

# **Soil Loss Report**

**For:**

**Cottage Grove Elementary School**

**PREPARED BY:**



**Point *of* Beginning**

**4941 KIRSCHLING COURT  
STEVENSON POINT, WI 54481  
(715) 344-9999 ■ (715) 344-9922**

**Project Number 26.0003**

**Located in:**

**Village of Cottage Grove  
Dane County, Wisconsin**

**Dated:**

**February 25, 2026**

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- B.** Slope Determination Map

**SOIL LOSS REPORT**  
Cottage Grove Elementary School  
Village of Cottage Grove, Wisconsin

**1.0 Introduction**

This soil loss report is being prepared to determine the sediment discharge in tons per acre per year in accordance with NR 151.11(6m)(b)2 for the proposed Cottage Grove Elementary School Bus Loop project. The project is located at 470 N Main Street, Cottage Grove, WI 53527.

The proposed project consists of constructing a new bus loop around the existing school building. Concrete walk connections will be constructed to provide fluid pedestrian access around the building. Additionally, the site will be graded for stormwater management best management practices.

**2.0 Schedule**

Grading is scheduled for approximately two months of bare soil followed by stabilization through temporary seeding/mulching. Sediment tracking pads, silt fence, erosion control matting, ditch checks, and inlet protection will be utilized throughout the project to minimize sediment transport.

**3.0 Modeling Results**

The project site's existing and proposed grading was analyzed to determine the worst-case soil loss scenario by modeling the site's longest and steepest existing and proposed slopes

<b>Worst Case Existing Slope</b>		<b>Worst Case Proposed Slope</b>	
<b>Slope</b>	<b>Slope Length</b>	<b>Slope</b>	<b>Slope Length</b>
<b>17.8 %</b>	<b>114 ft</b>	<b>6.9 %</b>	<b>384 ft</b>

The proposed project's slopes and slope lengths, along with other site parameters, were entered into the Soil Loss & Sediment Discharge Calculation Tool – WDNR Official Version 2.0. According to the USDA Web Soil Survey, soils at the site are primarily Dodge silt loam and Kidder loam. However, according to the geotechnical exploration that was conducted onsite, soils are primarily sand.

Entering the data into the Soil Loss & Sediment Discharge Calculation Tool, the site results in a maximum sediment discharge of 4.2 tons/acre/year. Therefore, the project meets the required maximum sediment discharge rate of 5.0 tons/acre/year.

**4.0 Prescriptive Compliance**

All proposed areas that have a slope of 5:1 or greater will have Class II, Type B erosion mat to prevent loss/migration from the project site.

# **Attachment A**

## **Soil Loss & Sediment Discharge Calculation Tool**



# Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin



WDRN Version 2.1 (12-05-2024)

**YEAR 1**

Developer: Monona Grove School District  
 Project: Cottage Grove Elementary School  
 Date: 02/25/26  
 County: Dane

Version 2.1

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	06/08/26	07/06/26	20.0%	150	Sand	0.15	17.8%	114	3.70	1.00	16.6	0.651	Sediment Trap	2.2
Bare Ground	07/06/26	08/14/26	27.4%	150	Sand	0.15	6.9%	384	1.59	1.00	9.8	0.957	Sediment Trap	1.9
Seed with Mulch or Eri	08/14/26	12/13/26	27.9%	150	Sand	0.15	6.9%	384	1.59	0.10	1.0	0.957	Sediment Trap	0.2
End	12/13/26	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	Sediment Trap	0.0
		-----	-----	-----	-----	-----	-----	0	-----	-----	-----	0.000		0.0
		-----	-----	-----	-----	-----	-----	0	-----	-----	-----	0.000		0.0
<b>TOTAL</b>											<b>27.4</b>		<b>TOTAL</b>	<b>4.2</b>
													<b>% Reduction Required</b>	<b>NONE</b>

**Notes:**  
 See Help Page for further descriptions of variables and items in drop-down boxes.  
 The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.  
 For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

