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***SECTION 5***  
***SPECIFICATIONS***

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## SECTION 011100 - SUMMARY OF WORK

### PART 1 - GENERAL

#### 1.1 LOCATION OF THE PROJECT

The project is located in various communities throughout Lake County.

Locations:

120 Johnnycake Ridge Rd.	Painesville Township
1220 Madison Ave.	Painesville Township
30417 Lakeshore Blvd.	Willowick
4968 Orchard	Mentor
7525 Lauren J Drive	Mentor

#### 1.2 PROJECT DESCRIPTION

- A. The project consists of demolition of residential structures and appurtenances, asbestos abatement, proper disconnection and capping of all existing utilities, removal of all excess materials, and site restoration.

END OF SECTION 011100

## SECTION 011419 – USE OF SITE

### PART 1 - GENERAL

#### 1.1 GENERAL

- A. The Contractor will be allowed the use of as much of the site designated for the improvements as is necessary for his operation.

#### 1.2 USE OF STREETS

- A. During the progress of the work, the Contractor shall make ample provisions for both vehicle and pedestrian traffic on any public street and shall indemnify and save harmless the Owner from any expense whatsoever due to their operations over said streets. The Contractor shall also provide free access to all the fire hydrants, water, and gas valves located along the line of his work. Gutters and waterways must be kept open or other provisions made for the removal of storm water. Street intersections may be blocked only one-half at a time, and the Contractor shall lay and maintain temporary driveways, bridges and crossings, such as in the opinion of the Engineer are necessary to reasonably accommodate the public.
- B. In the event of the Contractor's failure to comply with these provisions, the Owner may cause the same to be done, and may deduct the cost of such work from any monies due the Contractor under this Agreement, but the performance of such work by the Owner at its instance shall serve in no way to release the Contractor from his general or particular liability for the safety of the public or the work.
- C. The Contractor shall repair at no cost to the Owner, all existing roads, parking areas, grassed areas that are damaged due to the execution of his work. The Contractor shall remove daily all mud, soil and debris that may be tracked onto existing streets, drives, or walks by his equipment or that of subcontractors or suppliers.

#### 1.3 CLOSING STREETS TO TRAFFIC

The Contractor may with the approval of the Engineer, close streets, or parts of streets, to vehicular traffic. The streets are to remain closed as long as the construction work or the condition of the finished work requires or as determined by the Engineer. The Engineer shall be the judge of how many streets or parts of streets it is necessary for the Contractor to close at any time, and may refuse to permit the closing of additional streets to traffic until the majority of the work on the closed streets is completed and they are opened to traffic.

#### 1.4 RIGHTS-OF-WAY

- A. Whenever it is required to perform work within the limits of public or private property or in rights-of-way, such work shall be done in conformity with all agreements between the Owner and the owners of such. Care shall be taken to avoid injury to the premises

entered, which premises shall be left in a neat and orderly condition by the removal of rubbish and the grading of surplus materials, and the restoration of said public or private property to the same general conditions as pertained at the time of entry for work to be performed under this contract.

- B. The Contractor shall not (except after consent from the proper parties) enter or occupy with men, tools or equipment, any land outside the rights-of-way or property of the Owner.
- C. When the Contractor performs construction within 10 ft. of a right-of-way or easement line, he shall place tall stakes properly identified at points of change in width or direction of the right-of-way or easement line and at points along the line so that at least two stakes can be seen distinctly from any point on the line.

#### 1.5 EASEMENTS

- A. Where the work is to be constructed upon easements, such easements will be secured by the Owner without cost to the Contractor. The Contractor shall not enter upon or occupy any private property outside of the limits of the easements furnished.
- B. Care shall be taken to avoid injury to the premises entered, which premises shall be left in a neat and orderly condition by the removal of rubbish and the grading of surplus materials, and the restoration of said public or private property to the same general conditions as pertained at the time of entry for work to be performed under this contract.

#### 1.6 PROTECTING EXISTING BUILDINGS, STRUCTURES AND ROADWAYS

- A. The Contractor shall, at his own expense, shore up and protect any buildings, roadways, utilities or other public or private structures which may be encountered or endangered in the prosecution of the work, and that may not be otherwise provided for, and he shall repair and make good any damages caused to any such property by reason of his operations. All existing fences removed due to the prosecution of the work shall be replaced by the Contractor. No extra payment will be made for said work or material, but the cost of this work must be included in the price stipulated for the work to be done under this contract.

#### 1.7 SITE FACILITIES

- A. The Contractor shall furnish and place sufficient quantities of portable toilet facilities at locations convenient for use by the Contractor's personnel, Subcontractors, the Engineer, and the Owner.

