DEPARTMENT OF TRANSPORTATION

Planning & Engineering
Office of Project Development
700 E Broadway Avenue
Pierre, South Dakota 57501-2586
O: 605.773.3275 | F: 605.773.2614
dot.sd.gov

April 30, 2026

ADDENDUM NO. 2

RE: Item #3, May 6, 2026 Letting - NH-PT 0018(222)311, NH 0281(122)0, P 0043(26)0, PCN 067V, 06D1, 06D8, Gregory County - Cold Milling, Asphalt Concrete Resurfacing, Pipe Work and Intersection Improvements

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: Please remove the Index of Special Provisions and replace with the attached Index of Special Provisions revised 4/29/26.

Please remove the "Special Provision for Contractor Staking", dated 3/23/26 and replace with the "Special Provision for Contractor Staking", dated 4/29/26.

SDEBS BID PROPOSAL: *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

Bid Items were added:
Bid Item 009E3210 "Construction Staking"

Quantities for Bid Items were changed:
Bid Item 009E3250 "Miscellaneous Staking" changed from 3.178 to 10.969 Mile

PLANS: Please destroy sheets 3, 5-8, 44, 123, & 131 and replace with the enclosed sheets, dated 4/28/26.

Sheet 3: BEGIN & END US 18 STATIONING was revised.

Sheet 5: PCN 067V
Bid Items were added:
Bid Item 009E3210 "Construction Staking"

Quantities for Bid Items were changed:
Bid Item 009E3250 "Miscellaneous Staking" changed from 1.953 to 9.744 Mile

Sheet 6: PCN 06D1
Bid Items were added:
Bid Item 009E3210 “Construction Staking”

Sheet 7: PCN 06D8
Bid Items were added:
Bid Item 009E3210 “Construction Staking”

Sheet 8: Bid Item placement was adjusted.

Sheet 44: TABLE OF CONSTRUCTION STAKING was revised.

Sheet 123: BEGIN & END US 18 STATIONING was revised.

Sheet 131: US 18 EQUATION STATIONING was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/gp

CC: Travis Dressen, Mitchell Region Engineer
Jay Peppel, Mitchell Area Engineer

REV 4/29/26

INDEX OF SPECIAL PROVISIONS

PROJECT NUMBER(S): NH-PT 0018(222)311, NH 0281(122)0, P 0043(26)0PCN: 067V, 06D1, 06D8

TYPE OF WORK: COLD MILLING, ASPHALT CONCRETE RESURFACING, PIPE WORK AND INTERSECTION IMPROVEMENTS

COUNTY: GREGORY

The following clauses have been prepared subsequent to the Standard Specifications for Roads and Bridges and refer only to the above described improvement, for which the following Proposal is made.

The Contractor's attention is directed to the need for securing from the Department of Environment & Natural Resources, Foss Building, Pierre, South Dakota, permission to remove water from public sources (lakes, rivers, streams, etc.). The Contractor should make his request as early as possible after receiving his contract, and insofar as possible at least 30 days prior to the date that the water is to be used.

Bobbie Country is the official in charge of the Winner Career Center for Gregory County.

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Special Provision Regarding Right of Entry/Work Limits, dated 3/31/26.

Special Provision for Traffic Control Supervisor, dated 3/23/2026.

Special Provision Regarding Restricted Work at Drainage Crossings or Wetlands, dated 4/7/26.

Agreement to Sell Materials (Wayne J. Clocker).

Special Provision for On-The-Job Training Program, dated 3/10/16.

Special Provision for Contractor Staking, dated 4/29/26.

Special Provision for Flexible Pavement Smoothness, dated 5/20/21.

List of Utilities.

Special Provision for Price Schedule for Miscellaneous Items, dated 2/18/26.
Special Provision for American Security Drone Act, dated 12/15/25.
Special Provision for Steel Beam Guardrail AASHTO M 180 Designation, dated 10/1/25.
Special Provision for Acknowledgment and Certification Regarding Article 3, Section 12 of the South Dakota Constitution, dated 8/24/23.
Fuel Adjustment Affidavit, DOT form 208 dated 11/25.

Standard Title VI Assurance, dated 3/1/16.
Special Provision For EEO Affirmative Action Requirements on Federal and Federal-Aid Construction Contracts, dated 2/5/24.
Special Provision For Required Contract Provisions Federal-Aid Construction Contracts, Form FHWA 1273 (Rev. October 23, 2023), dated 10/18/23.
Required Contract Provisions Federal-Aid Construction Contracts, Form FHWA 1273 (Rev. 10/23/23).
Special Provision Regarding Minimum Wage on Federal-Aid Projects, dated 10/24/19.
Wage and Hour Division US Department of Labor Washington DC. - US Dept. of Labor Decision Number SD20260001, dated 1/30/26.
Special Provision Regarding Stormwater Discharges to Waters of the State, dated 11/5/25.
General Permit Authorizing Stormwater Discharges Associated with Construction Activities, dated 11/1/23.
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/StormWaterConstruction.aspx

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
CONTRACTOR STAKING

PROJECT NH-PT 0018(222)311, NH 0281(122)0, P 0034(26)0
PCN 067V, 06D1, 06D8
GREGORY COUNTY

APRIL 29, 2026

Delete Section 5.8 of the specifications and insert the following:

SECTION 5.8
CONSTRUCTION STAKES, LINES AND GRADES
CONTRACTOR GRADE STAKING

A. DESCRIPTION

The Contractor will perform all construction staking. The staking work includes, but is not limited to, establishing or re-establishing the project centerline; placing an offset line to re-establish the project centerline throughout the entire project length prior to placement of asphalt surfacing; establishing control points and benchmarks as needed; setting additional benchmarks as needed; taking original and final cross sections of all Contractor secured borrow sources and State designated borrow sources; taking cross sections of all topsoil stockpiles; taking final cross sections for earthwork quantities at the slope stake stations and plus stations or by radial surveying methods; and staking right-of-way, easements, and fence.

The Contractor will perform all construction layout and reference staking necessary for the accurate control and completion of all grading, paving, drainage, median crossovers, signing, pavement marking, permanent benchmarks, detours, fence, and all other appurtenances required for the complete construction and acceptance of the work. The layout will include, but is not limited to, staking easement line, staking clearing line, slope staking and slope stake reference hubs, grade staking (blue tops), structure staking, and performing the miscellaneous staking as described in the plans and in this specification.

Horizontal and vertical control has been established as shown on the plans. Each horizontal and vertical control point will be preserved or reset out of the work limits and available during and after construction is complete. Prior to the Department's

final acceptance of the project, the Contractor will replace or reset any control that is disturbed during the construction of the project. The Contractor will provide the Department a list of the in-place control points, including coordinates and elevations relevant to the project control, at the end of the project.

The Contractor will perform the staking work in accordance with the Department's Survey Manual, except as modified by this specification.

B. MATERIALS

The Contractor will furnish all staking materials of adequate quality for the purpose intended including all stakes, stake chasers, paint, field note books, and all other materials and equipment necessary to perform the required work.

C. CONSTRUCTION REQUIREMENTS

1. **General:** The Contractor will perform all staking work under the supervision of a qualified surveyor or engineer who is experienced and competent in road and bridge construction surveying and staking. The surveyor or engineer will be available to review work, resolve problems, and make decisions in a timely manner. A crew chief, competent to perform all required surveying duties, will supervise the staking in the absence of the surveyor or engineer from the project. The Contractor will submit the qualifications and work experience history of the surveyor or engineer who will supervise the construction survey work to the Engineer for review at least 14 calendar days prior to beginning the staking work.

