



Calhoun County Road Department

"Building A Better County Through Responsive Leadership"

13300 15 Mile Road
Marshall, MI 49068
(269) 781-9841 Voice
(800) 781-5512 Toll Free
(269) 781-6101 Fax

rdinfo@calhouncountymi.gov
www.calhouncountyroads.com

Invitation for Bids

2 ½ Mile Rd Improvements

Sealed bids will be received by the Calhoun County Road Department electronically and should be submitted to kparsons@calhouncountymi.gov no later than **12:00 PM EST on Thursday, June 10, 2021** for the paving of 2 ½ Mile Rd in Calhoun County, Michigan.

No pre-bid meeting will be held. Questions about this bid package must be submitted by **Thursday June 3, at 12:00 PM** via email to scudney@calhouncountymi.gov.

The Calhoun County Road Department reserves the right to reject any and all bids, and to make the award in the best interest of the Calhoun County Road Department and Calhoun County. This project is contingent upon approval by Leroy Township and the Calhoun County Board. In the case that it is not approved by both parties, the project will not move forward.

Kristine Parsons, PE
Director of Engineering

General Provisions & Instructions

Scope of Work

The work covered by this proposal consists of HMA base crushing and shaping, HMA paving, and construction of gravel shoulders on 2 ½ Mile Rd from K Drive S to H Drive S in Leroy Township.

All work shall be performed in accordance with the Michigan Department of Transportation's (MDOT) 2012 Standard Specifications for Construction or as modified by these General Provisions and Instructions.

Special Requirements

1. Persons wanting to submit a bid on this project shall submit the forms from Appendix A & Bid Security Requirements. Bid forms should be submitted to the Calhoun County Road Department. After the bid opening, a decision will be made to pursue what is in the best interest of the Calhoun County Road Department and Calhoun County
2. A preconstruction meeting will be held to finalize a progress schedule and to determine execution-administration of the contract. Work on the project shall begin on a date agreed upon with the Calhoun County Road Department and the Calhoun County. The substantial completion date for work included in this bid package shall be September 1, 2021. The completion date for final site restoration shall be May 15, 2022. Work added after the bid opening will not adhere to this deadline.
3. Payment: The contractor shall submit invoices for completed contract items to the Calhoun County Road Department (Erin Cummings). The invoice will be processed and payment for approved contract items (less retainage, if necessary) will be made within thirty (30) calendar days or less of receiving the invoice.
4. The contractor shall furnish a statement to the Calhoun County Road Department certifying that all subcontractors and suppliers that furnished labor, equipment, and materials for the project have been paid before the final payment on the contract is made.

Questions/Additional Information

Questions regarding this project should be directed to:

Skylar Cudney
Civil Engineer
Calhoun County Road Department
13300 15 Mile Road
Marshall, MI 49068
P: 269.781.0056
scudney@calhouncountymi.gov

Appendix A: Bid Security Requirements & Bid Forms

Bid Security

Bid security shall be made payable to the Calhoun County Road Department in an amount equal to 5% of the total bid. The bid security can be cash, certified check, or a bid bond issued by a surety.

The bid security of the successful low bidder will be retained by the Calhoun County Road Department until a contract is executed. The bid security shall be returned to the successful low bidder within ten (10) business days of the date the contract is executed.

The successful low bidder's bid security will be forfeited if the Calhoun County Road Department and the successful low bidder fail to reach agreement on a progress schedule or if the low bidder fails to return an executed contract to the Calhoun County Road Department within ten (10) business days of receiving notice of award.

The bid security of other bidders shall be returned within ten (10) business days of the bid opening.

Bonding

Performance and payment bonds with penal amounts equal to 100% and 50%, respectively, of the amount of the contract are required by law when the bid exceeds \$25,000. All subcontractors performing work under this contract are subject to bonding requirements. A bid bond of 5% is required, and performance and payment bonds are required with penal amounts equal to 100% and 50%, respectively, of the amount of the contract. Bonds are to be made payable to the Contractor. Corporate sureties offered for bonds furnished with this contract must be original documents and must appear on the list contained in the Department of Treasury Circular 570, entitled "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and Acceptable Reinsuring Companies".

- A. **Bid Bond:** 5% of amount of contract
- B. **Performance Bond:** 100% of amount of contract
- C. **Payment Bond:** 50% of amount of contract

Schedule of Items (Itemized Bid Sheet)

Letting Date: Thursday, June 10, 2021 12:00 PM

Contract ID: 2 1/2 Mile Rd
Location: Leroy Township
Description: 2 1/2 Mile Rd will be crushed, shaped, and repaved, from K Drive S to H Drive S.

Project Number: 2 1/2 Mile Rd	Project Engineer: Skylar Cudney
Estimate Number: 1	Date Created: 05/26/2021
Project Type: Miscellaneous	Fed/State #:
Location: Leroy Township	Fed Item:
	Control Section:

Description: 2 1/2 Mile Rd will be crushed, shaped, and repaved, from K Drive S to H Drive S.

Instructions to Bidders: IMPORTANT NOTICE:
If the proposal establishes a maximum price for any of the following work items, and if you bid a price higher than that maximum price, your bid will be considered to have quoted the maximum price and your bid total will be adjusted to reflect that maximum price.

If the proposal provides a specified price for any of the following work items, and if you bid a price higher or lower than that specified price, your bid will be adjusted to reflect that specified price.

If your bid is the lowest accepted bid, and if you refuse to accept the award of the contract due to the change in what you quoted as a maximum or specified price, you will forfeit your proposal guaranty.

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount	
				Dollars	Cts	Dollars	Cts
1500001	Mobilization, Max	1	LSUM				
2040050	Pavt, Rem	23	Syd				
2050010	Embankment, CIP	100	Cyd				
2050016	Excavation, Earth	366	Cyd				
2050041	Subgrade Undercutting, Type II	250	Cyd				
2057002	_ Machine Grading, Modified	159	Sta				
2080036	Erosion Control, Silt Fence	200	Ft				
3020001	Aggregate Base	320	Ton				
3050002	HMA Base Crushing and Shaping	20,048	Syd				
3070001	Approach, CI I	52	Ton				
3070121	Shoulder, CI II	1,700	Ton				
5010005	HMA Surface, Rem	180	Syd				
5010050	HMA, 4E1	2,426	Ton				
5010056	HMA, 5E1	1,819	Ton				
8020016	Curb and Gutter, Conc, Det B2	110	Ft				
8100371	Post, Steel, 3 lb	154	Ft				
8100403	Sign, Type III, Rem	5	Ea				
8100404	Sign, Type IIIA	27	Sft				
8100405	Sign, Type IIIB	22	Sft				
8110045	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	24	Ft				
8110063	Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	1	Ea				
8110232	Pavt Mrkg, Waterborne, 4 inch, Yellow	7,682	Ft				

