

NAME OF CONTRACTOR _____

PROPOSAL AND SPECIFICATIONS
FOR
HIGHWAY CONSTRUCTION

COUNTY LOCAL ROAD SYSTEM

PROJECT NOS. 4539 & 4540 – 1.0 miles of roadway reconstruction including grade establishment, sand subbase, aggregate base, HMA pavement, culvert replacements, hydrant relocations, and restoration on 134th Avenue from 63rd Street west 2200' and on Gleason Road from 134th Avenue to Old Allegan Road in Saugatuck Township, Allegan County.

SAUGATUCK TOWNSHIP

June 2, 2010

BOARD OF COUNTY ROAD COMMISSIONERS
OF ALLEGAN COUNTY, MICHIGAN

1308 Lincoln Road, Allegan, MI 49010

ALLEGAN COUNTY ROAD COMMISSION
ADVERTISEMENT FOR BIDS
COUNTY LOCAL ROAD CONSTRUCTION

Sealed bids will be received by the Allegan County Road Commission at their office at 1308 Lincoln Road (M-89), Allegan, Michigan until 11:00 A.M., Local Time, June 2, 2010, and, at such time, be publicly opened and read aloud for the following:

PROJECT NO. 4539 & 4540 – 1.0 miles of roadway reconstruction including grade establishment, sand subbase, aggregate base, HMA pavement, culvert replacements, hydrant relocation, and restoration on 134th Avenue from 63rd Street west 2200' and on Gleason Road from 134th Avenue to Old Allegan Road in Saugatuck Township, Allegan County.

Complete specifications and bid forms are available at the Road Commission office.

All bids must be submitted on forms furnished by the Road Commission and sealed in envelopes with the name and address of the bidder, and the item bid upon clearly marked thereon.

A bid deposit of at least 5% of the bid amount will be required for this item. The bid deposit may be in the form of certified check, cashier's check or bid bond.

The Commission reserves the right to reject any or all bids, to waive minor technicalities, and to accept the bid that is deemed to be in the best interest of the County of Allegan.

BOARD OF COUNTY ROAD COMMISSIONERS
OF ALLEGAN COUNTY, MICHIGAN

Bruce D. Culver, Chairman
Robert Kaarlie, Vice-Chairman
John Kleinheksel, Member

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BID and AWARD

Date _____

Board of County Road Commissioners
Of Allegan County
1308 Lincoln Road
Allegan, MI 49010

Gentlemen:

The undersigned has examined the plans, specifications, and location of the work described herein and is fully informed as to the nature of the work and the conditions relating to its performance and understands that the quantities shown in the estimate are approximate only and are subject to either increase or decrease; and hereby proposed to furnish all necessary machinery, tools, apparatus and other means of doing the work, do all the work, furnish all the materials except as otherwise specified herein, and, for the unit prices named in the accompanying unit price schedule, to complete work in strict accordance with the plans and specifications therefore.

The undersigned further proposes to such extra work as may be ordered by you, prices for that are not included in the itemized bid, compensation therefore to be made on the basis agreed upon before such extra work is begun.

The undersigned agrees to complete all items of work on or before October 29, 2010. All seeding shall be completed by October 10, 2010. The schedule for liquidated damages is located in the general specifications.

The contractor shall submit a progress schedule subject to approval of the project engineer prior to the award of the contract.

The undersigned encloses a certified check, cashier's check, or Bid Bond, representing 5% of the bid, in the amount of \$_____, payable to the Allegan County Road Commission as a guarantee of good faith. If the contract is awarded to the undersigned, and the undersigned fails to furnish satisfactory bonds to the Road Commission within fifteen (15) days after being given notice of award said check will be forfeited to the Allegan County Road Commission as liquidated damage.

THE CONTRACT

The Contract Documents consist of the bid documents, this Agreement, Conditions of the Contract (General Supplementary, Special and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement; these form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiation, representations or agreements, either written or oral. If anything in the other Contract Documents is inconsistent with this Agreement, this Agreement will govern.

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ALLEGAN COUNTY ROAD COMMISSION
ALLEGAN, MICHIGAN
ITEMIZED UNIT PRICE BID SCHEDULE

ITEM OF WORK	QUANTITY	UNIT PRICE	TOTAL
Clearing	1 LS		
Station Grading	1 LS		
Subbase, CIP	8,100 Cyd		
Topsoil Surface	2,100 Cyd		
Geotextile Fabric	1,000 Syd		
6A Stone	20 Ton		
Subgrade Undercutting, Type II	2,000 Cyd		
Culv, CI F, 12 inch	500 Ft		
Culv, CI E, Conc, 18 inch	272 Ft		
Culv, CI E, Conc, 30 inch	48 Ft		
Culv End Sect, Conc, 18 inch	10 Ea		
Culv End Sect, Conc, 30 inch	2 Ea		
Underdrain, Subgrade, 6 inch	2,100 Ft		
Underdrain Outlet, 6 inch	100 Ft		
Underdrain Outlet Ending, 6 inch	10 Ea		
Approach, CI II	500 Ton		
Approach, 21AA	50 Ton		
Aggregate Base, 6 inch	20,500 Syd		
HMA, 13A	2,950 Ton		
Shoulder, CI II	750 Ton		
Hydrant, Relocate, Case 2	3 Ea		
Restoration	1 LS		
Extended Restoration	1 LS		
Cereal Rye Seed	224 Lb		