   The Contractor will also submit the proposed starting date of the staking and the anticipated surveying work schedule.

   The Contractor will furnish, set, and properly reference all stakes, references, lines, grades, and batter boards required. Minimum reference notations will be for type, location, and alignment (when there are multiple alignments in the same area). The Contractor will perform the survey and staking work in a manner consistent with standard engineering practices and approved by the Engineer.

   The Contractor is solely responsible for the accuracy of the survey and staking work. The Contractor will notify the Engineer of any errors and discrepancies found in previous surveys, plans, specifications, or special provisions prior to proceeding with the survey work.

   The Contractor will be responsible for the supervision of the construction staking personnel. The Contractor will correct any deficient survey or staking work that results in construction errors at no additional cost to the Department.

The Contractor will keep field notes in conventional handwritten notebooks or in a computerized form acceptable to the Engineer in a clear, orderly, and neat manner. The notebooks will become the property of the Department upon completion of the project. The notebooks will provide enough information such that quantity measurements are verifiable by the Department. Field notes are subject to inspection by the Engineer at any time.

The Contractor is required to submit any remaining required quantity calculations and notes to the Engineer no later than 60 calendar days after completion of the survey and staking work.

The Department will set reference control points. The Contractor is responsible for the preservation of ties and references to all control points necessary for the accurate re-establishment of all base lines and centerlines shown in the plans, whether established by the Contractor or found on or adjacent to the project. The Department will also establish benchmark elevations. It is the responsibility of the Contractor to verify the accuracy of the benchmark elevations prior to use on the project.

The Contractor will furnish stakes and wooden hubs or steel pins of sufficient length to provide a solid set in the ground. The Contractor will place half-length lath stakes or stake chasers or an alternate, acceptable to the Engineer, adjacent to or on the blue top hubs for guards. Stakes set not meeting these requirements will be reset at the Contractors expense. The Contractor will replace stakes damaged, destroyed, illegible, or made unusable at no additional expense to the Department.

The Engineer may check the accuracy and control of the Contractor's survey and staking work at any time. The checks performed by the Engineer will not relieve the Contractor of the responsibility for the accuracy of the survey layout or the construction work. If the random checks show the grade is out of tolerance, the Engineer may require the Contractor to set additional stakes at the discretion of the Engineer, at no additional cost to the Department. If the Engineer orders additional stakes, the Contractor will perform the additional staking until the Contractor can show the staking operations achieve the specified grade tolerances.

Prior to any project staking, the Contractor will run a level circuit to check the plan benchmarks the full length of the project. At structure sites, the circuit will include two benchmarks, one on each end of the structure.

2. **Construction Staking:** Construction staking will consist of all staking for centerline offset and stationing stakes in accordance with the following:

   Centerline Offset and Stationing Stakes: The Contractor will perform all survey work necessary to establish offset points to be used for re-

establishment of centerline on the entire project prior to placement of asphalt surfacing. The Contractor will place a nail and lath on one side of the roadway at an offset from centerline so as to not interfere with construction work. Once established, this offset will remain constant throughout the project length. Place the nail and lath at even 200 foot intervals throughout the entire length of the project in tangent sections. Place the nail and lath at even 100 foot intervals throughout all horizontally curved sections. Clearly mark stationing with a permanent marker on each lath placed. The Contractor is solely responsible for the accuracy of this work.

The Contractor shall use a surveying instrument to set the offset nails at a true offset from actual centerline. A tolerance of 0.04' will be allowed on the offset nails. Original Construction plans showing locations of alignment points are available at the Area Office.

The Contractor is hereby advised that spiral curves may be present along some South Dakota Highway routes, and if found will need to be duplicated as well as normal simple curves when staking this offset line. Any deficient work which may result in staking errors shall be corrected by the Contractor at no additional expense to the Department. All costs associated with this work will be paid under the bid item construction staking.

3. **Slope Staking:** The Contractor will set slope stakes at the catch points. The slope stake reference hubs will be offset behind the slope stake. The Contractor will place slope stake reference hubs behind the slope stakes at the right-of-way line, easement line, or other locations as approved by the Engineer.

   The slope stakes will be set at 200-foot intervals on tangents and at 50-foot intervals in horizontal curves. The horizontal tolerance is ±0.2 foot and the vertical tolerance is ±0.1 foot. The Contractor will reference the subgrade shoulders with slope stake reference hubs set with a horizontal tolerance of ±0.2 foot and a vertical tolerance of ±0.05 foot.

   The Contractor will retain the slope stakes and hub references until the final cross sections are completed and accepted by the Department.

   The Department will not provide slope stake notes. The Contractor is responsible to generate the slope staking notes using the cross sections and the existing field conditions.

4. **Grade Staking:** The Contractor will set grade finishing stakes (blue tops) for grade elevations and horizontal alignment on the roadway centerline and at each shoulder at the top of the subgrade. Where additional lanes or turnouts are to be constructed, the Contractor will set blue tops at centerline, the normal

shoulder distance, and the extended shoulder distance or outside the additional lane edge.

The transverse distance between blue tops will not exceed 20 feet. The Contractor will be required to set intermediate blue tops when the transverse distance is greater than 20 feet. When intermediate blue tops are required, the Contractor will set the intermediate blue tops at locations approved by the Engineer.

The blue top grade stakes will be set at 100-foot intervals on tangents and 50-foot intervals on horizontal curves. The horizontal tolerance for blue tops is ±0.2 foot and the vertical tolerance is ±0.02 foot.

The Contractor will retain the shoulder blue tops and guards through placement of the granular material.

The Contractor will not be required to set grade stakes at the top of the base course. If the Contractor deems it necessary to place grade stakes to achieve typical section as per section 260.3 A of the specifications, the staking will be incidental to the contract unit price for base course.

The Department will not provide grade stake notes. The Contractor is responsible to generate the grade staking notes using the typical sections and the existing field conditions.

5. **Structure Staking:** The Contractor will stake and reference bridges and box culverts to ensure adequate horizontal and vertical control of the substructure and superstructure components. The Contractor will stake and reference the bridge chord or the bridge tangent and centerline of each pier, bent, and abutments for bridges. The Contractor will stake the box culvert centerline(s) in both longitudinal and transverse directions.

   When the work requires bridge rehabilitation work, the structure staking will include all surveying and staking required for completion of the project. The staking work may include, but not be limited to, setting the rail for the deck overlay. The plans will indicate the grade line for the deck overlay; and if necessary, the Engineer may modify the grade line.

   When staking retaining walls (except Type C), the Contractor will survey and record the original ground profile along the front face of the proposed wall at the elevation break points. The Contractor will supply the wall designer the original ground profile data prior to the wall designer performing the design. Set adequate stakes and references for horizontal and vertical control during construction.

For structures and retaining walls, the horizontal tolerance is ±0.04 foot and vertical tolerance is ±0.02 foot.

The Contractor is responsible for all notes required to stake structures including bridges, box culverts, and walls.

