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1. **Design Criteria:**

- a. This section discusses large wall mirrors. Restroom mirrors are discussed in the 10 - Toilet Accessories section.
- b. Mirrors shall be adhered to substrates and mounted with perimeter trim.
- c. Mirrors shall comply with ASTM C 1503; manufactured using copper-free, low-lead mirror coating process.

2. **References**

- a. ASTM C920 – Standard Specification for Elastomeric Joint Sealants, 2014.
- b. ASTM C1036 – Standard Specification for Flat Glass; 2011.
- c. ASTM C1048 – Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2012.
- d. ASTM C1193 – Standard Guide for Use of Joint Sealants; 2013.
- e. ASTM C1503 – Standard Specification for Silvered Flat Glass Mirror; 2018.
- f. GANA (GM) – GANA Glazing Manual; 2009.
- g. GANA (SM) – GANA Sealant Manual; 2008.

3. **Required Submittals:**

- a. Product Data: For each type of product indicated.
- b. Shop Drawings: Include mirror elevations, edge details, mirror hardware, and attachments to other work.
- c. Samples: For each type of the following products:
 - i. Mirrors: 12 inches square, including edge treatment on two adjoining edges.
 - ii. Mirror Clips: Full size.
 - iii. Mirror Trim: 12 inches long.

4. **Products, Materials & Equipment:**

- a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
 - i. Arch Aluminum & Glass Co., Inc.
 - ii. Avalon Glass and Mirror Company.
 - iii. Gilded Mirrors, Inc.
 - iv. Guardian Industries.
 - v. Lenoir Mirror Company.

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- vi. Virginia Mirror Company, Inc.
- vii. Walker Glass Co., Ltd.
- viii. Donisi Mirror Company, www.donisimirror.com
- b. Top and Bottom Aluminum J-Channels - Aluminum extrusions with a return deep enough to produce a glazing channel to accommodate mirrors of thickness indicated and in lengths required to cover bottom and top edges of each mirror in a single piece.
 - i. Subject to compliance with requirements, available products that may be incorporated into the Work include:
 - 1. Laurence, C. R. Co., Inc.; CRL Standard "J" Channel.
 - 2. Sommer & Maca Industries, Inc.; Aluminum Shallow Nose "J" Moulding Lower Bar.
 - 3. Sommer & Maca Industries, Inc.; Heavy Gauge Aluminum Shallow Nose "J" Moulding Lower Bar.
 - c. Horizontal Seams are not permitted.
 - d. Penetrations shall be shop cut and fit mirrors to accurately accommodate all penetrations, outlets, switches, and other items.

5. **Installation, Fabrication, and Construction:**

- a. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- b. Comply with:
 - i. "Installation Guidelines", GANA Mirror Division, www.mirrorlink.org
 - ii. "Mirrors: Handle With Extreme Care", GANA, www.glasswebsite.com
- c. Mirrors shall be cleaned as part of final cleaning required by the contract.
 - i. Comply with GANA MD-01-0105 "Proper Procedures for Cleaning Flat Glass Mirrors", www.glasswebsite.com.

6. **Warranties:**

- a. Special Warranty: Manufacturer's standard form in which mirror manufacturer agrees to replace mirrors that deteriorate within specified warranty period. Deterioration of mirrors is defined as defects developed from normal use that are not attributed to mirror breakage or to maintaining and cleaning mirrors contrary to manufacturer's written instructions. Defects include discoloration, black spots, and clouding of the silver film.