ITEMIZED UNIT PRICE BID SCHEDULE (CONT.):

ITEM OF WORK	QUANTITY	UNIT PRICE	TOTAL
Sign, Type B, Temp, Modified	114 Sft		
Plastic Drum, High Intensity, Lighted Modified	30 Ea		
Barricade Type III, High Intensity, Dbl Sided, Ltd, Modified	4 Ea		
Pavt Mrkg, Waterborne, 4 inch, White	10,600 Ft		
Pavt Mrkg, Waterborne, 4 inch, Yellow	7,800 Ft		
Pavt Mrkg, Type NR, 4 inch, Yellow, Temp	400 Ft		
Riprap, Plain	150 Syd		
Mulch Blanket	1,000 Syd		
Mulch Blanket, High Velocity	1,500 Syd		
Erosion Control, Check Dam	100 Ft		
Erosion Control, Silt Fence	300 Ft		
Project Cleanup	1 LS		

TOTAL OF BID \$ _____

The undersigned bidder agrees that the following is a complete and accurate list of all sub-contractors to be utilized is awarded this contract and any change from this list will be permitted only with the consent of the Board of County Road Commissioners of Allegan County. **LIST NAME OF EACH SUB-CONTRACTOR AND BRIEF DESCRIPTION OF WORK TO BE DONE.**

I hereby state that all of the information I have provided is true, accurate and complete. I hereby state that I have the authority to submit this bid, which will become a binding contract if accepted by the Board of County Road Commissioners of Allegan County. I hereby state that I have not communicated with nor otherwise colluded with any other bidder, nor have I made any agreement with nor offered or accepted anything of value from an official or employee of the Board of County Road Commissioners of Allegan County that would tend to destroy or hinder free competition.

In case the bidder is a co-partnership, each member must sign this proposal.

In case the bidder is a Corporation, this proposal must be executed by its duly authorized officials in accordance with its articles of incorporation and a certified copy of such articles must be attached hereto.

I hereby state that I have read, understand and agree to be bound by all the terms of this bid document.

SIGNATURE: _____ NAME: _____
(Type or Print)

TITLE: _____ DATE: _____

FIRM NAME: _____ PHONE: _____

ADDRESS: _____
(Street Address) (City) (State) (Zip)

FOR COUNTY USE ONLY – DO NOT WRITE BELOW

ACCEPTED BY: BOARD OF COUNTY ROAD COMMISSIONERS
OF THE COUNTY OF ALLEGAN, MICHIGAN

Chairman

Vice-Chairman

Member

Date

STANDARD SPECIFICATIONS

The Standard Specifications for Construction of the Michigan Department of Transportation, 2003 Edition shall apply. Nothing herein will be construed to create any obligation or duty on the part of the Board of County Road Commissioners of Allegan County, including obligations or duties which may be expressed or implied in the Standard Specifications for Construction of the Michigan Department of Transportation, unless specifically set forth in the contract documents.

CLEARING: The contractor will remove all trees and brush that are marked or are entirely or partially within the right-of-way or within the slope stake line as shown on the plans and all stumps within five (5) feet of the right-of-way or within the slope stake line unless instructed otherwise by the project engineer. Trees will remain the property of the adjacent landowner, if they want them. If not, the contractor will dispose of them. The contractor will dispose of all stumps. Where called for on the plans or when directed by the engineer in the field, the contractor shall grind stumps to avoid disturbing underground facilities. The tree and stump removal will be done in accordance with Section 201 & 202 of the 2003 Standard Specifications for Construction.

METHOD OF PAYMENT FOR CLEARING: The item of "Clearing" will be paid for as a lump sum. No tree count is provided; it is the contractor's responsibility to inspect the site and verify accuracy of trees, stumps, and brush shown on the plans. No change in payment will be made for variances. Clearing stakes have been set; direct any questions to the Allegan County Road Commission.

PAY ITEMPAY UNIT

Clearing

Lump Sum

STATION GRADING: The item of "Station Grading" will include all culvert removal, fence removal, fence relocation regardless of fence type, obliterating roadway, rock excavation, HMA surface removal, concrete removal, earth excavation, embankment, water valve adjusting and saw cuts required. The contractor will place ditches and slopes as shown on the project cross section sheets. The earth excavation quantity does include the topsoil and pavement that must be stripped. The embankment quantity does include material to replace stripped topsoil and pavement in fill sections. The embankment quantity does not reflect shrinkage. Some excavation and embankment will be required to make a smooth transition into driveways; this is included in the earthwork figures. Additional driveway changes in slopes or ditch depths will not result in extra payment on this item. The Contractor will not receive any additional compensation due to delays caused by utility companies.

Some material excavated from ditches will not be suitable for embankment and will be disposed of at the contractor's expense. The contractor will be responsible for providing embankment if suitable material is not removed during excavation.

All slopes in yard areas will be finished to Class A tolerance. Slopes not in yards will be trimmed to Class B tolerance.

The Controlled Density Method (Section 205.03 page 138) of the Standard Specifications for Construction will apply. The engineer will run density tests at his discretion.

Any salvaged gravel required to maintain local traffic will be included in the item of Station Grading.

The following is an approximate list of earthwork quantities (Note: Quantities below are compacted in place units, Subbase not included).

