

**CASS COUNTY HIGHWAY DEPARTMENT
BIDDERS PROPOSAL & PLANS
FOR
COUNTY PROJECT CH1405
CRACK CLEAN AND SEAL**

Various locations on Cass County Highways,
in Cass County, North Dakota

Date of Letting: 10:00 A.M., February 20th, 2014

Proposal of: _____

COUNTY PROJECT CH1405

CRACK CLEAN AND SEAL

Various locations on Cass County Highways

in Cass County, North Dakota

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of North Dakota.

_____/S/

Jason P. Benson
ND Reg. No. 7490

Date: 1/22/14

GOVERNING SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED BY THE NORTH DAKOTA DEPARTMENT OF TRANSPORTATION, OCTOBER 2008; SHALL APPLY, STANDARD DRAWINGS CURRENTLY IN EFFECT; AND OTHER CONTRACT PROVISIONS SUBMITTED HEREIN.

THIS DOCUMENT WAS ORIGNALLY ISSUED AND SEALED BY JASON P. BENSON, ND REG. NO. 7490 ON 1/22/14 AND THE ORIGINAL DOCUMENT IS STORED AT THE CASS COUNTY HIGHWAY DEPARTMENT, WEST FARGO, ND

COUNTY PROJECT NUMBER CH1405

CRACK CLEAN AND SEAL

INSTRUCTIONS TO BIDDERS:

For the 2014 Construction season, Cass County Highway Department will be accepting bids as paper copies and electronically at BidExpress.com. For the 2015 Construction season and beyond, Cass County may **only** accept bids electronically.

The Cass County Auditor at the Auditor's Office, 211 9th Street South, Fargo, North Dakota, will receive sealed paper bids until 10:00 a.m. on February 20th, 2014. Bids will be opened immediately both electronically and traditionally following the hour set for receiving bids in the Grasslands Room at the Cass County Courthouse, 211 9th Street South, Fargo, North Dakota.

Paper copies of plans and proposal may be obtained at the office of the Cass County Engineer, West Fargo, North Dakota, at \$10.00 per set, non-refundable. Digital copies are available at BidExpress.com free for viewing.

All envelopes containing bids must be clearly marked on the outside "**BID FOR CRACK CLEAN AND SEAL**", and the North Dakota contractor's license number must be shown.

A bidder's bond in the amount of 5% of the amount bid, made payable to Cass County shall accompany each bid in a SEPARATE ENVELOPE ATTACHED TO THE OUTSIDE OF THE BID. Certified or Cashiers checks will not be accepted. **A copy of the current ND Contractor's License or certificate of renewal shall be included in the Bid Bond envelope.** No bid will be read or considered which does not comply with the bond or license requirements.

Prequalification is required for all bidders prior to obtaining a bidder's proposal. Contractors may be required to submit information detailing their ability to perform the work specific to this project. Cass County shall determine the Prequalification status of each contractor requesting a proposal, and reserves the right to deny bid documents to any contractor based on the County's responsibility determination.

The County reserves the right to reject any or all bids, and to waive any irregularities. All bidders must be qualified to bid under the laws of North Dakota in accordance with § 43-07-12 of the N.D.C.C.

COUNTY PROJECT NUMBER CH1405

CRACK CLEAN AND SEAL

INDEX OF PROVISIONS:

North Dakota Supplemental Specifications

Supplemental Specifications dated October 1, 2013 are not included in this proposal but are available at the county engineer's office, or be downloaded from the NDDOT's website at the following website:

<http://www.dot.nd.gov/dotnet/suppspecs/standardspecs.aspx>

Price Schedule for Miscellaneous Items Dated March 1, 2013

Special Provision 14-1 Contractor License & Contractor Claims

Special Provision 14-2 Crack Clean and Seal

Typical Sections

Summary of Quantities

Location Map

Sign Layout

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

PRICE SCHEDULE FOR MISCELLANEOUS ITEMS

March 1, 2013

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.

Payment for items of work under this schedule performed by a Subcontract shall include an additional allowance for the Prime Contractor as specified in Section 104.03 of the Standard Specifications.

