

## SECTION 02050 - Demolition and Maintenance of Traffic

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. General: The Contractor shall provide all labor, material, and services, and perform all operations required for demolition and maintenance and protection of traffic work and related items shown on the drawings or specified in this Section.
- B. Prior to any demolition/construction activity, the Contractor shall videotape entire project with emphasis on existing conditions of all private properties abutting project limits. One copy of video tape shall be provided to the Engineer for their use. Construction shall not be started until the videotape is deemed acceptable by the Engineer.
- C. Work Included: The work shall include, but not necessarily be limited to, the following demolition and maintenance and protection of traffic work:
  - 1.) Pedestrian and vehicular traffic control.
  - 2.) Asphalt Pavement removal - roadway and sidewalk.
  - 3.) Concrete curb or curb and gutter removal.
  - 4.) Walk and curb removal.
  - 5.) Asphalt and concrete saw cutting.
- D. Work Specified in Other Documents: Maintenance and protection of traffic shall be in accordance with applicable portions of Section 102 of the Florida D.O.T. Standard Specifications for Road and Bridge Construction and F.D.O.T. Roadway and Traffic Design Standards (specifically the 600 series index numbers.)
- E. Work Specified in Other Sections: Related items of work are specified in other sections of the specifications.

#### 1.2 PAYMENT

- A. Unless noted otherwise on the Bid Form, no separate payment will be made for Work covered under this Section. All costs in connection therewith or incidental thereto are to be included in the respective Contract Price for the item or structure to which the Work pertains.

#### 1.3 JOB CONDITIONS

- A. Occupancy: Before Contractor starts demolition work he shall have the following items of work approved by Engineer or Owner:

Prior to implementation of traffic control plan, said plan shall be submitted at least 2 weeks in advance to the Engineer for approval.

- 1. Method of barricading for pedestrian control safety, as well as method for movement of pedestrian traffic.
- 2. Method of handling pedestrian traffic onto and off work area.
- 3. All signage required or indicated on the drawings for pedestrian and vehicular control.
- 4. Night lighting and barricades.

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5. Coordination plan for proposed and existing utility work.
  6. Stationing and layout reference points.
  7. Approved Construction Phasing Plan.
- B. Maintenance and Protection of Traffic:
1. Contractor shall install all required maintenance and protection of traffic controls as required prior to starting demolition activities.
- C. Condition of Paving and Structures:
1. The Owner assumes no responsibility for the actual thickness or condition of pavement or structures to be demolished.
  2. Contractor shall be responsible for all discrepancies which may exist between the existing site prior to construction and the conditions shown on the Demolition Plan. Any discrepancies which may exist shall be determined by a site visit prior to contractor bidding.
- D. Existing Trees:
1. Shall be removed and disposed of in accordance with these specifications.
- E. Demolition and Limits of Work shall be as defined on the plans.
1. Sidewalks
    - a. Shall be saw cut prior to removal.
- F. Existing Utilities:
1. Protect all existing utilities at grade and below grade from damage during demolition work.
  2. Where existing utilities are to remain in place, provide adequate means of protection during demolition and duration of work.
  3. Locate existing underground utilities in advance of demolition work.
  4. Should uncharted, or incorrectly charted, piping or other utilities be encountered during excavation, inform the Engineer immediately. Cooperate with the Owner and public and private utility companies in keeping their respective services and facilities in operation.
  5. Damaged Utilities: Report damaged utility immediately to respective utility companies' representative. Repair of damaged utility will be by the respective utility company and the Contractor shall bear the full cost accrued by the utility company's work and materials.
  6. Do not interrupt existing utilities serving facilities occupied and/or used by the Owner or others, except where permitted in writing by the Engineer or Owner, and the only after acceptable temporary utility services have been provided.
  7. Demolish and completely remove from the site underground utilities indicated to be removed. Coordinate with local utility companies for shut-off services if lines are active.
- G. Use of explosives is not permitted.

- H. Temporary Protection: Protect structures, utilities, sidewalks, pavements, and other facilities from damages caused by settlement, lateral movement, undermining, washout, and other hazards created by demolition operations.
- I. Damages: Promptly repair damages caused to adjacent facilities by demolition operations at no additional cost to the Owner.
- J. Traffic: Conduct demolition operations and the removal of debris to ensure minimum interference with traffic, adjacent streets, walks, and other adjacent occupied or used facilities. Do not close or obstruct adjacent streets, walks, or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways.
- K. Protection: Ensure the safe passage of persons around the area of demolition. Conduct operations to prevent injury to adjacent building, structures, other facilities, and persons.
- L. Shoring: Provide interior and exterior shoring, bracing, or support to prevent movement or settlement or collapse of structures to be demolished and adjacent facilities to remain.

