

**CASS COUNTY HIGHWAY DEPARTMENT
BIDDERS PROPOSAL & PLANS
FOR
COUNTY PROJECT CH1407
DRAIN TILE INSTALLATION**

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 NUMBER CH1407

DRAIN TILE INSTALLATION

SCOPE OF WORK:

The scope of this project is to install drain tile on Cass Highway 32 from State Highway 18 to Cass Highway 11, with an option to do Cass Highway 36 from Cass Highway 16 to 2.75 miles south. See the attached Project Location Map. This design requires the installation of 1 line of 4 inch drain tile, down the centerline.

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 DRAIN TILE INSTALLATION**", and the current North Dakota Contractors 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 Cashier's 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 the State of North Dakota.

County Projects CH1407 & the C-36 Option will be bid together as one project and the contract will be awarded to the lowest combined total bid. Then pending budget constraints the C-36 Option may also be awarded.

COUNTY PROJECT NUMBER CH1407

DRAIN TILE INSTALLATION

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

Construction Notes

Basis of Estimate & Summary of Quantities

Typical Sections

Location Map

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 24-02-26 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.

Not For Bidding

CONSTRUCTION NOTES

BASIS OF PAYMENT:

Payment shall be made at the Contract Unit Prices per lineal foot of drain tile 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 "Drain Tile Installation" shall be made regardless of changes in the contract quantity.

ROADBED DRAIN TILE:

The existing aggregate surfacing shall be windrowed to one side of the road top by the contractor prior to any trenching operations. All costs associated with this item to be included in the price bid for drain tile installation. See the basis of estimate for the approximate existing material.

Four inch roadbed tile drain shall be corrugated Polyethylene Tubing. To prevent infiltration of filter aggregate into the perforated pipe it shall be wrapped with Geotextile.

Upgrade ends of drain runs shall be capped.

It shall be the responsibility of the Contractor to keep the outlets open at all times during the construction operations so as to prevent trapping of the water in the subgrade.

Discharge pipe to the drain outlet shall be constructed concurrently with the drains and laid at roughly right angles to the roadway centerline. The trench shall be constructed similar to the centerline drain tile section and be backfilled and compacted to the subgrade surface with filter aggregate. Compaction equipment shall be similar to that required for the drain trench. Care shall be taken not to crush or deform the discharge pipe. Discharge pipe grades shall be no less than the drain pipe and at least one (1) percent whenever possible.

Discharge outlets shall be kept one (1) foot above ditch grades whenever possible.

The Contractor shall not be permitted to set the tiling machine onto the inslope of the road and begin the trenching operations and maintaining the grade as set.

The maximum length of pipe run approximately 750 feet shall be based on the shoulder ditch bottom separation distance.

End caps shall be performed incidental (4" Perforated Corrugated Pipe Drain).

CONSTRUCTION NOTES

Roadbed tile drains shall be placed by the machine trencher capable of cutting a seven (7) inch to ten (10) inch wide trench, cutting a shaped flow line cradle to support the lower 1/3 portion of the tile and laying the tile in a continuous operation. **(Plowing will not be permitted)**. The trenching equipment shall be so designed and operated that excavated material does not fall back into the trench. The Engineer may direct that any soil not excavated, be removed prior to placing any filter aggregate and all at the contractor's expense. The excavated material shall be windrowed on the roadway in a method that does not contaminate the filter aggregate. The excavated material shall be spread on the outer edges of the roadbed and covered with aggregate surfacing.

Compaction Equipment shall be restricted from the above subsurface drain until the filter aggregate and subgrade backfill provide at least 18" of cover measured from the top of the pipe. The compaction operation shall be monitored to prevent deformation of the subsurface drain.

Placing and compacting filter aggregate; furnishing and installing outlet rock and finishing shall be considered incidental to (4" Perforated Corrugated P.E. Pipe Drain) and no direct compensation shall be made. If the pipe and filter aggregate are not placed simultaneously by the trenching machine, the Contractor shall insure that the pipe is properly aligned in the shaped cradle before placing the enclosing filter aggregate. Filter aggregate shall be free-flowing.

The minimum grade of the tile shall not be less than 0.20%. Grade control shall be the responsibility of the Contractor. Whenever pipe grades do not follow surface grades, it shall be the contractor's responsibility to set and maintain the minimum 0.20% grade.