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

SECTION NO.	SECTION NAME	ITEM NAME	PRICE PER ITEM
107.05 A.1	Maintaining Traffic	Flagging	\$32 per MHR
107.05 B.1	Haul Roads	Water	\$27 per M Gal.
107.05 B.7	Haul Roads	Bituminous Mix	\$42 per Ton**
107.05 B.7	Haul Roads	Bitumen for Mix	Invoice Price* + 10%
107.05 B.7	Haul Roads	Aggregate Base	\$17 per Ton**
203.01 B	Rock Excavation	Rock Excavation	\$11 per CY
203.01 C	Shale Excavation	Shale Excavation	Common Excavation Bid Price + \$1.00 per CY
203.01 D	Muck Excavation	Muck Excavation	\$9 per CY
203.02 F	Embankment Construction	Overhaul	\$1.40 per CY - Mile
407.07 B.2.a or 408.07 C.2.a	Hot Bit. Pavement (Excavated 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
420.06	Bituminous Seal Coat	Blotter Sand	\$27 per Ton**
650.04 D.2 Step 3 650.05 D.2 Step 3	Repair & Overlay of PCC Bridge Decks	Low-Slump Concrete	\$335.55 per CY
708	Erosion Control	Mucking Silt Fence	\$3.90 per L.F.
708	Erosion Control	Mucking of Fiber Rolls	\$3.90 per L.F.
708	Erosion Control	Removal of Silt Fence ***	\$4.25 per L.F.
708	Erosion Control	Removal of Fiber Rolls ***	\$4.25 per L.F.

* Price paid for bituminous material will be Invoice Price plus Freight Costs.

** Price includes haul up to 10 miles. Payment for haul exceeding 10 miles will be according to Section 109.04 C of the Standard Specifications. 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.

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

CASS COUNTY HIGHWAY DEPARTMENT

SPECIAL PROVISION 14-1

January 1, 2014

SECTION 102.02 CONTRACTOR LICENSE:

Section 102.02 of the Standard Specifications for Road and Bridge Construction, 2008 edition is deleted. All bidders must possess a current North Dakota Contractors License in accordance with § 43-07-12 of the North Dakota Century Code.

SECTION 104.06 CONTRACTOR CLAIMS:

If the Contractor claims additional compensation for work or material not covered by the Contract, the Contractor is required to prosecute the claim in accordance with Standard Specifications for Road and Bridge Construction, 2008 edition, paragraph 104.06, et seq. The provisions of subparagraph 104.06 D are not applicable to this contract, nor are the provisions of North Dakota Century Code 24-02-06 et seq. as the North Dakota Department of Transportation is not a party to this contract.

References in the Standard Specifications for Road and Bridge Construction, 2008 edition, to the North Dakota Department of Transportation or Department must be construed as referring to the owner. Likewise, a reference by the same works to engineer or director must be construed as referring to the owner of the project.

CASS COUNTY HIGHWAY DEPARTMENT**SPECIAL PROVISION 14-2**

January 1, 2014

CRACK CLEAN AND SEAL**DESCRIPTION OF WORK:**

This work shall consist of routing and sealing transverse and longitudinal cracks in the asphalt concrete roadway surfaces indicated on the attached map with the specified sealant.

MATERIAL:

1. The sealant material shall be low modulus, elastic type meeting the requirements of ASTM D6690.
2. The material shall be consist of asphalt and modifiers blended to produce a product with the following typical physical properties when tested after proper reaction of the material in a hot oil jacketed kettle for a minimum of 6 hours.

Test	Limits
Cone Penetration at 77° F 150 gr., 5 Seconds	90-150
Flow, 140° F	3.0 mm max.
Cold Bond: -20° F., 200% Extension	3 Pass Cycles
Minimum Application Temperature	380° F
Maximum Heating Temperature	400° F

The Contract shall submit a material specification sheet from the manufacturer showing test results for the above properties. The product name/number, name of the manufacturer, and the name of the supplier of the material shall also be provided. **This information shall be included with the Contractors bid.**

3. The material shall contain no water or volatile solvents and shall cure immediately upon cooling to a sufficient viscosity to prevent tracking by traffic.