<u>STATION</u>	<u>EARTH EX.</u>	<u>EMBANKMENT</u>
134 th Avenue	2,500 CYD	1,600CYD
Gleason Road	7,500 CYD	2,500 CYD

STATION GRADING (CON'T):

METHOD OF PAYMENT FOR STATION GRADING: The item of "Station Grading" will be paid for as a lump sum. The quantities listed above are approximate; any changes in quantity will not alter the lump sum pay quantity for Station Grading.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Station Grading	Lump Sum

SUBBASE, CIP: Section 301 of the Standard Specifications will apply. The contractor will furnish, place, compact and shape the material to obtain a minimum depth of 12 inch of Subbase for the length of the project. All Subbase will be Class II material.

The Subbase material will be compacted to not less than 95% of the maximum unit weight. Density tests will be done at the discretion of the engineer.

METHOD OF PAYMENT FOR SUBBASE, CIP: The item of "Subbase, CIP" will be paid by the cubic yard, compacted-in-place. The pay quantity for this item shall not exceed more than 5% of the plan quantity unless the contractor has received a written work order from the Allegan County Road Commission. Amounts in excess of the plan quantity will not be considered for payment unless an error in calculations is proven.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Subbase, CIP	Cubic Yard

TOPSOIL SURFACE: The existing topsoil will be stripped from the areas within the right-of-way or grading limits shown or as directed in the field, adjacent to roadway as detailed in the project description. The salvaged topsoil will be stockpiled for measurement. The item includes picking up, stockpiling, replacing and shaping the topsoil.

Prior to seeding, the Contractor will be required to drag all front and back slopes that are 1 on 3 or flatter. Slopes that are steeper than 1 on 3 must be left in a relatively smooth condition. Slope preparation will be included in the item of Topsoil Surface.

METHOD OF PAYMENT FOR TOPSOIL SURFACE: The item of "Topsoil Surface" will be paid for by the cubic yard as measured in the stockpile. A maximum of 2,100 Cubic Yards will be paid for.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Topsoil Surface	Cubic Yard

GEOTEXTILE FABRIC: The item of "Geotextile Fabric" will include all labor, material and equipment to place material as instructed by the engineer. The seam will be double stitched with nylon thread or with a 2 feet overlap. (Overlap NOT paid for). Fabric will be Exxon GTF 300 or equal.

METHOD OF PAYMENT FOR GEOTEXTILE FABRIC: The item of "Geotextile Fabric" will be paid for by the square yard as measured in place.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Geotextile Fabric	Square Yard

6A STONE: The item of “6A Stone” will include furnishing, hauling, placing, and shaping of the material. Material will meet MDOT 6A Specifications. This item is not shown on the plans, and will be used at the discretion of the engineer. The item is intended to be used for pipe bedding over Geotextile Fabric (separate item).

METHOD OF PAYMENT FOR 6A STONE: The item of “6A Stone” will be paid for by the ton. Weight slips will be required.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
6A Stone	Ton

SUBGRADE UNDERCUTTING, TYPE II: The item of “Subgrade Undercutting, Type II” will consist of cutting out undesirable material below the Subgrade and will include backfilling with Class II material (Section 205 Standard Specifications for Construction). Subgrade undercutting will be done only if requested by the engineer. Backfill of Subgrade Undercutting will be compacted to not less than 95% of the Maximum Unit Weight. Tests will be run at the discretion of the engineer. This item will also include all muck, morrow and peat excavation and backfill required up to 6 feet deep.

METHOD OF PAYMENT FOR SUBGRADE UNDERCUTTING, TYPE II: The item of “Subgrade Undercutting, Type II” will be paid for by the cubic yard as measured from the area actually excavated from the roadway. Backfill for the undercutting is included in the price for Subgrade Undercutting, Type II. The pay quantity for this item shall not exceed more than 5% of the plan quantity unless the contractor has received a written work order from the Allegan County Road Commission.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Subgrade Undercutting, Type II	Cubic Yard

CULVERT AND END SECTIONS: The items of culvert and end section will include all labor and material for placing the new culverts and end sections as specified. Excavating and backfilling will be included in the item of Culverts. If any material more than 0.5 feet below the culvert is ordered to be removed by the project engineer, it will be paid for as “Subgrade Undercutting, Type II”.

Granular bedding and backfill will be included in the item of Culverts.

All culverts and end sections will be laid true to the lines and grades given, bells or grooves upgrade, ends fully and closely jointed, and each section will have a full, firm bearing throughout its length. All pipe sections/joint assemblies for use in culvert will be selected from the Qualified Products List for Watertight Sewer and Culvert Joint Systems. Pipes with diameters greater than 24 inch will have the pipe joints wrapped with a non-woven Geotextile fabric. The fabric will have a minimum width of 36 inch and will be centered on the joint. The fabric will be included in the item of Culverts.

It is the contractor’s responsibility to protect all new culverts and existing culverts to be left in place from damage by heavy equipment by ramping or other means necessary. All cross culverts will be placed prior to the machine grading.