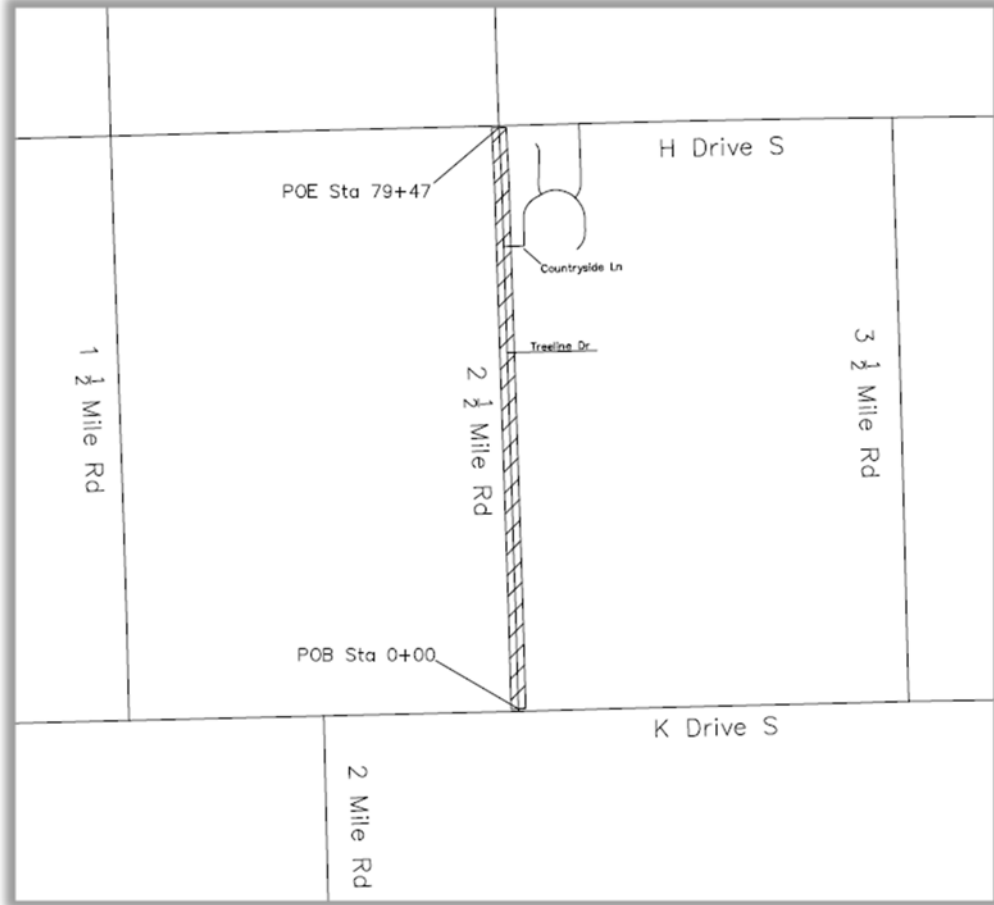
Pay Item	Description	Quantity	Units	Unit Price		Bid Amount		
				Dollars	Cts	Dollars	Cts	
8110252	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	7,682	Ft					
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	4	Ea					
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	4	Ea					
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	79	Ea					
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	79	Ea					
8120170	Minor Traf Devices	1	LSUM					
8120350	Sign, Type B, Temp, Prismatic, Furn	185	Sft					
8120351	Sign, Type B, Temp, Prismatic, Oper	185	Sft					
8120352	Sign, Type B, Temp, Prismatic, Spec, Furn	30	Sft					
8120353	Sign, Type B, Temp, Prismatic, Spec, Oper	30	Sft					
8120370	Traf Regulator Control	1	LSUM					
8160101	Slope Restoration, Type B	5,298	Syd					
8210001	Monument Box	2	Ea					
8210010	Monument Preservation	2	Ea					
Total Bid:								

Contractor: _____

(Signature)

(Date)

CALHOUN COUNTY ROAD DEPARTMENT
2 ½ Mile Rd Crush & Shape
Leroy Township



**Know what's below.
Call before you dig.**

Road	From	To	ADT		% Commercial		Posted Speed	Design Speed
			2021	2041	2021	2041		
2 ½ Mile Rd	K Drive S	H Drive S	300	330	4	4	Prima Facia	60 mph

General Notes:

1. All materials and workmanship shall be in accordance with the Michigan Department of Transportation's 2012 Standard Specifications for Construction.
2. All traffic control devices shall be furnished and operated in accordance with the 2011 Michigan Manual on Uniform Traffic Control Devices and Section 812 of the Michigan Department of Transportation 2012 Standard Specifications for Construction.
3. Improvements covered by these plans are in accordance with Section C of the MDOT LAP Guidelines for Geometric Design July 2017.

Special Details:

Temporary Traffic Control Devices WZD-125-E
 Ground Driven Sign Supports for Temp Signs WZD-100-A

Standard Plans:

Monument Boxes R-11-E
 Soil Erosion and Sedimentation Control R-96-E

Project Description: Crush and shape 2 ½ Mile Rd from K Drive S to H Drive S

Length: 1.51 Miles

Prepared by:

Kristine O. Parsons, P.E
 Director of Engineering
6201061583
 Registration Number

PROJECT LOG

2 ½ Mile Rd Crush and Shape

CCRD: SC

1 of 3

05/21/2020

PROJECT LOCATION

The project begins at the edge of metal of the K Drive S intersection on 2 ½ Mile Rd, at Station 0+00 (POB). The project then proceeds north to Station 79+47 (POE), ending at the edge of metal of the intersection of H Drive S and 2 ½ Mile Rd. The project length is approximately 1.51 miles.

The Engineer will assist the contractor with establishing the location for all items of work.

PROJECT DESCRIPTION

The project provides for approximately 1.51 miles of HMA Base Crushing and Shaping, starting at the the edge of metal of the K Drive S intersection on 2 ½ Mile Rd and ending at at the edge of metal of the intersection of H Drive S and 2 ½ Mile Rd.

The project limits shall be closed to all thru traffic throughout the project. Use traffic regulators as needed or as directed by the engineer to maintain local traffic.

Silt fence shall be placed as needed to prevent sediment from spilling into sensitive areas, paid for as *Erosion Control, Silt Fence*.

Excavation, Earth shall be used throughout the project as needed to remove side slopes in cut locations or to correct drainage as directed by the Engineer. *Embankment, CIP* shall be used throughout the project as needed to establish side slopes in fill locations as directed by the Engineer.

From Station 0+00 to Station 79+47 the existing sod and topsoil shall be stripped away from the edge of the existing pavement by a width of 3-feet. This shall be paid for as *Machine Grading, Modified*.

From Station 0+00 to Station 79+47, the existing road shall be crushed to a depth of 2-inches below the existing HMA. This will be paid for as *HMA Base Crushing and Shaping* and include all necessary grading and compaction needed at the Engineer's discretion.

The edge of all intersecting roads along the project shall be saw cut to form a clean vertical joint. This shall be considered incidental to construction.