CONSTRUCTION REQUIREMENTS:**A. Routing**

1. Routing equipment shall be mechanical, power driven and capable of cutting a reservoir to the required dimensions. Equipment designed to plow the cracks to dimensions will not be permitted. Each side wall of the finished reservoir shall be vertical within a tolerance of 1/16 inch.
2. Cracks which are less than 3/4 inch in width or depth will require routing to a width and depth of 3/4 to 7/8 inch.
3. Cracks which are 3/4 inch or greater in width and depth will not require routing, but shall be thoroughly cleaned of foreign material to a depth equal to the width of the crack.
4. The wall of the finished reservoir shall be vertical and the reservoir bottom shall be flat.
5. Routing will not be allowed when the roadway is wet.

B. Cleaning

1. Cleaning shall be accomplished with an air compressor producing a minimum of 125 CFM output and equipped with a maximum 3/4" nozzle.
2. Reservoirs and cracks shall be thoroughly cleaned of dust, dirt, and loose materials so that it is clean and dry at the time the blocking medium or sealant are applied.
3. If a routed reservoir or crack is left overnight, it shall be recleaned immediately before the blocking medium or sealant is applied.
4. As a second cleaning procedure, a **heatlance** will be used to clean out any remaining debris and/or moisture just prior to sealant placement.
5. All routed asphalt concrete and foreign material resulting from the reservoir preparation shall be removed from the roadway surface before an area is opened to traffic.

C. Sealing

1. Cracks 3/8" or larger existing below the routed and cleaned reservoir shall be filled with an inert compressible material to ensure a nominal sealant depth equal to the width of the reservoir. The Engineer shall approve the compressible material proposed for use. All costs for furnishing and placing the blocking medium shall be included in the contract unit price bid for "Crack Clean and Seal."
2. Sealant material shall be placed within 72 hours of routing.
3. There shall be no visible signs of moisture on the roadway surface or in the reservoir at the time the sealant is applied.
4. The sealant manufacturer's recommended handling, mixing and application temperature restrictions shall be strictly adhered to.
5. Sealant shall be applied with a pressure type applicator.
6. When applying the sealant, the reservoir shall be overfilled and squeegeed to provide a film of sealant on the roadway surface 1 to 3 inches on both sides of the reservoir. If however, settlement occurs within the reservoir, a second application shall be done to fill all cracks to road level.
7. The squeegee shall be "U" shaped device, which will produce a full, uniform and neat appearing reservoir and adjoining surface area. Other type devices will require prior approval by the engineer.
8. A blotting material such as toilet tissue or an all natural, biodegradable, non toxic liquid designed to prevent tracking and picking of freshly applied hot -melt crack and joint sealant such as Glensoil 20 Plus or an approved equal product will be used. This product will allow shadow vehicles and traffic immediate access to the repaired pavement.
9. The Contractor shall repair or refill, at his own expense, any part of a sealed reservoir damaged by traffic.

D. Seasonal and Temperature Limitations

1. Routing and sealing of asphalt concrete surfaces shall be permitted only during daylight hours. See sheet 4 of 5 of the Proposal for completion dates.
2. Routing with a star bit type router will not be allowed when the air temperature is below 55° F.
3. Application of the sealant material not be allowed when the air temperature is below 45° F.

