K. SOUND BARRIER WALL NOTES

1. Distance between piles shall be a minimum of 20 ft. from centerline to centerline. These Sound Barrier Wall Standard Indexes allow for 5 Pile/Post connection options based on either 10 or 20 ft. post spacing. The panel system depicted in Index 5202 through 5204 is based on a 20 ft. post spacing.

2. Walls greater than 12 ft (11 ft in height shall consist of 2 or 3 stacked panels (upper and lower), each less than 12 ft in height. The height of the upper panel shall be a minimum of 8 ft, or greater as necessary to provide any graphic relief (if applicable). The lower panel(s) shall be not less than 4 ft in height. Walls equal to or less than 12 ft in height shall consist of either a single panel or 2 stacked panels with an 8 ft. upper panel provided that any graphic relief (if applicable) will fit within the upper panel.

3. Horizontal panel joints shall be located outside of the graphic relief (if applicable). Horizontal panel joints shall be held at a constant deviation for a given wall, where possible.

4. Posts shall be "H" type cross-section with panels installed above and below frame above.

5. See Index No. 5205 for the five pile/post connection options. The Contractor may choose any of these options, unless specifically excluded in the Sound Barrier QPL Acceptance Criteria. The complete panel description of the Sound Barrier QPL Acceptance Criteria Index E, Index 5205 (Sheets 6 & 7 of 7), have an expiration date of August 10, 2010. Any use of Pile/Post Connection Option E on or before August 10, 2010 is subject to the rights of the patent holder (U.S. Patent Nos. 5,234,209; 5,429,455) and all patent royalties or license fees shall be the sole responsibility of the user. To construct Pile/Post Connection Option E on or before the patent expiration date, contact:

   State Contracting and Engineering, Corp.
   3800 North 29th Street
   Hollywood, FL 33020
   Phone: (954) 923-4747

6. All posts shall be held plum in auger cast piles with an installation template. The template shall be adjustable for horizontal placement, vertical placement, and plumbness of posts. The template shall be such that the installation tolerances can be held. Template shall remain in place for a minimum of 12 hours after post installation.

7. The Contractor shall be responsible for ensuring OSHA requirements are met. The Contractor shall ensure any utility adjustments, and power stops, all rejections, special erection methods, etc. to meet these requirements shall be included in bid.

8. Shims shall be held at a constant elevation for a given wall, where possible.

9. Structural Steel - Pile/Post Connection Option D: Post assemblies shall be shop fabricated in accordance with the latest revision of ANSI/AWS D1.1 Welding Code. Field welding is not permitted.

10. Structural Steel with Concrete Casting - Pile/Post Connection Option C: Store steel posts in a location protected against environmental conditions. Precast pour the concrete around the structural post, post shall be free of loose rust, scale, dirt, paint, oil and foreign material.

11. Shimming of wall panels above the pile collar, beneath the bearing pads is permitted up to a maximum of ±1/4" height. Shims must be either stainless steel plate (Type 304 or 316) or engineer approved plastic. Plastic shims must have a minimum compressive strength of 8,000 psi without any fractures. Stacking of shims is permitted as follows:

   a. For shimming height of 1" or less, provide up to 4 - 1/4" shims.

   b. For shimming heights greater than 1", use a minimum 1/2" thick single shim and up to 3 - 1/2" shims. Stacked shim plates must be bonded together with a compatible epoxy adhesive.

   c. For shimming height of 1" or less, provide up to 4 - 1/2" shims.

   d. For shimming heights greater than 1", use a minimum 1/2" thick single shim and up to 3 - 1/2" shims. Stacked shim plates must be bonded together with a compatible epoxy adhesive.

L. VECP OR CONTRACTOR REDESIGN:

1. In no case will VECPs or Contractor Redesigns be allowed to modify foundation designs, or post spacing.

2. Substitution of proprietary panels or systems not listed in the Wall Control Drawings will not be allowed.

M. QUALIFIED PRODUCTS LIST:

Manufacturers shall obtain approval of proprietary sound barrier panels, posts and foundations or systems for inclusion on the Qualified Products list. All pre-approved suppliers must submit a QPL Product Evaluation Application along with design documentation, vendor drawings and other information as required in the Sound Barrier QPL Acceptance Criteria. The complete panel description of the proprietary product is designed to meet all specified requirements. Private shop Specific Shop Projects are not covered for sound barrier projects in accordance with Specification Section 534.

N. ALTERNATES

1. The Contractor shall construct the standard precast 20'-0" panel option depicted in the plans or shall construct one of the proprietary sound barrier panel or proprietary system options (panel and foundation) listed in the Wall Control Drawings.

O. FINISH COATING:

1. All wall areas not shown to receive an anti-graffiti coating shall be coated in accordance with Specification Section 400 of the Specifications with a Class 5 Applied Finish Coating. The color of the system shall be the same as the anti-graffiti system or directed by the Engineer.

   a. Structural Steel Post Assembly Coating System - Pile/Post Connection Option D: The steel post assembly shall be coated in accordance with Specification Section 460. Welding details and welding operations shall be in accordance with the current edition of ANSI/AWS D1.1 Welding Code. Field welding is not permitted.

   b. Structural Steel with Concrete Casting - Pile/Post Connection Option C: Store steel posts in a location protected against environmental conditions. Precast pour the concrete around the structural post, post shall be free of loose rust, scale, dirt, paint, oil and foreign material.

   c. Shimming of wall panels above the pile collar, beneath the bearing pads is permitted up to a maximum of ±1/4" height. Shims must be either stainless steel plate (Type 304 or 316) or engineer approved plastic. Plastic shims must have a minimum compressive strength of 8,000 psi without any fractures. Stacking of shims is permitted as follows:

   a. For shimming height of 1" or less, provide up to 4 - 1/4" shims.

   b. For shimming heights greater than 1", use a minimum 1/2" thick single shim and up to 3 - 1/2" shims. Stacked shim plates must be bonded together with a compatible epoxy adhesive.

   c. For shimming height of 1" or less, provide up to 4 - 1/2" shims.

   d. For shimming heights greater than 1", use a minimum 1/2" thick single shim and up to 3 - 1/2" shims. Stacked shim plates must be bonded together with a compatible epoxy adhesive.