads" is no longer valid. Use this Special Provision in its place.

107.08 HAUL ROADS

A. General.

Before submitting a proposal, contact the appropriate State, County, Township, or City officials to determine if there are any roadways that will be designated as "no haul" routes.

Notify the Engineer of each public road proposed for use as a haul road before hauling over that route. The Engineer will designate the most practical route for transporting materials and designate the route as a "haul road," upon completion of the pre-haul inspection unless deemed unacceptable by a local jurisdiction request.

Change the route of a designated haul road only with the Engineer's written approval. For route change requests made for the Contractor's convenience, the Engineer may require an agreement limiting the Department's liability for the cost of maintenance and restoration of the haul road.

The Engineer will consider the entire haul cycle, loaded and empty, when designating haul routes.

B. Designation of Haul Roads

The Engineer will not designate paved roads off the state system as haul routes.

The Engineer will not designate a road susceptible to severe damage from concentrated heavy hauling as a haul road unless no alternate route is available. Investigate alternate routes before submitting a proposal.

If the Contractor desires to haul on a road that the Engineer determined to be unsuitable for hauling, the Engineer will designate that road as a haul road if the Contractor provides improvements that the Engineer and Contractor agree make the road suitable. Make these improvements at no additional cost to the Department.

If the Engineer determines that pre-haul improvements to a designated haul road will reduce the maintenance or restoration costs, the Department will pay for the materials used to make pre-haul improvements.

A route used to haul material from a commercial pit to the project site is not considered a haul road. A commercial pit is a pit that meets one of the following criteria at the time the project is advertised:

1. The pit has long-term facilities in place and partially derives its annual sales from ongoing operation and sources other than Department or other short-term government contracts;
2. The operator owns the land or has a long-term lease, and did not primarily set up and equip the pit at the location to serve Department contracts; or
3. The operator regularly advertises the availability of material for public sale and has facilities available for effecting public sales at times when there are no government contracted projects utilizing the pit.

C. Pre-Haul Inspection.

Before hauling over a designated haul road, the Engineer, the Contractor, and the agency charged with control and maintenance of the route will make a joint inspection of the haul road. The joint inspection will determine the existing condition of the haul road, including the type, thickness, and width of the surfacing material. The Engineer will record the results in an inspection report. The inspection report will set forth any special conditions for use, maintenance, and restoration of the route. The Contractor, the Engineer, and the agency charged with control and maintenance of the route shall review and sign the report.

D. Use, Maintenance, and Restoration.

Maintain the haul roads used by public traffic in a condition that safely and adequately accommodates public traffic.

If the Contractor damages the haul road by hauling loads in excess of the legal limit, or through negligence or failure to perform maintenance, the Contractor shall repair the damage; the Department will not pay the Contractor for the repairs.

After completing hauling operations over a designated haul road, restore the road to a condition at least equal to the condition existing at the time of the pre-haul inspection. The Engineer will order the type and amount of maintenance and restoration work and the requirements for performing this work.

Maintain and restore the road as required despite the use of the haul road concurrently by other traffic. For haul roads jointly used by multiple contractors on Department contracts, the Engineer will determine the respective obligations for maintenance and restoration.

For haul roads under Department jurisdiction, the Department will only relieve the Contractor of any further obligation for restoration of the road when the Contractor has restored the road to the condition required in the pre-haul inspection report, as accepted in writing by the Engineer. For haul roads under other jurisdiction, obtain a haul road release from the agency charged with control or maintenance of the route and submit a copy of the executed release to the Engineer.

If the Engineer determines that dust from hauling operations on designated haul roads is creating a hazard to traffic or a nuisance to the public, apply water to the haul road as necessary to control the dust.

E. Materials and Construction.

Materials and construction methods used in performing maintenance and restoration work shall meet the requirements of the relevant specifications.

F. Method of Measurement.

The Engineer will measure all approved quantities of material ordered by the Engineer for pre-haul improvements, maintenance, and restoration of designated haul roads as specified in the applicable portions of the contract. The Engineer will measure water used for dust control as specified in Section 216.05, "Method of Measurement".

G. Basis of Payment.

The Department will pay the Contractor for measured quantities of material ordered by the Engineer for pre-haul improvements, maintenance, and restoration of designated haul roads in accordance with Section 109.03, "Compensation for Contract Revisions."

The Department will not pay the Contractor for the costs to maintain and restore routes used to haul materials from commercial pits. Include these costs in the contract unit prices of the relevant contract items.

If maintenance and restoration work only requires the use of equipment, the Department will not pay the Contractor for the costs to use the equipment. Include these costs in the contract unit prices of the relevant contract items.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

LIMITATIONS OF OPERATIONS

DESCRIPTION

Section 108.05, "Limitations of Operations" is no longer valid. Use this Special Provision in its place.

108.05 LIMITATION OF OPERATIONS

A. General.

Perform the work in a manner and sequence that minimizes interference to traffic, and with due regard to the location of detours and provisions for handling traffic. Do not begin work to the prejudice or detriment of work already started; the contract may require a section of roadway to be finished before starting additional sections if the opening of the section is essential to public convenience.

If the prosecution of the work is discontinued, provide the Engineer at least 24-hours notice before resuming operations.

B. Holidays.

Unless the contract allows work on holidays, perform work on holidays only with the Engineer's prior written approval. Submit a written request to the Engineer by noon 2 business days before the requested holiday.

C. Night-time Operations and Extended Hours.

1. General.

When performing work in low light conditions, implement proper safety precautions and provide adequate lighting for the performance and inspection of the work.

2. Nighttime Operations.

Unless the contract allows for nighttime operations, perform work at night only with the Engineer's prior written approval.

Submit a written request to the Engineer a minimum of 7 calendar days before anticipated nighttime operations. The Engineer may deny the request or delay approval if it would require additional staffing considerations. If nighttime operations requires the Engineer to hire additional forces, nighttime operations may not be allowed for up to 30 days from the receipt of the request.

When requesting to perform nighttime operations, include a plan to ensure the safety of all individuals on the project site, including the Contractor's and subcontractor's workers, Department representatives, and the traveling public.

The Department bears no liability for costs or delays resulting from the Engineer's approval, rejection, or delay for staffing purposes of a request to perform nighttime operations.

3. Extended Hours.

Extended hours are allowed before sunrise with verbal notice given to the Engineer the previous day. Extended hours are allowed after sunset with verbal notice given to the Engineer that same day.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**SPECIAL PROVISION****STREET LIGHTING****PROJECT SU-5-983(059)059 – PCN 21723**

This document was
originally issued and sealed
by
Andrew Schrank
Registration Number
PE-9814, on
9-1-17 and the original
document is stored at the
City of Dickinson, ND
City Hall

1. GENERAL

This work consists of furnishing, installing, and modifying components for the street lighting system.

2. EQUIPMENT

Reserved.

3. MATERIALS

Use new materials unless otherwise noted in the Plans.

A. STREET LIGHT POLES AND ARMS

Poles to conform to "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals", current edition at the time of bid opening.

