

**SECTION 01380****CONSTRUCTION PHOTOGRAPHS AND VIDEO PHOTOGRAPHY****PART 1 GENERAL****1.01 DESCRIPTION OF WORK**

- A. This section specifies the taking and submission of construction photographs and audio-video photography.
- B. Prior to the delivery of any equipment, materials or supplies to the site of any work, or to the beginning of any of the construction work, the Contractor shall provide pre-construction photography as specified herein for the purpose of establishing the surface conditions existing in all of the areas to be affected by the construction of the Project.
- C. Ground photography shall consist of photographs and color video taping of surface features taken along the entire length of the Project and including all work, intersecting roadways and properties that will be impacted by the water service conversions.
- D. The purpose of the color audio-video taping of the project is to provide the necessary information for restoration of surface features after completion of the Project. The Contractor shall be responsible for repairing any damage or defect not documented as existing prior to construction.

**1.02 QUALITY ASSURANCE**

- A. Photographs shall be clean, sharp and clearly show details. Out-of-focus photographs will not be acceptable.
- B. Photographs and/or prints which are poorly lit or lack definition will not be acceptable.

**1.03 SUBMITTALS**

- A. Submit three (3) prints and the digital file of each construction photograph and one (1) DVD of the video as follows:
  - 1. Within fourteen (14) days of receiving Notice to Proceed.
  - 2. Enclose each print in a clear Mylar protector punched to fit a standard three ring binder. Prints shall have notes to detail location, date, and existing condition. The prints shall be used to provide documentation of existing conditions in case of claims or disputes.
  - 3. Number photographs in sequence beginning with the numeral one.

**PART 2 PRODUCTS**

2.01 SIZE AND QUALITY

- A. Standard commercial quality prints, color, 3½-inches by 5-inches, single weight glossy paper.
- B. Digital pictures and videos shall be compatible with Department software.

2.02 IDENTIFICATION

- A. Each print shall be stamped with the following information stamped or typed on the back of the print:

MIAMI DADE WATER & SEWER DEPARTMENT  
Contract No. \_\_\_\_\_

DESIGN-BUILDER: \_\_\_\_\_

Photograph No. \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2.03 QUANTITY

- A. A minimum of twelve photographs shall be taken prior to construction and twelve more each month until completion of the Work.
- B. In the instance of a pipeline installation, take a minimum of one photograph each 200 feet or fraction thereof along the entire route of the main initially. During construction a minimum of one photograph every two hundred feet or fraction thereof of that portion of the main constructed during the month until completion.
- C. The number of photographs required shall be at the sole discretion of the Engineer whose decision shall be final.
- D. An increase in the number of photographs above the minimums shall not be cause for an increase in cost and no extra compensation will be allowed.

2.04 VIDEO PHOTOGRAPHY

- A. Color audio-video shall be DVD format.

**PART 3 EXECUTION**

3.01 INITIAL AND CONSTRUCTION PHOTOGRAPHY

- A. Take pre-construction photographs of the entire site or route of the main after receiving the Notice to Proceed and prior to disturbing the site in any manner. Coordinate with the Engineer as to the vantage points and number of photographs required in Paragraph 2.03.
- B. Photography During Construction: Coordinate with the Engineer as to the actual number and location of views to be photographed and the day and time of photographing.
- C. Photographic equipment utilized shall be of sufficient quality to produce pictures capable of being enlarged without loss of definition or sharpness.

### 3.02 VIDEO PHOTOGRAPHY

- A. Coverage of Taping: Such coverage shall include, but not be limited to, all existing driveways, sidewalks, curbs, streets, signs, landscaping, trees, catch basins, fences, visible utilities and all buildings located within the work zone of the Project. Of particular concern are any existing faults, fractures, defects or other features. Audio description shall be made simultaneously with and support the video coverage.
- B. Streets: shall be recorded by audio-video tape for the full width of the right-of-way, except where specifically noted otherwise by the Engineer.
- C. Front, Side and Rear Yard Areas: shall be recorded by audio-video tape of properties impacted by the water service conversions.

### 3.03 LOCATION INFORMATION

- A. All DVD's shall be properly identified by number, location and project name in a manner acceptable to the Engineer.
- B. A record of the contents of each DVD shall be supplied on a run sheet identifying each segment in the tape by location, i.e., street viewing side, traveling direction, engineering stationing, and all referenced by tape counter numbers.
- C. All video recordings shall begin with the date and time of recording, the project name, the sheet numbers of engineering stationing as shown on the plans, the name of the street, area or building being taped, the direction of travel and the viewing side. Houses and buildings shall be identified visually by house or building address, when possible, in such manner that the progress of the taping and the proposed system may be located by reference to the houses and buildings.

### 3.04 SITE RECORDING CONDITIONS

- A. All audio-video taping shall be done during times of good visibility. No outside taping shall be done during periods of visible precipitation or when the ground area is covered with leaves or debris, unless otherwise authorized by the Engineer.

- B. In order to produce the proper detail and perspective, adequate auxiliary lighting will be required to fill in shadow areas caused by trees, utility poles, road signs and other such objects, as well as other conditions requiring artificial illumination.
- C. The average rate of speed in the general direction of travel of the conveyance used during taping shall not exceed 60 feet per minute. Planning rates and zoom-out rates shall be controlled sufficiently so that playback will produce adequate clarity of the object being viewed.
- D. When conventional wheeled vehicles are used as conveyances for the taping, the distance from the camera lens to the ground shall be such as to ensure proper perspective. In instances where tape coverage will be required in areas not accessible to conventional wheeled vehicles, such coverage shall be obtained by walking or by special conveyance approved by the Engineer but with the same requirements for tape quality and content as specified herein, except as may be specifically exempted by the Engineer.

**END OF SECTION**