Addendum to the Concrete Batch Plant Control Plan

Pipe Pile Seals Pier

Appendix F of the Concrete Batch Plant Control Plan has been updated to include drawings of the steel sleeves and the soffit panel work plan.

The following procedure will be used to secure the steel sleeves to the pre-cast concrete soffit panels:

1. Preference is to have the steel sleeves set 1-2 days prior to setting pre-cast concrete form (“tub”). Steel sleeves will be temporarily secured to the pile with ratchet straps during this time.
   a. If necessary to aid in installation a lubricant may be used to aid in placing the fiberglass sleeve onto the pile.
2. Steel sleeve will be supported by up to six 3/8”-inch diameter rods, connected through a 5/8” diameter hole in the flange of the sleeve and a three-inch steel angle below. Lifting eyes at the top of each rod will attach to a nylon ratchet strap to allow securing and adjustment.
3. After installation of the tub and prior to placing concrete, the steel sleeve will be inspected by crews to confirm the steel sleeve is properly placed and making positive contact to the pre-cast tub per the plan.
   a. If, based on the inspection by the crew, a void is observed the crew will attempt to further secure the steel sleeve to the pre-cast tub.
   b. If, based on the inspection by the crew, the steel sleeve shows evidence of large deflection and/or displacement, inspection and adjustment from below may be necessary, such as addition of friction collars, backer rods or similar sealing material.
4. Crews will place one to two inches of sand into the annular space between the pile and pre-cast tub.
5. Filter fabric, or similar, will be placed over the 6-inch floor valves prior to placement of concrete.
6. Crews will continue to monitor the steel sleeve during placement of concrete to confirm that the engineering controls are effective and functional.
   a. If the filter fabric becomes clogged or impairs the valve’s ability to maintain hydrostatic equilibrium within the pre-cast concrete tub it may be replaced or removed to prevent undermining the structural integrity of the tremie seal as it cures.
7. Observations of turbidity extending outside of the steel sleeve will be communicated to the site foreman who will implement corrective actions as appropriate. Corrective actions that could be taken are, but not limited to, the following:
   a. Stop placement of concrete
   b. Add additional backer rod, rope, or similar to fill observed gaps
   c. Tighten rods and ratchet straps
   d. Pre-inspection of upcoming piles for evidence of gaps and voids
Pipe Pile Seals Pier and Piers:

Appendix F of the Concrete Batch Plant Control Plan has been updated to include drawings of the fiberglass sleeves and the soffit panel work plan.

The following procedure will be used to secure the fiberglass sleeves to the pre-cast concrete soffit panels:

1. Preference is to have the fiberglass sleeves set 1-2 days prior to setting pre-cast concrete form (“tub”). Sleeves will be temporarily secured to the pile with ratchet straps during this time.
   a. If necessary to aid in installation a lubricant may be used to aid in placing the fiberglass sleeve onto the pile.
2. Fiberglass sleeve will be supported by four 3/8”-inch diameter rods, connected through a 5/8” diameter hole in the flange of the sleeve and a 2x4-inch timber chock, cut to fit, below. Lifting eyes at the top of each rod will attach to a nylon ratchet strap to allow securing and adjustment.
3. Prior to placing concrete the fiberglass sleeve will be inspected by crew members to confirm the fiberglass sleeve is properly placed and affixed to the pre-cast tub per the plan.
   a. If, based on the inspection by the crew, a void is observed the crew will attempt to further secure the fiberglass sleeve to the pre-cast tub.
   b. If, based on the inspection by the crew, the fiberglass sleeve shows evidence of large deflection and/or displacement, inspection and adjustment from below may be necessary, such as addition of friction collars, backer rods or similar sealing material.
4. Crews will place one to two inches of sand into the annular space between the pile and pre-cast tub.
5. Filter fabric, or similar, will be placed over the 6-inch floor valves prior to placement of concrete.
6. Crew members will continue to inspect the fiberglass sleeve during placement of concrete to confirm that the engineering controls are effective and functional.
   a. If the filter fabric becomes clogged or impairs the valve’s ability to maintain hydrostatic equilibrium within the pre-cast concrete tub it may be replaced or removed to prevent undermining the structural integrity of the tremie seal as it cures.
7. Observations of turbidity extending outside of the fiberglass sleeve will be communicated to the site foreman who will implement corrective actions as appropriate. Corrective actions that could be taken are, but not limited to, the following:
   a. Stop placement of concrete
   b. Add additional backer rod, rope, or similar to fill observed gaps
   c. Tighten rods and ratchet straps
   d. Pre-inspection of upcoming piles for evidence of gaps and voids
Step 1: Prep forms on barge

Step 2: Set Form On Pile

Step 3: Push Down Form w/ Cut-off

Step 4: Tub pushes soffit to final EL
Step 1: Ratchet Soffits

Step 2: Layer of Sand

Step 3: Guide Tremie Pipe

Step 4: Fill 2" to 6" below precast

*Note*
Once the pour is complete, ensure hose and pipe are completely clean. Run ball through pipe to clean. Clean in containment area.
NOTE:

72" PILE = 73.5 I.D. + 15" FLANGE

FLANGE CONNECTOR

FLANGE SUPERFICIAL

5/8" dia. Rubber Air Hose

D Profile Closed Cell Foam Seals

HOLE

MONOTUBE FIBERGLASS JACKET,
1/4" WALL THICKNESS

3" WIDE NEOPRENE SEAL

6" WIDE NEOPRENE SEAL

FLANGE CONNECTOR

5/8" dia. Rubber Air Hose

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1/4" WALL THICKNESS

3" WIDE NEOPRENE SEAL

6" WIDE NEOPRENE SEAL

Three-dimensional view

Typical plan

Typical elevation

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New York State Thruway Authority

TAPPAN ZEE BRIDGE:
HUDSON RIVER CROSSING

AL. Project # 051 REVISITED
Date 10.08.13
Customer Approval:

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