The filter aggregate backfill may be placed simultaneously with the pipe or in a separate operation which shall immediately follow the trench activity. If the Contractor's operations lead to significant sloughing or caving from either side of the trench, the Engineer may direct that a shield be used and that the filter aggregate be placed within the shield.

If the Contractor chooses to windrow filter aggregate on any in-place roadway, contamination with excavated trench material shall not be permitted.

The filter aggregate shall be a free draining mineral product, excluding crushed carbonate quarry rock, crushed concrete, or salvaged bituminous mixture, and meeting the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
1"	100
No. 200	0 - 10

CONSTRUCTION NOTES

The Contractor shall construct lateral tile line with blind outlets into the road ditches. These outlet trenches may be excavated to maximum width of 12 inches. The Contractor shall furnish and install 1 ½ inch rock for constructing the blind outlets as shown on the Typical Outlet Details of the Plan.

Filter aggregate shall be compacted with a vibratory plate compactor to the satisfaction of the Engineer and with the equipment meeting the following specifications:

The width of the plate shall be less than the width of the trench, but not more than two (2) inches less than the width of the trench.

The length of the plate shall be 20 inches + or - two (2) inches.

The compactor shall vibrate at a minimum 2,000 cycles per minute.

When the total depth of aggregate to be compacted (measured to the bottom of the pipe) is 16 inches or less, the compactor shall deliver a minimum impact force of 4,000 lbs*. When the aggregate to be compacted is greater than 16 inches and less or equal to 28 inches, the compactor must deliver a minimum impact force of 6,000 lbs*. (*Based on manufacturer's published specifications.)

If the depth of the filter aggregate is 28 inches or more, it shall be compacted in two (2) approximately equal lifts with a compactor meeting the appropriate specifications for the lift thickness.

If the compactor is not attached to the trenching machine, it shall travel at a rate not greater than the equivalent speed of the trenching operation. The entire energy/weight of the compactor shall be transmitted via the plate to the trench. The plate shall extend below the bottom of the compactor a sufficient distance so that even after compaction, no portion of the energy will be dissipated in material adjacent to the trench.

All excess material from the tiling operations shall be disposed of on the inslope, ditch bottoms and/or the backslope by the contractor within the project limits to be approved by the engineer.

CLASS 5 AGGREGATE:

This item was calculated using 1000 Tons per mile. All field approaches and private drives should receive 12 Tons per app. Section Line approaches should receive 24 Tons per app.

CONSTRUCTION NOTES

WEED CONTROL:

Successful bidders as part of their supply contract will be required as part of the bid acceptance to comply with the following:

1. All noxious weeds must be controlled within the pit and extraction area each year in compliance with North Dakota State Agriculture Department recommendations for noxious weed control.
2. The county weed officer shall inspect the pit and extraction area before any materials shall be removed and shall by written letter certify operator's compliance with the North Dakota Department of Agriculture's recommendations for noxious weed control.
3. Any questions concerning the certifications of compliance for noxious weed control and the requirements thereunder are available from the County Weed Officer at (701) 298-2388.

This request is made pursuant to section 4.1-47 of the North Dakota Century Code.

REFERENCES:

As part of this contract, the Contractor furnishing this bid will be required to supply Cass County with a list of 3 references of previous work as defined in this proposal. If Contractor cannot supply Cass County with this list, their bid will not be accepted. Please list references below.

