



W8590 Willis Ray Road, Whitewater, WI 53190
Phone: 262.473.4639 | Fax: 262.473.5551
www.townofwhitewater.org

FINAL TOWN OF WHITEWATER 2019 ROAD REHABILITATION

PART 1 – GENERAL

BIDDING PROCEDURES

Bids must be submitted by **8:00am on Thursday, May 30, 2019** or they will not be accepted. **Return sealed bids marked “Road Bids” to: Town of Whitewater, W8590 Willis Ray Rd., Whitewater, WI 53190.**

At the time of filing a Proposal or Bid, there must be filed either the required Bid Bond or Certified Check in the amount of at least 5% of the bid, conditioned that if the Bidder is successful, he will, within 10 days of written notification of bid acceptance, file the properly executed Contract, Performance and Payment Bonds.

The successful Bidder will be required to furnish satisfactory Performance and Payment Bonds for the full amount of the Contract Price for each of the above Bonds. If the Bidder fails to do so within the specified time as required by the Owner, the amount of the Certified Check or Bid Bond will be forfeited to the Owner as liquidated damages.

Winning bidders must provide current certificates of liability and workers compensation insurance as well as MSDS sheets for all materials used prior to beginning work. **INSURANCE:** The contractor shall furnish and deliver to the Owner a Certificate of Insurance for Worker’s Compensation and an Umbrella Certificate of Liability and Property Insurance in the minimum of Two Million Dollars before beginning work, and shall notify the owner immediately of any cancellation or change in insurance coverage.

Project awards will be for any combination of road projects as the Township sees fit. The Town of Whitewater reserves the right to reject any and all bids, waive any formalities in bidding, or to accept the bid which is in the best interest of the Town of Whitewater.

Bids will be opened and acted on at an 8:00am special Town Board Meeting on Thursday, May 30, 2019 at the Whitewater Town Hall. Weight slips are required for all road materials used. All bids and materials must be according to State of Wisconsin road standards.

CONTRACT TIME

All work under this contract must be completed by October 1st, 2019.

LIQUIDATED DAMAGES

The Owner and Contractor recognize that as liquidated damages for delay (but not as penalty), Contractor will pay Owner the amount of \$500.00 per calendar day that expires after the time specified in this document as Contract Time. They also recognize the delays, expense and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and Contractor agree that Liquidated Damages as a penalty for delay, Contractor shall pay the Owner \$500.00 for each day that expires after the time specified in this document as Contract Time, plus additional engineering and inspection costs.

RELATED DOCUMENTS

Drawings, if any, and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications Sections, apply to work of this section.



REFERENCES

State of Wisconsin Department Transportation Standard Specifications for Highway & Structure Construction 2003 Edition, hereinafter called “WI Standard Specifications.”

SUBMITTALS

Job-Mix Designs: For each job mix proposed for the Work.

Material Certificates: Provide copies of materials certificates signed by material producer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

REPAIRS, PROTECTION AND CLEARING

Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot asphaltic concrete. Compact by rolling to specific density and surface smoothness.

At the completion of work, remove any rubbish, debris, equipment and excess materials generated by the paving contractor from the site. Clean adjoining surfaces which were soiled by and during the course of this work.

WARRANTY

Finished work shall be free from bumps or depressions, evenly graded to levels required and shall be warranted against general defects of materials and workmanship for a period of one year from date of substantial completion.

Warranty: Furnish written warranty as specified herein.

PART 2 – SPECIFICATIONS ASPHALTIC CONCRETE PAVEMENT

2.1 ASPHALTIC CONCRETE PAVEMENT

The unit bid and contract price for this item shall include furnishing all material, equipment, labor, sweeping, and construction bituminous concrete roadways and/or driveways to the thickness and locations shown on the plans or directed.

Asphalt sawing will be considered incidental to the Asphaltic Concrete pay item. Asphalt pavement in the Base Bid Proposal shall consist of asphalt per Section 460.3.1 of the State Specifications.

