

## **SECTION 02315**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Section includes general construction specifications as well as specifications for excavation for structures, pavement and landscaping. All work shall conform to MDOT Standards and Specifications as modified by the Holland BPW. All non-itemized work shall be considered incidental.

### **PART 2 - EXECUTION**

#### **2.1 GENERAL CONSTRUCTION**

- A. The contractor shall maintain construction operations within road rights-of-way and public easements as noted on the plans. In the event that the contractor deems it necessary or advisable to operate beyond these limits, the contractor shall make special agreements with the property owner(s) and furnish copies of said agreements to the Holland BPW.
- B. The contractor shall maintain traffic at all times in accordance with the most current MDOT Standard Specifications for Construction and Part 6 of the most current edition of the Michigan Manual of Uniform Traffic Control Devices.
- C. At all times, the contractor shall provide emergency access to property in the vicinity of the construction for police and fire equipment, ambulances and other emergency vehicles to protect life and property. The contractor shall maintain public roads affected by the construction operations in a passable condition until such time as final restoration of these improvements can be made. If life or property is in danger and backfilling material is not available, the trench shall be backfilled with native material. However, the native material shall be removed within 48 hours and the trench backfilled with proper materials according to specifications.
- D. No street, road or section thereof shall be closed to through traffic unless authorized by the jurisdictional agency. Prior to closing a street, road or section thereof, the contractor shall provide the Holland BPW with a copy of a detour plan and permit approved by the jurisdictional agency. In the event roads are to be closed, the contractor shall notify the local fire department, police department, local road authority, ambulance and emergency services, Holland BPW, public transit authority, public school system, local trash pickup authority and public and private utilities daily as to what streets will be partially blocked or closed, the length of time the streets will be blocked or closed and when the streets will be reopened to traffic.
- E. With the exception of driveway access being impacted for short periods of time as part of typical construction activities, access shall be maintained for customers within the project limits at all times.

- F. Paved streets and driveways shall be maintained in a reasonable state of cleanliness and the contractor shall remove accumulations of debris caused by construction operations. The contractor shall have, as a minimum, an operating sweeper broom on the site at all times. The pavement shall be cleaned at the close of each day's operation and as often as necessary before that time. Failure to comply shall be cause to stop construction. The contractor shall also comply with the local air pollution control ordinance.
- G. Culverts, ditches, drain tiles, tile field, drainage structures, etc. that are disturbed by the contractor's operations shall be immediately restored at contractor's expense.
- H. All property irons and monuments, if disturbed or destroyed by the contractor's operation, shall be replaced by a professional land surveyor licensed in the State of Michigan at the contractor's expense.
- I. Contractor shall provide the Holland BPW with a proposed schedule prior to beginning construction activities.

## 2.2 EXCAVATION

- A. Identify required lines, levels, contours, and benchmarks.
- B. Underpin structures within the influence of excavation as necessary.
- C. Excavate to accommodate construction operations. Machine grade banks to angle of repose, or less, until shored.
- D. Do not interfere with 45 degree bearing splay of foundations. Return disturbed load-bearing soil to original capacity.
- E. Correct over-excavated areas per **SECTION 02320**.
- F. Hand-trim excavation to remove loose matter. Grade top perimeter of excavation to prevent flooding.
- G. Notify Engineer of and note unexpected subsurface conditions.
- H. Stockpile excavated material in designated areas. Remove surplus and unsuitable excavated material from site.
- I. Provide for visual inspection of bearing surfaces.
- J. Protect excavations from filling, flooding and freezing.
- K. Protect adjacent facilities from settlement, lateral movement, undermining, washout, and other hazards created by earth operations.

## END OF SECTION