TAPPAN ZEE
CONSTRUCTORS, LLC

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:

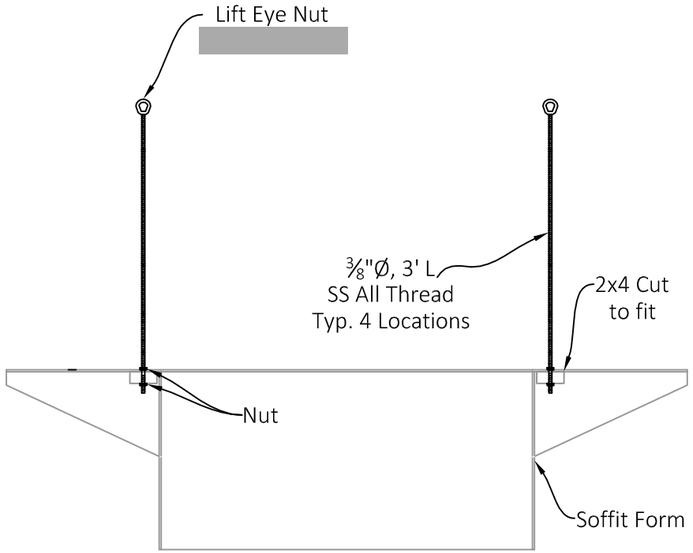
1. Preference is to have the steel sleeves set 1-2 days prior to setting pre-cast concrete form ("tub"). Steel sleeves will be temporarily secured to the pile with ratchet straps during this time.
    a. If necessary to aid in installation a lubricant may be used to aid in placing the fiberglass sleeve 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 [redacted] and Piers [redacted]:

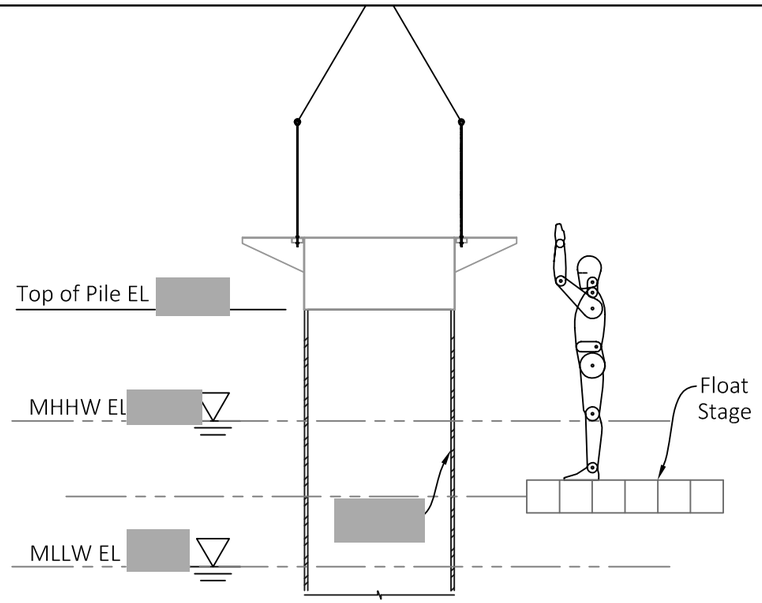
Appendix F of the Concrete Batch Plant Control Plan has been updated to include drawings of the [redacted] fiberglass sleeves and the soffit panel work plan.

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

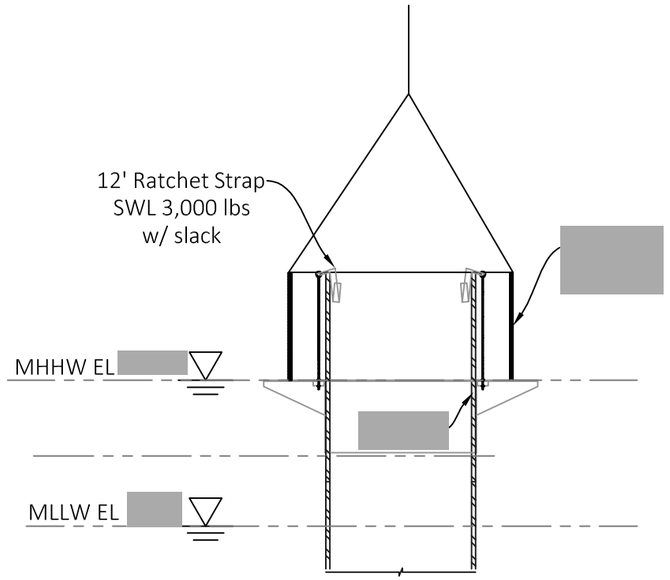
1. Preference is to have the fiberglass sleeves set 1-2 days prior to setting pre-cast concrete form ("tub"). Sleeves will be temporarily secured to the pile with ratchet straps during this time.
    a. If necessary to aid in installation a lubricant may be used to aid in placing the fiberglass sleeve 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