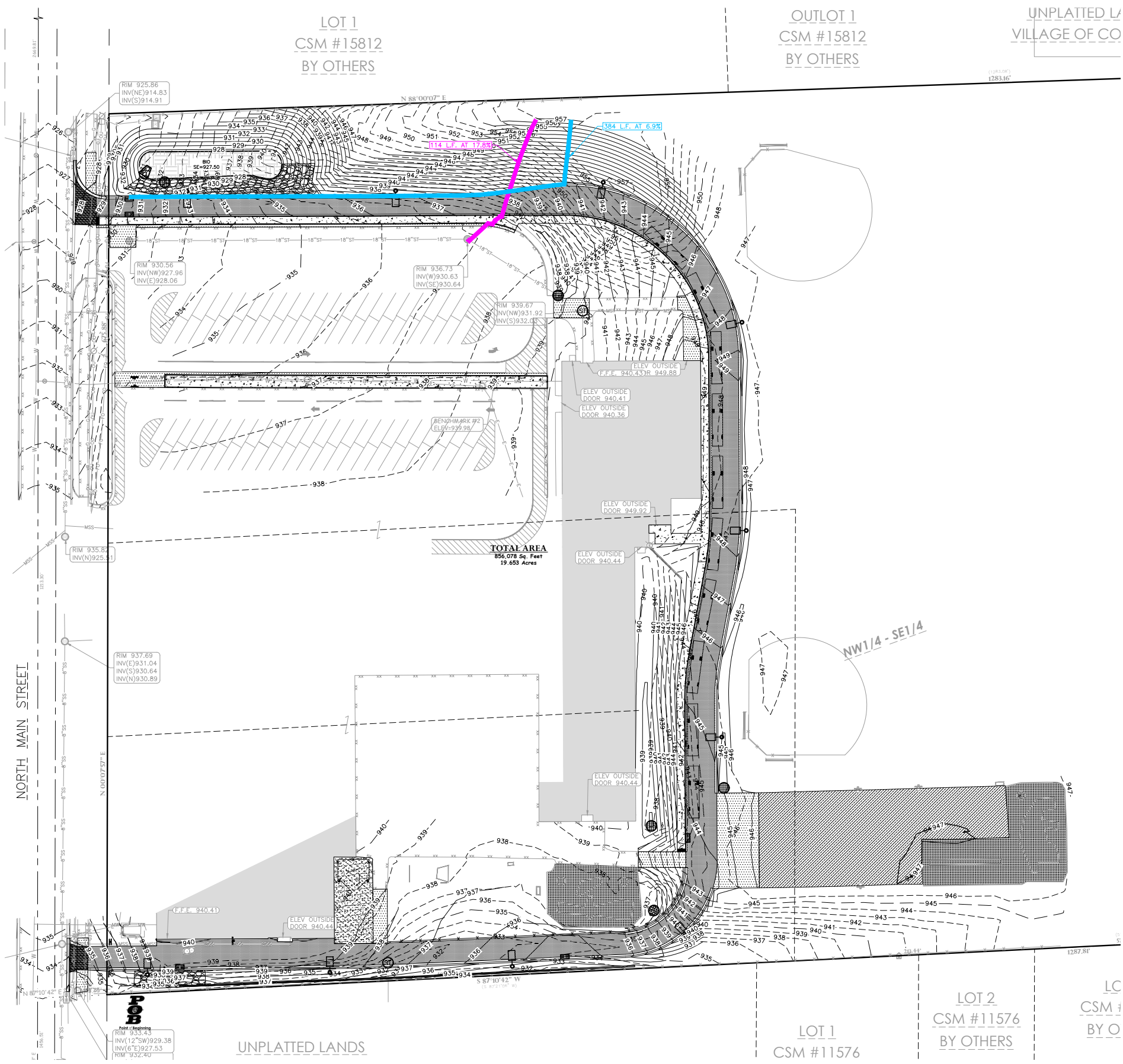
**Recommended Permanent Seeding Dates:**

4/1-5/15 and 8/7-8/29 Turf, introduced grasses and legumes  
 Thaw-6/30 Native Grasses, forbs, and legumes

Designed By:	Anna Blake
Date	2/25/2026

# **Attachment B**

## **Slope Determination Map**



**SOIL LOSS CALCULATIONS:**

EXISTING SLOPE: —————  
 PROPOSED SLOPE: —————

REVISIONS	
CHECKED:	JL
DRAWN:	AB
DATE:	02/25/2026
PROJECT NO.:	26.0003

**USLE SOIL LOSS**

**MONONA GROVE SCHOOL DISTRICT  
 COTTAGE GROVE BUS LOOP  
 VILLAGE OF COTTAGE GROVE  
 DANE CO, WISCONSIN**

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