Materials and construction shall conform to the requirements of the latest edition of the Wisconsin Department of Transportation (WDOT) specifications, sections 450, 455 and 460. Additionally, materials and construction shall also conform to the requirements the current WDOT ASP 6, 460.2.1, **which includes the regression of air voids from 4.0% to 3.0% with asphalt cement.**

Omitted from the requirements will be Ride quality requirements and testing (section 440), QMP mixture sampling and testing (section 460.2.8), nuclear density testing (section 460.3.3), PG binder and tack coat sampling and testing (section 455.2.2 and 455.2.3), cold weather paving (section 450.3.2.1) and safety edge (section 450.3.2.11).

Payment will be made at the contract unit price per ton Asphaltic Concrete Pavement ordered and installed including asphalt driveways.



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Installation to meet the following compaction requirements:

- (1) Compact all layers of HMA mixture to the density table 460-3 shows for the applicable mixture, location, and layer.

TABLE 460-3 MINIMUM REQUIRED DENSITY^[1]

LOCATION	LAYER	PERCENT OF TARGET MAXIMUM DENSITY		
		MIXTURE TYPE		
		LT and MT	HT	SMA ^[5]
TRAFFIC LANES ^[2]	LOWER	93.0 ^[3]	93.0 ^[4]	—
	UPPER	93.0	93.0	—
SIDE ROADS, CROSSOVERS, TURN LANES, & RAMPS	LOWER	93.0 ^[3]	93.0 ^[4]	—
	UPPER	93.0	93.0	—
SHOULDERS & APPURTENANCES	LOWER	91.0	91.0	—
	UPPER	92.0	92.0	—

^[1] The table values are for average lot density. If any individual density test result falls more than 3.0 percent below the minimum required target maximum density, the engineer may investigate the acceptability of that material.

^[2] Includes parking lanes as determined by the engineer.

^[3] Minimum reduced by 2.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

^[4] Minimum reduced by 1.0 percent for a lower layer constructed directly on crushed aggregate or recycled base courses.

^[5] The minimum required densities for SMA mixtures are determined according to CMM 8-15.

Asphaltic Concrete Pavement to conform to the following specifications:

Mix type and gradation shall comply as follows:

Clover Valley Rd – Pulv Section – West End

- 2.25" 3LT 58-28S
- 1.75" 4LT 58-28S

Clover Valley Rd – Overlay Section – East End

- 2" 4LT 58-28S

Engel Rd

- Wedge Paving - 1" 4LT 58-28S
- Overlay - 2" 4LT 58-28S

Wedging to be done in select areas prior to whole road overlay. Layout to be done by Town of Whitewater.

CTH N

- 2" 4LT 58-28S

Townline Rd

- Wedge Paving - 1" 4LT 58-28S
- Overlay - 2" 4LT 58-28S

Wedging to be done in select areas prior to whole road overlay. Layout to be done by Town of Whitewater.

Weather Limitations: Construct asphaltic concrete pavement upper layer when atmospheric temperature is above 40 deg. F (4deg.C) and when base is dry.



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If work cannot be completed because of weather, place lower layer and delay placing upper layer until weather permits. Bring lower layer to correct grade, clean, and apply tack coat before installing upper layer. Apply tack coat to dry surfaces only.

Contractor shall submit LT-mix design prior to any placement of material.

Road must remain open to local traffic during road work. Flaggers to be utilized on CTH N.

Measurement and payment for this item will be made per ton of Asphaltic Concrete Pavement, placed, and compacted at the project work area and based upon weight receipts from a certified scale of the materials supplier. The contractor shall provide copies of the Asphaltic Concrete Pavement material weight receipts to the engineer or owner at the close of each working day.

2.2 Bituminous Tack Coat

The unit bid and contract price for this item shall include furnishing all material, equipment, labor and applying tack at a rate of 0.05 gallons per square yard to the pavement as designated on the plans or as directed.

Measurements and payment for this item will be made per gallon of tack coat applied. The Contractor shall provide copies of tickets indicating gallons of bituminous tack coat used on site.

Tack is incidental to the HMA pavement items.

2.3 Removing Asphaltic Butt Joints

Remove existing asphalt surface to allow for proper thickness of asphalt overlay. Includes asphalt driveways and project limits. Price includes milling, sweeping, and removal of millings to the match points laid out by the Town of Whitewater. Butt Joints to be paid per contract unit price.