Use lighting poles that consist of a continuous tapered round steel pole shaft of the length specified, pole cap, anchor bolt cover, and hand hole cover(s), with the bolts, nuts, and washers necessary to complete the installation of the pole shaft. Install poles on concrete foundations with anchor bolts. Use non-corrosive, cadmium-plated, or equal fastening hardware.

Use luminaire mast arms manufactured of tapered steel tubing. Use an arm that tapers to provide a minimum of 7-1/2 inches of arm of a constant and uniform outside diameter of 2.4-inches perpendicular to the shaft for attaching the luminaire. Or, alternately, include a luminaire mounting end consisting of 2-inch, schedule 40 pipe, conforming to ASTM A53, welded in place so that a minimum of 7-1/2 inches are exposed for the attachment of the luminaire.

Use a 3 bolt, rain-tight, steel simplex fitting for the pole attachment end. Weld the fitting in place. Use high strength bolts conforming to ASTM A325.

Provide pole assemblies, luminaire mast arms and brackets, anchor-bolts and hand hole covers, and pole and mast arm caps that are hot-dip galvanized in conformance with ASTM A123, and then coated with 2 finish coats of high gloss powder coat consisting of Federal Standard 595 Color FS 37038 Matte Black polyurethane, industrial grade powder paint with 1.7 mil thickness minimum. Powder coat exposed portions of hardware. Use hot-dip galvanized associated hardware in accordance with ASTM A123.

Use anchor-bolt covers with a 2 piece ferrous metal design with a finish to match the pole shaft (including galvanizing and powder coating). Use anchor-bolt covers that cover the base plate completely. Firmly secure covers in place at the bottom of the pole. Place anchor bolt covers so they rest on the top of the foundation. Ensure anchor bolt covers do not exceed 6-inches in height.

Use luminaire arms for street light poles that meet the following requirements:

1. Can sustain a vertical load of 100 pounds applied within 3-inches of the luminaire end of the support with the support attached to a rigid structure
2. Vertical deflection does not exceed 5.5% of the bracket or mast arm length.
3. Luminaire brackets or mast arms can sustain a transverse horizontal load of 150 pounds applied within 3-inches of the luminaire end of the support with the support attached to a rigid structure.
4. The horizontal deflection does not exceed 10% of the bracket or mast arm length.
5. The pole attached devices does not develop any looseness within the specified loading range.

Use pole shafts with a round cross section, and an outer diameter that uniformly decreases in diameter at the rate of 0.14-Inch per foot of length.

Use straight pole shafts with a permissive variation not to exceed ¼-inch for each 10-feet of pole shaft. Plumb the pole prior to placing the grout or concrete cap. Shims or wedges of any kind are not acceptable to plumb the pole after the cap has been placed.

Use poles that can sustain a horizontal test load of 500 pounds applied 18-inches from the top of the shaft in any direction without failure of any component part, and with a deflection of not more than 7.5% of the pole shaft length as measured from point of load application to the base plate.

Use continuous welds that meet the following requirements:

1. Use a maximum of one circumferential weld for each 10-feet of length and 1 longitudinal weld in assembling the shaft.
2. Where the sections are butt-welded together, place the welded seams of adjacent sections together to form a continuous weld.
3. Reinforce butt joints in the pole/arm by using 3-inch wide sleeves of the same composition and gauge as the steel in the pole/arm.
4. Center sleeves at the joint and ensure they are in full contact with the metals that are being joined. Ensure the weld metal extends to the sleeve, making the sleeve an integral part of the joint.
5. Use AWS certified welders.

Grind surplus weld material or protrusions smooth. Ensure that:

1. Joints maintain the strength of the original metal.
2. Exposed welds, except fillet welds, are ground flush with the base metal.

Ensure sheet steel used in the manufacturing process of street light poles has a minimum yield of 48,000 psi, or which after forming or cold rolling develops a minimum of yield of 48,000 psi. Use poles with a minimum thickness of 0.119-inch for 11 gauge poles and 0.179-inches for 7 gauge poles. Ensure the shaft is formed from not more than 1 piece of sheet steel for each 10-feet of pole length.

Use pole bases that meet the following requirements:

1. Have 1-1/8 inch thick base plates for all gauges of pole shafts. Finish exposed edges of base plates smooth with the corners neatly rounded to a radius of ±1/8 inch.
2. Have 11-1/2 inch square base plates that conform to ASTM A27, Grade 65-35 cast steel; ASTM A36 steel plate; or ASTM A283, Grade D steel plate.
3. Have slotted base plates to accommodate four 1-1/8 inch anchor bolts equally spaced at the corners for a 10-1/2 inch to 11-1/2 inch bolt circle diameter. Use 2-1/8 inches long OD slots.

Telescope the pole shaft through the base plate and secure by 2 continuous welds; 1 on the inside at the bottom of the plate and the other on the outside on top of the plate.

Provide a hand hole 6-inches by 9-inches OD with a reinforced frame with slip-resistant indented type cover located 12-inches above the base plate. Secure the hand hole cover in place with two ¼-inch standard thread screws. Use weather and vandal resistant ¼-inch hexagonal socket head screws.

Supply a grounding lug interior to the pole shaft opposite the hand hole for securing the grounding connections. Use a threaded grounding lug to accept a standard ½-inch bolt. Weld the lug to the inside of the pole where it is easily accessed for maintenance and repairs.

Place the manufacturer's identification tag above the hand hole.

B. ANCHOR BOLTS

Use anchor bolts for standard lighting poles that conform to the following requirements:

1. Conform to ASTM F1554, Grade 55, or ATSM A307 with a minimum yield strength of 36,000 psi.
2. Provide and install anchor bolts with 2 hex nuts and two 2-inch flat washers.
3. Use anchor bolts, nuts, and washers that are galvanized for their entire length, by the hot-dip process conforming to ASTM A123 and ASTM A153.
4. Ensure that, after galvanizing, the bolt threads accept the standard galvanized nuts for the full length of the thread without requiring tools, causing removal of protective coating, or requiring rethreading of the bolt or nut.
5. Use anchor bolts for street light poles that are 1-1/8 inch diameter by 40-inches by 4-inches.
6. Ensure the upper 8-inches of the anchor bolts are threaded.

C. STREET LIGHTING LUMINAIRES – LED

Use the following LED luminaire: American Electric Lighting, Autobahn Series, model ATB2-60BLEDE10-MVOLT-R2-5000K-BL-NR with powder coat paint Federal Standard 595 Color FS 37038 Matte Black

1. Use luminaires with rugged die-cast aluminum housing, polyester powder-coat finish, full cut-off lens, LED engine/driver, tool free entry hinged door, terminal block, and quick disconnects.
2. Provide die-cast trigger latch on doorframe to allow for tool free entry and easy/secure opening with one hand allowing the door to swing free on its hinge.
3. Provide wildlife shield cast into the housing.
4. Use parts and fittings with a corrosion resistant finish.
5. Provide a bubble level located inside the electrical compartment. Also, provide a bubble leveling device on the exterior of the luminaire.