6. **Miscellaneous Staking:** Miscellaneous staking includes the following work:

   a. Easement line for items including, but not limited to, setting temporary fence, utility relocation, and landowner reference and property use;
   b. Clearing line for items identified by the clearing contract unit item when provided in the plans;
   c. Approach road staking and all tie-in checks. The Contractor will submit profiles and elevations of all approach roads and other tie-ins throughout the project to the Engineer at least 3 business days prior to staking;
   d. Topsoil measurement and computation of quantities;
   e. Special ditch staking;
   f. Staking of signs, delineators, pavement markings, guardrail, curb & gutter, light poles, conduit, junction boxes, and related items (Staking is for all aspects, i.e. detours, temporary and permanent);
   g. Right-of-way staking including fence post panels;
   h. Pipe and storm sewer staking including drop inlets, manholes, cattle passes, and related items. If additional pipe, storm sewer, drop inlets, manholes, or cattle passes are required which are not shown on the plans, the staking will be paid for at the contract unit price per hour for Engineer Directed Surveying/Staking;
   i. Mark limits of removal items (trees, foundations, curb & gutter, sidewalk, etc.);
   j. Detours, roadway diversions, and crossovers. (This work includes all design and staking notes required to design and stake the detour, roadway diversion, or crossover in accordance with the plan requirements. The Contractor will submit the completed design including profile and alignment and staking notes to the Engineer at least 3 business days prior to staking.);
   k. Final and original cross sections of Contractor and State furnished borrow pits and computations. The Contractor will perform earthwork computations by the average end area method, surface-to-surface method, or alternate computation method approved by the Engineer;
   l. Resetting horizontal and vertical control, if disturbed;
   m. Approach slab and sleeper slab staking;
   n. Staking of sidewalks and curb ramps; and,
   o. Staking of steps and wheel chair ramps.

   The Contractor will perform the pipe staking so the pipe will fit the field conditions. The plans show only approximate pipe locations and grades. The Contractor will not install pipe prior to gaining the Engineer's approval of minor location and grade adjustments necessary for proper staking of the pipe.

The Contractor will stake the slope catch points to determine the inlet and outlet locations, set reference stakes for the inlet and outlet locations, and stake ditches and special inlet and outlet grades to ensure proper drainage. The staking of manholes and drop inlets will be included in pipe and storm sewer staking. The Contractor will stake precast cattle passes similar to drainage pipes.

The horizontal tolerance for the pipe and storm sewer staking is ±0.05 foot and the vertical tolerance is ±0.03 foot.

The Contractor will keep pipe staking notes on a DOT Form 214.

7. **Engineer Directed Surveying/Staking:** The use of the engineer directed surveying/staking contract item is intended for surveying/staking not included in the plan notes and this special provision. The Contractor may use a survey crew to perform additional survey/staking work caused or required by the Department. The Engineer will use a written order to authorize the hourly engineer directed surveying/staking item and describe the surveying/staking work required of the Contractor.

8. **Final Cross Section Survey:** Final Cross Section Survey includes the following work:

   Final earthwork (or terrain data) cross sections at the same intervals, stations, and plus stations as the slope stakes and computations of as-built quantities. The Contractor will include the blue top subgrade elevations, both shoulders and centerline, in the final earthwork (or terrain data). The Contractor will perform earthwork computations by the average end area method, surface-to-surface method, or alternate computation method approved by the Engineer.

D. METHOD OF MEASUREMENT

Refer to the Table of Contractor Staking in the plans for more detail on how quantities were calculated.

1. **Construction Staking:** The Department will not measure construction staking.

2. **Slope Staking:** The Department will not measure slope staking. The Department will pay the plan quantity as the final quantity unless the Engineer orders additional slope staking in writing.

   The Department will consider all combinations of roadway widths as one set of slope stakes. On projects with ramps, the Department will consider ramps as roadway and include the ramps in the slope staking quantity. All additional

slope staking for intersections will be incidental to the contract unit price for slope staking.

3. **Grade Staking:** The Department will not measure grade staking. The Department will pay the plan quantity as the final quantity unless the Engineer orders additional grade staking in writing.

   The Department will consider a two-lane roadway as one set of grade stakes. The Department will proportionately increase the plan quantity for multi-lane roadways in excess to two-lanes as shown in the table of construction staking (lane factor). For example, a three-lane roadway is equivalent to 1.5 times the quantity for a two-lane roadway. On projects requiring grade staking on ramps, the Department will consider ramps as a two-lane roadway for measurement as shown in the table of construction staking. The Department will not consider Acceleration/deceleration lanes and turning lanes for intersecting roads, and median crossovers as an additional roadway.

4. **Structure Staking:** The Department will measure structure staking by the each for bridges, box culverts, and retaining walls.

5. **Miscellaneous Staking:** The Department will not measure miscellaneous staking. The Department will pay the plan quantity as the final quantity.

6. **Engineer Directed Surveying/Staking:** The Department will measure engineer directed surveying/staking to the nearest 0.1 hour with the following restrictions:

   The use of engineer directed surveying/staking will be for the work ordered by the Engineer. The measured quantity will be the actual time the survey crew is working on the project, physically performing the field survey/staking work and office time dedicated to the work specific to engineer directed surveying/staking. The Department will not include travel time for the survey crew in the measurement.

   The Contractor will provide the Engineer documentation, such as an invoice, showing the actual days/hours worked.

7. **Final Cross Section Survey:** The Department will measure final cross section survey to the nearest 0.001 mile for the plan earthwork balances requiring a final survey to determine as-built unclassified excavation quantities. The Engineer will determine which balances (if any) require a final survey during construction. The plan quantity will be the length of the project mainline. This item may be decreased if the Contractor and Engineer agree to accept the plan unclassified excavation quantity for any or all earthwork balances.

E. BASIS OF PAYMENT

Payment for all of the survey items will be considered full compensation for furnishing all necessary personnel, vehicles, surveying equipment, supplies, materials, recording fees, transportation, and incidentals to accurately and satisfactory complete the work.

The Department reserves the right to omit any of these bid items without providing compensation to the contractor if the Department deems the bid prices are unreasonable.

1. **Construction Staking:** The Department will pay construction staking at the contract unit price per mile. The Department will make partial payment as follows:

2. **Slope Staking:** The Department will pay slope staking at the contract unit price per mile.

3. **Grade Staking:** The Department will pay grade staking at the contract unit price per mile. All cost for additional grade staking for acceleration/deceleration lanes, turning lanes, intersecting roads, grade adjustments, and median crossovers will be incidental to the contract unit price for grade staking. All additional grade staking for intersections and medians will be incidental to the roadway grade staking. Any additional staking the Contractor feels necessary to complete the grade staking work is the responsibility of the contractor and will be incidental to the contract unit price for grade staking.

4. **Structure Staking:** The Department will pay structure staking at the contract unit price per each.

5. **Miscellaneous Staking:** The Department will pay miscellaneous staking at the contract unit price per mile.

   The Department will make partial payment as follows:

   a. Upon submission of the name, experience, and qualifications of the surveyor or engineer who will supervise the staking, the proposed starting date, and the staking schedule, the Department will pay the Contractor 25 percent of the plan quantity for the miscellaneous staking.

   b. The Department will make intermediate payments based on the amount of the staking work completed.

   c. The Department will make full payment at the plan quantity for miscellaneous staking upon completion of all surveying and staking and

when the Contractor has furnished all field notebooks and records to the Engineer.

The Department will not adjust the contract unit price or plan quantity for miscellaneous staking due to overruns or under runs in the other contract items.

6. **Engineer Directed Surveying/Staking:** The Department will pay engineer directed surveying/staking on an hourly basis as per the Price Schedule for Miscellaneous Items. The value listed in the Price Schedule for Miscellaneous Items includes salaries, travel time, equipment, staking supplies, payroll additive, and all incidental expenses related to providing the survey crew.

7. **Final Cross Section Survey:** The Department will pay final cross section survey at the contract unit price per mile.