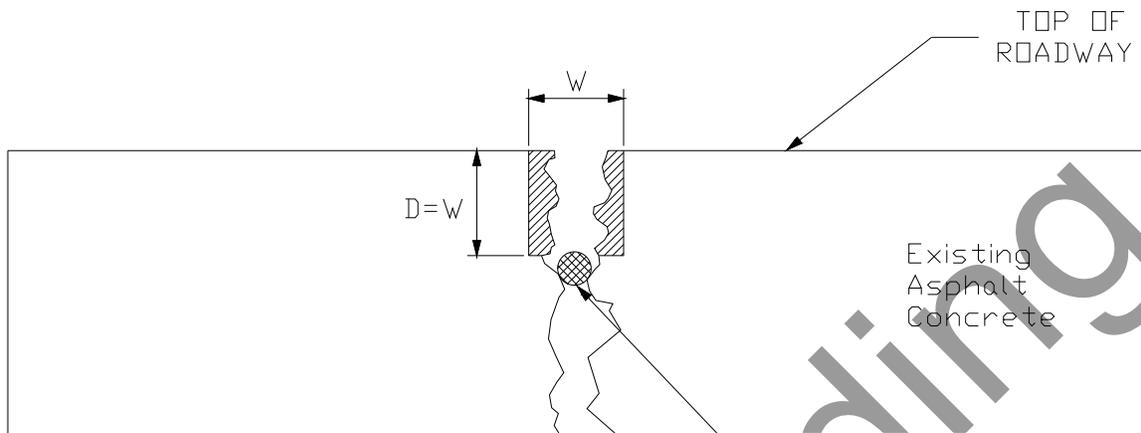
E. Traffic Control

1. Only one-half of the roadway shall be worked on at a time.
2. Routing and crack sealing shall be considered one work zone. A work zone shall not exceed two miles in length at any one time.
3. During weekends, nighttime and other non-working hours all temporary traffic control devices, materials, and equipment shall be removed to a minimum distance of 30 feet from the driving lane.
4. Traffic shall be maintained on the driving lanes through the work area by use of **flaggers on each end of the of the work zone at all times**. A pilot car will be required if traffic volumes and speeds through the work zone cannot be controlled by the use of flaggers. Use of the shoulder, as a driving lane shall not be permitted. The Contractor's traffic shall be in the same direction as public traffic. Routing and sealing of joints shall be considered a moving operation and shall be daylight operations.
5. Traffic approaching the project from intersecting roadways, streets, and approaches must be adequately accommodated. At major intersections or large commercial entrances, this may require additional signing, flaggers and channelizing devices on a temporary basis until work activities pass these areas.
6. Traffic control shall comply with construction sign layout Type A on Standard Drawing D-704-15. Standard Drawings D-704-9, 10,11,12,13, and 14 are also applicable.
7. Indiscriminate driving and parking of vehicles on the slopes and in the ditches will not be permitted. The Contractor at its expense shall restore damage as a result of such use.
8. All costs associated with traffic control shall be included in the unit price bid for "Crack Clean and Seal", and shall not be measured for separate payment.

BASIS OF PAYMENT:

Payment shall be made at the Contract Unit Prices per pound of material used, and shall be full compensation for labor, equipment, materials, traffic control, required insurance and bonds necessary to complete the work as specified. No adjustment to the contract unit price for "Crack Clean and Seal" shall be made regardless of changes in the contract quantity.