CULVERT AND END SECTION (CONT'D)

Concrete Cross Culverts will be placed at the following locations:

<u>STATION</u>	<u>TYPE</u>	<u>END SECTIONS</u>	<u>LENGTH</u>
8+89	Culv, CI E, Conc, 18 inch	2	56
15+62	Culv, CI E, Conc, 18 inch	2	48
18+63	Culv, CI E, Conc, 18 inch	2	56
30+99	Culv, CI E, Conc, 18 inch	2	40
33+34	Culv, CI E, Conc, 30 inch	2	48
46+87	Culv, CI E, Conc, 18 inch	2	72

METHOD OF PAYMENT FOR CULVERT AND END SECTION: The item of "Culvert" will be paid by the linear foot and the item of "End Section" will be paid for by the individual unit.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Culv, CI F, ___ inch	Foot
Culv, CI E, Conc, ___ inch	Foot
Culv End Sect, Conc, ___ inch	Each

UNDERDRAIN, SUBGRADE, 6 INCH: The item of "Underdrain, Subgrade, 6 inch" will include all labor, material and equipment to place the item as instructed by the engineer.

Section 404 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR UNDERDRAIN, SUBGRADE 6 INCH: The item of "Underdrain, Subgrade, 6 inch" will be paid for by the linear foot.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Underdrain, Subgrade, 6 inch	Foot

UNDERDRAIN OUTLET, 6 INCH: The item of "Underdrain Outlet, 6 inch" will include all labor, material and equipment required to place a piece of 6 inch PVC Schedule 40 or stronger from the end of the 6 inch Subgrade Underdrain to the Underdrain, Outlet Ending, 6 inch.

METHOD OF PAYMENT FOR UNDERDRAIN OUTLET, 6 INCH: The item of "Underdrain Outlet, 6 inch" will be paid for by the linear foot.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Underdrain Outlet, 6 inch	Foot

UNDERDRAIN, OUTLET ENDING, 6 INCH: The item of "Underdrain, Outlet Ending, 6 inch" will include all labor, material and equipment required to place a precast end section at the end of an Underdrain Outlet, 6 inch.

METHOD OF PAYMENT FOR UNDERDRAIN, OUTLET ENDING, 6 INCH: The item of "Underdrain, Outlet Ending, 6 inch" will be paid for by the individual unit.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Underdrain, Outlet Ending, 6 inch	Each

APPROACH, CL II: The item of “Approach, CL II” will include all labor, material and equipment to place and compact the material specified on the plans.

Section 307 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR APPROACH, CL II: The item of “Approach, CL II” will be paid for by the ton. Weight slips will be required. The pay quantity for this item shall not exceed more than 5% of the plan quantity unless the contractor has received a written work order from the Allegan County Road Commission. Amounts in excess of the plan quantity will not be considered for payment unless an error in calculations is proven.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Approach, CL II	Ton

APPROACH, 21AA: The item of “Approach, 21AA” will include all labor, material and equipment to place and compact the material specified on the plans. This material will meet the requirements for dense-graded 21AA in accordance with Section 902 of the Standard Specifications for Construction. This item may be utilized for approaches throughout the project at the discretion of the Engineer.

Section 307 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR APPROACH, 21AA: The item of “Approach, 21AA” will be paid for by the ton. The pay quantity for this item shall not exceed more than 5% of the plan quantity unless the contractor has received a written work order from the Allegan County Road Commission. Amounts in excess of the plan quantity will not be considered for payment unless an error in calculations is proven.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Approach, 21AA	Ton

AGGREGATE BASE, 6 INCH: The item of “Aggregate Base, 6 inch” will include all labor, material and equipment to place, and compact the base course.

The contractor may use 22A gravel, 22A slag, 22A limestone, 22A recycled concrete, or cold-milled bituminous material, which approximates the gradation for 22A material. When milled bituminous material is used as aggregate base, the density provisions of Standard Specifications are not waived. Milled bituminous material may be used full depth or on top of 22A gravel to obtain the specified thickness. 22A gravel shall not be placed on top of bituminous millings.

Section 302 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR AGGREGATE BASE, 6 INCH: The item of “Aggregate Base, 6 inch” will be paid for by the square yard, compacted in place.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Aggregate Base, 6 inch	Square Yard

HOT MIX ASPHALT (HMA): This item includes furnishing, hauling and placing the required HMA mixture as indicated on the plans. This work will also include furnishing and applying Bond Coat, and cleaning and sweeping driveways and intersections. HMA material used in driveways and intersections will be included in the item of HMA, 13A. No additional payment will be made for bituminous approaches.

Sections 501 and 502 of the Standard Specifications will apply to these items with the following modifications:

MIX DESIGNS

HMA, 13A

1. The Contractor will submit a mix design with a range of 5.0 to 8.0 percent (effective bitumen) of bitumen content.
2. The Limits for the bitumen content of Range 1 will be ± 0.30 from the optimum mix design.
3. PG 58-28 (85-100, AC-10) Penetration Grade Asphaltic Cement HMA Material will be combined with the mineral aggregate.
4. The Contractor will submit a mix design and test results of the aggregates to be used at least two weeks before commencing paving. The mix design will be submitted to an approved testing laboratory for design compliance tests. The Road Commission will require a 1 point Marshall Test Mix Design.
5. HMA, 13A will conform to the SPECIAL PROVISION FOR PLANT MIXED HOT MIX ASPHALT of the Michigan Department of Transportation 2003 Standard Specifications for Construction and this Special Provision as part of this contract.

ROLLING HMA

Number of Rollers Method shall apply as a minimum requirement for this project.

The Nuclear Gage Method for testing compaction may be used at the discretion of the Engineer.

Number of Rollers Required Based on Placement Rate:

AVERAGE LAY DOWN RATE SQUARE YARDS PER HOUR	NUMBER OF ROLLERS REQUIRED	
	COMPACTION ROLLERS	FINISH ROLLERS
LESS THAN 840	1	*1
840 – 1,800	1	1
1,800 – 3,950	2	1
3,950 – 7,200	3	1

*The compaction roller may be used as the finish roller also.

