MICHIGAN

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**BYPASS PUMPING STORM SEWER**

UNIV:JMR 1 of 2 APPR:DMG:KSH:09-22-21

**a. Description.** This work consists of installing, maintaining, and removing a temporary bypass pumping system at the locations shown on the plans to divert existing storm sewer flow during construction.

**b. Materials.** Furnish materials in accordance with sections 402 and 818 of the Standard Specifications for Construction and as specified herein.

**c. Construction.** Conduct the work in accordance with the standard specifications and as detailed herein. Submit a detailed bypass pumping plan in PDF to the Engineer for review and approval prior to starting the work. Design and size all components of the system assuming the existing pipe is flowing full. Ensure the plan is sealed by a Professional Engineer licensed in the State of Michigan. No work can begin until approval of the bypass pumping plan is received from the Engineer.

The plan must include, but not limited to, the following:

1. Staging areas for pumps;

2. Sewer plugging method and types of plugs;

3. Temporary wet wells as needed;

4. Number, size and location of pumps and piping;

5. Standby power generator size and location;

6. Downstream discharge plan;

7. Method of noise control for each pump and/or generator;

8. Schedule for installation, operation, maintenance and removal of system;

9. Coordination with the proposed construction activities;

10. Contingency plan for inadvertent system shutdown;

11. Soil erosion and sedimentation control measures as necessary.

Ensure all pumps are fully automatic self-priming units that do not require the use of foot-valves or vacuum pumps in the priming system. The pumps may be electric, or diesel powered. Ensure all pumps are constructed to allow dry running for long periods of time to accommodate the cyclical nature of flows.

Maintain at least one stand-by pump of each size on site.

**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**

Bypass Pumping, Storm Sewer Each

**Bypass Pumping, Storm Sewer** includes designing, furnishing, installing, maintaining, and removing the required materials, supplies, and equipment needed to implement a temporary bypass pumping system for the purpose of diverting the existing storm sewer flow around the portions of the project which require such temporary bypassing system.