Complete subgrade undercutting as needed throughout the project where unsuitable materials are discovered, paid for as *Subgrade Undercutting, Type II*. 21AA aggregate shall be placed above the undercut backfill a minimum of 8 inches deep in locations where subgrade undercutting takes place, paid for as *Aggregate Base*.

Concrete curb radii shall be added at the intersection of K Drive S and 2 ½ Mile Rd. This shall be paid for as Curb and Gutter, Conc, Det B2.

Once HMA Base Crushing and Shaping operations have been completed and proper density and moisture tests have been passed, 2-inches of HMA, 4E1 leveling course shall be placed 11 feet on each side of centerline, followed by 1.5-inches of HMA, 5E1 top course. The leveling course shall be paid for as *HMA, 4E1*, while the top course will be paid for as *HMA, 5E1*.

There are approximately twenty two (22) driveways within the limits of the project (1 concrete, 8 asphalt & 13 gravel). During paving operations, 21AA maintenance gravel, paid for as *Approach, C/I* shall be placed in all gravel driveways within 24 hours after HMA base course is paved. Once paving is completed, all gravel driveways will be re-graveled with 21AA stone to no more than 10-feet from the edge of road, also paid for by *Approach C/I*.

All asphalt and concrete driveways will be saw cut and removed a distance no more than 10 feet from the edge of the road or as marked by the Engineer, paid for as *HMA Surface, Rem*, and *Pavt, Rem* respectively. All concrete driveways will be saw cut and removed a distance of no more than 10 feet from the edge of the road or as marked by the Engineer, paid for as *Pavt, Rem*. Excess crushed material shall be temporarily shaped into these driveways to provide a drivable access. HMA and concrete driveways will be tied back into the roadway using HMA during paving operations. This work will be paid for as *HMA, 4E1* and *HMA, 5E1*.

Slope restoration shall be placed along the gravel shoulder and on all embankments or disturbed areas from POB to POE, paid for as *Slope Restoration, Type B*.

There are two monument boxes that shall be witnessed and raised to be flush with the finished grade of the road. This work will be paid for as *Monument Box* and *Monument Preservation*.

Signs within the project limits shall be removed and replaced, or added, according to the sign log. This work shall be paid for as *Sign, Type III, Rem; Sign, Type IIIA; Sign Type IIIB; and Post, Steel, 3 lb*.

Any mailboxes that impede construction activities or are unintentionally damaged at any time throughout the project shall be removed and replaced. This will be included in *Machine Grading, Modified*.

Pavement markings shall be placed to match the previously existing pavement markings, paid for as *Pavt Mrkg, Waterborne, 4 inch, Yellow*. After a minimum of 2 weeks, a second application of pavement marking shall be applied, paid for as *Pavt Mrkg, 2nd Application, Waterborne, 4 inch, Yellow*.

A stop bar and left turn arrow symbol shall be placed on 2 ½ Mile Rd at the intersection of H Drive S to match the existing markings. This shall be paid for as *Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar* and *Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym*.

SURFACING ITEMS

Station 0+00 to Station 79+47: Items of work are to be placed in accordance with the typical cross sections and as directed by the Engineer.

Mobilization, Max	1 LSUM
Excavation, Earth	366 Cyd
Embankment, CIP	100 Cyd

Subgrade Undercutting, Type II	250 Cyd
Machine Grading, Modified	159 Sta
Aggregate Base	320 Ton
Shoulder, CI II	1,700 Ton
HMA Base Crushing and Shaping	20,048 Syd
Pavt, Rem	23 Syd
HMA Surface, Rem	180 Syd
HMA, 4E1	2,426 Ton
HMA, 5E1	1,819 Ton
Approach, CI I	52 Ton
Curb and Gutter, Conc, Det B2	110 Ft
Erosion Control, Silt Fence	200 Ft
Slope Restoration, Type B	5298 Syd
Monument Box Adjust	2 Ea
Monument Preservation	2 Ea

MAINTENANCE OF TRAFFIC

Maintain traffic in accordance with special provision for traffic control and as directed by the Engineer.

Post, Steel, 3 lb.	154 Ft
Sign, Type III, Rem	5 Ea
Sign, Type IIIA	27 Sft
Sign, Type IIIB	22 Sft
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	4 Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	4 Ea
Minor Traf Devices	1 LSUM
Channelizing Device, 42 inch, Fluorescent, Furn	79 Ea
Channelizing Device, 42 inch, Fluorescent, Oper	79 Ea
Traf Regulator Control	1 LSUM
Sign, Type B, Temp, Prismatic, Furn	185 Sft
Sign, Type B, Temp, Prismatic, Oper	185 Sft
Sign, Type B, Temp, Prismatic, Spl, Furn	30 Sft
Sign, Type B, Temp, Prismatic, Spl, Oper	30 Sft

PAVEMENT MARKINGS

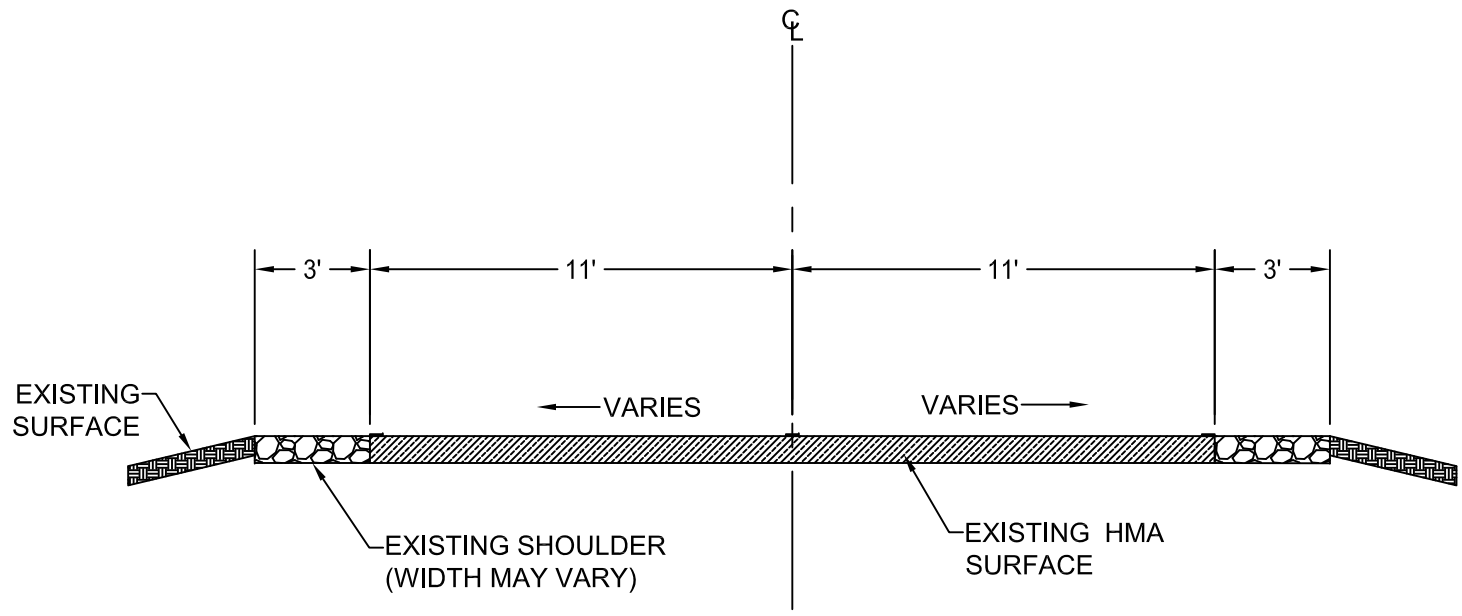
Match the existing pavement markings from Sta. 00+00 to Sta. 79+47.