2.4 Pulverizing & Relay

The unit bid is for full depth in-place pulverizing of the existing asphaltic pavement along with a portion of the underlying base and relaying the pulverized material to construct a new base. All work to be completed per WisDOT section 325. All sawcutting needed, proof rolling, and driveway removal to match point laid out by the Town of Whitewater is incidental to the pulverizing and relay item. Conduct proof roll by test rolling pulverized asphalt base with a quad axle truck loaded within 3 tons of the vehicles legal load limit.

Payment will be made at the contract unit price per SY acceptably completed.

PART 3 – SPECIFICATIONS BITUMINOUS SEAL COATING WITH FA2 WASHED GRANITE COVER

3.1 BITUMINOUS SEAL COATING WITH FA2 WASHED GRANITE COVER AGGREGATE

This work shall consist of furnishing all materials, equipment, and labor necessary for the application of Bituminous Seal Coating as directed.

The work shall consist of bituminous seal coating with stone cover aggregate. The work shall be done in accordance with Section 475, State of Wisconsin Department of Transportation “2017 Standard Specifications for Highway and Structure Construction” with the special provisions for aggregate below.

Materials furnished and used in the work shall conform to the requirements of Section 475. Aggregate must be a washed crushed granite classified as a Class A aggregate. Color to be medium gray. Limestone, quarry stone and pea stone are not permitted.



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A. Asphaltic Material Seal Coat.

Apply the asphaltic material at the following:

Rate of application: 0.30 +/- .03 gallons/SY

Supplement 455.2.4.3 (1) of the standard specifications with the following:
 Furnish material conforming, before dilution, to the following:

Cationic emulsified asphalts..... AASHTO M 208

B. Cover Aggregate: The cover aggregate shall meet the requirements of the sieve specifications, and conform to the following sieve size.

Sieve Size	Percent Passing
½ inch	100 %
3/8 inch	100 %
¼ inch	100 %
No. 4	0- 100 %
No. 8	0 – 45 %
No. 16	0 – 15 %
No. 50	0 – 7 %
No. 100	0 – 4 %
No. 200	0 – 2 %

The aggregate shall be applied at the rate of 20 +/- 3 pounds per square yard. The Contractor shall take all precautions to minimize contamination of the aggregate.

The contractor shall have available and maintain in good working order the equipment and tools necessary to perform the work. The requirements for the equipment for heating the asphaltic material and for the distributors shall be as set forth in subsection 475.3.4. The equipment to be used shall include dragging equipment and aggregate spreading equipment that can be adjusted to spread accurately the quantities specified per square yard, and a minimum of two self-propelled, pneumatic-tire rollers meeting the requirements of Subsection 475.3.5.

3.2 CONSTRUCTION METHODS

- A. Surface Preparations:** Immediately prior to applying the asphaltic materials, the Contractor shall thoroughly clean the existing surface of all loose material, silt spots, vegetation, and other objectionable material. Dust and other loose material in depressions or other places not reached by mechanical sweepers shall be swept with hand brooms or by blowers or flushers. Particular care shall be taken to thoroughly clean the outer edges of the area to be sealed. All costs associated with preparing existing surfaces as described above shall be included in the bid price for Construct Chip Seal Surface.
- B. Applying Asphaltic Materials:** A pressure distributor shall be used for applying the asphalt material. It shall have a ground speed control device interconnected with the asphalt emulsion pump such that specified application rate will be supplied at any speed. The pressure distributor shall be capable of maintaining the asphalt emulsion at the specified temperature. The spray bar nozzles shall produce a uniform fan spray, and the shutoff shall be instantaneous, with no dripping. Each pressure distributor shall be capable of maintaining the specified application rate. Means shall be provided for accurately indicating the temperature of the asphalt material at all times. The thermometer well shall not be in contact with a heating tube. Application will be with full width equipment capable of applying 24' without a center seam. A hose and spray nozzle attachment shall be provided for applying asphalt material to patches and areas inaccessible to the spray bar. The distributor shall be provided with heaters that can be used to bring the asphalt material to spray application temperature.