METHOD OF PAYMENT FOR HMA: The item of HMA will be paid for by the Ton.

PAY ITEM

PAY UNIT

HMA, 13A

Ton

SHOULDER, CL II: The item of "Shoulder, CI II" will include furnishing, hauling, placing, and compacting of the material. Material will meet MDOT 23A Specifications.

Section 307 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR SHOULDER, CL II: The item of "Shoulder CI, II" will be paid for by the ton. Weight slips will be required for payment.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Shoulder, CI II	Ton

HYDRANT RELOCATE, CASE 2: The item of "Hydrant Relocate, Case 2" will include all labor, equipment, and materials required to reposition a fire hydrant. The new position of the hydrant will be such that the center of the pumper connection is a minimum of twenty-one inches (21") and a maximum of thirty-six (36") above the adjacent finished grade. Also included in this item is the necessary pipe, fittings, and hydrant extensions required to extend the hydrants and any rotation necessary so the pumper connection is facing the roadway.

The ductile iron pipe (DIP) will conform to the requirements of AWWA Standard C151, with Class 52 wall thickness. The pipe shall be cement lined in accordance with AWWA Standard C104, Cement lining will be standard thickness and have a bituminous seal coat. Minimum bury will be 60 inches for DIP water main and each joint shall have two bronze wedges for conductivity.

Fittings shall have body thickness and radii of curvature conforming to ANSI Standard A21.10, and joints in accordance with Section 11-2.3 of ANSI Standard A.21.11, Class 260 gray iron. All fittings provided will have Mega-Lug retainer glands and pipe joints will be restrained.

All fittings shall be cement mortar lined with standard thickness lining and bituminous seal coat.

Prior to ordering material, the CONTRACTOR shall obtain the ENGINEER's approval of all material to be used.

METHOD OF PAYMENT FOR HYDRANT RELOCATE, CASE 2: The item "Hydrant Relocate, Case 2" will be paid for by the individual unit.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Hydrant Relocate, Case 2	Each

RESTORATION: The item of "Restoration" will include all labor, material and equipment required to do the restoration. Restoration will consist of placing Seeding, Mixture TUF (220#/acre); Fertilizer, Chemical Nutrient, CI A (228#/acre); Mulch (2 ton/acre); and Mulch Anchoring.

Section 816 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR RESTORATION: The item of "Restoration" will be paid for as a lump sum.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Restoration	Lump Sum

EXTENDED RESTORATION: The item of “Extended Restoration” will include all labor, material and equipment required to maintain the restoration of the construction site. The contractor shall be responsible for the permanent establishment of turn and maintaining the temporary and permanent soil erosion control measures for a period of one year from the date of final approval or when the site is stabilized and approved by the engineer. This may include reseeding, maintaining check dams and spillways, and fixing erosion on site.

METHOD OF PAYMENT FOR EXTENDED RESTORATION: The item of “Extended Restoration” will be paid for as a lump sum.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Extended Restoration	Lump Sum

CEREAL RYE SEED: The item “Cereal Rye Seed” will include all labor, material and equipment to place the seed as instructed by the engineer. When directed by the Engineer, cereal rye seed will be placed at a rate of 70 pounds per acre.

METHOD OF PAYMENT FOR CEREAL RYE SEED: The item of “Cereal Rye Seed” will be paid for by the pound.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Cereal Rye Seed	Pound

SIGN, TYPE B, TEMP, MODIFIED: The item of “Sign, Type B, Temp, Modified” will include supplying all materials, equipment and labor required to erect and maintain construction signs as designated by the project engineer. Materials and placement will conform with the MDOT Standard Specifications for Construction and the Michigan Manual of Uniform Traffic Control Devices. Signs will be placed as instructed by the project engineer. All “CONSTRUCTION AHEAD” and “ROAD CLOSED AHEAD” signs will be 48” x 48” mounted on two posts with one steady burn light. (Steady burn light and posts are included in the Sign, Type B, Temp, Modified item).

METHOD OF PAYMENT FOR SIGN, TYPE B, TEMP, MODIFIED: The item of “Sign, Type B, Temp, Modified” will be paid for by the square foot of Sign Face.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Sign, Type B, Temp, Modified	Square Foot

PLASTIC DRUM, HIGH INTENSITY, LIGHTED, MODIFIED: The item of “Plastic Drum, High Intensity, Lighted, Modified” will include all labor, equipment and material to furnish, set up, move and maintain the drums as required by the engineer. Drums will be equipped with one light.

Section 812 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR PLASTIC DRUM, HIGH INTENSITY, LIGHTED, MODIFIED: The item of “Plastic Drum, High Intensity, Lighted, Modified” will be paid for by the individual unit.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Plastic Drum, High Intensity, Lighted, Modified	Each

BARRICADE ,TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, MODIFIED: The item of "Barricade, Type III, High Intensity, Double Sided, Lighted, Modified" will include all labor, equipment and material to furnish, set up, move and maintain the barricades.

The Contractor will furnish and maintain Barricades, Type III with three lights and an R-11-4 Sign (ROAD CLOSED TO THRU TRAFFIC) mounted above the barricade.