Ground the luminaire fixture to earth with an equipment grounding conductor.

Use a slip fitter capable of adapting to 1-¼ inch through 2-inch pipe brackets without rearrangement of parts, and that provides a 3G vibration rating according to ANSI C136.

Use luminaires that:

1. Provide a minimum of 17,000 delivered lumens with no less than 60 light emitting diodes.
2. Are capable of operating between 120 through 277 volts automatically. Connect luminaires to a 240 volt, 60 Hz circuit. Ensure each luminaire has a maximum system wattage that does not exceed 216 Watts.
3. Have an L70 (at 25°C) lumen maintenance greater than 100,000 hours. Ensure the electronic driver has an expected life of 100,000 hours or greater at 20°C ambient.
4. Have light emitting diodes that produce a light with a color temperature of 5000K CCT (ANSI Nominal).
5. Have an IES type 2 distribution.
6. Are provided with IEEE/ANSI C62.41 Category C surge protection.
7. Are rated for an operating temperature range of -40°C to 40°C.
8. Have labels in accordance with ANSI standards.
9. Have a 5 year warranty.

Level and adjust luminaires in accordance with instructions of the manufacturer or as directed by the Engineer. Ensure that the complete unit has uniform lines throughout and aesthetically combines in a

complete design. Ensure the luminaire maintains the horizontal line of the housing when properly mounted on the bracket arm.

D. FUSEHOLDERS AND FUSES

This subsection applies to multiple street lighting circuits.

Install fuseholders and fuses in the bases of all street lighting poles so they are accessible through the handholes. Use single pole fuseholders for 120 volts or double-pole fuseholders for 240 volts. Use waterproof fuseholders (without the use of tape) with integral or separate conductor insulating boots.

For the double-pole fuseholder for 240 volt operation, use 2 fuseholder chambers that consist of a line side section and a load side section that are secured together with a screw when properly closed. Ensure both load side connections are simultaneously disconnected when the fuseholder is opened.

Ensure electrical arcs that may occur when connecting the matching pieces while the circuit is operational are confined within the body when a properly sized fuse is seated firmly in the terminals.

Use fuse holders rated for 600 volts and that accept Midget 250 volt L4J12F fuse, or approved equal. Glass, paper, or indicating type fuses are not acceptable.

E. STREET LIGHTING SYSTEMS

Use 240 volt, single phase, 2-wire circuits that are connected in parallel (multiple). Use 2 wire systems that consist of two No. 4 AWG stranded copper conductors with black and red RHW-2 insulation to carry the load, and 1 green 6 AWG RHW-2 equipment bonding conductor.

Use 3 conductors (one of them ground) for the cable from the base of the light pole to the luminaire. Use No. 10 AWG solid copper with insulation, rated at 600 volts. Use individual conductors that are TW grade insulated, with a PVC outer jacket type UF grade.

F. STREET LIGHT CONTROLS

Use photoelectric controls that consist of a photometric unit and a contactor in the service pedestal. Include a bypass switch to permit manual operation of the lighting system contactor. Use photoelectric units for 120-volt operation on 2-wire or 3-wire single phase multiple lighting systems.

Ensure the contactor is:

1. Constructed in accordance with NEMA standards for lighting contactors with contacts rated to switch the specified lighting load.
2. The mechanical armature type consisting of an operating coil, a laminated core, a laminated armature, contacts, and terminals.
3. Installed with silver alloy contacts.
4. An integral part of the photoelectric unit and housed in the same compartment.

G. CONDUIT

Install underground conductors in polyvinylchloride (PVC) conduit listed by the Underwriters Laboratories, Inc. bearing the UL label on each length.

Do not install signal conductors and low voltage conductors in high voltage light standards.

Use PVC coated rigid steel conduit that consists of galvanized rigid steel conduit conforming to applicable federal specifications and Underwriters Laboratories.

Acid-treat the exterior surface of the conduit to provide an acceptable surface for plastic coating with a heat polymerizing lacquer with a thickness not to exceed 0.0005-inch thick. Then, bond a polyvinyl chloride compound to the prepared conduit with a thickness not less than 0.035-inch for the full length of the conduit except the threads. Ensure the bond between the metal and the plastic is equal to or greater than the tensile strength of the plastic coating. Ensure the PVC compound used has the following physical characteristics:

1. Hardness: 85+ Shore A Durometer
2. Dielectric Strength: 400 (Volts/mil @ 60 cycles)
3. Tensile Strength: 3,500 psi

Use PVC coated rigid steel for all 90° elbows and all other conduit bends of 45° or more installed as part of electrical raceways exceeding 300-feet in length and that are to be used as components shall be PVC coated rigid steel.

H. CONDUCTORS AND CABLE

Use conductors and cable that conform to the following requirements:

1. Use copper wire meeting applicable portions of ASTM D2220, ASTM B3, and ASTM B8.
2. Use Insulation for multiple circuit lighting conductors rated at 600 volts, 194° F minimum. Use 7-strand No. 4 AWG copper wire with RHW-2 insulation for lighting conductors.
3. Ensure insulation for service feeds between the transformer and the service pedestal or pole are rated at 600 volts, 194° F minimum. Use conductors with a minimum stranded No. 4/0 AWG copper wire with RHW-2 insulation with a SE or USE rating as required by the NEC.

4. PERFORMANCE

Ensure systems are complete and in satisfactory operating condition at the time of acceptance, including successful completion of all testing required.

Ensure all work performed on any street lighting component or system is done under the direct on-site supervision of an Electrician licensed in North Dakota as a Journeyman or greater. Ensure that a licensed electrician supervises the installation of electrical raceways that are part of a street lighting system.

A. EXCAVATING AND BACKFILLING

Perform excavations required for the installation of conduit, foundations, and other facilities in a manner to cause the least possible damage and disturbance to the native soil, streets, sidewalks, and other improvements. Limit excavations to the size necessary for the proper installation of conduit, electrical facilities, and foundations. Do not perform excavations until immediately before installation of conduit, facilities, and foundations.

Do not leave excavations open overnight except when adequate protection for the public, including pedestrians, is provided.

Do not place material from excavations in areas that will disrupt vehicular and pedestrian traffic, or in areas where surface drainage will occur.

Surplus excavated material shall be removed and disposed of by the Contractor outside of the right-of-way.

Backfill excavated areas according to Standard Specification Section 203.04 E.2.

B. FOUNDATIONS

Rest the bottom of concrete foundations on firm, natural, undisturbed ground.

Finish tops of footings for posts and poles, except special foundations, 1-inch above grade of curb or sidewalk. Form the exposed portions of the foundations to present a neat appearance.

Ensure forms are rigid and securely braced in place prior to placing concrete. Hold conduit ends and anchor bolts in place by means of a template until the concrete sets. Moisten forms and soil which will be in contact with the concrete before placing concrete. Do not remove forms until the concrete has thoroughly set. Strip forms away from the foundation to at least one (1) foot below finished grade. Apply a standard surface finish to exposed surfaces of concrete.

Allow concrete for bases and foundations to cure for a minimum time of 72 hours before live loads are set on the foundation. Luminaire arms are considered live loads.