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- C. Applying Sealcoat Aggregate: After application of the asphaltic material and when the desired stage of tackiness is attained, aggregate for seal coat cover shall be spread uniformly over the treated surface by approved self-propelled mechanical full width spreader capable of applying aggregate 24' without a seam.
- D. Rolling of Aggregate: Roll surface immediately after spreading the aggregate. Rolling shall start at the edges and continue to the center, lapping one-half the roller width on each successive trip. Rolling shall be accomplished with two pneumatic-tire rollers. The speed and reversing of direction of rollers shall be regulated as to avoid displacement or loosening of the cover material or damage to the asphaltic material. Rolling shall be continued until the aggregate for the seal coat cover is thoroughly embedded and the surface is smooth and uniform in texture.
- E. Separate line item for each project: Sweep excess aggregate 5 to 7 days after application weather permitting. Customer to provide trucks to haul aggregate from sweepers and place to dispose of sweepings.

The contractor shall proceed in such manner as to interfere with traffic as little as possible. **Roads must remain open to local traffic during road work.** The Contractor shall provide flagmen to direct traffic on streets where travel will be restricted.

Base Bid

All measurements indicated are approximate. Please re-measure to ensure accurate bids.

Engel Road – Black Boiler Slag Seal OR FA2 Fractured Granite					
Section #1 – Engel Road - from N7750 and going south to N7502 Engel					
Item #	Description	Units	Quantity	Unit Price	Total
1	Thoroughly clean the existing surface with a self-propelled broom. Apply 170 degree emulsified asphalt by full-width spray distributor. Apply sealcoat over aggregate. Spread uniformly over surface with full-width self-propelled chip spreader. Roll cover aggregate with pneumatic-tired roller.				
2	Sweep excess aggregate	LS	1		
3	Traffic Control	LS	1		
Subtotal Section 1 - Items 1 through 3 inclusive...					

Anderson Road – Black Boiler Slag Seal OR FA2 Fractured Granite					
Section #2 - Anderson Rd – from the Hwy 89 intersection and going east to the intersection where Clover Valley Road turns north					
Item #	Description	Units	Quantity	Unit Price	Total
1	Thoroughly clean the existing surface with a self-propelled broom. Apply 170 degree emulsified asphalt by full-width spray distributor. Apply sealcoat over aggregate. Spread uniformly over surface with full-width self-propelled chip spreader. Roll cover aggregate with pneumatic-tired roller.				
2	Sweep excess aggregate	LS	1		
3	Traffic Control	LS	1		
Subtotal Section 2 - Items 1 through 3 inclusive...					



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Kettle Moraine Drive – Black Boiler Slag Seal OR FA2 Fractured Granite					
Section #3 – Kettle Moraine Drive – from N7817 and going south to Bay View Drive intersection					
Item #	Description	Units	Quantity	Unit Price	Total
1	Thoroughly clean the existing surface with a self-propelled broom. Apply 170 degree emulsified asphalt by full-width spray distributor. Apply sealcoat over aggregate. Spread uniformly over surface with full-width self-propelled chip spreader. Roll cover aggregate with pneumatic-tired roller.				
2	Sweep excess aggregate	LS	1		
3	Traffic Control	LS	1		
Subtotal Section 3 - Items 1 through 3 inclusive...					

Lorwood Drive – Black Boiler Slag Seal OR FA2 Fractured Granite					
Section #4 – Lorwood Drive – from the R&W Townline Road intersection and going south to existing slag seal near N7310 Lorwood					
Item #	Description	Units	Quantity	Unit Price	Total
1	Thoroughly clean the existing surface with a self-propelled broom. Apply 170 degree emulsified asphalt by full-width spray distributor. Apply sealcoat over aggregate. Spread uniformly over surface with full-width self-propelled chip spreader. Roll cover aggregate with pneumatic-tired roller.				
2	Sweep excess aggregate	LS	1		
3	Traffic Control	LS	1		
Subtotal Section 4 - Items 1 through 3 inclusive...					

