

**UTILITY IDENTIFICATION MARKINGS**

**PART I: GENERAL**

- 1.1 GENERAL REQUIREMENTS
  - A. Markings that identify utilities during construction.
  - B. Markings that identify water, sanitary sewer, and storm manholes, valves, meters and cleanouts.
  
- 1.2 MEASUREMENT AND PAYMENT
  - A. Unit Prices:
    - 1. No separate payment shall be made for marking utilities during and after new construction or repair under this Section.
  
- 1.3 REFERENCES
  - A. APWA – American Public Works Association.
    - 1. APWA – Recommended Marking Guidelines for Underground Utilities.
  
- 1.4 SUBMITTALS
  - A. Submit manufacturer's product data concerning following materials for approval on type of marking paint being used.

**PART II: PRODUCTS**

- 2.1 PAINT FOR UTILITY IDENTIFICATION FOR EXCAVATIONS
  - A. Krylon Industrial Quik-Mark Solvent Based Inverted Marking Paint complying with APWA Recommendations or approved equal.
  
- 2.2. Markings for identification of newly installed utilities.
  - A. Krylon Industrial Quik-Mark Solvent-Based Inverted Marking Paint complying with APWA Recommendations or approved equal. The following colors shall be used for potable water and sanitary sewer:
    - 1. Potable Water: Krylon Industrial Quik-Mark Solvent-Based Inverted Marking Paint SO3903 or equivalent approved by the City's Project Manager.
    - 2. Sanitary Sewer: Krylon Industrial Quik-Mark Solvent-Base Inverted Marking Paint SO3904 or equivalent approved by the City's Project Manager.
  - B. Storm Sewer Manhole markings shall use Krylon Industrial Quik-Mark Solvent Based Paint or equivalent approved by the City's Project Manager.

**PART III: EXECUTION**

**3.1 PREPARATION**

- A. Accurately locate and install approved markers to conform to classes and colors indicated in this Section.
- B. Clean and repair surfaces to receive markings. Remove loose material, dust and contaminants such as oil, curing membrane or polished aggregates.

**3.2 INSTALLATION**

- A. Utility markings for excavation purposes shall be single line and have symbols approved by the APWA.
- B. See City of Friendswood Standard Marking Details for examples of new utility markings.
- C. Saw-cut curb or edge of pavement so that the saw-cut length matches the length as specified below. Saw-cut shall be a minimum of four inches (4 In) in length by one-quarter inch (1/4 In) in width by one-eighth inch (1/8 In) in depth.
- D. Markings for newly installed utilities shall comply with the following:
  - 1. Water Valves shall be marked by a nine inch (9 In) long by six inch (6 In) wide blue marker, using Krylon SO3903 marking paint and shall be perpendicular to the centerline of the road.
  - 2. Water Meters shall be marked by a nine inch (9 In) long by three inch (3 In) wide blue marker, using Krylon SO3903 marking paint and shall be perpendicular to the centerline of the road.
  - 3. Sanitary Sewer Manholes shall be marked by a nine inch (9 In) long by six inch (6 In) wide green marker, using Krylon SO3904 marking paint and shall be perpendicular to the centerline of the road.
  - 4. Sanitary Sewer Clean-outs shall be marked by a nine inch (9 In) long by three inch (3 In) wide green marker, using Krylon SO3904 marking paint and shall be perpendicular to the centerline of the road.
  - 5. Storm Sewer Manholes shall be marked by a nine inch (9 In) long by three inch (3 In) wide black marker, using Krylon SO3550 marking paint and shall be parallel to the centerline of the road.

**3.4 WARRANTY**

- A. Warrant material and labor for period of twelve months (12 Mos) from date of installation of markings.

**END OF SECTION**