C. WIRING AND CONDUIT

Use wire that conforms to appropriate articles of the latest version of the National Electrical Code (NEC). Ensure wiring within pedestals and junction boxes is neatly arranged.

Use powdered soapstone, talc, or other approved lubricant when installing conductors in conduit. Remove excess lubricant.

Provide a minimum of 18-inches of slack coiled within each streetlight pole and at least 2-feet of slack coiled in each pull box. The length of slack is that amount of extra conductor that is available to be pulled completely out of the pole shaft or pull box.

Use split bolt or gel-cap type splices. Use gel-cap types that:

1. Consist of a kit containing a high abrasive and impact resistant clear elastomer cap factory-filled with cross-linked silicon gel for environmental sealing.
2. Have silicon gel that will not become hard or brittle and has a temperature tolerance of -40°F to +221° F.
3. Have a UV-resistant cap, clamp, and gel.
4. Contain a split bolt connector and accommodate a range of cable sizes.
5. Permit removal and re-entry of wiring for maintenance purposes without damage to the splice kit.

Tape all ends of the conductors and cables to exclude moisture when conductors and cables are pulled into the conduit. Tape ends of spare conductors.

Use a 6 AWG stranded copper conductor with green RHW-2 insulation, which is secured at both ends by a conduit cap with a J-hook for all new street lighting conduit for future use. Install a yellow polyethylene pull string in the conduits for future use. Leave the 6 AWG green conductor in the conduit at all times for locating and grounding purposes. Perform all splices using waterproof methods.

Run conductors from terminal to terminal without splices. Ream the ends of all conduits to remove burrs and rough edges. Ensure field conduit cuts are made square and true so that the ends will butt or come together for the full circumference in the couplings or adapters. Do not use slip joints or running threads for coupling metal conduit.

Tighten couplings for steel conduit until the ends of the conduits are brought together so a good electrical connection will be made throughout the entire length of the conduit run.

Conduit ends shall be threaded and capped with standard pipe caps until wiring is installed. Approved conduit bushings shall be installed when the caps are removed.

Manual or power operated equipment normally used for cutting rigid steel conduit is acceptable for use in cutting PVC coated rigid steel conduit. Do not peel PVC back before cutting. Ream all cuts. Use the same threading procedure as for non-coated rigid conduit. Touch up all scarred and grip marked areas with approved heavy consistency coating compound.

Hand-tighten all couplings and threaded fittings for PVC coated rigid steel prior to using a wrench. Re-coat all wrench marks and scores and seal joints with heavy consistency PVC compound.

Ensure that the final installation does not have exposed metal areas.

Use standard field bending techniques, which typically use a shoe 1 size larger to accommodate the larger pipe diameter. Bend rigid steel conduits without crimping or flattening. Do not include more than two 45° bends and two 90° bends in a single run.

Extend conduit terminating in lighting poles 3-inches above the crash cap but not above the hand hole.

Bring conduit into the concrete pull boxes from the bottom. Terminate conduit at least 2-inches inside the box wall and 4- to 6-inches above the bottom of the pull box. Provide at least 6-inches of clearance between the top of the conduits and the bottom of the pull box cover. Install the conduits to facilitate pulling of conductors. Locate conduit entering the bottom of a pull box near the end walls to leave the major portion of the box clear. At all outlets, bring the conduit into the box from the direction of the run.

Lower conduits as necessary in the vicinity of poles, posts, pull boxes, electrical vaults, and other electrical enclosures for the conduits to facilitate entrance into the enclosure. Do not modify existing pull boxes, electrical vaults, lighting poles or posts, cabinets, pedestals, or any other electrical device for the purpose of entering the device with the conduits without written approval of the Engineer. Seal entry points and form fit them with grout or other acceptable material.

Clean existing underground conduit to be incorporated into a new system by blowing out with compressed air.

D. ELECTRICAL SERVICE

Coordinate with the utility company to obtain access to existing feed point.

Use 4/0 AWG, stranded, copper wire with RHW-2 insulation with a SE or USE rating as required by the NEC for electric service conductors.

E. PULL BOXES

Maintain a minimum of 6-inches of clearance between the top of the conduits and the bottom of the pull box cover.

Extend a minimum of 4 inches of conduit into the pull box.

Install conduit caps to help prevent the entry of foreign material into the electrical raceway.

F. BONDING AND GROUNDING

Metallurgically join together and make mechanically and electrically secure metallic cable sheaths, steel conduit, metal poles, pedestals, pull boxes, and other metal enclosures together to form a continuous electrical conducting path. Effectively ground components as required by the National Electrical Code.

In ground system conduits, use a No. 6 AWG, stranded copper grounding conductor with RHW-2 insulation.

Bond street light poles and foundations with a bare No. 4 AWG stranded copper wire attached to each anchor bolt, ground rod, and to the grounding bolt installed on the lower lip of the lighting pole hand hole or inside the base of the pole. Connect the grounding end of the bare wire to a grounding plate installed under a felt protective insulator under the foundation. Provide a 1/2"x10' minimum ground rod installed through the concrete foundation as required by ND State Electrical Code. Bond using a bare No. 4 AWG stranded copper wire. Connect the No. 6 AWG green systems grounding conductor from the conduit and the No. 10 AWG luminaire ground to the No. 4 AWG bare foundation grounding wire.

Connect all electrically conductive materials of the electrical system to earth and system grounds. Conform to the following:

1. Ground metallic pull box covers with No. 4 AWG 7-strand copper bare wire connected to the system ground and the pull box cover. Make the connection to the pull box cover using an exothermal welding system that is appropriate for the material of the cover. Use an irreversible compression type connector to connect to the system grounding conductor.
2. Ensure grounding of conduit and neutral at the service point complies with the applicable sections of Article 250 of the National Electrical Code.

3. Equip pole foundation grounding wire with a copper grounding lug attached to the equipment ground screw. Size the lug to fit over the ½-inch grounding bolt of the pole. Use an irreversible, compression type component grounding lug installed on the bare grounding conductor approximately 24-inches from the end of the wire to allow connection of other grounding conductors. Install the grounding lug so that the bare grounding wire end, when pulled through the hand hole, has a minimum length of 12-inches outside of the pole.
4. Connect the No. 6 AWG green system grounding conductor from the conduit and all other grounding conductors servicing equipment on the pole to the end of the bare grounding conductor with a removable, mechanical device such as a split bolt.

G. ELECTRICAL TESTING

Prior to acceptance of the work, perform the following tests on all lighting and electrical circuits in the presence of the Engineer:

1. Test for continuity of each circuit.
2. Visually inspect all grounding connections. Do not energize electrical equipment and components unless properly grounded.
3. Perform a megohmmeter test on each single conductor circuit between the circuit conductor and all other circuits and ground in the conduits.
 - a. Ensure insulation resistance is not less than 500 megohms when tested at 1,000 volts for 1 minute.
 - b. The Engineer shall exempt individual conductors in UF cable and other multi-conductor cables shall be exempted from the megohmmeter testing if a visual inspection of the cables show no suspicious cuts, tears, or other damage to the outside insulation.
 - c. Do not subject street light fixtures or other low voltage components to the high voltage of this test.
4. Replace any fault in material or in a part of the installation revealed by these tests. Repeat the same tests after repairs until corrected.