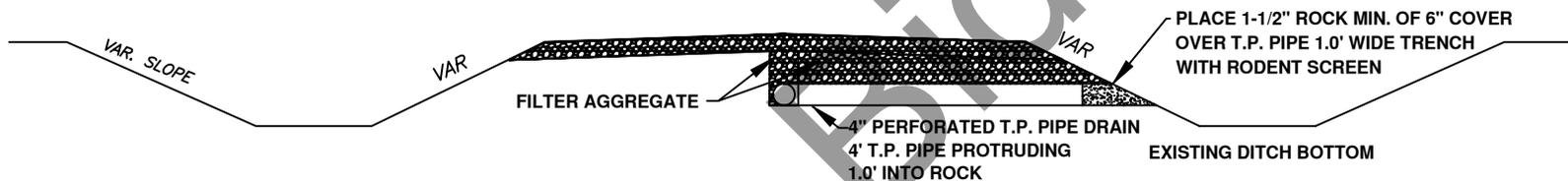
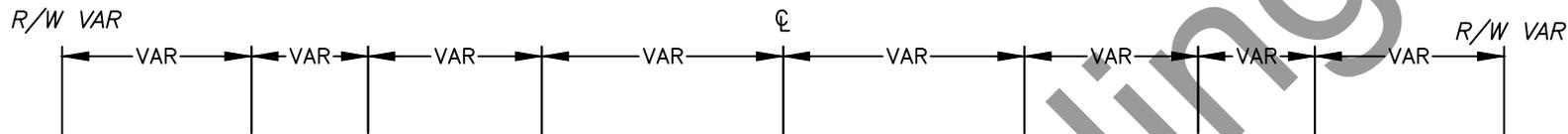
Agency/Owner	Location	Phone
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Agency/Owner	Location	Phone
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Agency/Owner	Location	Phone
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PROJECT NO. CH1407
BASIS OF ESTIMATE & SUMMARY OF QUANTITIES
DRAIN TILE INSTALLATION

HWY	LOCATION	HWY LENGTH (MI.)	HWY WIDTH (FT.)	GRAVEL DEPTH (IN.)	ESTMATED TILE LENGTH (LF)	CLASS 5 (TON)
32	STATE HWY 18 TO COUNTY HWY 11	8.0	24	2	43,824	8,696
				TOTALS =	43,824	8,696
C36 OPTION						
36	COUNTY HWY 16 TO 2.75 MILES SOUTH	2.75	24	2	15,065	2,990
				TOTALS =	15,065	2,990
				GRAND TOTAL =	58,889	11,686



PERFORATED PIPE DRAIN INSTALLATION TRENCH TO BE:
 WIDTH = 7" MIN. TO 10" MAX.
 DEPTH = 3.0' OPTIMUM, 2.0' MIN. TO 4.0' MAX.
 THE ENTIRE CENTERLINE TRENCH & DISCHARGE TRENCH TO BE
 BACKFILLED WITH FILTER AGGREGATE
 PLACE 4" CORRUGATED PERFORATED PE PIPE DRAIN
 WITH GEOTEXTILE FILTER WRAP.