Section 812 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, MODIFIED: The item of "Barricade, Type III, Double Sided, Lighted" will be paid for as individual units.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Barricade, Type III, High Intensity, Double Sided, Lighted, Modified	Each

PAVT MRKG, WATERBORNE, 4 INCH, WHITE: The item of "Pavt Mrkg, Waterborne, 4 inch, White" will include all labor, material, and equipment to place pavement markings.

Section 811 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR PAVT MRKG, WATERBOURNE, 4 INCH WHITE: The item of "Pavt Mrkg, Waterborne, 4 inch, White" will be paid for by the linear foot.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Pavt Mrkg, Waterborne, 4 inch, White	Foot

PAVT MRKG, WATERBORNE, 4 INCH, YELLOW: The item of "Pavt Mrkg, Waterborne, 4 inch, Yellow" will include all labor, material, and equipment to place pavement markings.

Section 811 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR PAVT MRKG, WATERBOURNE, 4 INCH YELLOW: The item of "Pavt Mrkg, Waterborne, 4 inch, Yellow" will be paid for by the linear foot.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Pavt Mrkg, Waterborne, 4 inch, Yellow	Foot

PAVT MRKG, TYPE NR, 4 INCH, YELLOW, TEMP: The item of "Pavt Mrkg, Type NR, 4 inch, Yellow, Temp" will include all labor, material, and equipment to place pavement markings.

Section 812 of the Standard Specifications for Construction will apply.

METHOD OF PAYMENT FOR PAVT MRKG, TYPE NR, 4 INCH, YELLOW, TEMP: The item of "Pavt Mrkg, Type NR, 4 inch, Yellow, Temp" will be paid for by the linear foot.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Pavt Mrkg, Type NR, 4 inch, Yellow, Temp	Foot

RIPRAP, PLAIN: The item of "Riprap, Plain" will include all labor, equipment and material to place the Riprap as instructed by the engineer.

Section 813 of the Standard Specifications for Construction will apply to this item except the riprap must be natural stone.

The Riprap will be placed over Geotextile Fabric, included in this item.

METHOD OF PAYMENT FOR RIPRAP, PLAIN: The item of "Riprap, Plain" will be paid for by the square yard. The pay quantity for this item shall not exceed more than 5% of the plan quantity unless the contractor has received a written work order from the Allegan County Road Commission. Amounts in excess of the plan quantity will not be considered for payment unless an error in calculations is proven.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Riprap, Plain	Square Yard

MULCH BLANKET: The item of "Mulch Blanket" will include all labor, material and equipment to place the mulch blanket as instructed by the engineer.

Section 816 of the Standard Specifications for Construction will apply to this item.

METHOD OF PAYMENT FOR MULCH BLANKET: The item of "Mulch Blanket" will be paid for by the square yard.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Mulch Blanket	Square Yard

MULCH BLANKET, HIGH VELOCITY: The item of "Mulch Blanket, High Velocity" will include all labor, material and equipment to place the blanket as instructed by the engineer. Mulch Blanket, High Velocity shall meet the specifications set on page 808 (Section 917.15) of the 2003 MDOT Standard Specifications for Construction.

The contractor will also seed following placement of Mulch Blanket, High Velocity with Seeding, Mixture TUF at the rate of 400 pounds per acre (included in this item).

METHOD OF PAYMENT FOR MULCH BLANKET, HIGH VELOCITY: The item of "Mulch Blanket, High Velocity" will be paid for by the square yard.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Mulch Blanket, High Velocity	Square Yard

EROSION CONTROL, CHECK DAM: The item of "Erosion Control, Check Dam" will include all labor, material and equipment to place the check dam as instructed by the engineer.

Section 208 of the Standard Specifications for Construction will apply to this item.

EROSION CONTROL, CHECK DAM (CONT'D)

METHOD OF PAYMENT FOR EROSION CONTROL, CHECK DAM: The item of "Erosion Control, Check Dam" will be paid for by the linear foot. The contractor may use stone, EnviroBerm®, or approved equal for the check dams.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Erosion Control, Check Dam	Foot

EROSION CONTROL, SILT FENCE: The item of "Erosion Control, Silt Fence" will include all labor, material and equipment to place silt fence as instructed by the engineer.

Section 208 of the Standard Specifications for Construction will apply to this item.

METHOD OF PAYMENT FOR EROSION CONTROL, SILT FENCE: The item of "Erosion Control, Silt Fence" will be paid for by the linear foot. The pay quantity for this item shall not exceed more than 5% of the plan quantity unless the contractor has received a written work order from the Allegan County Road Commission.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Erosion Control, Silt Fence	Foot

PROJECT CLEANUP, MODIFIED: The item of "Project Cleanup, Modified" will include all labor, material and equipment to pick up stone, sticks, branches, roots and other debris from the project.

This item will also include moving all mailboxes to a temporary location to be approved by the mail carrier and to reset the boxes permanently on the project. If new boxes or posts are required, they will be supplied by the Road Commission. Project Cleanup, Modified also includes placing a 1" x 3" with the respective property address written on it in the front yard of each residence to assist with identification for emergency vehicles.

METHOD OF PAYMENT FOR PROJECT CLEANUP, MODIFIED: The item of "Project Cleanup, Modified" will be paid for as a lump sum.