5. MEATHOD OF MEASUREMENT

The Engineer will measure, completed and in place, as specified in Standard Specification Section 109.01 "Measurement of Quantities" and as follows:

1. The Engineer will not measure conduit that is placed in concrete foundations and in feed points.
2. The Engineer will include the additional conductor lengths in the measurement of the conductor.

6. BASIS OF PAYMENT

| Pay Item | Pay Unit |
|--|-----------------|
| Concrete Foundation – Highway Lighting | Each |
| 2" Diameter Rigid Conduit | Linear Foot |
| Underground Conductor No. 4 RHW | Linear Foot |
| Underground Conductor No. 6 RHW | Linear Foot |
| Pull Box | Each |
| LT STD 8FT MA 32 FT Pole Breakaway | Each |
| LED Luminaire | Each |

Such payment is for full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

END OF SECTION

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**SPECIAL PROVISION****INTERNAL MANHOLE CHIMNEY SEALS****PROJECT SU-5-983(059)059 – PCN 21723**

This document was
originally issued and sealed
by
Andrew Schrank
Registration Number
PE-9814, on
8-18-17 and the original
document is stored at the
City of Dickinson, ND
City Hall

1. GENERAL

This specification includes the materials and procedures required for the internal sealing of the entire chimney area of sanitary and storm sewer manholes that are being adjusted.

2. EQUIPMENT

Use the manufacturer's recommended expansion tool and all other equipment/tools necessary to prepare the surfaces of the manhole and install the frame seals.

3. MATERIALS**A. Frame Seal.**

Use frame seals consisting of a flexible internal rubber sleeve, extensions, and expansion bands.

Provide manhole frame seal designed to prevent leakage of water through the above described portions of the manhole throughout a 50 year design life. Provide seal designed to be installed in manholes where the diameters of the frame and chimney differ by up to 20%.

Provide a frame seal capable of repeated vertical movement of not less than 2-inches and/or repeated horizontal movement of not less than 1/2-inch after installation and throughout its design life. Provide a test report from a qualified testing agency showing that the seals meet the performance requirements. The test unit shall consist of a watertight base unit, at least 1 unsealed grade ring or brick course, and a differentially moveable, unsealed, manhole frame. The Engineer reserves the right to observe the testing. Include the results of the following test performed on a test unit on which the frame seal is attached in the required test report.

1. Raise the manhole frame 2-inches and move laterally 1/2-inch. Hold frame in this position for a minimum of 100 hours, after which, return frame to its normal position.
2. Then, place the same test unit in a water tank filled to just below the top of the frame. Raise the frame 2-inches and lower back down through a minimum 30 cycles. Then, raise the frame 2-inches and hold in that position while the frame is moved laterally 1/2-inch. Finally, return the frame to its normal position to complete the test. The seal shall remain in place and watertight throughout the duration of the test. Any displacement, dislodgement, or leakage of the seal shall be cause for failure. Any seal that fails the test may be reworked and retested.

B. Rubber Sleeve and Extension.

Provide a seal extruded or molded from a high grade rubber compound conforming to the applicable material requirements of ASTM C-923, with a minimum 1500 psi tensile strength, maximum 18% compression set and a hardness (durometer) of 48±5.

Provide double, triple, or quadruple pleated seal with a minimum unexpanded vertical height of 8-inches, 10-inches, or 13-inches, respectively, and a minimum thickness of 3/16-inches. Provide an integrally formed expansion band recess and a series of sealing fins to facilitate a watertight seal at the top and bottom section of the sleeve that compresses against the manhole frame casting and the chimney/cone. Provide teardrop holes or air pockets on the sealing fins to allow the sealing area to conform to minor surface irregularities that may be encountered.

Provide a top section with a minimum thickness of 3/32-inches that is shaped to fit into the bottom band recess of the sleeve under the bottom chimney seal band, with the remainder of the extension having a minimum thickness of 3/16-inches. Provide an integrally formed expansion band recess and multiple sealing fins matching that of the rubber sleeve on the bottom section of the extension. Do not use hot vulcanized splices to fabricate the sleeve.

Use hot vulcanized extensions with a strength such that the sleeve will withstand a 180° bend with no visible separation.

C. Expansion Bands.

Use integrally formed from 16 gauge stainless steel with a minimum width of 1¾-inches conforming to the applicable material requirements of ASTM A-240 Type 304 with no welded attachments.

Supply bands having a minimum adjustment range of 2½ diameter inches. Provide a mechanism to expand the band with the capacity to develop the pressures necessary to make a watertight seal. Permanently hold the band in place with a positive locking mechanism that secures the band in its expanded position after tightening.

D. Cementitious Grout.

Use a premixed, non-metallic, high strength, non-shrink grout which meets the requirements of ASTM C-191 and C-827 as well as CRD-C-588 and C-621. Use grout having a minimum one day and 28 day compressive strength of 6,000 and 9,000 psi, respectively, when mixed to a mortar or "plastic" consistency.

4. CONSTRUCTION REQUIREMENTS**A. Preparation.**

Field measure the manholes to determine the information required for the manufacturer's sizing and ordering procedure.

Clean surface to be sealed and repair rough areas or excessive honeycombing. The top internal portion of the manhole cone shall have a minimum 3-inch high vertical surface. Prepare the surface in accordance with the frame seal manufacturer's instructions if this vertical surface does not exist.

B. Installation of Frame Seal.

Install the internal frame seals and extensions in accordance with the manufacturer's instructions.

C. Quality Assurance.

Engineer will visually inspect manhole frame seals after installation to insure that the seal is properly positioned, tight against the manhole and frame surfaces, that no voids or leakage points exist, and that the bands are securely locked in place. Rework and retest any seals not meeting the requirements of this inspection as determined by the Engineer. Any seals not passing this

visual inspection may, at the Contractor's option, be tested for leakage using a method approved by the Engineer.

5. MEASUREMENT AND PAYMENT

The Engineer will not measure Internal Manhole Chimney Seals as separate items. Include materials, labor, and work described herein in the "Adjust Manhole" bid item.

END OF SECTION

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION

FUEL COST ADJUSTMENT CLAUSE
Revision Date: 9/8/2006

Introduction

This Special Provision provides for price adjustments to the Contract when significant changes in the cost of motor fuels and burner fuels occur while completing the Contract work. Participation in fuel cost adjustment program is not mandatory. A Contractor is not required to notify the Department at the time of submitting bids whether the Contractor will or will not participate in the fuel cost adjustment provision.

The North Dakota Department of Transportation (NDDOT) will send the low responsible bidder a "Fuel Cost Adjustment Affidavit" (SFN 58393) with the proposed Contract. The Contractor shall return a completed Fuel Adjustment Affidavit with the signed Contract as specified in Standard Specification Section 103.06, Execution and Approval of the Contract. The affidavit shall be returned on all Contracts with this provision even if the Contractor elects not to participate in the provision.