TYPICAL RESERVOIR SECTION

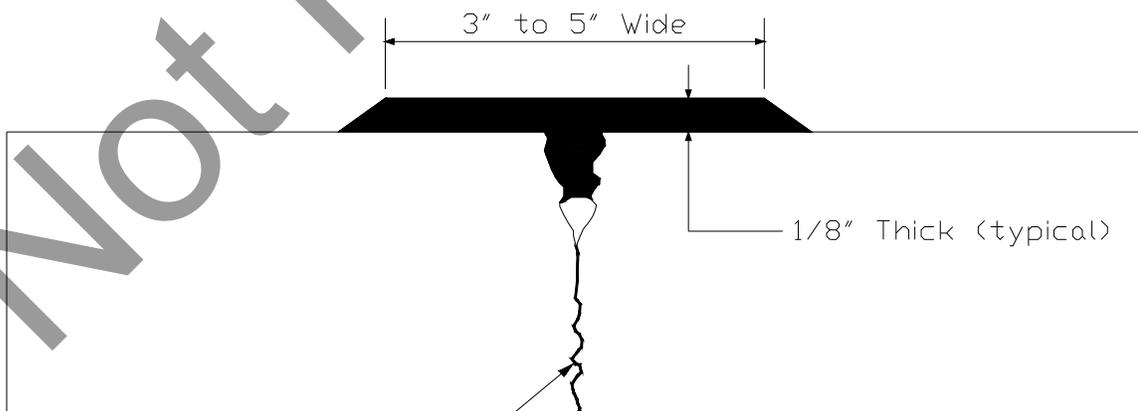


* EXISTING CRACK

COMPRESSIBLE MATERIAL

* Inert compressible material required for cracks 3/8" or more in width

W = 3/4" minimum



* EXISTING CRACK

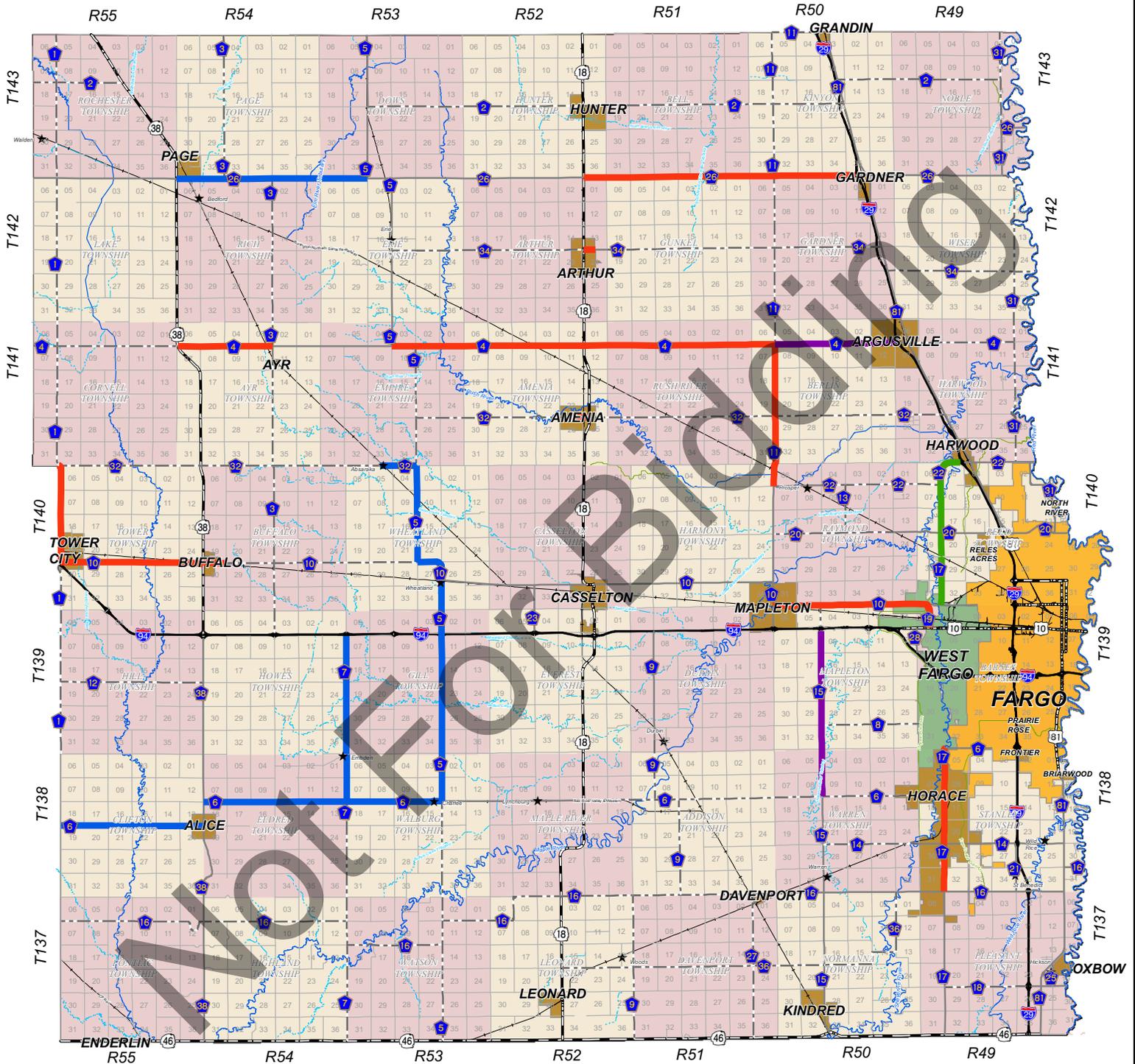
NO BANDING OR ROUTING ON CONCRETE PAVEMENT