Pavt Mrkg, Waterborne, 4 inch, Yellow	7,682 Ft
Pavt Mrkg, Waterborne, 2 nd Application, 4 inch, Yellow	7,682 Ft
Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	24 Ft
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	1 Ea

Sign Log

Sign	Sign Code	Dimensions (in)	Area (sft)	Type	Posts	Removals	Station	Direction Facing	Notes
K Drive S street sign	D3-1	8x24	1.33	IIIB	1	1	0+00L	North/South	Remove and replace, put on their own post independent of stop sign
2 1/2 Mile Rd street sign	D3-1	12x36	3	IIIB		1	0+00L	East/West	
Stop	R1-1	36x36	9	IIIA	2	1	0+10L	North	Remove and replace
Stop	R1-1	36x36	9	IIIA	2	0	0+10R	North	New sign
Stop Ahead	W3-1	36x36	9	IIIB	2	1	7+46L	North	Remove and replace
Stop Ahead	W3-1	36x36	9	IIIB	2	1	70+50R	South	Remove and replace
Stop	R1-1	36x36	9	IIIA	2	0	79+47L	South	New sign

remove, replace, and add signs in accordance with this sign log



EXISTING CONDITIONS

STA 0+00 TO STA 79+47

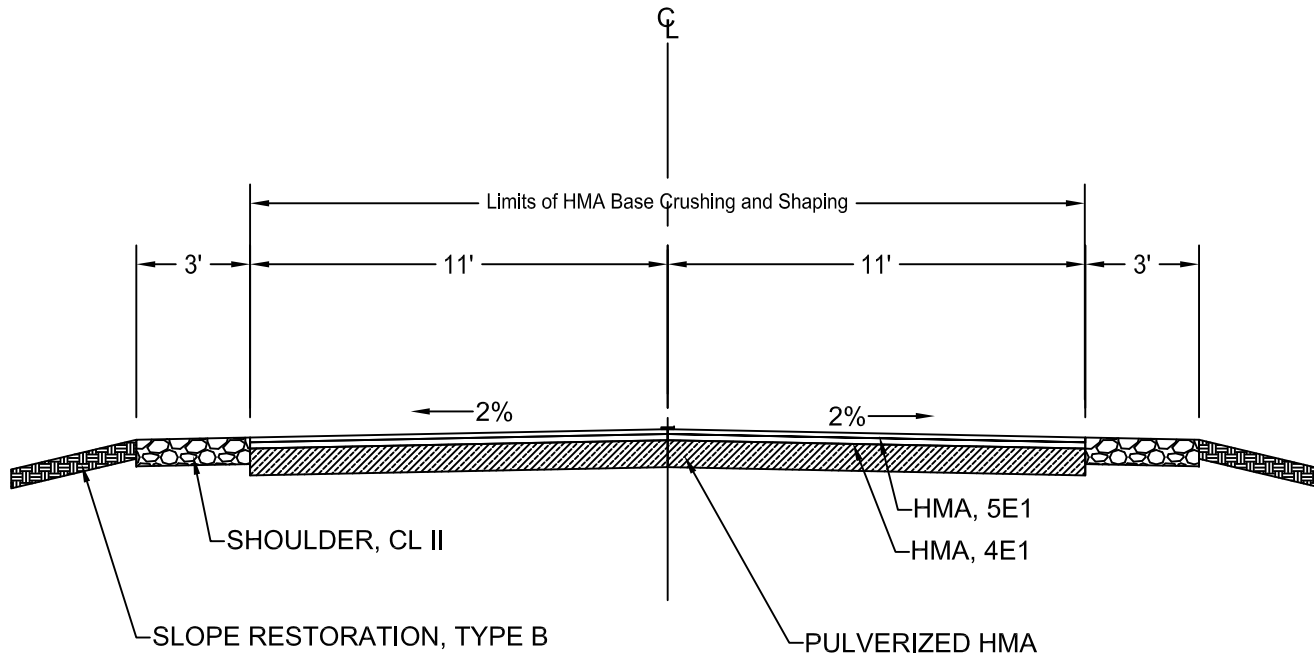


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**2 1/2 Mile Rd from
 K Drive S to H Drive S**

SCALE: 1" = 5'	PAGE: 1
DATE: 05/26/2021	
DRAWN BY: SRC	



PROPOSED TYPICAL CROSS SECTION

STA 0+00 TO STA 79+47

HMA APPLICATION TABLE

	ITEM	RATE	AWI	PERFORMANCE GRADE
TOP	HMA, 5E1	165 lb./Syd.	260	PG 64-28
LEVELING	HMA, 4E1	220 lb./Syd.	260	PG 64-28

*HMA Bond Coat 0.05-0.15 gal/syd (information only. Not bid item) *The AWI for the resurface shall be 260.



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**2 1/2 Mile Rd from
K Drive S to H Drive S**

SCALE: 1"=5'