Compensation adjustments for motor fuels and burner fuels consumed in prosecuting the Contract shall be determined by the Engineer in accordance with the provisions set forth herein. Compensation adjustments will be assessed monthly for the cost of the motor fuels and burner fuels whenever the Current Fuel Index (CFI) is outside the given threshold of the Base Fuel Index (BFI) for the Contract.

If the Contractor has a fixed price for fuel for motor or burner fuels to complete the work, no fuel cost adjustments will be made for that fuel type. If there is no fixed fuel price for motor or burner fuels, participation in the Fuel Adjustment provision is the decision of the prime Contractor.

If the prime Contractor decides not to participate, no fuel cost adjustments will be made to the Contract for the Contractor or any subcontractors. If the prime Contractor elects to participate in the fuel cost adjustment provision, the prime Contractor shall include the anticipated fuel cost of subcontractors who wish to participate. If fuel cost adjustments are made to the Contract, the prime Contractor shall ensure that participating subcontractors including second and lower tier, are included in the adjustments in proportion to the percentage of work and anticipated fuel cost by that subcontractor.

Fuel Indexes

Each month, NDDOT will record the average wholesale price for No. 2 diesel fuel and the average wholesale price for unleaded gasoline (87 octane). The monthly average will be the average of the daily rack prices for the month as reported by DTN Energy for Fargo ND.

The burner fuel index will be the No. 2 diesel fuel index regardless of the type of burner fuel actually used.

The Base Fuel Index (BFI) price for motor fuels and burner fuel to be used in the Contract will be the average wholesale price for the month prior to the bid opening.

The Current Fuel Index (CFI) price for motor fuels and burner fuel to be used for each monthly adjustment will be the average wholesale price for the month prior to the adjustment month.

Fuel Ratio

For motor fuels diesel and unleaded gas, the fuel ratio of the Contract will be determined by dividing the Contractor's affidavit costs for each motor fuel by the original Contract amount.

For burner fuels, the fuel ratio of the contract will be determined by dividing the Contractor's affidavit cost for burner fuels by the original Contract amount of plant-mixed hot bituminous pavement paid by the ton. Asphalt cement, binders and other miscellaneous bituminous items shall not be included.

The fuel ratio of the contract for motor and burner fuels will remain the same throughout the length of the contract. The sum of the affidavit fuel costs shall not exceed 15% of the original Contract amount.

The fuel ratio for the three fuel types will be determined by the following equation:

| | | |
|---|---|--|
| Fuel Ratio_(x, y, z) = Affidavit Cost_(x, y, z) / Original Contract Amount_(x, y, z) | | |
| (x) | = | Motor Fuel (Diesel) |
| (y) | = | Motor Fuel (Unleaded) |
| (z) | = | Burner Fuel |
| Fuel Ratio _(x, y, z) | = | Fuel ratio of the contract for each respective fuel type |
| Affidavit Cost _(x, y, z) | = | Fuel costs from Fuel Adjustment Affidavit (SFN 58393) |
| Original Contract Amount _(x, y) | = | Total of the original contract amount excluding lane rental, and Part B of the bid (when A+B bidding is used), if applicable. |
| Original Contract Amount _(z) | = | Total original contract amount for all hot bituminous pavement bid items combined, excluding bid items for asphalt cement, sawing and sealing joints, coring, etc. Only hot bituminous pavement bid items measured by the Ton will be included in the calculation. |

Cost Change

The monthly change in fuel costs will be determined by the following equation:

| | | |
|--|---|---|
| Cost Change_(x, y, z) = (CFI_(x, y, z) - BFI_(x, y, z)) / BFI_(x, y, z) | | |
| (x) | = | Motor Fuel (Diesel) |
| (y) | = | Motor Fuel (Unleaded) |
| (z) | = | Burner Fuel (use diesel prices) |
| Cost Change _(x, y, z) | = | The relative change in the current CFI and the BFI for each fuel type |
| CFI _(x, y, z) | = | Current Fuel Index for each fuel type |
| BFI _(x, y, z) | = | Base Fuel Index for each fuel type |

Contract Adjustments

Contract adjustments will be made for the cost of motor and burner fuels whenever the cost change exceeds a ±0.10 threshold. No fuel cost adjustment will be made for work done under liquidated damages. Adjustments will be determined for Motor Fuel (diesel), Motor Fuel (unleaded), and Burner Fuel (burner) separately and shall be computed on a monthly basis.

When the cost change is greater than 0.10, the rebate to the Contractor for each fuel type shall be computed according to the following formulas:

| | | |
|---|---|--|
| $FCA_{(x, y, z)} = \text{Fuel Ratio}_{(x, y, z)} \times \text{Estimate}_{(x, y, z)} \times (\text{Cost Change}_{(x, y, z)} - 0.10)$ | | |
| (x) | = | Motor Fuel (Diesel) |
| (y) | = | Motor Fuel (Unleaded) |
| (z) | = | Burner Fuel |
| $FCA_{(x, y, z)}$ | = | Fuel Cost Adjustment for each of the fuel types |
| $\text{Fuel Ratio}_{(x, y, z)}$ | = | Fuel Ratio for each of the fuel types |
| $\text{Estimate}_{(x, y)}$ | = | The monthly total of work done on estimates issued in the current month excluding incentive or disincentive payments, pay factor adjustments and any work completed under liquidated damages. |
| $\text{Estimate}_{(z)}$ | = | The monthly total of hot bituminous pavement work done on estimates issued in the current month, excluding bid items for asphalt cement, sawing and sealing joints, coring, etc. Only hot bituminous pavement bid items measured by the Ton will be included in the calculation. Hot bituminous pavement work completed under liquidated damages will not be included. |
| $\text{Cost Change}_{(x, y, z)}$ | = | The monthly change in fuel costs for each of the fuel types |

When the cost change is less than -0.10, the credit to the Department for each fuel type shall be computed according to the following formulas:

| | | |
|---|---|--|
| $FCA_{(x, y, z)} = \text{Fuel Ratio}_{(x, y, z)} \times \text{Estimate}_{(x, y, z)} \times (\text{Cost Change}_{(x, y, z)} + 0.10)$ | | |
| (x) | = | Motor Fuel (Diesel) |
| (y) | = | Motor Fuel (Unleaded) |
| (z) | = | Burner Fuel |
| $FCA_{(x, y, z)}$ | = | Fuel Cost Adjustment for each of the fuel types |
| $\text{Fuel Ratio}_{(x, y, z)}$ | = | Fuel Ratio for each of the fuel types |
| $\text{Estimate}_{(x, y)}$ | = | The monthly total of work done on estimates issued in the current month excluding any incentive or disincentive payments, pay factor adjustments and any work completed under liquidated damages. |
| $\text{Estimate}_{(z)}$ | = | The monthly total of hot bituminous pavement work done on estimates issued in the current month, excluding bid items for asphalt cement, sawing and sealing joints, coring, etc. Only hot bituminous pavement bid items measured by the Ton will be included in the calculation. Hot bituminous pavement work completed under liquidated damages will not be included. |
| $\text{Cost Change}_{(x, y, z)}$ | = | The monthly change in fuel costs for each of the fuel types |

Payments

Adjustments will be determined by the Engineer monthly. Adjustments will be made under the following spec and code for each fuel type:

| | |
|----------|------------------------|
| 109 0100 | Motor Fuels (Diesel) |
| 109 0200 | Motor Fuels (Unleaded) |
| 109 0300 | Burner Fuel |

When significant payment adjustments are made on final estimates to account for final in-place measured quantities, the Engineer may prorate the adjustments back to the months when the work was done.

