

Ornamental Rail Installation Checklist

February, 2016

REMINDER: Adhesive Anchor Installers must be trained to install anchorages. They must provide certification credentials per ACI-CRSI at the pre-activity meeting. (see the 2402 special provisions and the Spec Book for details)

A. Prior to Anchorage Installation

(REVIEW SPECIAL PROVISIONS)

- 1) Proposed date of installation?
- 2) Number of days between pouring of barrier and testing of anchorages?
- 3) Forecast weather conditions on date anchors will be installed?
- 4) Name of adhesive to be used on anchors?
- 5) Name of APL approved "Silicone Joint Sealant" to be used between concrete barrier and rail post base plates?
- 6) Receive paperwork for hardware (all hardware must meet specs 3391 and 3392)
- 7) Have Contractor explain tentative method of installation and repair.

B. Anchorage Installation

- 1) How holes will be laid out?
- 2) Proposed embedment depth,
- 3) Will holes in concrete be drilled or cored (per manufacturer's literature)?
- 4) What size hole is required?
- 5) Who will make the holes?
- 6) Who will prep the holes?
- 7) Who will install the anchorages?

C. Anchorage Installation

- 1) Are holes laid out correctly?
- 2) Is embedment depth accurate?
- 3) Are holes in concrete drilled or cored per manufacturer's literature?
- 4) Was the correct hole size made?
- 5) Did the correct person make the holes in the concrete?
- 6) Did the correct person prep the holes?
- 7) Did the correct person install the anchorages?
- 8) HAS THE HOLE BEEN DRY FOR AT LEAST 24 HRS?

D. Testing of the Anchorages

- 1) Who will be performing the tests?
- 2) When will tests be performed?
- 3) How many tests will be performed?
- 4) What proof load is going to be used for the tests?
- 5) Method to remove and retest failed anchorages?
- 5) Was the installation documentation completed and submitted to the correct people?

E. Installing Posts and Rail Sections

- 1) Unloading, moving and storage of posts and rail sections (if rail is damaged determine the fix immediately before installing) dunnage must be placed under coated rails do not allow laying on concrete without dunnage under it,
- 2) Method of caulking base plate (see special provisions for details and sealing anchorages,
- 3) How will adjustments be made?
- 4) What torque will be used to tighten hardware?

F. Grounding of Rail Sections

G. Repair of Damage to Coating

H. Touch-up of Hardware