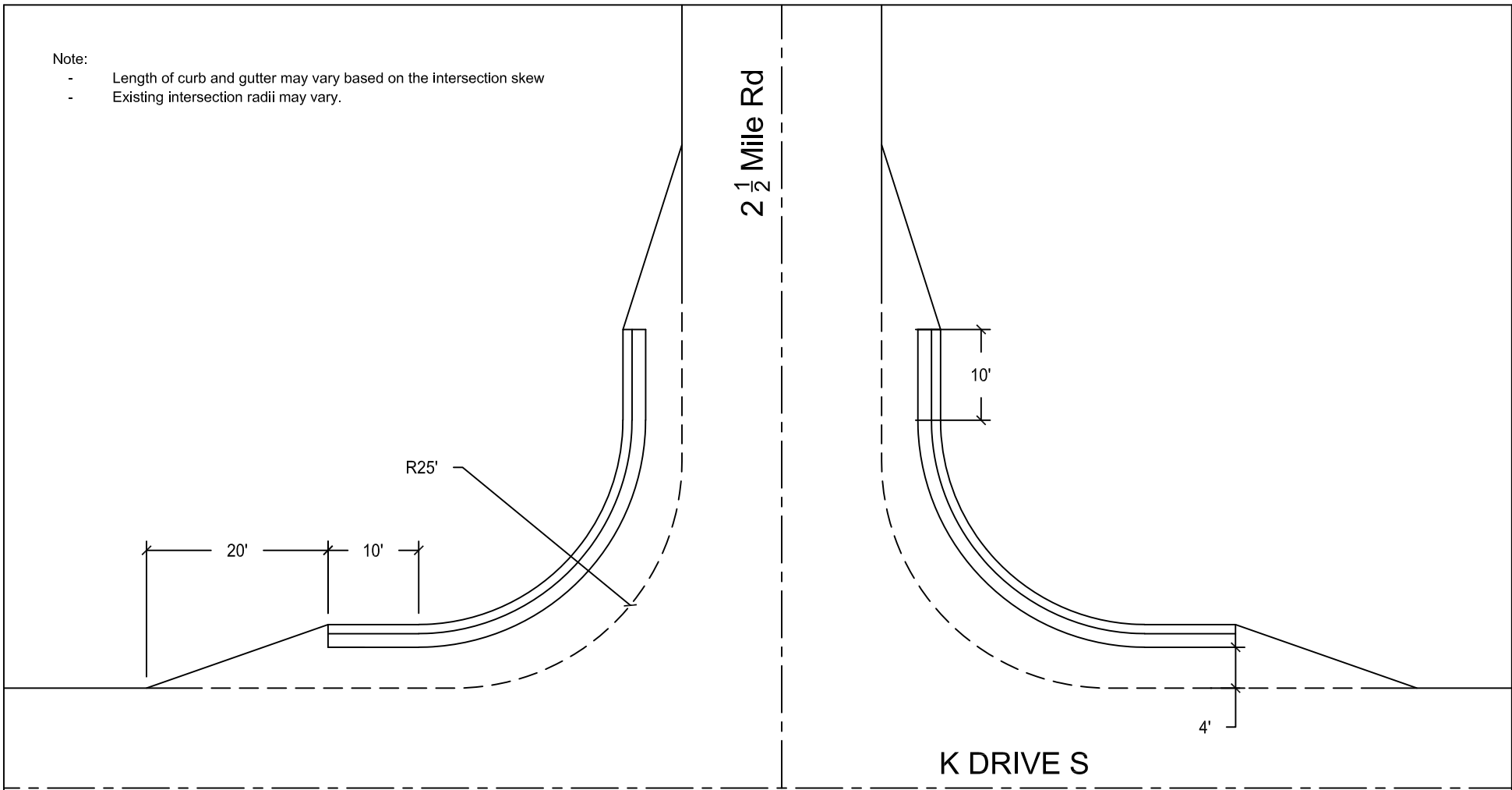
PAGE: 2

DATE: 05/26/2021

DRAWN BY: SRC

Note:

- Length of curb and gutter may vary based on the intersection skew
- Existing intersection radii may vary.

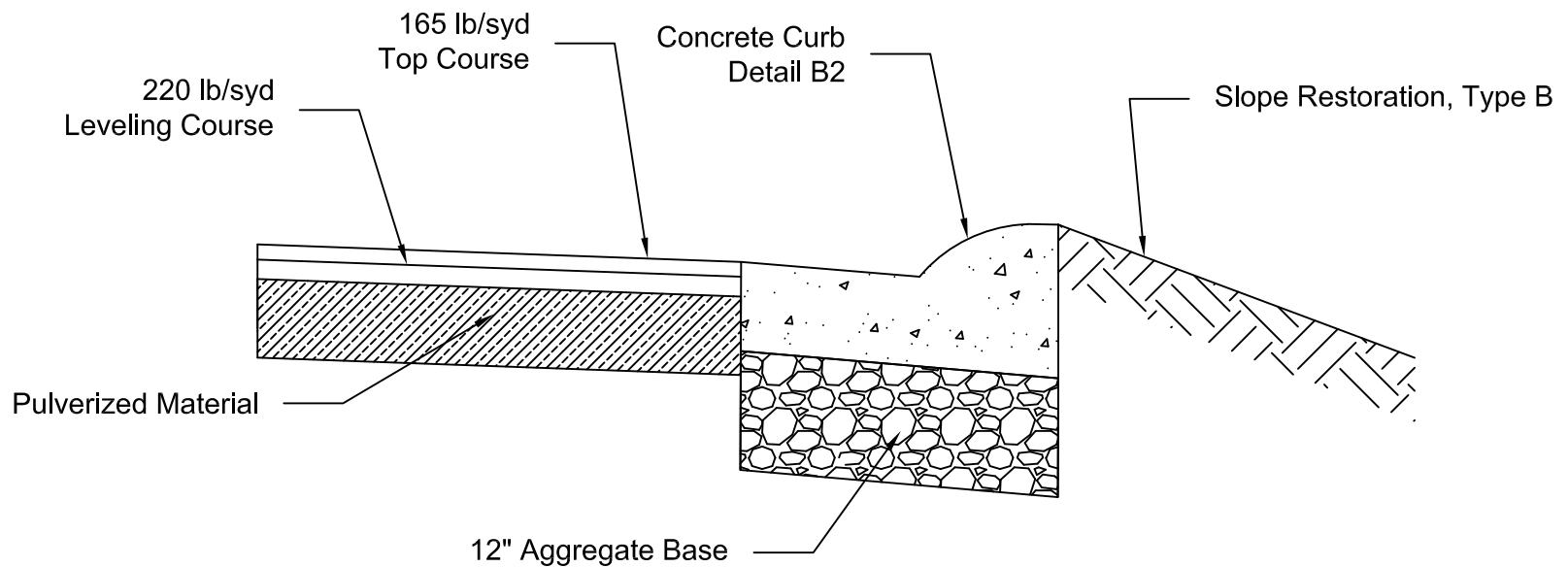


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**2 1/2 Mile Rd and K Drive S
Curb Layout**