Attachments

For informational purposes, a 'Fuel Cost Adjustment Affidavit' (SFN 58393) is included as Attachment A.

FUEL COST ADJUSTMENT AFFIDAVIT

North Dakota Department of Transportation, Construction Services
 SFN 58393 (8-2017)

SP Fuel Cost Adjustment Clause
 6 of 6

Attachment A

| | | | |
|--|----------------|---------------------------------|------|
| PCN | Project Number | | |
| The Contractor is not required to notify the Department at the time of submitting bids whether he will or will not participate in the fuel cost adjustment program. The Contractor shall return the affidavit on all Contracts with this Provision even if the Contractor elects not to participate. | | | |
| Check the box for each fuel type that has a fixed price. No adjustments in fuel price will be made for the boxes that are checked. | | | |
| <input type="checkbox"/> Diesel <input type="checkbox"/> Unleaded <input type="checkbox"/> Burner | | | |
| Does your company elect to participate in a fuel adjustment for this contract for the fuels that do not have a fixed price? No adjustments in fuel prices will be made if No is checked . | | | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| If yes, provide the total dollars for each of the applicable fuels: | | | |
| Diesel (D) | | % of Original Contract Amount * | |
| Unleaded (U) | | | |
| Burner Fuel (B) | | | |
| Sum (D+U+B) | | | |
| *The sum of the D, U, and B may not exceed 15% of the original contract amount. | | | |
| Under the penalty of law for perjury of falsification, the undersigned, | | | |
| Name (print or type) | | Title (print or type) | |
| Contractor (print or type) | | | |
| <p>hereby certifies that the documentation is submitted in good faith, that the information provided is accurate and complete to the best of their knowledge and belief, and that the monetary amount identified accurately reflects the cost for fuel, and that they are duly authorized to certify the above documentation on behalf of the company.</p> <p>I hereby agree that the Department or its authorized representative shall have the right to examine and copy all Contractor records, documents, work sheets, bid sheets and other data pertinent to the justification of the fuel costs shown above.</p> | | | |
| Signature | | | Date |

Acknowledgement

| | |
|--|--------------------|
| State of | |
| County of | |
| Signed and sworn to (or affirmed) before me on this day _____ <small>(month, day, year)</small> | |
| Name of Notary Public or other Authorized Officer (Type or Print) | Affix Notary Stamp |
| Signature of Notary Public or other Authorized Officer | |
| Commission Expiration Date (if not listed on stamp) | |

AGREEMENT

Date: _____

THIS AGREEMENT is made and entered into on the date stated herein, between the City of Dickinson, a North Dakota municipal corporation (hereinafter, the "City"), and _____ (hereinafter, the "Contractor"). In consideration of the mutual promises, covenants, agreements and stipulations contained herein, the City and the Contractor hereby agree as follows:

1. The Contractor shall complete construction of project SU-5-983(059)059, as reflected in the specifications for the project, the project proposal, North Dakota Department of Transportation's (NDDOT's) standard specification, supplemental specifications, special provisions, and plans approved on August 18, 2017. All such documents, plans, and specifications are hereby incorporated into and as a part of this Agreement as if set out in full. The Contractor shall provide all labor, equipment, and materials necessary to complete the work. The Contractor shall pay or cause to be paid all claims for work, labor, materials, equipment, including equipment rental or repair, and other supplies or insurance premiums, all of which are attributable to or utilized in the improvement and construction of the project.
2. The NDDOT agrees to pay the Contractor for the work performed pursuant to project SU-5-983(059)059. Such payment shall be in the total amount of \$ _____ as reflected in the Contractor's bid proposal. Such payment shall be made upon completion and acceptance of the work by the City Engineer, with any required progress payments being made pursuant to the project specifications, upon presentation of the proper certification of the engineer.
3. The work shall be done pursuant to this Agreement and the laws of the State of North Dakota, to the satisfaction of the City, subject at all times to the inspection and approval of NDDOT and the U.S. Department of Transportation, its agents and representatives and in accordance with the rules and regulations made pursuant to state and federal law.
4. The decision of the City Engineer upon any question connected with the execution of this Agreement or any failure or delay in the prosecution of the work by the Contractor shall be final and conclusive.
5. The Contractor, in employing and maintaining labor, shall do so in conformity with state and federal law and this Agreement.
6. The Contractor shall begin work as required by this Agreement or when so ordered by the City and shall maintain the maximum and efficient work force on the project necessary to complete the work within the time established by this Agreement.
7. In the event of any unsettled claims, counterclaims, disputes, and other matters in question between the City and the Engineer arising out of or relating to this Agreement or the work to be performed by the Contractor hereunder, the claiming party shall timely provide Notice of Claim

to the other party. Such Notice of Claim shall be in written form, and shall adequately state the unsettled claim, counterclaim, dispute, or other matter in question in order for the other party to understand and resolve the same. The parties shall thereafter enter into direct negotiations for settlement of the same.

In the event that such direct negotiations are unsuccessful in fully resolving the dispute, the City and the Contractor agree that they shall first submit any and all unsettled claims, counterclaims, disputes, and other matters in question between them arising out of or relating to this Agreement or the work to be performed by the Contractor hereunder to mediation. A mediator shall be chosen jointly by the City and the Contractor and shall be mutually acceptable to all parties.

If such mediation is unsuccessful in fully resolving the dispute, then all such disputes may be resolved only in a court of competent jurisdiction. The parties hereby stipulate and agree that the District Court, Southwest Judicial District, State of North Dakota, shall have personal jurisdiction over the parties hereto, and that such District Court, Southwest Judicial District, State of North Dakota, is the appropriate and proper venue for resolving any such dispute.