#### **1.4 TRAFFIC DETOUR PLAN**

- A. Contractor shall prepare a Traffic Detour Plan detailing detour routes and traffic control devices to be utilized when construction activities interfere with traffic on state, county and residential roadways.
- B. The Traffic Detour Plan shall be submitted to the Engineer in triplicate for approval by the Engineer, the Owner, and agencies under jurisdiction at least Two (2) weeks prior to intended construction start date. No interruption or diversion of traffic on roadways shall occur until Traffic Detour Plan is approved.

#### **1.5 CONSTRUCTION PARKING CONTROL**

- A. Control vehicular parking to prevent interference with public traffic and parking, access by emergency vehicles, and Owner's operations
- B. Monitor parking of construction personnel's vehicles in existing facilities. Maintain vehicular access to and through parking areas.
- C. Prevent parking on or adjacent to access roads or in non-designated areas.

#### **1.6 FLAGMEN**

- A. Provide trained and equipped flagmen to regulate traffic when construction operations or traffic encroach on public traffic lanes and when directed by the Engineer.

#### **1.7 FLARES AND LIGHTS**

- A. Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.
- B. Manholes, catch basins, drainage structures, valve boxes and other surface structures, extending two or more inches above/below existing ground shall have a flasher and barrel conforming to Manual of Uniform Traffic Control Devices (MUTCD).

## **1.8 HAUL ROUTES**

- A. Consult with authority having jurisdiction in establishing public thoroughfares to be used for haul routes and site access.
- B. Confine construction traffic to designated haul routes.
- C. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.

## **1.9 TRAFFIC SIGNS AND SIGNALS**

- A. At approaches to site and on site, install at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.
- B. Install and operate traffic control signals to direct and maintain orderly flow of traffic in areas under Contractor's control, and areas affected by Contractor's operations.
- C. Relocate as Work progresses, to maintain effective traffic control. Work shall not progress until sufficient project restoration is satisfactorily completed as approved by the Engineer.

## **PART 2 - PRODUCTS**

(Not Applicable)

## **PART 3 - EXECUTION**

### **3.1 GENERAL**

- A. Erect all barricades, signage, and related items of work as specified above in "Job Conditions - Occupancy".

### **3.2 POLLUTION CONTROLS**

- A. Use water sprinkling and other suitable methods to limit the amount of dust and dirt rising and scattering in the air to the lowest practical level. Comply with governing regulations pertaining to environmental protection. Do not use water when it may create hazardous or objectionable conditions such as flooding and pollution.
- B. Clean adjacent pavements, roads, and other improvements of dust, dirt, and debris caused by demolition operations, as required by at least daily. Return adjacent areas to condition existing prior to the start of the work.
- C. Construct temporary drainage ways or bulkheads as needed to control stormwater runoff into existing drainage structures.
- D. Construct silt or soil arresting devices as directed by Owner to keep silt and soil from entering storm sewer system.

### **3.3 BELOW-GRADE CONSTRUCTION**

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- A. Demolish and remove below-grade footings and structures shown on drawings.
- B. Fill all voids caused through removal of demolition work with approved fill material and place as specified.

### **3.4 WALKWAY AND CURBING REMOVAL**

- A. Saw cut where designated on plan, or as directed by Engineer or Owner.
- B. Protect all above and below grade existing utilities and services from damage.
- C. Remove concrete walk and curbing where shown on plan.
- D. All concrete work and material to match existing construction.
- E. Grade and shape work area for positive drainage to roadway and remove all broken debris and rubble from subgrade and on grade.
- F. Place and maintain boardwalk and crosswalk system to business establishments as required.

### **3.5 ROADWAY PAVING REMOVAL**

- A. Saw cut through asphaltic concrete and where designated on areas to remain.
- B. Remove all asphalt cement, concrete roadway slab, and other road construction materials encountered to existing base.
- C. Shape and smooth grade for positive drainage. Remove all asphalt rubble and concrete from base and surface grade.

### **3.6 DISPOSAL OF DEMOLISHED MATERIALS**

- A. All rubbish, demolished materials, and other materials resulting from work described herein and not indicated to become the owner's property nor desired by Owner are to become the property of the Contractor to be removed from the site and disposed of legally.

**\*\* END OF SECTION \*\***