TYPICAL TILE SECTION

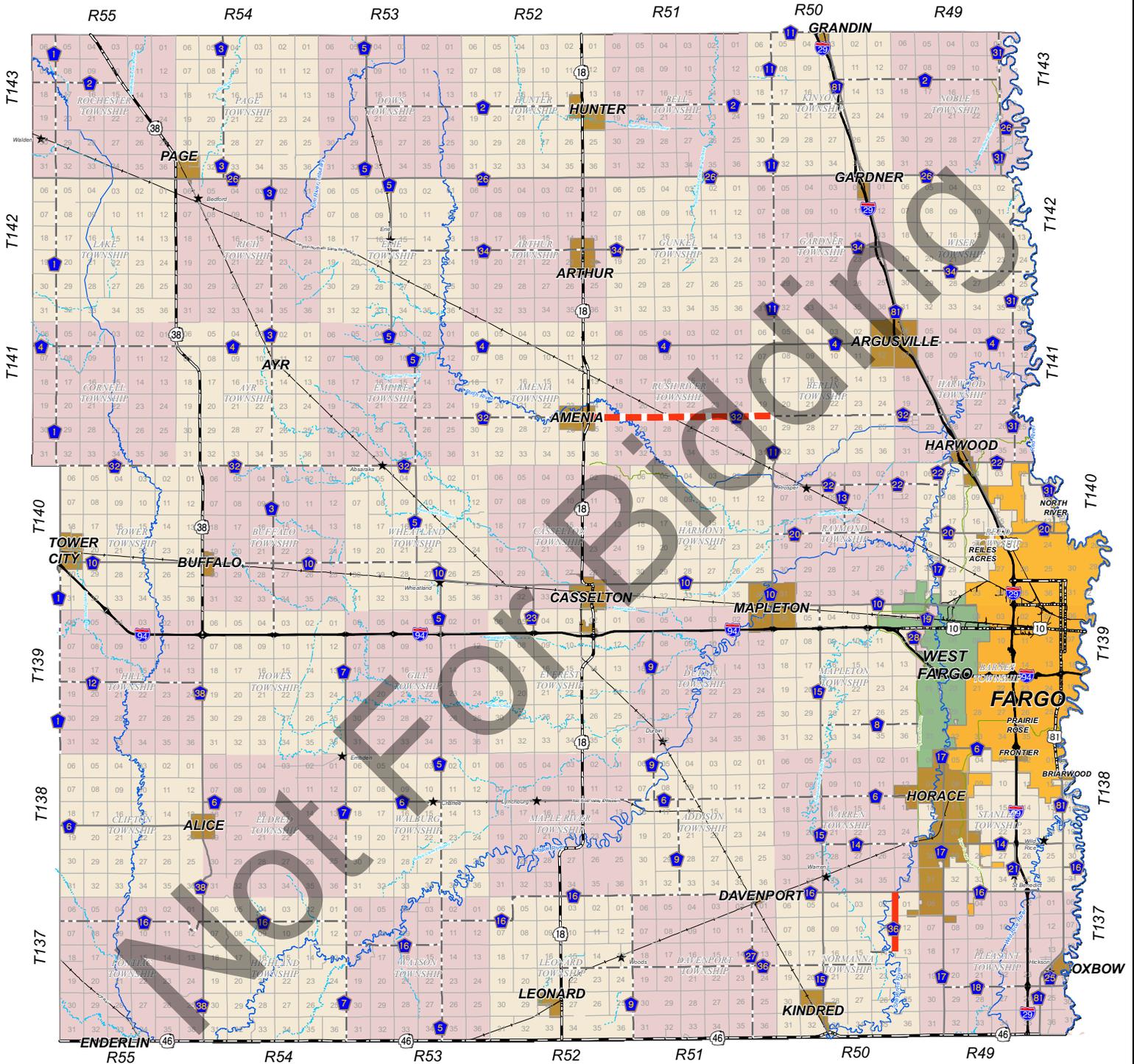
NOT TO SCALE

CASS COUNTY HIGHWAY DEPARTMENT
 PROJECT NO. CH1407
 TYPICAL TILE SECTION

Not For Bidding

Cass County Highway Department

Project No. CH1407 - Drain Tile Installation



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



Projects

- Project Location
- C36 Option

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.

PROPOSAL

Note: The envelope containing this proposal should be marked:

“BID FOR DRAIN TILE INSTALLATION”, in Cass County

Proposal of: _____

Mailing 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 project being known as Cass County Project No. CH1407. Said project being situated as follows: Beginning at Cass County Road 32 from State Highway 18 to Cass County Highway 11 with the option of Cass County Highway 36 from Highway 16 2.75 miles south, as indicated on the plans. Project being approximately 8.0 miles in length with an option of 2.75 miles, as indicated on the plans.

Not For Bidding

PROPOSAL

PROJECT NO: CH1407

TYPE: DRAIN TILE INSTALLATION

LENGTH: 8.0 MILES WITH C-36 OPTION 2.75 MILES

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 CH1407

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.	Description	Unit & Approx. Quant.	Unit Price		Amount	
				\$\$	00	\$\$	00
001	302	AGGREGATE SURFACE COURSE CLASS 5	TON 8,696				
002	714	PVC 4IN DRAIN TILE	LF 43,824				

TOTAL: \$ _____

C-36 OPTION

001	302	AGGREGATE SURFACE COURSE CLASS 5	TON 2,990				
002	714	PVC 4IN DRAIN TILE	LF 15,065				

C-36 OPTION TOTAL: \$ _____

GRAND TOTAL: \$ _____

RECEIPT OF ADDENDUMS

NO. 1 _____

NO. 2 _____ NO. 3 _____

PROPOSAL

COUNTY PROJECT NUMBER: CH1407

TYPE: DRAIN TILE INSTALLATION

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: August 15, 2014 provided however, that a minimum of N/A working days, counted as provided in Standard Specification No. 108.04, are guaranteed for the performance of the work. Working days will be counted from N/A or from the actual date on which onsite work is started, whichever is earlier.

Not For Bidding

PROPOSAL

COUNTY PROJECT NUMBER: CH1407

TYPE: DRAIN TILE INSTALLATION

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 NDCC 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 _____
_____, a
Mailing Address

___ 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.

_____,
Bidder must sign on this line

Title _____

Type or Print Signature

Subscribed and sworn to
before me this day

_____ County, _____
State

Notary Public

My commission expires _____