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Project Cleanup, Modified	Lump Sum

ALLEGAN COUNTY ROAD COMMISSION
ALLEGAN, MICHIGAN

GENERAL SPECIFICATIONS

MICHIGAN DEPARTMENT OF TRANSPORTATION-STANDARD SPECIFICATIONS

The work covered by the plans and specifications will be done in accordance with the 2003 Michigan Department of Transportation Standard Specifications for Construction, except as qualified in supplemental specifications and special conditions of the Allegan County Road Commission or as agreed to in writing at the time of the award of the contract.

DEFINITION OF TERMS

See Section 101 of Michigan Department of Transportation Standard Specifications for Construction.

SPECIAL CONDITIONS

Special requirements, regulations or directions applying to a particular project may be made a part of these specifications.

THE WORK

The work consists of the completed services, construction and/or paving by the Contract Documents and includes all materials and labor incorporated or to be incorporated therein.

RESPONSIBILITIES OF CONTRACTOR

- A. Responsibility for and Supervision of Construction. Unless otherwise stated herein, Contractor will be solely responsible for all construction under this Contract, including the methods, techniques, sequences, procedures, and means, and for coordination of all work. Contractor will supervise and direct the work to the best of Contractor's ability, and give it all attention necessary for such proper supervision and direction.
- B. Discipline and Employment. Contractor will maintain at all times strict discipline among Contractor's employees, and contractor agrees not to employ for work on the project any person unfit for without sufficient skill to perform the job for which he or she was employed.
- C. Furnishing of Labor, Materials, etc. Unless otherwise stated herein, Contractor will provide and pay for all labor, materials, and equipment, including tools, construction equipment, and machinery, utilities, including water, transportation, and all other facilities and services necessary for the proper completion of work on the project in accordance with the Contract Documents.
- D. Payment of Taxes; Procurement of Licenses and Permits. Contractor will pay all taxes required by law in connection with work on the project in accordance with this agreement including sales, use, and similar taxes, and will secure all licenses and permits necessary for proper completion of the work, paying the fees for such licenses and permits.
- E. Compliance with Laws and Regulations. Contractor will comply with all laws and ordinances, and the rules, regulations or orders of all public authorities relating to the performance of the work under and pursuant to this Agreement including, but not limited to, the Occupational Safety and Health Act of 1970, the Michigan Occupational Safety and Health Act, and the rules and regulations of the Michigan Construction Safety Commission.

RESPONSIBILITIES OF CONTRACTOR (CON'T):

F. Responsibility for Negligence of Employees and Subcontractors. Contractor assumes full responsibility for acts, negligence or omissions of all of Contractor's employees on the project, for those of Contractor's subcontractors and their employees, and for those of all other persons doing work under a contract with Contractor.

G. Responsibility for Safety. Unless otherwise stated herein, at Contractor's expense, Contractor will take all necessary precautions (including, without limitation, the furnishing of traffic control, barricades, traffic control devices, flaggers, warning lights, signs, warning signs, safety channels, channelization devices, guards, fences, walks, flags, cables and lights) for the safety of, and the prevention of injury, loss and damage to, persons and property (including, without limitation, in the term persons, members of the public, employees, Contractor's subcontractors and their respective employees, other contractors, their subcontractors and respective employees) on, about or adjacent to the location where the work is being performed, and will comply with all applicable provisions of safety rules, ordinances, codes, regulations, and orders of duly-constituted public authorities including, but not limited to, the Michigan Manual of Uniform Traffic Control Devices.

H. Responsibility of Subcontractors. The Contractor will require any subcontractor hired by the Contractor for the purpose of performing any of the work described by the Contract documents to be bound by all of the terms and conditions of the Contract documents and to perform the work in accordance with the Contract documents. Each and every condition of the Contract documents, including without limitation, the RESPONSIBILITIES OF THE CONTRACTOR, will be made a condition of each subcontract entered into by the Contractor in conjunction with the performance of the work.

INDEMNIFICATION

To the fullest extent permitted by law, the Contractor will indemnify, defend, and hold harmless The Board of County Road Commissioners of Allegan County, its officers, employees, representatives and agents from and against any and all claims, damages, demands, payments, suits, actions, recoveries, judgements, losses and expenses, including attorney fees, interest, and court costs, which are made, brought or recovered against the Board of County Road Commissioners of Allegan County, arising out of or resulting from performance of the Contractor's work under this Contract, provided that such claims, damages, losses, demands, payments, suits, actions, recoveries, judgements and/or expenses are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including loss of use resulting therefrom, but only if caused in whole or in part, by the act, omissions, fault, negligence or breach of the conditions of this Contract by negligent acts or omissions of the Contractor, the Contractor's sub-subcontractors, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. The Contractor will not, however, be obligated to indemnify the Board of County Road Commissioners of Allegan County, for any damage or injuries caused by or resulting from the sole negligence of the Board of County Road Commissioners of Allegan County. Such obligation will not be construed to negate, abridge or otherwise reduce other rights or obligations of indemnity which would otherwise exist as a party or person described in this paragraph.

In claims against any person or entity indemnified under this Agreement by an employee of the Contractor, the Contractor's sub-subcontractors, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this paragraph will not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or the Contractor's subcontractors under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts.

INSURANCE

A. Contractor's Insurance. Prior to start of the Contractor's work, the Contractor will procure for the Contractor's work and maintain in force until the completion of the work, workers' compensation insurance, employer's liability insurance, comprehensive general liability insurance and all insurance required of the contract under the contract documents.

The Board of County Road Commissioners of Allegan County will be named as an additional insured on each of these policies except for worker's compensation.

