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SUPPLEMENTAL SPECIFICATION**SECTION 645 – EROSION CONTROL**

This Supplemental Specification updates the current Section 645 specification by revising Permanent Erosion Control to Erosion Control Products (Rolled Erosion Control Products), clarifies the Mulch section, and amends/adds pay items and descriptions.

Amend 1.1 to read:

1.1 Erosion Control Products. This work shall consist of furnishing and placing hay mulch, bark mulch, “Rolled Erosion Control Products” (RECP), or other material, to provide soil stabilization and/or erosion control on slopes or in channels at locations shown on the plans or where ordered.

1.1.1 Temporary Slope Stabilization Type A shall be a temporary, photodegradable or biodegradable RECP specified for protection of slopes of 3:1 or flatter. This material may also be specified for temporary protection of channels expected to experience flow-induced shear of 1.5 lbs/ft² or less. These products shall maintain their functional integrity for a minimum of 12 months and then degrade.

1.1.2 Temporary Slope Stabilization Type B (Wildlife friendly) shall be a temporary, biodegradable RECP specified for protection of slopes of 3:1 or flatter in areas where wildlife ensnarement is a concern. This material may also be specified for temporary protection of channels expected to experience flow-induced shear of 1.5 lbs/ft² or less. These products shall maintain their functional integrity for a minimum of 12 months and then biodegrade.

1.1.3 Temporary Slope Stabilization Type C shall be a temporary, photodegradable or biodegradable RECP specified for protection of slopes of 1½:1 or flatter. This material may also be specified for temporary protection of channels expected to experience flow-induced shear of 2.0 lbs/ft² or less. These products shall maintain their functional integrity for a minimum of 12 months and then degrade.

1.1.4 Temporary Slope Stabilization Type D (Wildlife friendly) shall be shall be a temporary, biodegradable RECP specified for protection of slopes of 1½:1 or flatter in areas where wildlife ensnarement is a concern. This material may also be specified for temporary protection of channels expected to experience flow-induced shear of 2.0 lbs/ft² or less. These products shall maintain their functional integrity for a minimum of 12 months and then biodegrade.

1.1.5 Permanent Channel Stabilization Type A shall be a permanent “Turf Reinforcement Mat” (TRM) specified for permanent protection of channels or ditches that are expected to experience flow-induced shear of 3.0 lbs/ft² or less.

1.1.6 Permanent Channel Stabilization Type B shall be a permanent TRM specified for permanent protection of channels or ditches that are expected to experience flow-induced shear of 5.0 lbs/ft² or less.

Amend 1.2 to read:

1.2 Blank.

Amend 2.1 to read:

2.1 Mulch

2.1.1 Hay mulch shall consist of cured hay, free from noxious weeds and rough or woody materials.

2.1.2 Bark mulch shall be bark chippings graded to be approximately 3/8 to 2 in (10 to 50 mm) in width. The chippings shall not have been stored so long and under such conditions that the material has decomposed sufficiently so that it is lost its fibrous texture. Bark mulch must be approved as to grading and condition prior to its use.

2.1.3 Temporary mulches shall be hay, straw, fiber mats, netting, wood cellulose, bark, chips, or other approved material. The mulch shall be reasonably clean and free of noxious weeds and materials toxic to plant growth.

Amend 2.2 to read:

2.2 Slope and channel stabilization products of the type specified shall be a Rolled Erosion Control Product (RECP) that is listed on the Qualified Products List.

Amend 3.4 to read:

3.4 Rolled Erosion Control Products (RECP)

3.4.1 Rolled Erosion Control Products (RECP), of the type specified, shall be installed where shown on the plans or as directed by the Engineer.

3.4.2 RECPs for slope and channel stabilization shall be installed as per the manufacturer's recommendations for the specific application and site conditions, or as directed by the Engineer. Documentation from the manufacturer describing recommended installation procedures shall be provided to the Engineer at least 10 working days prior to installation.

3.4.3 Surfaces of ditches and slopes to receive RECPs shall conform to the grades and cross sections shown on the plans and shall be finished to a smooth and even condition with all debris, roots, stones, and lumps raked out and removed. Unless otherwise directed, soil shall be

prepared, including the application of lime, fertilizer and seed, prior to installation of the specified type of RECP.

3.4.4 The RECP shall be placed so that is in intimate contact with the soil surface over the entire installation. Site conditions may require the use of additional staples to assure that this contact is maintained. The RECP shall not be stretched.

3.4.5 RECPs shall be buried at the top of slope and around the edges of catch basins and other structures or obstructions as recommended by the manufacturer.

3.4.6 In the event that the RECP installation becomes damaged, undermined, or raised off of the soil surface by vegetation, it shall be repaired immediately as per manufacturer's recommendations.

Amend 4.2 to read:

4.2 Rolled Erosion Control Products (RECP) will be measured by the square yard (square meter), based on the dimensions of the exposed surface area of the product.

Amend 5.1 to read:

5.1 The accepted quantities of erosion control work will be paid for at the contract unit price per square yard (square meter) or per acre (hectare) for mulch and per square yard (square meter) for Rolled Erosion Control Products (RECP), complete in place.

Delete Pay items and units:

645.2	Matting for Erosion Control	Square Yard (Square Meter)
645.21	Slope Stabilization (2:1 or Flatter)	Square Yard (Square Meter)
645.22	Slope Stabilization (Steeper than 2:1)	Square Yard (Square Meter)
645.23	Channel Stabilization (Low Velocity)	Square Yard (Square Meter)
645.24	Channel Stabilization (High Velocity)	Square Yard (Square Meter)
645.25	Permanent Stabilization	Square Yard (Square Meter)

Add Pay items and units:

645.41	Temporary Slope Stabilization Type A	Square Yard (Square Meter)
645.42	Temporary Slope Stabilization Type B (Wildlife friendly)	Square Yard (Square Meter)
645.43	Temporary Slope Stabilization Type C	Square Yard (Square Meter)
645.44	Temporary Slope Stabilization Type D (Wildlife friendly)	Square Yard (Square Meter)
645.45	Permanent Channel Stabilization Type A	Square Yard (Square Meter)
645.46	Permanent Channel Stabilization Type B	Square Yard (Square Meter)