ITEM #1208931A – Sign Face - sheet Aluminum (TYPE IX RETROREFLECTIVE SHEETING)

ITEM #1208937A – Sign Face - sheet Aluminum (TYPE XI RETROREFLECTIVE SHEETING)

 *Section 12.08 is supplemented and amended as follows:*

**12.08.01—Description:**

*Add the following:*

All signs shall use Type XI retroreflective sheeting with the exception of side-mounted signs with white background which shall be Type IX.

 This item shall also include field testing of metal sign base posts as directed by the Engineer.

Signs shall conform to the sign details located at <https://portal.ct.gov/DOT/Traffic-Engineering/Catalog-of-Signs> with legend for variable signs as shown in the plans.

A safety cable for span wire shall also be installed with Sign Catalog No. 41-0807 (ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN) which is called for at the following project intersection:

* Intersection No. 164-223 (Windsor) – Route 159 (Windsor Avenue) at Deerfield Road and Rood Avenue

**12.08.02— Materials:**

 *Add the following*

 Safety cable for span wire shall be stainless steel and meet the requirements specified by the manufacturer.

**12.08.03—Construction Methods:**

 *Delete the last sentence and add the following:*

 Metal sign base posts shall be whole and uncut. Sign base post embedment and reveal lengths shall be as shown on the plans. The Contractor shall drive the metal sign base posts by hand tools, by mechanical means or by auguring holes. If an obstruction is encountered while driving or placing the metal sign base post, the Contractor shall notify the Engineer who will determine whether the obstruction shall be removed, the sign base post or posts relocated, or the base post installation in ledge detail shall apply. Backfill shall be thoroughly tamped after the posts have been set level and plumb.

The safety cable for span wire shall go around the span wire and fed between the hanger bracket and the free swing mounted sign bracket.

 **Field Testing of Metal Sign Posts:** When the sign installations are complete, the Contractor shall notify the Engineer the Project is ready for field testing. Based on the number of posts in the Project, the Engineer will select random sign base posts which shall be removed by the Contractor for inspection and measurement by the Engineer. After such inspection is completed at each base post location, the Contractor shall restore or replace such portions of the work to the condition required by the Contract. Refer to the table in 12.08.05 for the number of posts to be field tested.

**12.08.04—Method of Measurement:**

 *Add the following:*

 The work required to expose and measure sign base post length and embedment depth using field testing methods, and restoration of such work, will not be measured for payment and shall be included in the general cost of the work.

**12.08.05—Basis of Payment:**

 *Replace the entire Article with the following:*

 This work will be paid for at the Contract unit price per square foot for “Sign Face - Sheet Aluminum” of the type specified complete in place, adjusted by multiplying by the applicable Pay Factor listed in the table below. The price for this work shall include the completed sign, metal sign post(s), span-mounted sign brackets and mast arm-mounted brackets, safety cable, mounting hardware, including reinforcing plates, field testing, restoration and replacement of defective base post(s), and all materials, equipment, and work incidental thereto.

 **Pay Factor Scale:** Work shall be considered defective whenever the base post length or base post embedment depth is less than the specified length by more than 2 inches. If the number of defects results in rejection, the Contractor shall remove and replace all metal sign base posts on the Project, at no cost to the Department.

**Number of Posts to be Tested and Pay Factors (Based on Number of Defects)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of Posts in Project =>** | **51-100** | **101-250** | **251-1000** | **>1000** |
| **Sample Size=>** | **5 Posts** | **10 Posts** | **40 Posts** | **60 Posts** |
| 0 Defects | 1.0 | 1.0 | 1.025 | 1.025 |
| 1 Defect | 0.9 | 0.95 | 0.975 | 0.983 |
| 2 Defects | Rejection | 0.9 | 0.95 | 0.967 |
| 3 Defects | Rejection | Rejection | 0.925 | 0.95 |
| 4 Defects | Rejection | Rejection | 0.9 | 0.933 |
| 5 Defects | Rejection | Rejection | Rejection | 0.917 |
| 6 Defects | Rejection | Rejection | Rejection | 0.9 |
| 7 or more Defects | Rejection | Rejection | Rejection | Rejection |

Note: Projects with 50 or fewer posts will not include field testing