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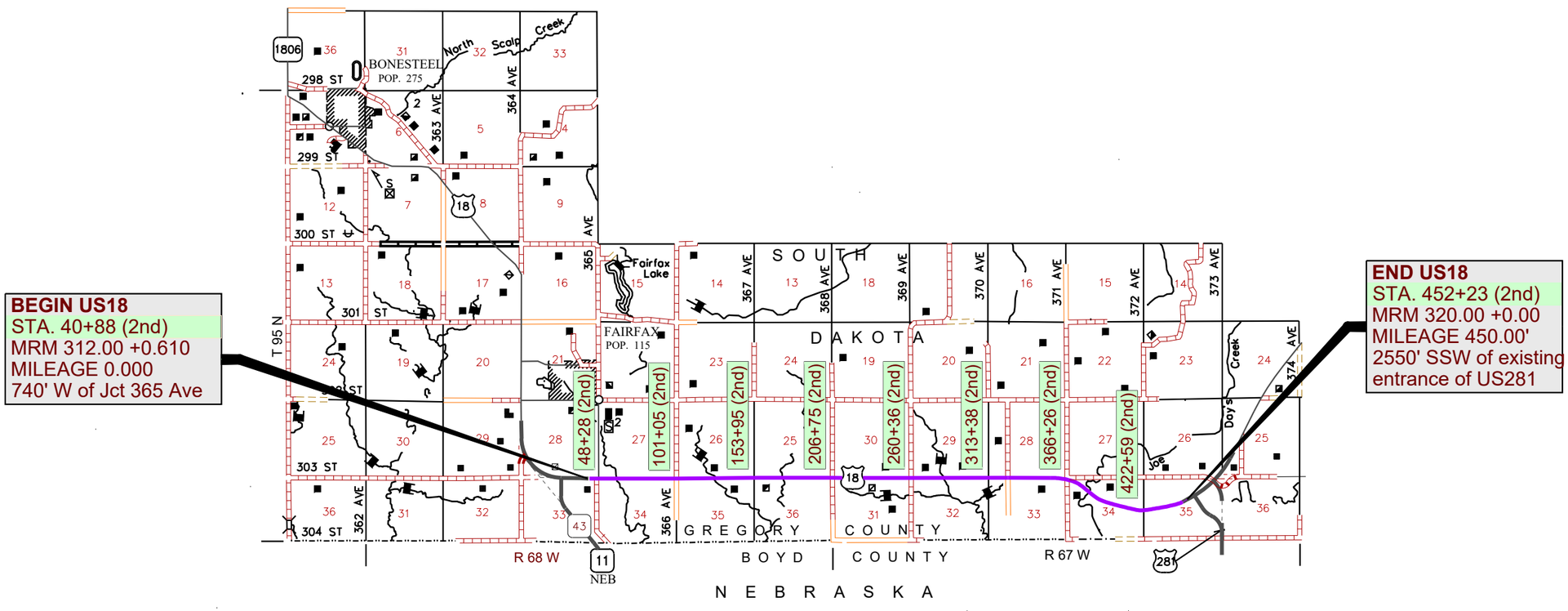
BAI JOB # 23190-10	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		NH-PT 0018(222)311, NH 0281(122)0 & P 0043(26)0	3	267

Plotting Date: REVISION 4/28/2026 WJB

US18



BEGIN US18
STA. 40+88 (2nd)
MRM 312.00 +0.610
MILEAGE 0.000
740' W of Jct 365 Ave

END US18
STA. 452+23 (2nd)
MRM 320.00 +0.00
MILEAGE 450.00'
2550' SSW of existing entrance of US281

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13292
WAYLON J. BLASIUS
SOUTH DAKOTA
04/28/2026

ESTIMATE OF QUANTITIES

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PT 0018(222)311, NH 0281(122)0 & P 0043(26)0	5	267

Rev. 4-28-26 GAW

NH-PT 0018(222)311 – PCN 067V

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3210	Construction Staking	10.066	Mile
009E3220	Reestablish Right-of-Way and Property Corner	61	Each
009E3225	Reestablish Public Land Survey System Corner	6	Each
009E3230	Grade Staking	1.953	Mile
009E3245	Final Cross Section Survey	1.953	Mile
009E3250	Miscellaneous Staking	9.744	Mile
009E3280	Slope Staking	1.953	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0130	Remove Traffic Sign	54	Each
110E0600	Remove Fence	22,708	Ft
110E1010	Remove Asphalt Concrete Pavement	1,331.0	SqYd
110E1050	Remove Asphalt Concrete Approach Pavement	1,379.4	SqYd
110E1510	Remove Luminaire Pole	2	Each
110E1540	Remove Luminaire Pole Footing	2	Each
110E1690	Remove Sediment	1.2	CuYd
110E1700	Remove Silt Fence	80	Ft
110E7150	Remove Sign for Reset	2	Each
110E7152	Remove Delineator for Reset	31	Each
110E7500	Remove Pipe for Reset	110	Ft
110E7510	Remove Pipe End Section for Reset	12	Each
120E0010	Unclassified Excavation	166,725	CuYd
120E0100	Unclassified Excavation, Digouts	504	CuYd
120E0500	Option Borrow Excavation	74,641	CuYd
120E1000	Muck Excavation	9,741	CuYd
120E2000	Undercutting	22,890	CuYd
120E4100	Reprofiling Ditch	4.6	Sta
120E6100	Water for Embankment	2,090.0	MGal
120E6200	Water for Granular Material	444.0	MGal
210E1005	Surface Preparation	0.500	Mile
230E0010	Placing Topsoil	31,246	CuYd
230E0020	Contractor Furnished Topsoil	50	CuYd
240E0010	Obliterate Old Road	22	Sta
250E0020	Incidental Work, Grading	Lump Sum	LS
260E1010	Base Course	2,445.0	Ton
260E1030	Base Course, Salvaged	41,088.0	Ton
260E2010	Gravel Cushion	2,034.0	Ton
260E3500	Temporary Gravel Surfacing	100.0	Ton
* 260E6000	Granular Material, Furnish	4,550.0	Ton
260E6010	Granular Material	100.0	Ton

NH-PT 0018(222)311 – PCN 067V (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
270E0042	Salvage Asphalt Mix and Granular Base Material	48,879.0	Ton
* 270E0200	Blend, Haul, and Stockpile Granular Material	19,612.0	Ton
270E0220	Blend and Stockpile Granular Material	40,514.0	Ton
320E0032	PG 58H-34 Asphalt Binder	1,666.6	Ton
320E1200	Asphalt Concrete Composite	420.0	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	33,650.0	Ton
320E1800	Asphalt Concrete Blade Laid	1,217.0	Ton
320E4000	Hydrated Lime	345.0	Ton
320E7008	Grind 8" Rumble Strip or Stripe in Asphalt Concrete	15.6	Mile
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	4.5	Mile
330E0010	MC-70 Asphalt for Prime	83.7	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	119.1	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	6.9	Ton
330E0300	SS-1h or CSS-1h Asphalt for Fog Seal	11.6	Ton
330E1000	Blotting Sand for Prime	228.8	Ton
330E2000	Sand for Flush Seal	37.2	Ton
330E3000	Sand for Fog Seal	3.0	Ton
332E0010	Cold Milling Asphalt Concrete	163,409	SqYd
360E0020	AE150S Asphalt for Surface Treatment	82.0	Ton
360E1050	Type 3 Cover Aggregate	1,103.2	Ton
421E0100	Pipe Culvert Undercut	81	CuYd
450E0123	18" RCP Class 3, Furnish	20	Ft
450E0130	18" RCP, Install	20	Ft
450E0143	24" RCP Class 3, Furnish	206	Ft
450E0150	24" RCP, Install	206	Ft
450E0163	30" RCP Class 3, Furnish	430	Ft
450E0170	30" RCP, Install	430	Ft
450E0193	42" RCP Class 3, Furnish	112	Ft
450E0200	42" RCP, Install	112	Ft
450E0203	48" RCP Class 3, Furnish	108	Ft
450E0210	48" RCP, Install	108	Ft
450E2008	18" RCP Flared End, Furnish	6	Each
450E2009	18" RCP Flared End, Install	6	Each
450E2016	24" RCP Flared End, Furnish	1	Each
450E2017	24" RCP Flared End, Install	1	Each
450E2032	42" RCP Flared End, Furnish	2	Each
450E2033	42" RCP Flared End, Install	2	Each
450E2036	48" RCP Flared End, Furnish	2	Each
450E2037	48" RCP Flared End, Install	2	Each
450E2044	60" RCP Flared End, Furnish	2	Each
450E2045	60" RCP Flared End, Install	2	Each
450E2060	84" RCP Flared End, Furnish	2	Each
450E2061	84" RCP Flared End, Install	2	Each

