MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**SUBGRADE UNDERDRAIN, MODIFIED**

TAY:JAH 1 of 1 APPR:DMG:MRB:05-20-24

**a. Description.** This work consists of installing subgrade underdrain in accordance with Wayne County Standard Plan D14, this special provision and as shown on the plans.

**b. Materials.** For underdrain with over 4 feet of cover furnish perforated corrugated PE tubing or perforated corrugated PVC tubing in accordance with subsection 909.07.B of the Standard Specifications for Construction. Ensure the perforations for PE and PVC tubing are Class 2 in accordance with *AASHTO M252*.

For underdrain with 4 feet or less of cover furnish heavy duty perforated polyvinyl chloride pipe (PVC-HD) or perforated corrugated dual wall high density polyethylene pipe (DWHDPE). Ensure PVC-HD pipe is in accordance with *ASTM D3034,* *Type SDR 23.5* with perforations in accordance with *AASHTO M278*. Ensure DWHDPE pipe is in accordance with *AASHTO M252,* *Type S* with Class 2 perforations.

Furnish geotextile blanket for underdrain trench lining in accordance with section 910 of the Standard Specifications for Construction.

Furnish open-graded aggregate Class 34R for underdrain backfill material in accordance with section 902 of the Standard Specifications for Construction.

**c. Construction.** Construct subgrade underdrain in accordance with the details shown on the plans, as specified herein and section 404 of the Standard Specifications for Construction. During the installation and backfill operations avoid causing damage to the geotextile blanket. Remove and replace damaged geotextile blanket at no additional cost to the contract.

Ensure the installed pipe is video inspected for acceptance in accordance with 20SP-404A - Video Inspection of Underdrain.

**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**

Underdrain, Subgrade, 6 inch, Modified Foot

**Underdrain, Subgrade, 6 inch, Modified** includes the cost of furnishing and installing the pipe, fittings, backfill and lining the trench with geotextile blanket. The cost of video inspection of the underdrain will be paid for separately.