SCALE: N.T.S.	PAGE: 2
DATE: 5/26/2021	
DRAWN BY: SRC	



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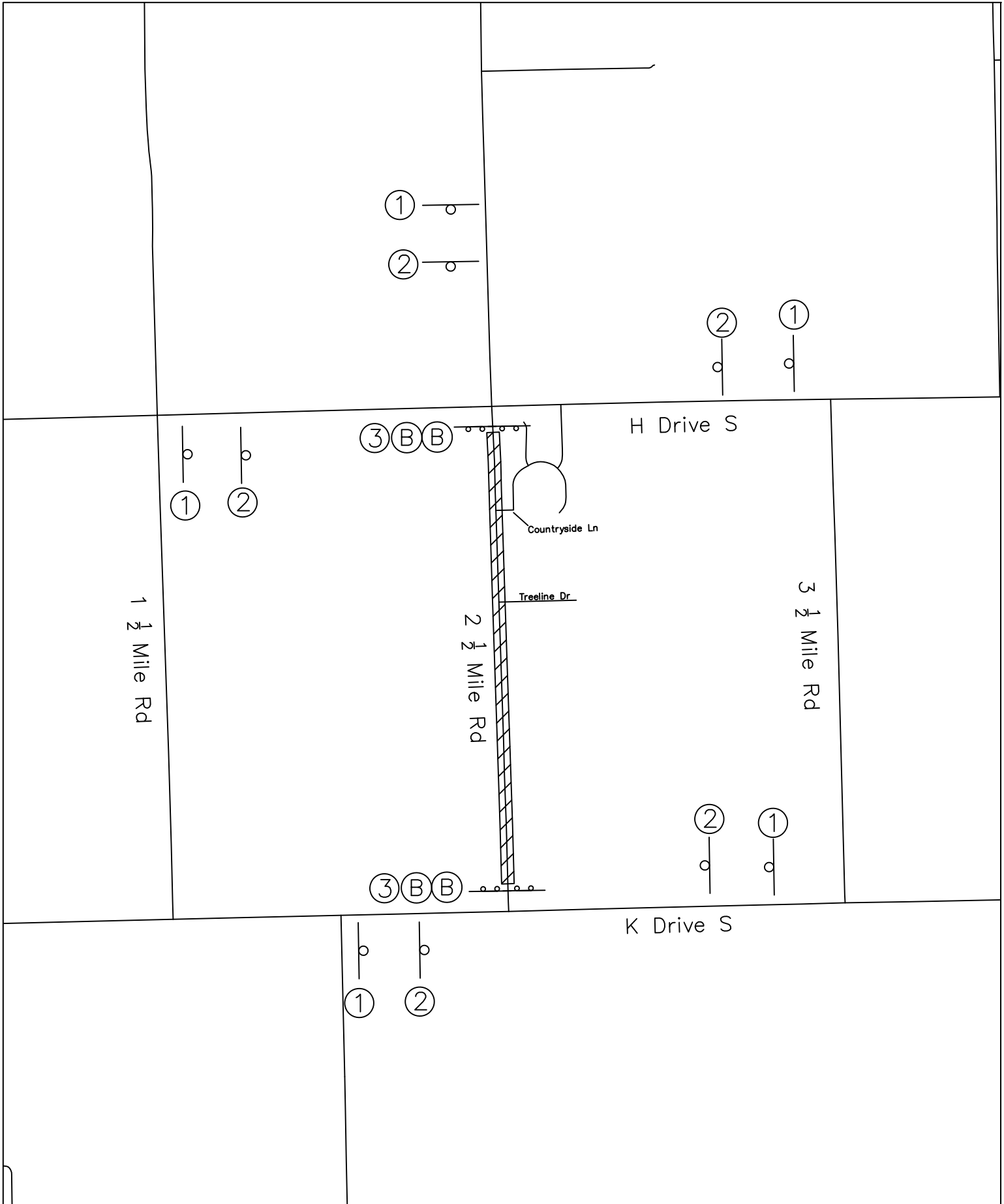
**2 1/2 Mile Rd and K Drive S
 Curb and Gutter Detail**

SCALE: N.T.S.

PAGE: 1

DATE: 5/13/2021

DRAWN BY: SRC

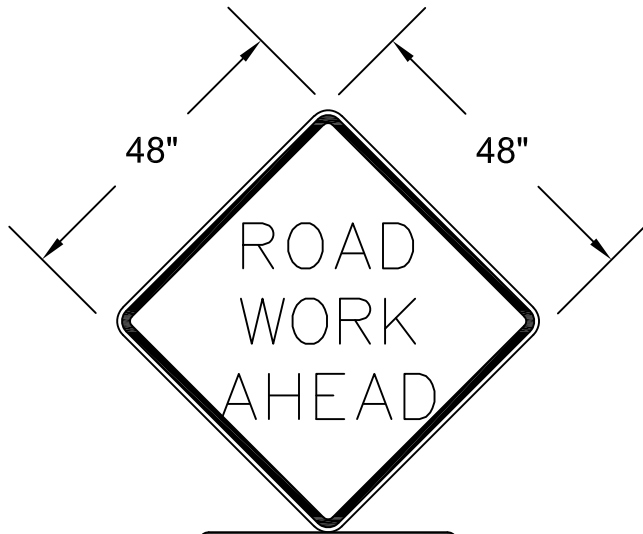


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**2 1/2 Mile Rd
 Work Zone Temporary Signs**

SCALE: N.T.S.	PAGE: 1
DATE: 05/20/2021	
DRAWN BY: SRC	



2 1/2 Mile Rd

W20-1 (5)

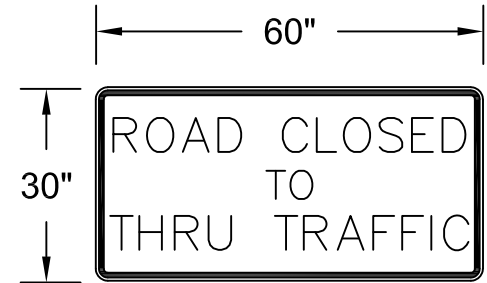
1



2 1/2 Mile Rd

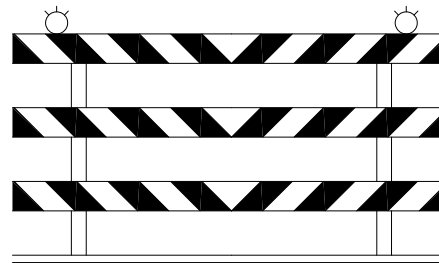
W20-3 (5)

2



R11-4 (2)

3



TYPE III BARRICADE (4)

B



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Sign Details

2 1/2 Mile Rd

SCALE: N.T.S.

PAGE: 2

DATE: 05/20/2021

DRAWN BY: SRC

List of Special Provisions

- **Slope Restoration, Non Freeway**
- **HMA Application, 3% Air Void**
- **Machine Grading, Modified**
- **Maintaining Traffic**

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
SLOPE RESTORATION, NON-FREEWAY

C&T:DMG

1 of 3

C&T:APPR:TWK:DBP:04-25-12

a. Description. This work consists of preparing all lawns and slopes on non-freeway projects designated for slope restoration on the plans or as directed by the Engineer and applying topsoil, fertilizer, seed, mulch with mulch anchor, mulch blanket, high velocity mulch blanket and permanent turf reinforcement mat to those areas. Turf establishment must be in accordance with section 816 of the Standard Specifications for Construction and Standard Plan R-100 Series, except as modified herein or otherwise directed by the Engineer.

b. Materials. The materials and application rates specified in sections 816 and 917 of the Standard Specifications for Construction apply unless modified by this special provision or otherwise directed by the Engineer. The following materials must be used on this project:

1. Seeding mixture as called for on the plans
2. Fertilizer, Chemical Nutrient, Class A
3. Topsoil Surface, Furnished or Salvaged, 4 inch. Remove any stones greater than 1/2 inch in diameter or other debris from all topsoil.
4. Mulch and Mulch Anchoring, Mulch Blanket and High Velocity Mulch Blanket
5. Permanent Turf Reinforcement Mat (TRM) must be 100 percent synthetic and consist of 100 percent ultraviolet (UV) stabilized polyolefin fibers sewn between two layers of black UV stabilized polypropylene netting with polyolefin thread. The TRM must meet the following "minimum average roll value" requirements:

