MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**RIPRAP SALVAGE**

BRG:KAH 1 of 2 APPR:DMG:EJC:02-03-23

**a. Description.** This work consists of salvaging existing riprap, preparing slope grades, installing geotextile liner, and placing salvaged riprap on channel bottoms and side slopes. Complete all work in accordance with the Standard Specification for Construction, the plans, and this special provision.

**b. Materials.** Use stone from salvaged riprap that is free from shale, spoil, and organic material, as well as seams, cracks, or other structural defects.

Ensure geotextile liner is in accordance with section 910 of the Standard Specifications for Construction.

**c. Construction.** Salvage existing riprap from the identified locations and place where the proposed Plain Riprap is shown along the roadway embankment on the plans. Clean salvaged riprap as necessary as directed by the Engineer. Do not use salvaged riprap in the riverbed.

Stockpile salvaged riprap such that the length, width, and height of the stockpile can be clearly measured for the computation of the riprap volume. Acceptance of the riprap stockpile and gradation will be based on visual inspection by the Engineer.

Place riprap in accordance with subsection 813.03.E of the Standard Specifications for Construction specified for Plain Riprap on prepared grades to the elevations, thickness, and lateral limits as shown on the plans. Clear areas to be protected by riprap of brush, trees, stumps, debris, and surplus or unsuitable soil. Shape and compact all grades to the required cross section, including excavation for toe and header plan details. Place geotextile liner on prepared grades in accordance with the SESC Manual. Ensure the riprap installation does not damage the geotextile liner. Ensure damaged geotextile liner is repaired or removed and replaced as directed by the Engineer at no cost to the contract.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

**Pay item Pay Unit**

Riprap, Plain, Salv Ton

The Engineer will determine the volume of riprap using stockpile measurements and will calculate the weight using a unit weight assumption of 130 pcf.

**Riprap, Plain, Salv** includes furnishing all materials, equipment, and labor to salvage, clean and stockpile existing riprap, divert stream flow, clear and prepare grades, excavate and dispose of surplus or unsuitable materials, furnish and place geotextile liner as applicable, and place the salvaged riprap, including headers.

Plain riprap required in excess of salvaged riprap will be measured by the Ton and paid for separately as **Riprap, Plain** at the contract unit price.