#### 1.8 RESTORATION

- A. The contractor shall restore all areas per the plans and specifications and if not specified, at least to the condition existing prior to the start of work.

END OF SECTION 011419

## SECTION 013119 - PROJECT MEETINGS

### PART 1 - GENERAL

#### 1.1 PRECONSTRUCTION MEETING

- A. Prior to the Contractor beginning any work on the project, the Owner will schedule and hold a preconstruction meeting to discuss all aspects of the contract work.
- B. The Contractor shall be present and be prepared to comment in detail on all aspects of his work.
- C. The Contractor shall bring to the preconstruction meeting a proposed construction progress schedule, erosion control plan, quality control program, concrete mix designs, asphalt mix designs (JMF), etc. Approval of each by the Engineer is required prior to the start of any work.
- D. Included in the construction progress schedule shall be an implementation sequence of the proposed erosion control efforts required by the contract.

END OF SECTION 013119

## SECTION 014126 - GENERAL REGULATIONS AND PERMITS

### PART 1 - GENERAL

#### 1.1 REGISTRATION

All Contractors and subcontractors shall be registered with the Building Department having jurisdiction. Contact the Building Department for additional registration information.

#### 1.2 PERMITS

The Prime Contractor shall apply for and pay for all permits from the Owner and/or other authorities having jurisdiction.

#### 1.3 ARCHAEOLOGICAL DISCOVERIES

Contractors and subcontractors are required under Ohio Revised Code (O.R.C.) Section 149.53, to notify Ohio's State Historic Preservation Office (SHPO), and to cooperate with that office in archaeological and historic surveys and mitigation efforts if such discoveries are uncovered within the project area.

Contact: Ohio's State Historic Preservation Office  
Diana Welling, Resource Protection & Review Department Manager  
Phone: 1-614-298-2000  
Email: [dwelling@ohiohistory.org](mailto:dwelling@ohiohistory.org)

Should archaeological discoveries or other activities delay progress of the work, an adjustment in contract time will be made.

END OF SECTION 014126

## SECTION 015526 - TEMPORARY TRAFFIC CONTROL DEVICES

### PART 1 - GENERAL

#### 1.1 BARRICADES, SIGNS AND LIGHTS

- A. The Contractor shall employ watchmen on the work when and as necessary. The Contractor shall erect and maintain such strong and suitable barriers and such lights as will effectively prevent the occurrence of any accident to health, limb or property. Lights shall be maintained between the hours of one-half (1/2) hour after sunset and one-half (1/2) hour before sunrise.
- B. No manhole, trench, excavation will be left open awaiting connection or removal at a later date by the Contractor's forces or others but shall be temporarily backfilled and resurfaced if applicable with a temporary pavement passable to traffic at no additional cost to the Owner.
- C. In addition to other safety requirements, a minimum of four (4) foot high fence will be incorporated around any shaft or manhole or other excavation left open at the end of a day's work.

#### 1.2 MAINTENANCE OF TRAFFIC

- A. The Contractor is required to provide maintenance of traffic in conformance with the Ohio Manual of Uniform Traffic Control Devices and Item 614 of the current Construction and Material Specifications of the Ohio Department of Transportation.
- B. This work shall include providing suitable and satisfactorily trained and properly attired flagmen for use at any location where existing roadway is narrowed to a width of less than 2 full lanes (18 feet).
- C. The Contractor is also responsible for maintaining local access to all residences and businesses along the route of the construction and to provide whatever temporary materials are necessary to provide a safe, adequate drive surface.
- D. At all boring locations, Contractor shall provide suitable flashers, barricades, and traffic control devices as may be deemed necessary by the Engineer or the responsible authority in the case of the Department of Transportation, Turnpike Commission, or affected railroad. This may extend to maintain facilities on a 24-hour basis until such time as the areas are completely backfilled.

END OF SECTION 015526

## SECTION 017800 - FINAL COMPLIANCE AND SUBMITTALS

### PART 1 - GENERAL

- 1.1 The following forms and related sign-offs shall be documented in accordance with provisions of the contract. These forms shall be completed by the Contractor and approved by the Owner before final retainer is approved for release. Forms for Items A to E will be attached to the Contractor's executed copy of the contract.
- A. Certificate of Substantial Completion (To be submitted at time of Substantial Completion).
  - B. Contractor's Certification of Completion.
  - C. Contractor's Affidavit of Prevailing Wage.
  - D. Consent of Surety Company for Final Payment.
  - E. Affidavit of Final Acceptance Date and Correction Period.
  - F. Copies of City/County/Health Department Permits and Final Approval of same.
  - G. Ohio EPA 10 Day Notice.
  - H. Asbestos Landfill Manifests.
  - I. During and After Site Pictures.
  - J. Affidavit of Release of Liens.