Property	Test Method	Requirement
Mass/Unit Area	ASTM D 6566	10 oz/syd
Ultraviolet Stability @ 1000 hrs	ASTM D 4355	80 percent
Tensile Strength (MD)	ASTM D 6818	165 lbs/ft

Acceptance. Supply a Test Data Certification for the permanent TRM from one of the following manufacturers:

Recyclex - American Excelsior Co., Arlington, TX (800) 777-7645
P300 - North American Green, Poseyville, IN (800) 772-2040
Landlok 450 - Propex, Inc., Chattanooga, TN (800) 621-1273
PP5-10 - Western Excelsior, Mancos, CO (800) 833-8573

c. Construction. Construction methods must be in accordance with subsection 816.03 of the Standard Specifications for Construction. Begin this work as soon as possible after final grading of the areas designated for slope restoration but no later than the maximum time frames stated in

subsection 208.03 of the Standard Specifications for Construction. It may be necessary, as directed by the Engineer, to place materials by hand.

Shape, compact and assure all areas to be seeded are weed free prior to placing topsoil. Place topsoil to the minimum depth indicated above, to meet proposed finished grade. If the area being restored requires more than the minimum depth of topsoil to meet finished grade, this additional depth must be filled using topsoil or, at the Contractor's option, embankment. Furnishing and placing this additional material is included in this item of work.

Topsoil must be weed and weed seed free and friable prior to placing seed. Remove any stones greater than 1/2 inch in diameter or other debris. Apply seed mixture and fertilizer to prepared soil surface. Incorporate seed into top 1/2 inch of topsoil

Apply mulch at a rate of 2 tons per acre. Place Mulch Anchoring over the mulch at a rate specified in subsection 816.03.F of the Standard Specifications for Construction. Mulch Blanket and High Velocity Mulch Blanket must be placed in accordance with subsection 816.03.H of the Standard Specifications for Construction and as shown on Standard Plan R-100 Series.

Areas constructed with the TRM must be installed on prepared (seeded) grades as shown on the plans in strict accordance with the manufacturer's published installation guidelines. The top edge of the TRM must be anchored in a minimum 6 inch deep trench. Operation of equipment on the slope will not be allowed after placement of the TRM. No credit for splices, overlaps, tucks or wasted material will be made.

If an area washes out after this work has been properly completed and approved by the Engineer, make the required corrections to prevent future washouts and replace the topsoil, fertilizer, seed and mulch. This replacement will be paid for as additional work using the applicable contract items.

If an area washes out for reasons attributable to the Contractor's activity or failure to take proper precautions, replacement will be at the Contractor's expense.

The Engineer will inspect the seeded turf to ensure the end product is well established, weed free, in a vigorous growing condition, and contains the species called for in the seeding mixture.

If the seeded turf is not well established at the end of the first growing season, the Contractor is responsible to re-seed until the turf is well established and approved by the Engineer.

If weeds are determined by the Engineer to cover more than 10 percent of the total area of slope restoration, the Contractor must provide weed control in accordance with subsection 816.03.J of the Standard Specifications for Construction. Weed control will be at the Contractor's expense with no additional charges to the project.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
Slope Restoration, Type _____	Square Yard

1. Place **Slope Restoration, Type A** in all areas not described in the other types of slope restoration and will be measured by area in square yards in place. **Slope Restoration, Type A**

includes all labor, equipment and materials required to install Topsoil Surface, Furnished or Salvaged; Fertilizer, Chemical Nutrient, Class A; Seeding Mixture; and Mulch and Mulch Anchoring which will not be paid for separately but is included in the contract unit price for **Slope Restoration, Type A**.

2. Place **Slope Restoration, Type B** parallel (6 feet minimum) to the edge of the roadway, in areas that have a 1 on 3 slope and in any ditch with a grade less than 1.5 percent, or as directed by the Engineer. **Slope Restoration, Type B** will be measured by area in square yards in place. **Slope Restoration, Type B** includes all labor, equipment and materials required to install Topsoil Surface, Furnished or Salvaged; Fertilizer, Chemical Nutrient, Class A; Seeding Mixture; and Mulch Blanket which will not be paid for separately but is included in the contract unit price for **Slope Restoration, Type B**.

3. Place **Slope Restoration, Type C** in areas that have a 1 on 2 slope, any ditch with a grade of 1.5 percent to 3 percent or as directed by the Engineer. **Slope Restoration, Type C** will be measured by area in square yards in place. **Slope Restoration, Type C** includes all labor, equipment and materials required to install Topsoil, Furnished or Salvaged; Fertilizer, Chemical Nutrient, Class A; Seeding Mixture; and High Velocity Mulch Blanket which will not be paid for separately but is included in the contract unit price for **Slope Restoration, Type C**.

4. Place **Slope Restoration, Type D** in areas that have a slope steeper than 1 on 2, any ditch with a grade steeper than 3 percent or as directed by the Engineer. **Slope Restoration, Type D** will be measured by area in square yards in place. **Slope Restoration, Type D** includes all labor, equipment and materials required to install Topsoil, Furnished or Salvaged; Fertilizer, Chemical Nutrient, Class A; Seeding Mixture; and TRM which will not be paid for separately but is included in the contract unit price for **Slope Restoration, Type D**.

CALHOUNT COUNTY ROAD DEPARTMENT
SPECIAL PROVISION
FOR
HOT MIX ASPHALT (HMA) APPLICATION ESTIMATE

CCRD:ANK, BJK

1 of 1

04/19/2017

a. General. This work shall be done in accordance with the requirements of Section 501 of the Michigan Department of Transportation's 2012 Standard Specifications for Construction except as herein specified.

b. Construction Methods. HMA Mix shall be applied as shown in Section 501 of the Michigan Department of Transportation 2012 Standard Specifications.

- HMA, 5E1 top course shall have a yield of 165 pounds per square yard and a minimum AWI of 260.
- HMA, 4E1 leveling course shall have a yield of 220 pounds per square yard.
- The Performance Grade asphalt binder range for the HMA, 4E1 and HMA, 5E1 shall be 64-28.
- The uniform rate of application of Bond Coat material shall be 0.05 to 0.15 gal. per syd. Bond Coat shall not be a separate pay item.

c. Materials. The HMA, 4E1 and HMA, 5E1 shall meet the gradation as specified in Special Provision 12SP 501(J)-05, except the air void shall be 3%.

The Bond Coat material shall be SS-1h, per Section 501.03 of the Michigan Department of Transportation 2012 Standard Specifications.