The insurance will include contractual liability insurance covering the Contractor's obligations under its agreement of indemnification as set forth herein.

B. Minimum Limits of Liability. The Contractor's comprehensive general and automobile liability insurance as required herein, will be written with limits of liability not less than the following:

a. Comprehensive general liability including completed operations

(1) \$ 500,000 each occurrence

b. Property damage

(1) \$ 500,000 each occurrence

C. Number of Policies. Comprehensive general liability insurance and other liability insurance may be arranged under a single policy for the full limit required or by combination of underlying policies with the balance provided by an excess or umbrella liability policy.

D. Cancellation, Renewal or Modification. The Contractor will maintain in effect all insurance coverage required under this Agreement at the Contractor's sole expense and with insurance companies acceptable to the Board of County Road Commissioners of Allegan County.

All insurance policies will contain a provision that the coverage afforded thereunder will not be cancelled or not renewed nor restrictive modifications added at any time after a certificate of insurance required under agreement has been issued and before the work; as defined herein, has been completed, until at least thirty (30) days prior thereto written notice has been given to the Board of County Road Commissioners of Allegan County unless otherwise specifically required in the Contract Documents.

Certificates of insurance or certified copies of policies acceptable to the Board of County Road Commissioners of Allegan County will be filed with the Board of County Road Commissioners of Allegan County prior to the commencement of the Contractor's work.

In the event that the Contractor fails to obtain or maintain any insurance coverage required under this Agreement, the Board of County Road Commissioners of Allegan County may:

1. Purchase such coverage and charge the expense thereof to the Contractor, and
2. Withhold from any payment due or to become due to the Contractor an amount sufficient to protect the Board of County Road Commissioners of Allegan County from such claims, damages, demands, payments, suits, actions, recoveries, judgements, losses and expenses, including attorney fees, interest and court costs, and
3. Terminate this agreement.

Nothing contained in this Agreement, nor the Board of County Road Commissioners of Allegan County's compliance therewith, will relieve the Contractor from its obligations under the Contract to purchase and maintain required insurance or to indemnify the Board of County Road Commissioners of Allegan County.

PROGRESS CLAUSE

The successful bidder will be required to submit a Progress Schedule, giving an outline of his proposed order of work and to indicate the dates for completion of the work. This outline, when approved by the Road Commission, will become a part of the contract.

PROSECUTION OF THE WORK

The Contractor will begin the work within five (5) days after being notified by the Road Commission of the award of the contract, unless this is inconsistent with the Progress Schedule, in which case the Progress Schedule will govern. He will prosecute the work in the order given in the Progress Schedule, with force and equipment adequate to complete the sections within the time limit therein fixed for completion. In case of failure to proceed with the work as rapidly as is provided in the Progress Schedule, or if it appears at any time that such work is not being prosecuted in such a manner as to insure its completion within time specified, the Road Commission will have the right to require the contractor to furnish and place in operation such additional force and equipment as the Road Commission will deem necessary to bring the work up to the Progress Schedule; and in case of the Contractor's neglect to do so, the Road Commission may place such working force and equipment on the work and charge the Contractor the cost of the labor and such rental and depreciation rates for the plan and equipment as in its judgment is reasonable, and for such time as the plant and equipment are in service.

ESTIMATED QUANTITIES

The quantities listed in the proposal are the estimated quantities. Increases or decreases in quantities will not be considered as a basis for adjustment in unit prices and Articles 104.02 of M.D.O.T. Standard Specifications for Construction will not apply in this regard.

FINAL PAYMENT

Final payment will not be made until the contractor will have filed with the Board of County Road Commissioners the consent of the Surety of the payment of the final estimate and satisfactory evidence by affidavit or otherwise that all his indebtedness by reason of the contract has been fully paid or satisfactorily secured. In case such evidence is not furnished, the Road Commission may retain out of any amount due said contractor sums sufficient to cover all lienable claims unpaid.

AFFIRMATIVE ACTION POLICY (EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER)

The Allegan County Road Commission will require the Contractor to submit an Affirmative Action Policy stating that they are an equal employment opportunity employer and will recruit, hire and promote in all job classifications without regard to race, color, religion, sex or national origin, except where sex is a bona fide occupational qualification. The Affirmative Action Policy will be signed by the Contractor or one of the Company's Authorized Officers.

CONTRACT BONDS

The Successful Bidder will furnish satisfactory performance and lien bonds, each in the amount of not less than one hundred (100) per cent of the total contract price. Such bonds will be on forms provided and will meet the regulations of the Allegan County Road Commission and the requirements specified in the laws of Michigan.

Bonds will be required for contracts of less than \$5,000.00.

M.D.O.T. – PREQUALIFICATION

Contractors bidding on this work must be pre-qualified by the Michigan Department of Transportation to do similar work on State or Federal-aid Secondary projects.

LIQUIDATED DAMAGES

Failure to complete the project on or before the completion date specified will be assessed according to the following schedule:

Original Contract Amount	Liquid Damages Per Calendar Day
\$ 0 to 49,999	75
50,000 to 99,999	150
100,000 to 499,999	450
500,000 to 999,999	900
1,000,000 to 1,999,999	1,300
2,000,000 to 4,999,999	1,550
5,000,000 to 9,999,999	2,650
10,000,000 and above	3,000

The liquidated damages may be delayed if the contractor meets the requirements set forth in Section 108.12 of the 2003 Standard Specifications for Construction. Approval of the project engineer is required.