**7AH**

**LINEAR DELINEATIoN PANELS (Temporary Barrier Wall)**

(Effective March 30, 2023)

**Description**.This work shall consist of placing linear delineation panels on temporary concrete barrier wall.

**Materials.** Each panel shall not be less than 34 inches in length and 6 inches in width. The panels shall be constructed of cube-corner retroreflective material in standard highway colors permanently bonded to an aluminum substrate. The lateral edges of each panel shall be hemmed. The panel assembly shall have a repeating raised lateral ridge every 2.25 inches. Each ridge shall be 0.34 inches high with a 45° profile and a 0.28 inch radius top.

Daytime color requirements shall be determined from measurement of the retroreflective sheeting applied to aluminum test panels. Daytime color shall be measured instrumentally using a spectrophotometer employing annular 45/0 (or equivalent 0/45) illuminating and viewing geometry. Measurements shall be made in accordance with ASTM E1164 for ordinary colors or ASTM E2153 for fluorescent colors. Chromaticity coordinates shall be calculated for CIE Illuminant D65 and the CIE 1931 (2o) Standard Colorimetric Observer in accordance with ASTM E308 for ordinary colors or ASTM E2152 for fluorescent colors.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  | | **Chromaticity Limits for White** | | | | | | | | | |  | |  | |  | |
|  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | x | | y | | x | | y | | x | | y | | x | | y | | Limit Y (%) | | | |
|  |  | |  | |  | |  | |  | |  | |  | |  | | Min | | Max | |
| White | 0.303 | | 0.287 | | 0.368 | | 0.353 | | 0.340 | | 0.380 | | 0.274 | | 0.316 | | 40 | | - | |
|  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  | |  | | **Chromaticity Limits for Fluorescent Orange** | | | | | | | | | |  | |  | |  | |
|  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
|  | |  | |  | |  | |  | |  | |  | |  | |  | | Total Luminance | | | |
|  | | x | | y | | x | | y | | x | | y | | x | | y | | Factor Y (%) | | | |
|  | |  | |  | |  | |  | |  | |  | |  | |  | | Min | | | |
| Fluor. | | 0.595 | | 0.351 | | 0.645 | | 0.355 | | 0.583 | | 0.416 | | 0.542 | | 0.403 | | 30 | | | |
| Orange | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |

**Construction Requirements** Two (2) panels shall be placed on each section of temporary concrete barrier wall 24 inches up from the bottom of the wall to the top of the panel. These panels shall be alternating white and fluorescent orange and have a spacing of 28 inches apart and centered horizontally on each section of barrier wall. These panels shall be used in lieu of the Type C reflectors shown on Standard 704001.

Each panel shall be attached to the temporary concrete barrier wall according to the manufacturer’s specifications.

**Basis of Payment.** The Linear Delineation Panels will not be paid for separately but shall be considered included in the cost of the Temporary Concrete Barrier.