NH-PT 0018(222)311 – PCN 067V (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E2200	24" RCP Sloped End, Furnish	6	Each
450E2201	24" RCP Sloped End, Install	6	Each
450E2204	30" RCP Sloped End, Furnish	12	Each
450E2205	30" RCP Sloped End, Install	12	Each
450E3023	30" RCP Arch Class 3, Furnish	104	Ft
450E3030	30" RCP Arch, Install	104	Ft
450E4604	30" RCP Arch Sloped End, Furnish	2	Each
450E4605	30" RCP Arch Sloped End, Install	2	Each
450E4699	Tie Bolts for RCP	102	Each
450E4759	18" CMP 16 Gauge, Furnish	130	Ft
450E4760	18" CMP, Install	130	Ft
450E4769	24" CMP 16 Gauge, Furnish	374	Ft
450E4770	24" CMP, Install	374	Ft
450E5239	60" CMP Flared End, Furnish	2	Each
450E5240	60" CMP Flared End, Install	2	Each
450E5306	18" CMP Sloped End, Furnish	4	Each
450E5307	18" CMP Sloped End, Install	4	Each
450E5406	18" CMP Safety End, Furnish	2	Each
450E5407	18" CMP Safety End, Install	2	Each
450E5410	24" CMP Safety End, Furnish	10	Each
450E5411	24" CMP Safety End, Install	10	Each
450E7660	60" Steel Pipe, Furnish	188	Ft
450E8300	Culvert Joint Cleaning	983.5	Ft
450E8305	Repair Culvert Joint	983.5	Ft
* 450E8900	Cleanout Pipe Culvert	1	Each
450E8910	Cleanout for Culvert Treatment	3	Each
450E9000	Reset Pipe	110	Ft
450E9001	Reset Pipe End Section	11	Each
450E9236	Slipline 60" Pipe	122	Ft
450E9240	Slipline 72" Pipe	102	Ft
450E9244	Slipline 84" Pipe	186	Ft
451E5160	Bore and Jack 60" Pipe	188	Ft
451E7300	Repair Drain Tile	10	Ft
462E0250	Cellular Grout	139.6	CuYd
464E0100	Controlled Density Fill	7.1	CuYd
600E0300	Type III Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	21,237	Ft
620E0510	Type 1 Temporary Fence	12,385	Ft
620E0520	Type 2 Temporary Fence	3,500	Ft
620E1020	2 Post Panel	70	Each
620E1030	3 Post Panel	36	Each
632E1320	2.0"x2.0" Perforated Tube Post	415.5	Ft
632E1340	2.5"x2.5" Perforated Tube Post	347.0	Ft

ESTIMATE OF QUANTITIES (CONTINUED)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PT 0018(222)311, NH 0281(122)0 & P 0043(26)0	6	267

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NH-PT 0018(222)311 – PCN 067V (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	40	Each
632E2100	Reset Delineator	31	Each
632E2510	Type 2 Object Marker Back to Back	22	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	455.8	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	50.8	SqFt
632E3500	Reset Sign	2	Each
633E0040	Cold Applied Plastic Pavement Marking, Arrow	12	Each
633E1200	High Build Waterborne Pavement Marking Paint, White	134	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	103	Gal
633E1260	High Build Waterborne Pavement Marking Paint, 24" White	100	Ft
633E1262	High Build Waterborne Pavement Marking Paint, 24" Yellow	309	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	12	Each
634E0010	Flagging	6,000.0	Hour
634E0020	Pilot Car	2,500.0	Hour
634E0110	Traffic Control Signs	831.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	10	Each
634E0340	Temporary Raised Pavement Markers	2.0	Mile
634E0380	Tubular Marker	500	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
634E0630	Temporary Pavement Marking	21.0	Mile
635E0045	Breakaway Base Luminaire Pole with Arm, 45' Mounting Height	6	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	6	Each
635E4010	1 Section Vehicle Signal Head	2	Each
635E5020	2' Diameter Footing	48.0	Ft
635E5301	Type 1 Electrical Junction Box	4	Each
635E5400	Electrical Service Cabinet	2	Each
635E8120	2" Rigid Conduit, Schedule 40	680	Ft
635E8215	1.5" Rigid Conduit, Schedule 80	135	Ft
635E8220	2" Rigid Conduit, Schedule 80	235	Ft
635E9018	1/C #8 AWG Copper Wire	2,850	Ft
635E9020	1/C #10 AWG Copper Wire	1,510	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	360	Ft
700E0210	Class B Riprap	280.2	Ton
700E0310	Class C Riprap	165.1	Ton
700E0410	Class D Riprap	318.5	Ton
730E0100	Cover Crop Seeding	51.6	Bu
730E0210	Type F Permanent Seed Mixture	838	Lb
731E0200	Fertilizing	2.50	Ton
732E0100	Mulching	16.8	Ton
734E0044	Soil Stabilizer	5.0	Acre

NH-PT 0018(222)311 – PCN 067V (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
734E0103	Type 3 Erosion Control Blanket	3,750	SqYd
734E0154	12" Diameter Erosion Control Wattle	650	Ft
734E0165	Remove and Reset Erosion Control Wattle	125	Ft
734E0325	Surface Roughening	5.0	Acre
734E0602	Low Flow Silt Fence	2,000	Ft
734E0604	High Flow Silt Fence	544	Ft
734E0610	Mucking Silt Fence	22	CuYd
734E0620	Repair Silt Fence	80	Ft
831E0110	Type B Drainage Fabric	924	SqYd
900E0010	Refurbish Single Mailbox	6	Each
900E0012	Refurbish Double Mailbox	1	Each
900E0900	Curb Stop	2	Each
900E1320	Construction Entrance	2	Each
900E1980	Storage Unit	1	Each