McCabe Road – Black Boiler Slag Seal OR FA2 Fractured Granite					
Section #5 – McCabe Road – from the Kettle Moraine intersection and going south to Peterson Road					
Item #	Description	Units	Quantity	Unit Price	Total
1	Thoroughly clean the existing surface with a self-propelled broom. Apply 170 degree emulsified asphalt by full-width spray distributor. Apply sealcoat over aggregate. Spread uniformly over surface with full-width self-propelled chip spreader. Roll cover aggregate with pneumatic-tired roller.				
2	Sweep excess aggregate	LS	1		
3	Traffic Control	LS	1		
Subtotal Section 5 - Items 1 through 3 inclusive...					



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Richmond/Whitewater Townline Rd - Wedge/Overlay					
Section #6 - R/W Townline Rd - from the Hwy 89 intersection and going west to W9188 R&W Townline Road					
Item #	Description	Units	Quantity	Unit Price	Total
1	Removing Asphaltic Butt Joints at Driveways and Project Limits (including along curb line)	SY	230		
2	Asphaltic concrete pavement (wedge layer) 1" thickness surface course, furnished and placed as specified, at a unit price of	TON	55		
3	Asphaltic concrete pavement (upper layer) 2" thickness surface course, furnished and placed as specified, at a unit price of	TON	310		
4	Traffic Control	LS	1		
Subtotal Section 6 - Items 1 through 4 inclusive...					

Clover Valley Rd - Pulv/Pave & Overlay					
Section #7 - Clover Valley Rd – from W8235 Clover Valley Road to Kettle Moraine Drive					
Item #	Description	Units	Quantity	Unit Price	Total
1	Removing Asphaltic Butt Joints at Driveways and Project Limits	SY	45		
2	Full thickness pulverizing and preparation of foundation sub-grade regrading of Clover Valley Road performed at a unit price of	SY	2100		
3	WisDOT 1 1/4" base course to raise grade in corner	TON	380		
4	Asphaltic concrete pavement (lower layer) 2.25" thickness binder course, furnished and placed as specified, at a unit price of	TON	275		
5	Asphaltic concrete pavement (upper layer) variable thickness surface course, furnished and placed as specified, at a unit price of	TON	625		
6	Traffic Control	LS	1		
Subtotal Section 7 - Items 1 through 6 inclusive...					



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CTH N - Mill & Overlay					
Section #8 - CTH N – starting west of Hwy 12 intersection where concrete ends and asphalt begins; project is the start of the asphalt area going west to the Rock/Walworth County line, which is in the center of Warner Road					
Item #	Description	Units	Quantity	Unit Price	Total
1	Mill of existing pavement various depth (including project and driveway butt joints)	SY	7230		
2	Asphaltic concrete pavement (upper layer) 2" thickness surface course, furnished and placed as specified, at a unit price of	TON	810		
3	Traffic Control	LS	1		
Subtotal Section 8 - Items 1 through 3 inclusive...					

Engel Rd - Overlay					
Section #9 - Engel Rd – from Clover Valley Road south to N7750 Engel					
Item #	Description	Units	Quantity	Unit Price	Total
1	Removing Asphaltic Butt Joints at Driveways and Project Limits	SY	55		
2	Asphaltic concrete pavement (wedge layer) 1" thickness surface course, furnished and placed as specified, at a unit price of	TON	20		
3	Asphaltic concrete pavement (upper layer) 2" thickness surface course, furnished and placed as specified, at a unit price of	TON	1150		
4	Traffic Control	LS	1		
Subtotal Section 9 - Items 1 through 4 inclusive...					

