MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**STOPLOG STRUCTURES**

ISH:TDS 1 of 2 APPR:DMG:JW:03-10-21

**a. Description.** This work includes furnishing and installing stoplog water level control structures.

Ensure all work is in accordance with this special provision, manufacturer's guidelines and as shown on the plans. Ensure all excavation and bedding is in accordance with subsection 401.03.A of the Standard Specifications for Construction. Install all culvert pipe in accordance with the standard specifications.

**b. Materials.** Ensure the stoplog structures, rodent guards, inlet guards and anti-seep collars are supplied by the same manufacturer. Ensure each stoplog structure, rodent guard, inlet guard and anti-seep collar are compatible models and manufactured by the following or equal as approved by the Engineer.

Agri Drain Corporation

P.O. Box 458

1462 340th Street

Adair, IA 50002

(800) 232-4742

1. Stoplog Structures. Furnish an Agri Drain brand Inline Water Level Control Structure or approved equal. The stoplog structures must accommodate 24 inch diameter polyvinyl chloride (PVC) inlet and outlet pipes. Ensure the pipe type and manufacturer is supplied to Agri Drain when the structure is ordered. The stoplog structure height must extend a minimum of 1 foot and maximum of 3 feet above the finish grade height of the correlating containment berm.

2. Rodent Guard. Furnish a 24 inch Agri Drain Stainless Steel Rodent Guard or approved equal.

3. Inlet Guard. Furnish a 24 inch Agri Drain Heavy Bar Guard or approved equal.

4. Anti-seep Collar. Furnish two 36 inch by 36 inch Agri Drain Anti-Seep Collars or approved equal with geosynthetic clay liner backing in accordance with the Special Provision for Geosynthetic Clay Liner.

5. Pipe. Furnish 24 inch diameter PVC pipe. Ensure pipe length is as shown on the plans for each structure. Ensure all pipe is in accordance with section 909 of the Standard Specifications for Construction.

6. Pressure Treated Wood Marker Posts. Ensure all posts are in accordance with section 912 of the Standard Specifications for Construction and have a nominal 4 inch by 4 inch cross section.

**c. Construction.** The Engineer will determine the final location for the stoplog structure. Excavate and provide bedding in accordance with subsection 401.03.A of the Standard Specifications for Construction.

Install the stoplog structure at the inlet and outlet pipe invert elevations shown on the plans. Ensure proper flow direction through the stoplog structure. Cut an appropriately sized hole as recommended by the manufacturer in the center of the rubber anti-seep collars and insert the inlet pipe. Install the second anti-seep collar on the outlet pipe. The anti-seep collars, once installed, must prevent piping of water along the outside of the pipe. Adjust the stoplog structure so that it is level and plumb prior to backfilling.

Backfill around stoplog structures by hand in 6 inch lifts. Place and compact backfill with hand tools only. Do not use a backhoe or blade to place backfill against stoplog structures. Mechanical powered compaction equipment is prohibited. Verify stoplog structure is plumb after backfill operation and adjust as necessary. Correct damage caused by the Contractor’s operation at no cost to the contract.

Install inlet guard and rodent guard as shown on the plans and in accordance with the manufacturer’s recommendations.

Place stoplog panels and push down to make firm contact with bottom of the stoplog structure. The Wetland Mitigation Specialist in the Environmental Services Section will determine the final height of the stoplog panels. Hang the adjusting tool on a bar inside the stoplog structures. Place and paint marker posts as shown on the plans.

**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**

Stoplog Structure Each

**Stoplog Structure** includes all site preparation, labor, equipment, and materials required to complete the work as described. Payment for each **Stoplog Structure** will be based on a complete unit installed and ready for use as approved by the Engineer.