*** - Denotes Non-Participating**

NH 0281(122)0 – PCN 06D1

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3210	Construction Staking	0.698	Mile
009E3220	Reestablish Right-of-Way and Property Corner	14	Each
009E3225	Reestablish Public Land Survey System Corner	2	Each
009E3230	Grade Staking	0.692	Mile
009E3245	Final Cross Section Survey	0.692	Mile
009E3250	Miscellaneous Staking	0.692	Mile
009E3280	Slope Staking	0.692	Mile
009E3290	Structure Staking	1	Each
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0130	Remove Traffic Sign	20	Each
110E0600	Remove Fence	8,477	Ft
110E1690	Remove Sediment	1.0	CuYd
110E1700	Remove Silt Fence	52	Ft
110E7040	Remove Gate for Reset	2	Each
120E0010	Unclassified Excavation	30,315	CuYd
120E0100	Unclassified Excavation, Digouts	35	CuYd
120E0500	Option Borrow Excavation	41,598	CuYd
120E1000	Muck Excavation	514	CuYd
120E2000	Undercutting	2,405	CuYd
120E6100	Water for Embankment	508.0	MGal
120E6200	Water for Granular Material	118.0	MGal
210E1005	Surface Preparation	0.200	Mile
230E0010	Placing Topsoil	12,747	CuYd
230E0020	Contractor Furnished Topsoil	50	CuYd
240E0010	Obliterate Old Road	27	Sta
250E0020	Incidental Work, Grading	Lump Sum	LS
260E1010	Base Course	69.0	Ton
260E1030	Base Course, Salvaged	12,296.0	Ton
260E3500	Temporary Gravel Surfacing	100.0	Ton
270E0042	Salvage Asphalt Mix and Granular Base Material	13,149.0	Ton
270E0220	Blend and Stockpile Granular Material	12,000.0	Ton
320E0032	PG 58H-34 Asphalt Binder	199.4	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	4,285.0	Ton
320E4000	Hydrated Lime	42.4	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	1.4	Mile
320E7035	Grind Sinusoidal Transverse Rumble Strip in Asphalt Concrete	392.0	SqFt
330E0010	MC-70 Asphalt for Prime	24.9	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	8.7	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	0.6	Ton

ESTIMATE OF QUANTITIES (CONTINUED)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PT 0018(222)311, NH 0281(122)0 & P 0043(26)0	7	267

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NH 0281(122)0 – PCN 06D1 (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
330E0300	SS-1h or CSS-1h Asphalt for Fog Seal	3.3	Ton
330E1000	Blotting Sand for Prime	62.0	Ton
330E2000	Sand for Flush Seal	0.3	Ton
330E3000	Sand for Fog Seal	1.0	Ton
332E0010	Cold Milling Asphalt Concrete	134	SqYd
360E0020	AE150S Asphalt for Surface Treatment	23.9	Ton
360E1050	Type 3 Cover Aggregate	322.0	Ton
450E0143	24" RCP Class 3, Furnish	80	Ft
450E0150	24" RCP, Install	80	Ft
450E2200	24" RCP Sloped End, Furnish	2	Each
450E2201	24" RCP Sloped End, Install	2	Each
450E4759	18" CMP 16 Gauge, Furnish	182	Ft
450E4760	18" CMP, Install	182	Ft
450E4769	24" CMP 16 Gauge, Furnish	152	Ft
450E4770	24" CMP, Install	152	Ft
450E5406	18" CMP Safety End, Furnish	4	Each
450E5407	18" CMP Safety End, Install	4	Each
450E5410	24" CMP Safety End, Furnish	4	Each
450E5411	24" CMP Safety End, Install	4	Each
620E0020	Type 2 Right-of-Way Fence	10,297	Ft
620E0510	Type 1 Temporary Fence	6,480	Ft
620E1020	2 Post Panel	26	Each
620E1030	3 Post Panel	12	Each
620E2100	Reset Gate	2	Each
632E1320	2.0"x2.0" Perforated Tube Post	60.5	Ft
632E1340	2.5"x2.5" Perforated Tube Post	175.0	Ft
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	14	Each
632E2510	Type 2 Object Marker Back to Back	6	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	224.6	SqFt
634E0010	Flagging	1,250.0	Hour
634E0020	Pilot Car	500.0	Hour
634E0110	Traffic Control Signs	243.7	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	4	Each
634E0340	Temporary Raised Pavement Markers	0.5	Mile
634E0380	Tubular Marker	100	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
634E0630	Temporary Pavement Marking	1.6	Mile
730E0100	Cover Crop Seeding	91.8	Bu
730E0210	Type F Permanent Seed Mixture	218	Lb
731E0200	Fertilizing	4.20	Ton
734E0044	Soil Stabilizer	2.5	Acre

NH 0281(122)0 – PCN 06D1 (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
734E0103	Type 3 Erosion Control Blanket	970	SqYd
734E0154	12" Diameter Erosion Control Wattle	300	Ft
734E0165	Remove and Reset Erosion Control Wattle	100	Ft
734E0604	High Flow Silt Fence	390	Ft
734E0610	Mucking Silt Fence	15	CuYd
734E0620	Repair Silt Fence	52	Ft
900E1320	Construction Entrance	1	Each

STR. NO. 27-410-349 (PCN 06D1)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	74	CuYd
421E0200	Box Culvert Undercut	228	CuYd
560E2162	2-12'x4' Precast Concrete Box Culvert, Furnish	82.0	Ft
560E2163	2-12'x4' Precast Concrete Box Culvert, Install	82.0	Ft
560E3162	2-12'x4' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E3163	2-12'x4' Precast Concrete Box Culvert End Section, Install	2	Each
700E0310	Class C Riprap	75.9	Ton
831E0110	Type B Drainage Fabric	86	SqYd
831E0300	Reinforcement Fabric (MSE)	327	SqYd

P 0043(26)0 – PCN 06D8

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3210	Construction Staking	0.936	Mile
009E3220	Reestablish Right-of-Way and Property Corner	7	Each
009E3230	Grade Staking	0.533	Mile
009E3245	Final Cross Section Survey	0.533	Mile
009E3250	Miscellaneous Staking	0.533	Mile
009E3280	Slope Staking	0.533	Mile
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0130	Remove Traffic Sign	14	Each
110E0600	Remove Fence	3,581	Ft
110E1010	Remove Asphalt Concrete Pavement	30.0	SqYd
110E1700	Remove Silt Fence	48	Ft
120E0010	Unclassified Excavation	20,565	CuYd
120E0100	Unclassified Excavation, Digouts	46	CuYd
120E2000	Undercutting	3,696	CuYd
120E6100	Water for Embankment	113.0	MGal
120E6200	Water for Granular Material	87.0	MGal
210E1005	Surface Preparation	0.100	Mile
230E0010	Placing Topsoil	4,737	CuYd
230E0020	Contractor Furnished Topsoil	50	CuYd
240E0010	Obliterate Old Road	26	Sta
250E0020	Incidental Work, Grading	Lump Sum	LS
260E1010	Base Course	92.0	Ton
260E1030	Base Course, Salvaged	9,130.0	Ton
260E3500	Temporary Gravel Surfacing	100.0	Ton
* 260E6000	Granular Material, Furnish	239.0	Ton
270E0042	Salvage Asphalt Mix and Granular Base Material	10,998.0	Ton
* 270E0200	Blend, Haul, and Stockpile Granular Material	478.0	Ton
270E0220	Blend and Stockpile Granular Material	10,000.0	Ton
320E0032	PG 58H-34 Asphalt Binder	196.3	Ton
320E1200	Asphalt Concrete Composite	10.0	Ton
320E1203	CLASS Q3R HOT MIXED ASPHALT CONCRETE	4,110.0	Ton
320E1800	Asphalt Concrete Blade Laid	61.0	Ton
320E4000	Hydrated Lime	41.3	Ton
320E7008	Grind 8" Rumble Strip or Stripe in Asphalt Concrete	0.8	Mile
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	1.1	Mile
320E7040	Grind 6" Transverse Rumble Strip in Asphalt Concrete	374.0	Ft
330E0010	MC-70 Asphalt for Prime	18.9	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	10.8	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	0.5	Ton
330E0300	SS-1h or CSS-1h Asphalt for Fog Seal	2.6	Ton

ESTIMATE OF QUANTITIES (CONTINUED)

