

803.00 SEEDING

803.01 SEEDING CHECKLIST

SSHC Reference:

Section 803 -- Seeding Special Provisions

Other References:

Project seeding Record CDR-61, Section 804,
Section 805

Inspection Crew:

Seeding Procedures:

1. Give the seeding quantities to the contractor and Roadside Development.
2. The seed will be mixed at the seed company and tagged with department furnished tags.
3. Fertilizer is usually furnished bulk and must have the bulk fertilizer form DR125 (Appendix 1). If it is delivered mixed and bagged it still needs the form. If it is delivered bagged in its separate components, the label on the bag will be enough.
4. Native grass drill must have either press wheels or drag chains (this is important -- the press wheels firm the seed bed and drag chains make sure the seed is covered)
- 4A. Other seeding equipment -- hydro-seeder - big squirt gun -- must have agitation. Brillion -- seed box that drops seed between two corrugated rollers
5. Mulching equipment like cultipacker, crimper, mulch stabilizer, and mulch spreader should be inspected to confirm proper operation.
6. Tillage equipment -- many shapes, sizes and descriptions, (common -- disc and field cultivator
7. Soil preparation -- the PM must release the area to be seeded -- no preparation is to begin until the finish grade has been approved!
8. Does maintenance have to fix and regrade areas? Notify the maintenance superintendent -- ahead of time! (*SSHC Subsection 803.03*)
9. Is there a heavy weed growth that needs to be mowed? (*SSHC Subsection 803.05*)
10. Mulch -- does the contractor have the proper mulch (some projects are specified prairie hay only)

11. Does the mulch have the noxious weed inspection certificate (*SSHC Subsection 805.02*)
12. Has the mulch been weighed in? (*SSHC Subsection 805.04*)
13. Seed bed preparation and seeding procedures:
for drilled seed:
 - a. Fertilize
 - b. Disc
 - c. Or disc and then fertilize
 - d. Harrow - several discings & harrowings may be necessary to produce a firm seed bed
 - e. Seed
 - f. Mulch
 - g. Crimp mulch

for hydro-seeding and broadcast seeding

- a. Fertilize
- b. Disc
- c. Or disc and then fertilize
- d. Harrow - several discings & harrowings may be necessary to produce a firm seed bed except if too steep to operate equipment on
- e. Seed
- f. Harrow seed into the soil unless too steep
- g. Mulch & crimp or hydro mulch

for Brillion seeding --

- a. Same as for drilled seed (unless it is hydro-mulched)

General

- b. Some hydro-seeding is done on very steep slopes that must be left in a roughened condition by the grader, or there is no way to make a seed bed.

- c. "Rule of Thumb" --

Whatever is seeded in a day must also be mulched and crimped in that same day."
Exceptions -- unexpected rain -- pay attention to the weather reports and conditions

- d. Inspection tip for mulch

Establish a 1 hectare (2 ½ acre) or small 0.4 hectare (1 acre) plot for mulch. Mulch and crimp this area and use it for a reference
- e. Send in the project seeding record to Roadside Development upon completion of seeding
- f. Please remind the seeding contractors to do a good job of cleaning out the seeding drills when changing from Type "A" to Type "B". Type "A" has taller grasses than we want on our shoulder areas.
- g. Changing from Type "B" to Type "A" does not require a clean out.

803.02 PERMANENT SEEDING DATES

The normal periods for permanent seeding are from March 1 to June 30 and from August 1 to December 31 or freeze up. These dates may be modified by the Special Provisions.

803.03 PREPARATION OF SEED BED

Before seeding operations commence, care should be taken to properly prepare the area to be seeded. Areas around culvert headwalls and wingwalls, shoulders, flumes, sign posts, guardrail, and other structures require special attention. The seed bed shall be worked to a depth of at least 50 mm (2 inches) deep.

803.04 SEED

The seed is mixed at the seed company and overseen by Roadside Development.

The following items should be noted when inspecting hydroseeding:

A fanning motion or horizontal motion of the seeding nozzle insures uniform application of the seed. Do not use an up and down motion; it results in seed application too heavy near the seeder and too thin at the far reach of the spray.

The seeder tank must be cleaned when changing seed mixtures.

@

The seed measurements should be discussed at the preconstruction conference and a date established as to when they would be provided to the contractor. The Department normally will buy any excess seed. Pay for what we want and get.