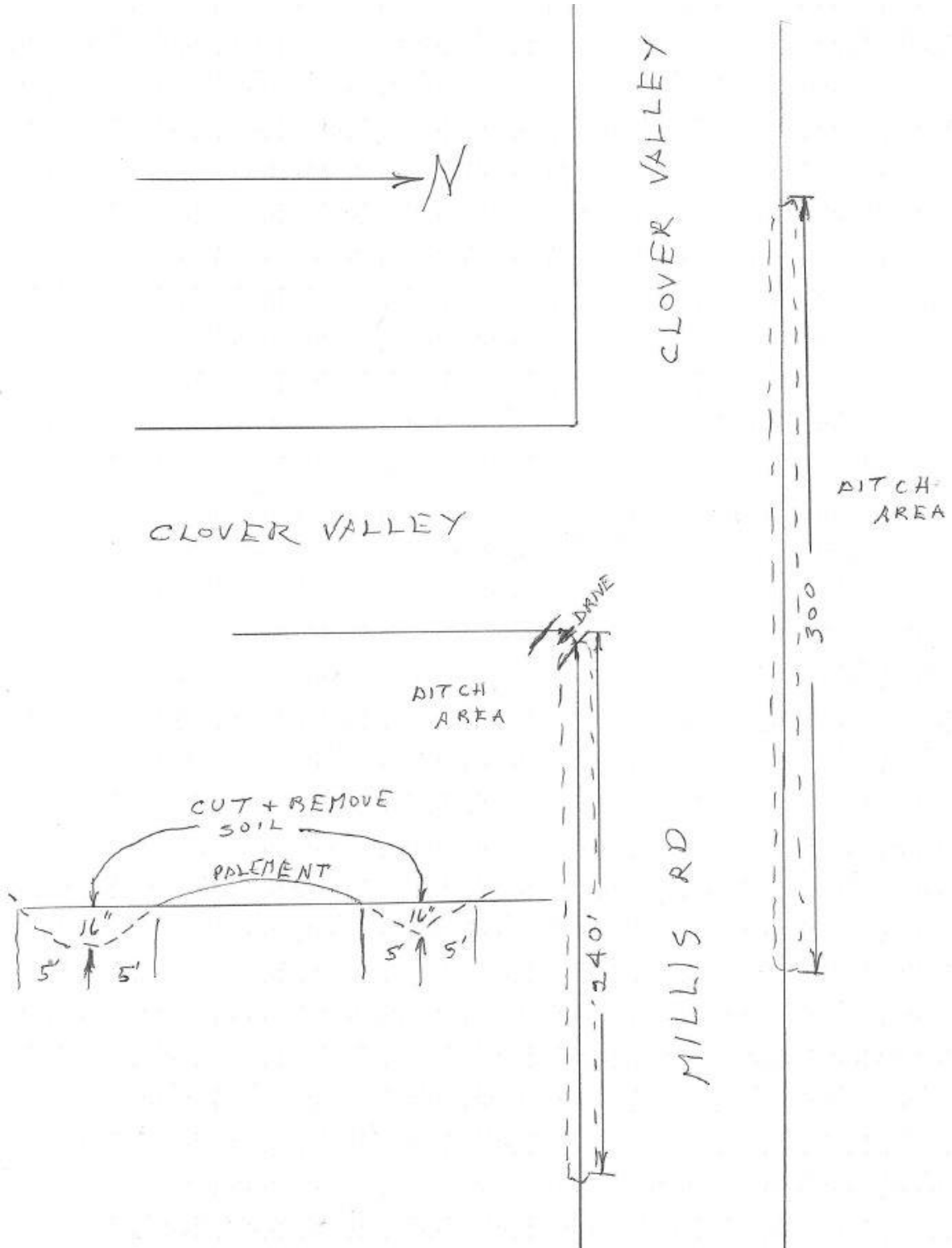
Clover Valley & Millis Roads - Ditching					
Section #10 – See map on page 10 for specifications and two ditching locations at the corner of Clover Valley Road and Millis Roads – 1) southeast corner and 2) north edge of the road					
Item #	Description	Units	Quantity	Unit Price	Total
1	Ditching and removing of excess soil for two ditching areas				
2	Traffic Control	LS	1		
Subtotal Section 10 - Items 1 through 2 inclusive...					

Base Bid Total Sections 1 thru 10	
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Project #10 Ditching map





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PROPOSAL, submitted by _____ BIDDER

of _____
(Name of Sole Owner, Co-Partnership or Corporation)

By _____ DATE _____
BIDDER MUST SIGN ON THIS LINE

ADDRESS _____

PHONE _____

E-MAIL _____