END OF SECTION 017800



## SECTION 024116.13 - BUILDING DEMOLITION

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Demolition of residential structures and appurtenances, asbestos abatement, proper disconnection and capping of all existing utilities, removal of all excess materials, and site restoration.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
  - 1. Division 1 Section 017800 "Final Compliance and Submittals" for record document requirements.

#### 1.2 DEFINITIONS

- A. Demolition: Remove and legally dispose of all materials.

#### 1.3 MATERIALS OWNERSHIP

- A. Demolished and removed materials shall become the Contractor's property and shall be removed from the site with further disposition at the Contractor's option.

#### 1.4 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Proposed dust-control measures.
- C. Proposed noise-control measures.
- D. Schedule of demolition activities indicating the following:
  - 1. Detailed sequence of demolition and removal work, with starting and ending dates for each activity.
  - 2. Dates for shutoff, capping, and continuation of utility services.

- E. Photographs - During Construction Pictures - Minimum of ten 4 X 6 pictures taken during various phases of demolition of the structure. All pictures shall show landmarks that were shown in the Pre-Construction pictures.
  - 1. Identify and accurately locate capped utilities. Supply Utility Disconnection Pictures and As Built Drawing – Minimum of one 4 X 6 picture of each utility disconnection at each subplot and an As-Built drawing with adequate reproducible dimensions of the location of the disconnected utilities.
  - 2. ***Must include a photograph of the excavated foundation hole with all debris removed. Hole must also be inspected before backfill procedures begin.***
- F. Landfill and disposal records for record purposes indicating receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

#### 1.5 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: Bidder shall be an experienced firm that has successfully completed demolition Work similar to that indicated for this Project.
- B. Regulatory Requirements: Comply with governing notification regulations before starting demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

#### 1.6 PROJECT CONDITIONS

- A. Buildings to be demolished will be vacated and their use discontinued before start of Work.
- B. Owner assumes no responsibility for actual condition of buildings to be demolished.
  - 1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Asbestos: Asbestos is present in the buildings to be demolished. Reports on the presence of asbestos are on file for review and use. Examine the report to become aware of locations where asbestos is present. Contractor shall abate all friable material prior to demolition or any pre-demolition activities that may disturb the friable material.
- D. Storage or sale of removed items or materials on-site will not be permitted.
- E. If and whenever the work under this contract requires the excavation, use or occupancy of any public road, public area or public building, the Contractor shall obtain approval of the public agency having jurisdiction of the site.
- F. Until the acceptance by the Owner of any part or all of the work as provided for in the contract, the work shall be under the charge and care of the Contractor, and he shall take every necessary precaution against injury or damage whatsoever to any persons, or property arising from the performance or nonperformance of the work.

## 1.7 SCHEDULING

- A. Notify Engineer prior to any demolition schedule changes.

## PART 2 - PRODUCTS

2.1 All materials and installation thereof shall meet ODOT CMS specifications.

2.2 Concrete for replacement of walks or aprons shall be ODOT Class QC.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Perform surveys as the Work progresses to detect and/or prevent hazards resulting from demolition activities.

### 3.2 UTILITY SERVICES

- A. Utility Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services serving structures to be demolished.
  - 1. Arrange to shut off indicated utilities with utility companies. The Contractor shall be responsible for notifying all utility companies prior to disconnection by the Contractor or Utility Company as applicable. Contractor to comply with all requirements and regulations of governmental or private utility companies.
  - 2. Identify and accurately locate capped utilities. Supply Utility Disconnection Pictures and As Built Drawing – Minimum of one 4 X 6 picture of each utility disconnection at each subplot and an As-Built drawing with adequate reproducible dimensions of the location of the disconnected utilities.

### 3.3 PREPARATION

- A. Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with demolition operations. Collect and dispose of all trash and debris in or around the structure
- B. Employ a certified, licensed exterminator to treat building and to control rodents and vermin before and during demolition operations.
- C. Abate all friable ACM.

- D. Conduct demolition operations and remove debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- E. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around demolition area.

### 3.4 EXPLOSIVES

- A. Explosives: Use of explosives will not be permitted.