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-PT 0018(222)311, NH 0281(122)0 & P 0043(26)0	8	267

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P 0043(26)0 – PCN 06D8 (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
330E1000	Blotting Sand for Prime	47.0	Ton
330E2000	Sand for Flush Seal	0.2	Ton
330E3000	Sand for Fog Seal	1.0	Ton
332E0010	Cold Milling Asphalt Concrete	7,526	SqYd
360E0020	AE150S Asphalt for Surface Treatment	18.4	Ton
360E1050	Type 3 Cover Aggregate	247.0	Ton
450E0143	24" RCP Class 3, Furnish	104	Ft
450E0150	24" RCP, Install	104	Ft
450E0163	30" RCP Class 3, Furnish	74	Ft
450E0170	30" RCP, Install	74	Ft
450E2200	24" RCP Sloped End, Furnish	2	Each
450E2201	24" RCP Sloped End, Install	2	Each
450E2204	30" RCP Sloped End, Furnish	2	Each
450E2205	30" RCP Sloped End, Install	2	Each
450E4759	18" CMP 16 Gauge, Furnish	82	Ft
450E4760	18" CMP, Install	82	Ft
450E4769	24" CMP 16 Gauge, Furnish	86	Ft
450E4770	24" CMP, Install	86	Ft
450E5406	18" CMP Safety End, Furnish	2	Each
450E5407	18" CMP Safety End, Install	2	Each
450E5410	24" CMP Safety End, Furnish	2	Each
450E5411	24" CMP Safety End, Install	2	Each
620E0020	Type 2 Right-of-Way Fence	4,744	Ft
620E0510	Type 1 Temporary Fence	3,684	Ft
620E1020	2 Post Panel	11	Each
620E1030	3 Post Panel	6	Each
632E1320	2.0"x2.0" Perforated Tube Post	26.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	75.0	Ft
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	11	Each
632E2510	Type 2 Object Marker Back to Back	4	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	58.9	SqFt
634E0010	Flagging	1,250.0	Hour
634E0020	Pilot Car	500.0	Hour
634E0110	Traffic Control Signs	243.7	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	4	Each
634E0340	Temporary Raised Pavement Markers	0.7	Mile
634E0380	Tubular Marker	100	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
634E0630	Temporary Pavement Marking	2.1	Mile
730E0100	Cover Crop Seeding	116.4	Bu
730E0210	Type F Permanent Seed Mixture	148	Lb

P 0043(26)0 – PCN 06D8 (CONTINUED)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
731E0200	Fertilizing	2.90	Ton
734E0044	Soil Stabilizer	2.5	Acre
734E0604	High Flow Silt Fence	214	Ft
734E0610	Mucking Silt Fence	13	CuYd
734E0620	Repair Silt Fence	48	Ft
900E1320	Construction Entrance	1	Each

*** - Denotes Non-Participating**

TABLE OF CONSTRUCTION STAKING

(See Special Provision for Contractor Staking)

REVISION 4/28/2026 WJB

					Grade Staking									
US18 Regrading (067V)	Begin Station	End Station	Number of Lanes	Length (Ft)	Length (Mile)	Lane Factor	*Sets of Stakes	**Grade Staking Quantity (Mile)	Miscellaneous Staking Quantity (Mile)	Slope Staking Quantity (Mile)	Final Cross Section Survey Quantity (Mile)	Construction Staking Quantity (Mile)	Structure Staking Quantity (Each)
US18 West													
US 18 (2 Lanes AC Pavement)	17+00	76+08	2	5,908	1.119	1	1	1.119	1.119	1.119	1.119		
US 18 (2 Lanes AC Pavement) (Centerline Offset)	0+00	76+08	2	7,608	1.441	1	1					1.441	
US18 East													
US 18 (2 Lanes AC Pavement)	-0+75	43+26	2	4,401	0.834	1	1	0.834	0.834	0.834	0.834		
US 18 (2 Lanes AC Pavement) (Centerline Offset)	-0+75	43+26	2	4.401	0.834	1	1					0.834	
US18 Mill & Overlay Segment													
US 18 (2 Lanes AC Pavement) (Culvert Work)	40+88	452+23	2	41,135	7.791	1	1		7.791				
US 18 (2 Lanes AC Pavement) (Centerline Offset)	40+88	452+23	2	41,135	7.791	1	1					7.791	
							Totals:	1.953	9.744	1.953	1.953	10.066	

					Grade Staking								
SD43 Regrading (06D8)	Begin Station	End Station	Number of Lanes	Length (Ft)	Length (Mile)	Lane Factor	*Sets of Stakes	**Grade Staking Quantity (Mile)	Miscellaneous Staking Quantity (Mile)	Slope Staking Quantity (Mile)	Final Cross Section Survey Quantity (Mile)	Construction Staking Quantity (Mile)	Structure Staking Quantity (Each)
SD 43 (2 Lanes AC Pavement)	21+30	49+42	2	2,812	0.533	1	1	0.533	0.533	0.533	0.533		
SD 43 (2 Lanes AC Pavement) (Centerline Offset)	0+00	49+42	2	4,942	0.936	1	1					0.936	
							Totals:	0.533	0.533	0.533	0.533	0.936	

					Grade Staking								
US281 Regrading (06D1)	Begin Station	End Station	Number of Lanes	Length (Ft)	Length (Mile)	Lane Factor	*Sets of Stakes	**Grade Staking Quantity (Mile)	Miscellaneous Staking Quantity (Mile)	Slope Staking Quantity (Mile)	Final Cross Section Survey Quantity (Mile)	Construction Staking Quantity (Mile)	Structure Staking Quantity (Each)
US 281 (2 Lanes AC Pavement)	0+33	36+86	2	3,653	0.692	1	1	0.692	0.692	0.692	0.692		1
US 281 (2 Lanes AC Pavement) (Centerline Offset)	0+00	36+86	2	3,686	0.698	1	1					0.698	
							Totals:	0.692	0.692	0.692	0.692	0.698	1

* 1 = Blue Top Stakes Only (Asphalt Concrete Pavement)

