

GUIDE SPECIFICATION FOR PERMANENT SLOPE SEEDING

Section 0815016

PERMANENT FLAT/SLOPE HYDROSEEDING

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a seed mix applied to sloped area requiring sustained vegetation.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from weather damage, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. HYDROSTRAW LLC. – 22110 S. SR-27 – ROCKFORD WA 99030, 800-545-1755 (Fax 815-468-7450) www.hydrostraw.com
info@hydrostraw.com

2.02 MATERIALS

- A. Mixed sustainable slope seed: The Vegetator West and East Mixes by HydroStraw LLC should be applied at a minimum rate of 50lbs/acre (1.15lbs/1000 square feet) with the following characteristics.
1. Material: Permanent and temporary seed varieties. (species – variety)
 - Crested Wheat Grass – Hycrest II
 - Tall Fescue – Fawn
 - Tetraploid Ryegrass – Prana
 - Alkaligrass – Fults II

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- Timothy – Climax
 - White Clover – Dutch
 - Crimson Clover – Common
 - Yellow Blossom SC – Common
 - Radish – Daikon
 - Canola – Common
 - Hairy Vetch – Common
 - Buckwheat – Common
 - Triticale – TriCal 718
 - Millet - German
2. Inert Material: Less than 1%.
 3. Other Crop Seed: Less than .5%.
 4. Weed Seed: Less than 1%.
 5. Packaging: 50lb Polywoven bags.

B. HydroStraw® All In 1 Technology Bonded Fiber Matrix: Apply according to manufacturer recommendations. This product should be applied at a minimum rate of 4000lbs/acre (92lbs/1000 square feet).

C. Fertilizer:

Mulch lbs / Acre	Nutrients Delivered lbs / Acre
4000 lbs / ac	N(40 lbs) P(40 lbs) K(40 lbs)
5000 lbs / ac	N(50 lbs) P(50 lbs) K(50 lbs)
6000 lbs /ac	N(60 lbs) P(60 lbs) K(60 lbs)

E. Soil Amendments: Should be applied per Soil Test Recommendations.

F. Equipment shall have a built in mechanical agitation system and operating capacity sufficient to agitate, suspend, and homogeneously mix a slurry containing not less than 70lbs or organic mulching amendment plus fertilizer and solids for each 100 gallons of water.

PART 3 EXECUTION

3.01 SUBSTRATE PREPARATION

A. Examine substrates and conditions where material will be applied. Do not proceed with installation until unsatisfactory conditions are corrected, only apply product to geotechnically stable slopes that have been designed and

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built to divert the water shed away from the face of the slope, therefore eliminating surface flow energy from above from damaging the face slope.

- B. All slope gradients should be prepared to agricultural standard recommended by the Department of Agricultural within the state where the work is being performed. If needed, agricultural lime or pelletized lime should be added during the slope preparation stage at the rate recommended according to soil analysis. Apply agricultural lime or pellet lime at a rate of 2000lbs per acre if no soil analysis has been performed.
- C. Examine related work including irrigation and grading of surface before proceeding with any work and notify the Engineer in writing on conditions which may prevent the proper execution of this work. All grading or tracking on slopes should be performed so that all cleats are running perpendicular to the flow of water down the hill.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations.
- B. Mix the seed, soil amendments, and commercial fertilizer with a small amount of the HydroStraw® All In 1 Technology Bonded Fiber Matrix for visual metering and apply along the areas to be vegetated being sure to apply seed and amendments at the specified rates. The Vegetator West Mix should be applied to in Western Climates while The Vegetator East Mix should be used in Eastern Climates. Both mixtures can be applied from Early Spring, Summer, and even in Fall at a minimum of 50lbs per acre (1.15lbs/1000 square feet).
- C. Mix and apply the HydroStraw® All In 1 Technology Bonded Fiber Matrix at a rate of 75lbs per 100 gallons of water for hose work or 100lbs per 100 gallons of water for tower work over freshly seeded areas. Hydromulch should be applied in multiple directions so that shadowing does not occur and to insure uniformity of the application. Confirm the loading rates with equipment manufacturers. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.
- D. Exercise special care to prevent any of the slurry from being sprayed onto any hardscape areas including concrete walks, fences, walls, buildings, etc. Remove all slurry sprayed onto these surfaces immediately.

3.03 MAINTENANCE

- A. Frequent light irrigation will need to be applied to seeded areas if no natural rain events have occurred within one week of hydroseeding. Water should be applied long enough to moisten the soil thoroughly to the depth of the slurry mulch taking care not to super saturate or wash away the slurry and seed.

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- B. After seed germination has occurred and plants are visible the frequency of irrigation (if applicable) should be cut back with heavier application rates still making sure not to super saturate or wash away the slurry and seed.
- C. Repair all seed washings and erosion.
- D. Future fertilization should occur whenever applicable at the recommended rate based on soil analysis with a low Nitrogen fertilizer.
- E. Increased mulch rates will facilitate increased moisture retention.

END OF SECTION

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