### 3.5 POLLUTION CONTROLS

- A. Use water mist, temporary enclosures, and other suitable methods to limit the spread of dust and dirt. Comply with governing environmental protection regulations.
  - 1. Do not create hazardous or objectionable conditions, such as ice, flooding, and pollution, when using water.
- B. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
  - 1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level.
- C. Property maintenance and site cleanup shall be conducted daily.

### 3.6 DEMOLITION

- A. Building Demolition: Demolish buildings completely and remove from the site. Use methods required to complete Work within limitations of governing regulations and as follows:
  - 1. Dispose of demolished items and materials promptly. On-site storage or sale of removed items is prohibited.
  - 2. Break up and remove concrete slabs on grade. Break up and remove asphalt paving.
- B. Below-Grade Construction: Demolish foundation walls and other below-grade construction, as follows:
  - 1. Completely remove below-grade construction, including foundation walls and footings.
  - 2. If applicable to site, abandon septic tank in accordance with applicable regulations.

- C. Filling Below-Grade Areas: Completely fill below-grade areas and voids resulting from demolition of buildings and septic tanks and excavations for disconnecting utilities. All backfill under or within a 1:1 zone of influence of pavements, drives, walks, or other structures shall be backfilled with Compacted Granular Backfill in accordance with specification 312323.14. All other backfill shall be Compacted Backfill in accordance with specification 312323.13.
- D. Remove all concrete and or asphalt drives and walks on the site that are not in the Right-Of-Way. Replace any walk or drive aprons in the removed in the Right-Of-Way for utility disconnection.
- E. Remove all trees, shrubs, appurtenances and other excess material within the maintained (landscaped) yard area and anything additional marked with orange paint or ribbon. Remove tree stumps to 18 inches below grade.
- F. No sidewalks, alleys, streets, or public areas shall be used for storage of materials.
- G. Damages: Promptly repair damages to adjacent facilities caused by demolition operations.
- H. Install 4 inches of topsoil, fertilizer, lime, seeding and mulching, and water over all disturbed areas in accordance with ODOT 653 and 659. Provide additional fertilizer and water as needed to establish a thick, lush stand of turf.

### 3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. Dispose of demolished items and materials promptly. Do not allow demolished materials to accumulate on-site. On-site storage or sale of removed items is prohibited. Transport demolished materials off Owner's property and legally dispose of them. Submit receipts from all disposal and/or landfill facilities.
- B. Burning: Do not burn demolished materials.

END OF SECTION 024116.13

## SECTION 312323.13 – COMPACTED BACKFILL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

#### 1.2 DESCRIPTION OF WORK

- A. The Contractor shall furnish, place and compact all the materials needed from select excavated materials or furnish additional suitable material if the excavated material is deemed unsuitable or the moisture content is not or can not be made to be within acceptable tolerances of optimum moisture to achieve the specified compaction.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Suitable excavated material as specified in ODOT Item 203.

### PART 3 - EXECUTION

#### 3.1 PLACING

- A. Compacted backfill shall be properly placed in layers (maximum 6 inches compacted depth) sufficient to meet the compaction requirement of 100% of maximum laboratory dry density per ASTM D 698 throughout the entire layer and thoroughly compacted with mechanical compaction equipment with moisture adjustment as needed. Should after settlement occur, the Contractor must add and compact additional material, and he must maintain the backfill at the required finished grade or sub-grade until the project is satisfactorily completed and during the correction period.
- B. Approved mechanical compaction equipment shall be used for tamping backfill. Flooding, jetting or puddling of backfill will not be permitted.

END OF SECTION 312323.13

## SECTION 312323.14 – COMPACTED GRANULAR BACKFILL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

#### 1.2 DESCRIPTION OF WORK

- A. The Contractor shall furnish, place and compact all the materials needed.

### PART 2 - PRODUCTS

#### 2.1 MATERIAL

- A. Aggregate shall be ODOT 304 crushed stone or crushed RPCC. Crushed slag products are unacceptable.
- B. Contractor shall submit current test reports for the lot(s) of the material to be supplied.

### PART 3 - EXECUTION

#### 3.1 PLACING AND COMPACTING

- A. Compacted granular backfill shall be properly placed in layers (maximum 6 inches compacted depth) sufficient to meet the compaction requirement of 100% of maximum laboratory dry density per ASTM D 698 throughout the entire layer and thoroughly compacted with mechanical compaction equipment with moisture adjustment as needed. Should after settlement occur, the Contractor must add and compact additional material, and he must maintain the backfill at the required finished grade or sub-grade until the project is satisfactorily completed and during the correction period.
- B. Approved mechanical compaction equipment shall be used for tamping backfill. Flooding, jetting or puddling of backfill will not be permitted.

END OF SECTION 312323.14