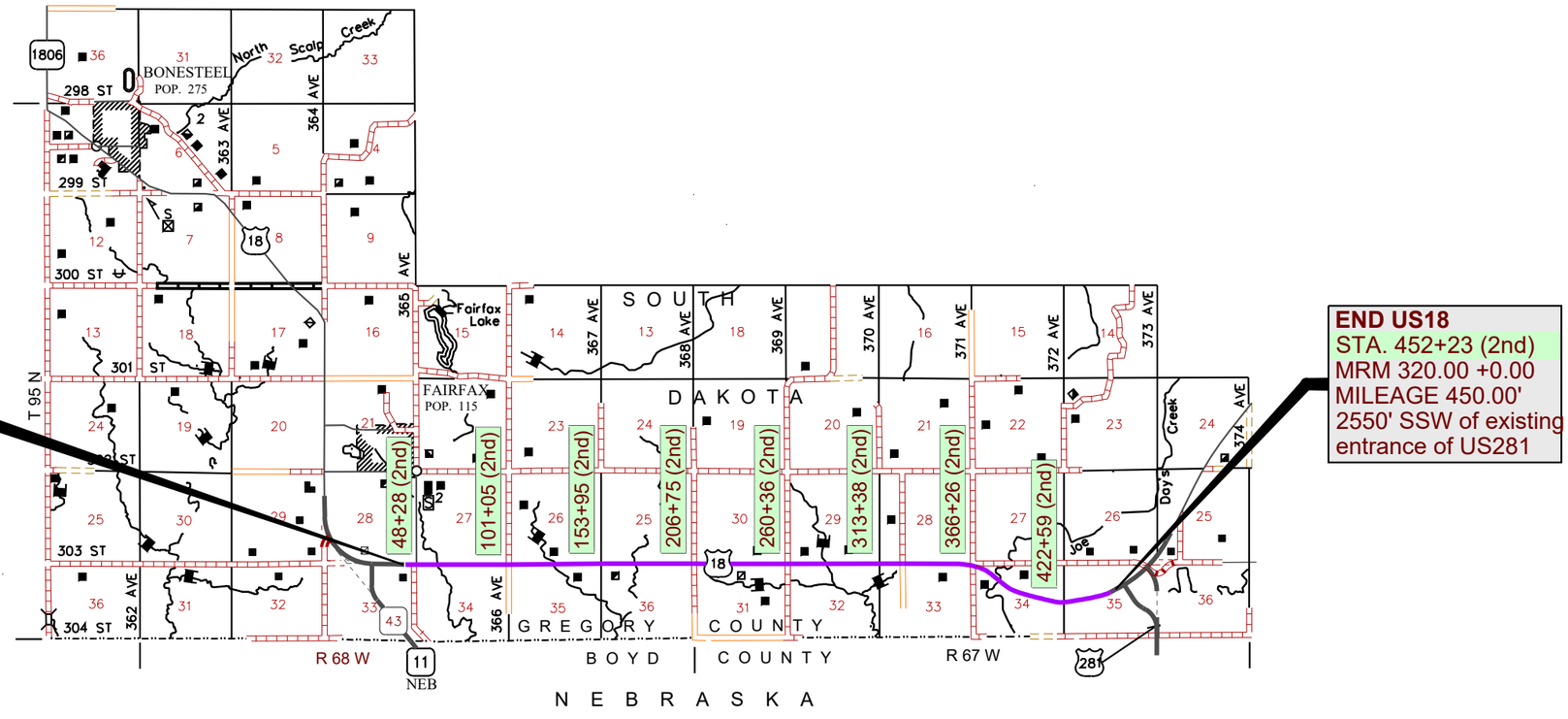
** Grade Staking Quantity = (Length) x (Lane Factor) x (Sets of Stakes)

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13792
WAYLON J. BASIUS
SOUTH DAKOTA
04/28/2026

BAI JOB # 23190-10	STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
		NH-PT 0018(222)311, NH 0281(122)0 & P 0043(26)0	123	267

Plotting Date: REVISION 4/28/2026 WJB

US18

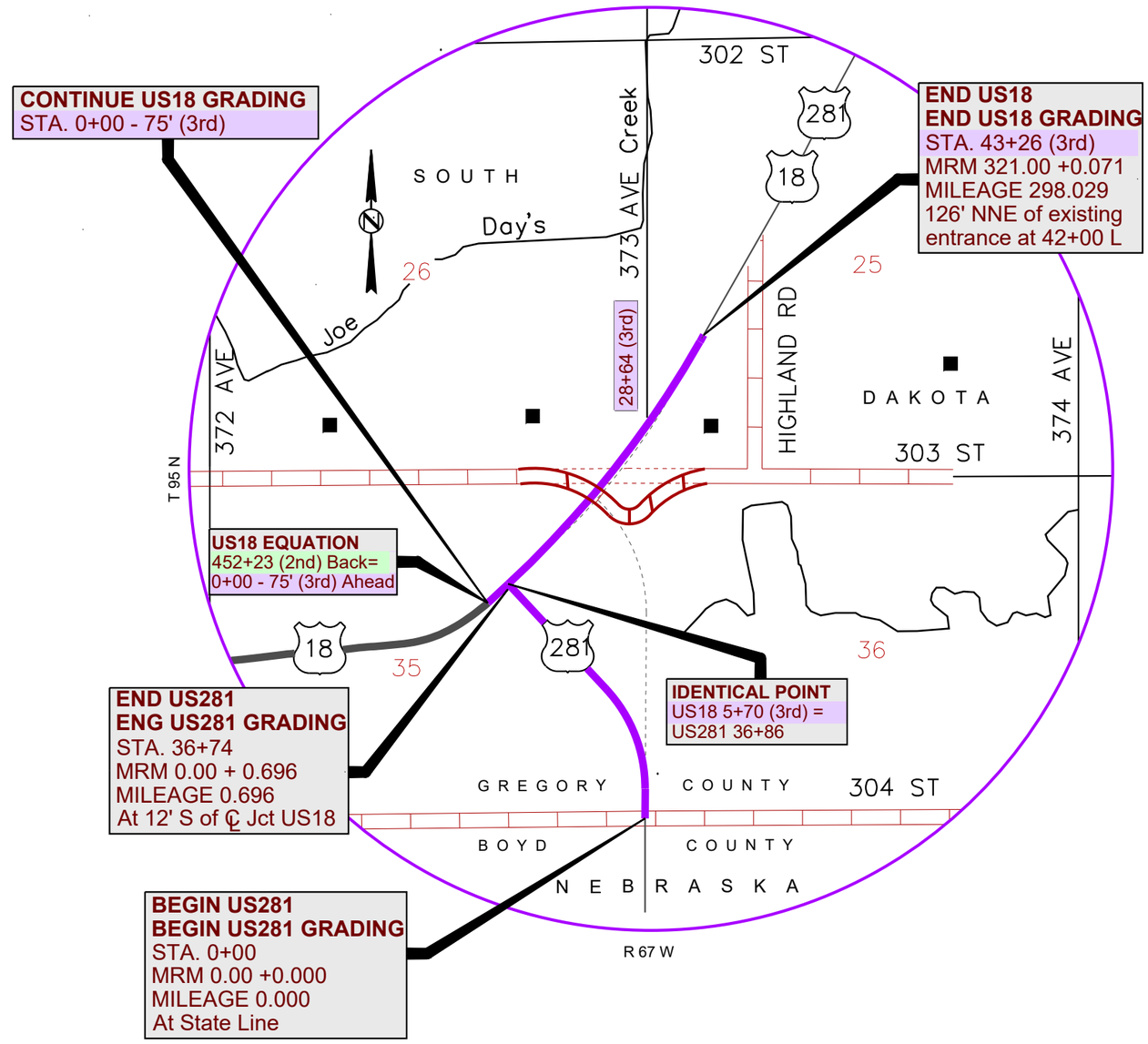


BEGIN US18
STA. 40+88 (2nd)
MRM 312.00 +0.610
MILEAGE 0.000
740' W of Jct 365 Ave

END US18
STA. 452+23 (2nd)
MRM 320.00 +0.00
MILEAGE 450.00'
2550' SSW of existing entrance of US281

REGISTERED PROFESSIONAL ENGINEER
REG NO. 13292
WAYLON J. BLASIUS
SOUTH DAKOTA
04/28/2026

US18 & US281



CONTINUE US18 GRADING
STA. 0+00 - 75' (3rd)

END US18
END US18 GRADING
STA. 43+26 (3rd)
MRM 321.00 +0.071
MILEAGE 298.029
126' NNE of existing entrance at 42+00 L

US18 EQUATION
452+23 (2nd) Back=
0+00 - 75' (3rd) Ahead

END US281
ENG US281 GRADING
STA. 36+74
MRM 0.00 + 0.696
MILEAGE 0.696
At 12' S of ℄ Jct US18

IDENTICAL POINT
US18 5+70 (3rd) =
US281 36+86

BEGIN US281
BEGIN US281 GRADING
STA. 0+00
MRM 0.00 +0.000
MILEAGE 0.000
At State Line

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