

## Temporary Erosion Control Provision guidance

### Purpose of using the provision:

The purpose of the lump sum erosion control specification is to reduce the environmental impacts of road construction projects. The lump sum pay item provides a contractual incentive for utilizing in place vegetation longer, relying on temporary BMPs less, and establishing permanent vegetation sooner. This minimizes environmental risk because it decreases the amount of time the worksite is exposed under temporary BMPs and most susceptible to erosion. A secondary benefit of the specification is reduced contract administration workload as temporary BMPs no longer have pay items that need field measurement and quantity documentation.

For districts using the provision please contact Brett Troyer, Office of Environmental Stewardship for assistance and to document these projects.

### Considerations for using the Provision:

- Not intended for large, complex projects or those with high environmental risk (CMGC may be an option).
- Contractors' operations influence temporary practices.
  - Multiple stages
  - Multiple years
  - Length of project (in miles)
- Bridge projects
- Mill overlay with culvert replacement and turn lanes
- More lead times may be needed from award to start times, depending on the temporary SWPPP development by the contractor (provide 3 to 4 weeks lead time)

### MnDOT responsibilities for the Plan:

MnDOT District staff will design and prepare plans for permanent erosion and sediment control BMP's. This will follow MnDOT's normal procedures for design-bid-build projects. Quantities related to the permanent BMP's will be included in the bid tabulation included in the plan set.

MnDOT district staff will prepare separately the preliminary temporary erosion and sediment control plans, tabulations, and quantities along with the SWPPP narrative plan sheet. These plans may need to include staging sheets depending on the complexity and traffic control for the project. These preliminary plans are for information only and not part of the contract documents. These will be included into the Reference Information Document (RID) similar to the design build process.

The temporary erosion and stormwater management is a lump sum bid pay item and the preliminary tabulations and quantities are needed for the Engineers estimate. Provide these tabulations and quantities to the Estimating Section.

### Completing the Provision:

Define contractor deliverables of each notice to proceed in the provision including dates.

#### Project Permits

Complete the Table 1 as needed for the project.

MnDOT District may hold a pre bid meeting early in the bid process to discuss the performance temporary erosion and sediment control specification and the associated expectations with the contractors. If the district decides that a pre-bid meeting will be held, include this in the Provision.

#### Rain Gauges

The default number of rain gauges is 1. This may be modified to the projects size to increase or decrease the number. Please provide a number in the provision.

#### Extreme Rainfall Event

Rainfall in a 24 hour period exceeds a total of 3 inches is the default event. This may be modified to the area of the state using Atlas 14 rainfall date. The link is below

[http://hdsc.nws.noaa.gov/hdsc/pfds/pfds\\_map\\_cont.html?bkmrk=mn](http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=mn)

#### Incentive payment

The default is 10% of the bid item. The bonus is optional with the amount set for each individual project based on contract amount, duration, complexity of project, etc.

#### RID;

Decision Tree Document (attachment)

Temporary Erosion and Stormwater Management plan sheets

Temporary Erosion control SWPPP narrative

Locate rain gauges on plan sheets in this document.

#### **NPDES Permit:**

For project requiring formal review by the MPCA:

MnDOT will submit all information regarding permanent BMP's, final stabilization, preliminary temporary erosion and sediment control plans and the preliminary SWPPP for the 30 day project review.

The contractor will submit the final temporary erosion and sediment control plans and the final temporary SWPPP narrative prior to proceeding with the project. These will be the SWPPP documents for the project as amended from the RID documents. The Contractor is responsible for the permit application and payment. SWPPP amendments will be submitted to MnDOT throughout the project.

For higher risk projects consider a pre-activity planning discussion prior to construction as noted in MnDOT "Partnering Field Guide". This Partnering Field Guide is located on the OCIC web page.

<http://ihub/construction/residents/related-docs-resources.html>