8. Contractor agrees to indemnify and hold the City harmless from any and all claims, liabilities, losses, damages or expenses resulting from this Agreement and the Contractor's services performed or to be performed under this Agreement, specifically including, without limitation, any claim, liability, loss, damage or expense arising: (a) by reason of the injury to person or property, from whatever cause, or in any way connected with the this Agreement or the work to be performed hereunder, including any liability or any injury to the person or personal property of the Contractor, its agents, officers, or employees; (b) by reason of any work negligently performed under this Agreement; (c) by reason of the Contractor's negligent failure to perform any provision of the work under this Agreement or to comply with any requirement imposed upon the City, the Contractor, or any other party by any duly authorized governmental agency or political subdivision; or (d) because of the Contractor's failure or inability to pay as such shall become due any obligations incurred by the Contractor in its performance of the work under this Agreement.
9. This Agreement may not be assigned by the Contractor without the prior written authorization and consent of the City.
10. Contractor's failure to fulfill any condition or term of this Agreement shall be a material default. Upon such material default, City shall be entitled to any and all remedies available under law, without limitation, and without the same working any forfeiture or a waiver of any of the covenants, terms, or conditions of this Agreement to be performed by the Contractor. A waiver by the City of any default or breach hereunder on the part of the Contractor shall not be construed to be a continuing waiver of such default or breach, nor a waiver in any manner of a default or breach subsequently occurring.
11. This Agreement shall be binding on, and shall inure to the benefit of, the parties hereto and their respective administrators, representatives, successors, and assigns.
12. This Agreement shall be governed by North Dakota law and any question arising hereunder

shall be construed or determined according to such law.

13. Time is of the essence with respect to the performance of any and all provisions of this Agreement. Engineer will provide services as expeditiously as is consistent with professional skill and care and the orderly progress of the work.

14. This Agreement, together with the specifications for the project, the project proposal, North Dakota Department of Transportation's (NDDOT's) standard specification, supplemental specifications, special provisions, and plans approved on August 18, 2017, contains the entire agreement between and among the parties hereto, and supersedes all prior and contemporaneous discussions, negotiations, understandings and agreements, whether oral or written, express or implied, between or among them relating to the subject matter of this Agreement. This Agreement may not be amended orally, nor shall any purported oral amendment (even if accompanied by partial or complete performance in accordance therewith) be of any legal force or effect or constitute an amendment of this Agreement, but rather this Agreement may be amended only by an agreement in writing signed by the parties.

IN WITNESS WHEREOF, the City and Contractor have respectively executed this Agreement as of the day and year first above written.

CITY OF DICKINSON

By: _____
Scott Decker, President
Board of City Commissioners

ATTEST:

By: _____
Shawn Kessel
City Administrator

CONTRACTOR

By: _____
Its: _____

STATE OF NORTH DAKOTA)
) ss
COUNTY OF STARK)

On this _____ day of _____, 20____, before me personally appeared **SCOTT DECKER** and **SHAWN KESSEL**, known to me to be, respectively, the President of the Board of City Commissioners and the City Administrator of the City of Dickinson, the persons who are described herein and who executed the within and foregoing instrument and acknowledged to me that the City of Dickinson executed the same.

Notary Public
Stark County, North Dakota

STATE OF _____)
) ss
COUNTY OF _____)

On this _____ day of _____, 20____, before me personally appeared the Authorized Representative of _____, known to me to be the entity that is described herein and who executed the within and foregoing instrument and acknowledged to me that such entity executed the same.

Notary Public
Stark County, North Dakota

CONTRACT BOND

Project No.: SU-5-983(059)059
PCN: 21723

KNOW ALL MEN BY THESE PRESENTS, that we _____ as principal, and

Name and Address of Surety

as surety, are held and firmly bound unto the City of Dickinson, 99 – 2nd Street East, Dickinson, ND 58601, as owner in the penal sum of \$ _____ for the use of the owner and also for the use of any person having any lawful claim against the principal or any subcontractor on account of labor or supplies or materials as set forth in the conditions hereof; for the payment of which well and truly to be made we jointly and severally bind ourselves, and each of our heirs, executors, administrators, and successors, firmly by these presents.

WHEREAS, said principal has entered into a written contract with the owner for: 8th Street S Reconstruction in the city of Dickinson, North Dakota, which contract and incorporated plans and specifications are by this reference made a part hereof, and are hereinafter referred to as the contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS THAT if the principal shall: (1) perform all the terms, covenants and conditions of said contract; (2) protect the owner against any loss or damage from any cause arising out of said contract; (3) pay or cause to be paid all bills and claims against the principal or any subcontractor on account of labor or services performed and all materials, equipment or supplies furnished, whether directly or indirectly arising out of the performance of said contract; (4) pay all insurance premiums and all items for which payment under the terms of the contract is to be made or guaranteed by the principal; (5) have made or will make, prior to the commencement of any work by the principal or any subcontractor under such contract, full and true report to the Worker's Compensation Bureau of the payroll expenditures for the employees to be engaged in such work, and that the principal has paid, or will pay, the premium thereon prior to the commencement of such work; (6) pay or cause to be paid all contributions due to the Unemployment Compensation Division; and (7) pay or cause to be paid any and all taxes that may be assessed or levied or to be a charge against such contractor or any subcontractor under such contract by the owner or any of its subdivisions; then this obligation shall be null and void; otherwise it will remain in full force and effect.

And the said surety hereby stipulates and agrees that any change, extension, alteration, deduction or addition, with or without notice to the surety, in or to the terms of said contract or the plans or the specifications accompanying the same as provided for therein, shall not in anywise affect the obligation and liability of said surety on this bond.

SIGNED and SEALED this _____ day of _____, 20_____.

(Seal of Principal)

Principal

By: _____

Title: _____

(Seal of Surety)

Surety

By: _____

Title: _____

IMPORTANT NOTICE

An individual doing business under a firm name must give both names, and the individual shall designate himself as sole owner.

If a partnership, so state, and at least one member of such partnership must sign.

If a corporation, the full corporate name must be used and the execution must be by an officer of the corporation.

Any other person executing for the principal or surety must attach a power of attorney.

Section 26.1-03-01, N.D.C.C. Provides:

"Limitation on risks acceptable by company. An insurance company transacting an insurance business in this state may not expose itself to loss on any one risk or hazard to an amount exceeding ten percent of its paid-up capital and surplus if a stock company, or ten percent of its surplus if a mutual company, unless the excess is reinsured."

If excess reinsurance agreements are required on this bond, an affidavit executed by an officer of the surety shall be attached, stating that such reinsurance agreements have been entered into and are in effect at the time the bond is executed, giving the name and address of all companies with whom such agreements have been entered, and that copies of such reinsurance agreements will be furnished to the North Dakota commissioner of insurance.

ACKNOWLEDGMENT OF PRINCIPAL

State of _____)
County of _____) ss.

On this _____ day of _____, 20____, before me a notary public in and for the state of _____, personally appeared _____ known to me to be _____ (title) of the principal described in the within instrument and who executed the same and acknowledged to me that the same was executed for and on behalf of said principal.

Notary Public, State of _____

(Notary Public must print or type name here)

My commission expires: _____

ACKNOWLEDGMENT OF SURETY

State of _____)
County of _____) ss.

On this _____ day of _____, 20____, before me a notary public in and for the state of _____, personally appeared _____ known to me to be _____ (title) of the surety described in the within instrument and who executed the same and acknowledged to me that the same was executed for and on behalf of said surety.

Notary Public, State of _____

(Notary Public must print or type name here)

My commission expires: _____

Approved as to form this _____ day of _____, 20____.

By: _____
(City's Attorney)

Approved by owner this _____ day of _____, 20____.

By: _____
(President, City Commission)