



City of Oakdale  
1584 Hadley Avenue North  
Oakdale, MN 55128

**ENGINEERING SPECIFICATION  
CITY OF OAKDALE NO. 2575**

**TURF ESTABLISHMENT**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  - 1. Establishment of herbaceous ground cover on designated areas.
- B. Related Sections:
  - 1. MN/DOT Specification 2105: Excavation and Embankment
  - 2. MN/DOT Specification 1803.5: Temporary Erosion Control
- C. Method of Measurement:
  - 1. Fertilizer: Measure by weight in pounds of each mixture applied.
  - 2. Seed: Measure by the area seeded in acres.
  - 3. Seeding: Measure by the area seeded in acres.
  - 4. Seeding with Erosion Control Blanket: Measure by the area seeded in square yards.
  - 5. Mulch: Measure by weight in tons.
  - 6. Water: Water for turf establishment will be considered incidental.
  - 7. Disc Anchoring: Measure the area in acres.
  - 8. Erosion Mats: Measure by area covered in square feet.
  - 9. Sodding: Measure by area sodded in square yards.
- D. Basis of Payment:
  - 1. Payment for acceptable quantities of turf establishment shall be at the contract unit price as listed on the Bid Form. All associated work items shall be considered incidental.

**1.02 REFERENCES**

- A. MN/DOT:
  - 1. MN/DOT Specification 2575: Turf Establishment
  - 2. MN/DOT Specification 3881: Commercial Fertilizer

**1.03 SUBMITTALS**

- A. Submit certified test report for each seed mixture.



- B. Submit certification from the grower stating the grass varieties contained in the sod.

**1.04 ACCEPTANCE OF WORK**

- A. Turf establishment will be accepted on a total project basis, after designated maintenance period.
- B. All erosion control items must also be in place and properly maintained prior to acceptance.
- C. Once accepted, Contractor is relieved of any further maintenance or repair.

**1.05 DELIVERY, STORAGE AND HANDLING**

- A. Protect seed from moisture prior to use.
- B. Deliver sod to project site within 24 hours after cutting.
- C. Place sod on the same day it is delivered.

**1.06 SCHEDULE OF WORK**

- A. Coordinate turf establishment to minimize lag time after topsoil placement.
- B. Plant seed according to MN/DOT Specification 2575: Controlling Erosion and Establishing Vegetation 2575.3A2 Table 2575-1:

Seed Mixture Number	Season of Planting	
	Spring	Fall
100	---	Aug.1 – Oct.1
110	May 1 – Aug. 1	---
150, 190	April 1 – July 20	July 20 – Oct. 20
240,250,260,270	April 1 – June 1	July 20 – Sept. 20
280	April 1 – Sept. 1	---
310,325,328,330,340,350	April 15 - July 20	Sept. 20 – Oct. 20

- C. Place sod between May 5 and June 10 or between August 10 and November 1.

**1.07 MAINTENANCE**

- A. Maintain and repair all areas until acceptance.



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- B. Apply water to saturate soil to one (1) foot depth.
- C. Rewater if soaking rain does not occur after three (3) days.
- D. Maintain adequate soil moisture in the upper one (1) foot for three (3) weeks after sodding or seeding.
- E. Allow soil moisture to drop after three (3) weeks.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Seed:
  - a) MN/DOT Specification 3876, Type 260: Seed.
- B. Sod:
  - a) MN/DOT Specification 3878: Sod.
- C. Fertilizer:
  - a) MN/DOT Specification 3881: Fertilizer.
  - b) Slow-release Nitrogen Type.
  - c) NPK:20-0-10 (phosphorus free).
- D. Mulch:
  - a) MN/DOT Specification 3882: Mulch Material.
- E. Polypropylene Plastic Netting:
  - a) MN/DOT Specification 3883: Erosion Control Netting
- F. Wood Fiber Blanket:
  - a) MN/DOT Specification 3885, Category 3: Erosion Control Blankets.
- G. Non-Degradable Erosion Control Blanket – Shall be Enkamat 7010 or approved equal.

## **PART 3 EXECUTION**

### **3.01 SOIL PREPARATIONS**

- A. Remove all undesirable weeds as directed.
- B. Loosen topsoil on all areas with 2:1 slopes or flatter prior to seeding or sodding.



- C. Cultivate to a depth of three (3) inches using discs or other suitable equipment.
- D. Operate equipment at right angles to direction of drainage.
- E. Fill all washouts prior to cultivation.
- F. Finish all areas to provide a smooth, moist, even texture foundation of uniform density.

### 3.02 CONSTRUCTION REQUIREMENTS

- A. Applying Fertilizer and Conditioners.
  - 1. Apply fertilizer uniformly over the designated area using mechanical spreading devices.
  - 2. Apply fertilizer at a rate of 150 pounds per acre.
  - 3. Apply fertilizer prior to placing sod.
  - 4. Apply fertilizer no more than 48 hours prior to seeding.
  - 5. Apply fertilizer with drop spreader.
- B. Sowing Seed:
  - 1. Apply seed mixture over designated areas at a rate of 100 pounds per acre.
  - 2. Apply seed uniformly by mechanical or hydrospreading method.
  - 3. Firm all seeded areas with a drag or cultipacker immediately after seeding and prior to mulching.
- C. Disc Anchoring:
  - 1. Apply mulch in accordance with MN/DOT Specification 2575.3F: Controlling Erosion and Establishing Vegetation – Construction Requirements.
  - 2. Anchor Type 1 mulch with a disc that punches the mulch two (2) to three (3) inches into the soil.
  - 3. Spread mulch uniformly by mechanical means at a rate of 2.5 tons per acre.
  - 4. Anchor mulch immediately after placement.
- D. Placing Sod:
  - 1. Prepare sodding areas prior to delivery of sod.
  - 2. Place sod strips at right angles to direction of drainage.
  - 3. Place sod strips with staggered end of joints.
  - 4. Water and roll sod immediately after placement.
  - 5. Complete repair of sodded areas as directed within five (5) days after placement.
  - 6. Stake sod on slopes to prevent displacement.



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E. Placing Erosion Mats:

1. Wood Fiber Blankets:

- a. Place blankets within twenty-four (24) hours after seeding.
- b. Overlap strip ends ten (10) inch minimum with upgrade strip on top.
- c. Bury upgrade end of each strip minimum six (6) inches into soil.
- d. Secure with wire staples placed at maximum 3-foot spacing.

**3.03 CLEANUP AND PROTECTION**

- A. Sweep up spilled fertilizer.
- B. Do not apply water to spilled fertilizer.

**END OF SECTION**