CALHOUN COUNTY ROAD DEPARTMENT

SPECIAL PROVISION
FOR
MACHINE GRADING, MODIFIED

CCRD: SRC

1 of 1

05/18/2021

a. Description. This work shall consist of maintaining a smooth driveway access using excess pulverized material, and all topsoil stripping required to expose the edge of the existing pavement and make room for the new gravel shoulders. This work shall be performed in accordance with Section 205 of the 2012 MDOT Standard Specifications for Construction and as directed by the Engineer.

b. Construction Methods. *Machine Grading, Modified* shall include the following work:

1. Stripping all sod and topsoil a width of 3 feet from the existing pavement edge.
2. Disposal of excess material. (Approximately 422 cubic yards)
3. Maintaining a smooth driveway access.
4. Remove and replace mailbox posts as necessary (Approximately 17 mailboxes within project limits).

c. Measurement and Payment. The completed work and materials as measured for *Machine Grading, Modified* will be paid for at the contract unit price for the following:

Pay Item	Pay Unit
Machine Grading, Modified.....	Station

The item of *Machine Grading, Modified* will be paid for by the Station as described above and includes furnishing and installing all component materials as specified in the Special Provision and the project log measured along the centerline of the project road. The item of *Machine Grading, Modified* includes one side of the roadway only.

CALHOUN COUNTY ROAD DEPARTMENT

SPECIAL PROVISION
FOR
MAINTAINING TRAFFIC

CCRD: SRC

1 of 2

01-06-21

a. Description. Traffic maintenance during construction shall be in accordance with Section 104.11 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. All signs, barricades, and other traffic control devices shall be in accordance with the 2011 Michigan Manual of Uniform Traffic Control Devices (MMUTCD).

No work will be allowed on Sundays or holidays and all work must be performed during the daylight hours unless otherwise approved by the Engineer.

The road shall remain closed to thru traffic for the duration of the project. During paving and shouldering operations, local traffic shall be maintained under traffic regulator control.

b. Construction Influence Area. The Construction Influence Area (CIA) shall consist of the project right of way five-hundred (500) feet in all directions.

c. Traffic Control Devices and Restrictions. All traffic control devices and their usage must conform to Part 6 of the MMUTCD. The Contractor must review, adjust, and maintain all traffic control devices on a daily basis. The Contractor must notify the Engineer at least twenty-four (24) hours in advance of erecting construction zone signing. Access to all businesses and residences must be maintained at all times and work must be coordinated with the Engineer.

The Contractor must maintain all traffic control devices and is responsible for reviewing the adequacy and condition of all traffic control devices at least once per day for the duration of the project. Replacement and repair of the traffic control devices will be restricted to daylight hours. All signs damaged as a result of the Contractor's operations must be replaced by the Contractor at their expense.

d. Measurement and Payment. Items necessary for maintaining traffic being measured and paid for separately include:

Pay Item	Pay Unit
Minor Traf Devices	Lump Sum
Traf Regulator Control.....	Lump Sum
Channelizing Device, 42 inch, Fluorescent, Furn.....	Each
Channelizing Device, 42 inch, Fluorescent, Oper	Each
Barricade, Type III, High Intensity, Lighted, Furn.....	Each
Barricade, Type III, High Intensity, Lighted, Oper	Each
Sign, Type B, Temp, Prismatic, Furn	Square Foot
Sign, Type B, Temp, Prismatic, Oper.....	Square Foot
Sign, Type B, Temp, Prismatic, Spl, Furn	Square Foot
Sign, Type B, Temp, Prismatic, Spl, Oper	Square Foot

Signing shall be in accordance with the Michigan Department of Transportation Work Zone Device Special Details WZD-125E and WZD-100A.

PROGRESS CLAUSE

The Owner anticipates that construction can begin no earlier than

- **10 days after award**

In no case shall any work be commenced prior to receipt of formal notice of award by the Department.

The Contractor shall prepare and submit and complete, detailed, and signed MDOT Form 1130, Progress Schedule, according to 12SP-101A.

The Progress Schedule shall include, at minimum, the controlling work items for the completion of the project as well as the planned dates or work days that these work items will be controlling operations. All contracts dates including open to traffic, project completion, interim completion and any other controlling dates in the contract, must be included in the progress schedule.

If the bidding Proposal specifies other controlling dates, these shall also be included in the Progress Schedule.

All work shall be conducted during daytime hours. No work on Sundays or Holidays unless pre-approved by the Engineer.

Work must be continuous and progressive.

Road shall have the top course of HMA, 5E1 paved within 2 weeks of HMA Base Crushing and Shaping.

Road shall have Pavt Mrkg, Waterborne, 4 inch, Yellow applied within 2 weeks of the top course of HMA, 5E1 being paved.

The Project shall be fully open to traffic

- **On or before September 1, 2021**

Final site restoration shall be completed

- **On or before May 15, 2022**

After award and prior to the start of work, the Contractor must attend a preconstruction meeting with the Engineer. The Engineer will determine the day, time and place for the preconstruction meeting. The meeting will be conducted after project award and may be rescheduled if there are delays in the award of the project. The named subcontractor(s) for Designated and/or Specialty Items, as shown in the Proposal, should attend the preconstruction meeting if such items materially affect the work schedule.

Liquidated Damages shall be assessed in accordance with Section 108.10 of the 2012 Standard Specifications for Construction.

Notice to Bidders – Utility Coordination

The contractor shall cooperate & coordinate construction activities with the owners of utilities as stated in Section 104.08 of the 2012 MDOT Standard Specifications for Construction. In addition, for the protection of underground utilities, the contractor shall follow the requirements in Section 107.12 of the 2012 MDOT Standard Specifications for Construction. Contractor delay claims resulting from a utility will be determined based upon Section 108.09 of the MDOT Standard Specifications for Construction.

For protection of underground utilities and in conformance with Public Act 174 of 2013, the contractor shall dial 1-800-482-7171 a minimum of three full working days, excluding Saturdays, Sundays and holidays prior to beginning each excavation in areas where public utilities have not been previously located. Members will thus be routinely notified. This does not relieve the contractor of the responsibility of notifying utility owners who may not be a part of the “MISS DIG” alert system.

Public Utilities

The following public utilities have facilities located within the right-of-way:

AT&T

2919 Millcork St., Room 101
Kalamazoo, MI 49001
Carrie DeMott – (269) 384-4472

Semco

15851 Helmer Road S.
Battle Creek, MI 49015
Julie Conant – (269) 209-3721

Consumers Energy

311 E. Michigan Ave.
Battle Creek, MI 49017
Jesse Burns – (269) 337-2311
Kyle Oak – (269) 337-2366

Calhoun County Water Resources

315 W Green St.
Marshall, MI 49068
Ron Smith – (269) 781-0790

The owners of existing service facilities that are within grading or structure limits will move them to locations designated by the Engineer or will remove them entirely from the roadway right of way. Owners of public utilities will not be required by the CCRD to move additional poles or structures in order to facilitate the operation of construction equipment unless it is determined by the Engineer that such poles or structures constitute a hazard to the public or are extraordinarily dangerous to the Contractor's operations.