Summary of Quantities

Hwy.	LOCATION	Total Segment Length (Miles)	Total Crack Length (ft)	Total (lbs)	Method
1	Hwy 10 to Hwy 32	4.0	22,767	6,520	Route New - Blow & Go Existing
4	From State Hwy 38 to Hwy 3	3.9	16,762	4,800	Route New - Blow & Go Existing
4	Hwy 5 North to State Hwy 18	8.0	22,767	6,520	Route New - Blow & Go Existing
4	From State Hwy 18 to Hwy 11	8.0	22,767	6,520	Route New - Blow & Go Existing
4	Hwy 11 to Hwy 81	5.5	10,286	2,946	Route New
5	Hwy 32 to I-94	8.0	6,040	1,730	Route New - Blow & Go Existing
5	I-94 to Hwy 6	6.8	5,661	1,621	Route New - Blow & Go Existing
6	Hwy 38 to Barnes Co. Line	6.0	4,530	1,297	Route New - Blow & Go Existing
6	Hwy 38 to Hwy 5	10.0	29,621	8,483	Route New - Blow & Go Existing
7	I-94 to Embden	4.9	13,945	3,994	Route New - Blow & Go Existing
7	Embden South to Hwy 6	2.0	5,692	1,630	Route New - Blow & Go Existing
10	Hwy 1 through the City of Buffalo	6.9	19,637	5,624	Route New - Blow & Go Existing
10	Hwy 11 East to Sheyenne Diversion Bridge	7.0	23,987	6,869	Route New - Blow & Go Existing
11	Hwy 22 to Hwy 4	6.0	12,894	3,693	Route New - Blow & Go Existing
15	I-94 South to Hwy 16	11.0	85,610	24,517	Route New
17	Hwy 6 to Hwy 16	6.0	9,757	2,794	Route New - Blow & Go Existing
17	I-29 to Hwy 20	3.5	17,279	4,948	Blow & Go Existing
19	W Fargo RR to Hwy 10 (12th Ave)	0.7	1,992	571	Route New - Blow & Go Existing
26	State Hwy 38 to Hwy 5 North	8.0	7,589	2,173	Route New - Blow & Go Existing
26	State Hwy 18 to I-29	11.3	58,411	16,728	Route New - Blow & Go Existing
32	Hwy 5 West to Absaraka	1.6	1,580	452	Route New - Blow & Go Existing
32	State Hwy 18 Through Amenia	0.5	2,149	615	Route New - Blow & Go Existing
34	State Hwy 18 Through Arthur	0.2	860	246	Route New - Blow & Go Existing
	Chrisan, Round Hill, & Forest River	2.8	28,750	8,233	Route New
		Total =		123,526	lbs.

Cass County Highway Department

Project No. CH1405 Location Map - 2014 Crack Seal



Jason Benson
County Engineer, P.E.

Richard Sieg
Highway Superintendent

Prepared by
Cass County GIS
January 2014



Cass County Hwy. Dept.
1201 Main Ave. W
West Fargo, ND 58078

(701) 298-2370

Web: <http://www.casscountynd.gov>
Email: highway@casscountynd.gov



2014 Crack Seal Projects

- Blow & Go Existing (Concrete)
- Route New
- Route New / Blow & Go Existing
- Route New / Blow & Go Existing (2014 Chip Seal Projects)

Disclaimer: As with all public information derived from variable sources, this data may contain errors or faults. Therefore, Cass County does not provide any warranty express or implied, as to the accuracy of this data. The recipient is encouraged to make an independent investigation of verification of the data. If an error is found, it is requested the County Engineer be advised of the particulars so the data can be examined and corrected. THIS MAP IS NOT A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

2014 CRACK SEAL
CASS COUNTY
PROJECT NO. CH1405 LOCATION MAP



PROPOSAL

Note: The envelope containing this proposal should be marked:

“BID FOR CRACK CLEAN AND SEAL”, in Cass County.

(Proposal of - Name)_____

(Address)_____

To furnish and deliver all materials and to do and perform all work, in accordance with the Standard Specifications, adopted by North Dakota Department of Transportation October 2008, Standard Drawings currently in effect, and other contract provisions submitted herewith of the North Dakota Department of Transportation except as specifically stated otherwise in the "Special Provisions" contained therein, for the improvement of a certain Public Highway in Cass County, State of North Dakota, on which proposals will be received until 10:00 o'clock A.M., on the 20th day of February 2014, this highway being known as Cass County Project Number CH1405. Said project being situated as follows: Beginning at various locations on highways in Cass County, as indicated on the plans.

Not For Bidding

PROPOSAL

COUNTY PROJECT NUMBER: CH1405

TYPE: Crack Clean and Seal

To The Chairman:
Cass County Board of Commissioners
Fargo, North Dakota

In accordance with the advertisement and notice to bidders from the Cass County Highway Department inviting proposals for the work on the project described above, the Bidder proposes to furnish all materials specified, and perform all work in the manner and at the time prescribed. The Bidder understands the quantities of work shown herein are approximate only, and are subject to increase or decrease. The bidder further understands that all quantities of work, whether increased or decreased, are to be performed at the unit prices proposed herein (except as otherwise provided in the contract documents).

The bid schedule, time for completion, other provisions, and bidder's affidavit follows:

Not For Bidding

PROPOSAL

BID SCHEDULE FOR COUNTY PROJECT NUMBER CH1405

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.

Spec. No.	Item No.	Description	Unit & Approx. Qty.	<u>Unit Price</u>		<u>Amount</u>	
				\$\$\$\$	000	\$\$\$\$	000
950	001	Route Crack Clean and Seal	LBS 123,526				

TOTAL = \$ _____

RECEIPT OF ADDENDUMS

NO. 1 _____

NO. 2 _____

NO. 3 _____

Not For Bidding

PROPOSAL

COUNTY PROJECT NUMBER: CH1405

TYPE: Crack Clean and Seal

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: N/A working days, counted as provided in Standard Specification No. 108.04. Working days will be counted from N/A or from the actual date on which on-site work is started, whichever is earlier.

COMPLETION DATE CONTRACT: As provided in Standard Specification No. 108.04, all work to be completed by.

COMPLETION DATE CONTRACT: As provided in Standard Specification No. 108.04, completion dates this year's sealcoat projects are as follows: **June 1, 2014** for **Hwy 5** from Hwy 32 to Hwy 10, **Hwy 5** from Hwy 10 to I94, **Hwy 5** from I94 to Hwy 6, **Hwy 6** from the Barnes County Line to Hwy 38, **Hwy 10** from Hwy 5 North Southeast to concrete section, **Hwy 26** from State Hwy 38 to Hwy 5 North, & **Hwy 32** from Hwy 5 west through the city of Absaraka. The remainder of highways all work to be completed prior to **June 30, 2014**.

Not For Bidding

PROPOSAL

COUNTY PROJECT NUMBER: CH1405

TYPE: Crack Clean and Seal

CONTRACT EXECUTION:

The undersigned Bidder agrees, if awarded the contract, to execute the contract form and furnish a contract bond within ten days, as determined by N.D.C.C Section 1-02-15, after date of notice of tentative 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 he/she is an authorized representative

Of _____

Of _____, a

___ Individual ___ Partnership ___ Joint Venture ___ Corporation

and that the said bidder has examined and carefully prepared its bid from the plans and specifications and has checked the same in detail before submitting said proposal or bid; and that the said bidder or its agents, office, or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal or bid.

_____,

Title _____

Bidder must sign on this line

Subscribed and sworn to
before me this day

Type or Print Signature

_____ County, _____

Notary Public

My commission expires _____