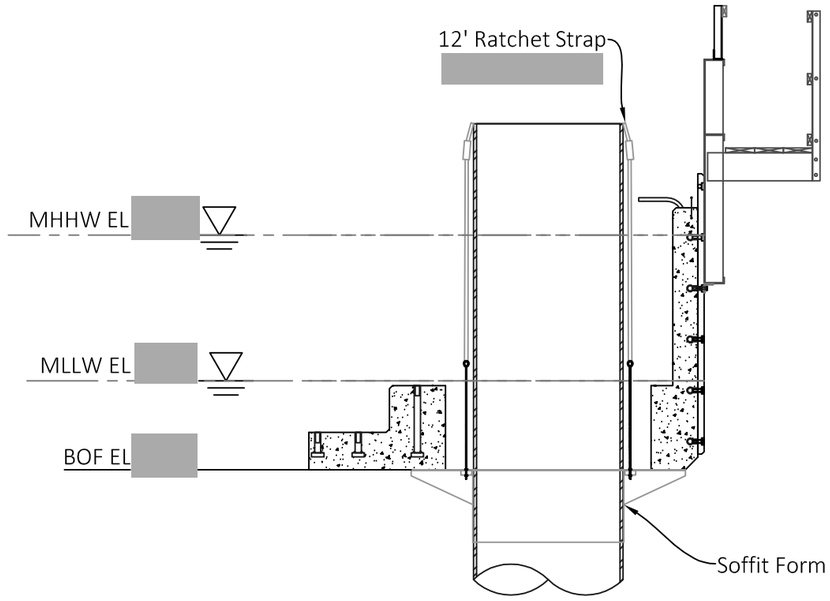
Step 1: Prep forms on barge



Step 2: Set Form On Pile



Step 3: Push Down Form w/ Cut-off



Step 4: Tub pushes soffit to final EL

ALTERED ON:	AFFIXED ON:
SIGNATURE: STAMP:	SIGNATURE: STAMP:

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, NY 12209

TITLE OF PROJECT	CONTRACT NUMBER
THE NEW NY BRIDGE	D214134

LOCATION OF PROJECT
MILEPOST 14.67 +/- IN
ROCKLAND & WESTCHESTER COUNTIES

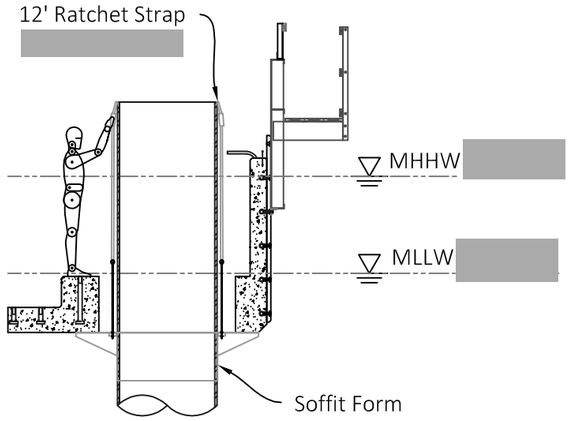
TAPPAN ZEE CONSTRUCTORS, LLC

REVISIONS				
REV	DATE	BY	CHK BY	DESCRIPTION
6				
5				
4				
3				
2				
1				

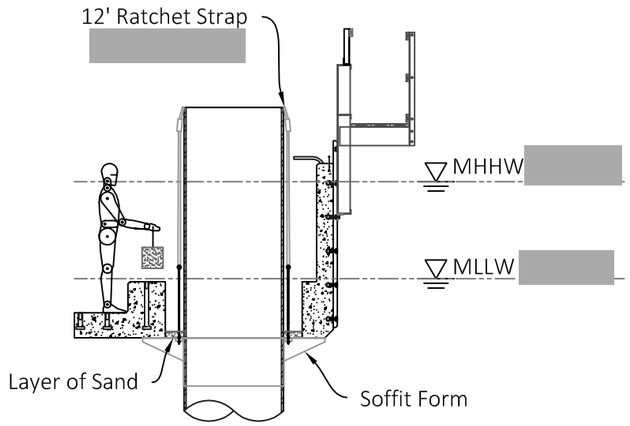
DESIGNED BY:	MWK
DESIGN CH'K BY:	JAC
DRAWN BY:	MWK
DRAWING CH'K BY:	JAC
SUPERVISOR:	JAC

TITLE OF DRAWING
APPROACH PRECAST
PILE CAP TUBS
SOFFIT FORM & ANNULAR
SEAL CWP

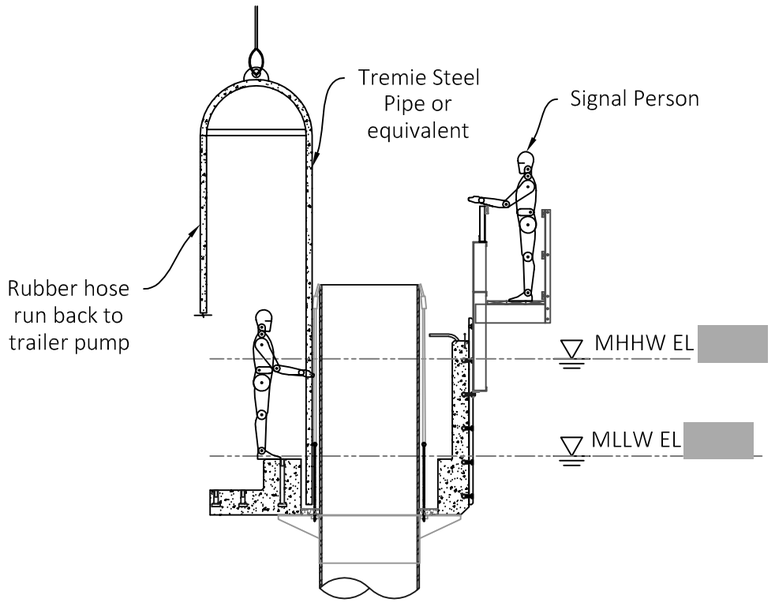
DATE: 01/29/2015
DRAWING NUMBER: 00217-003
REVISION: 0



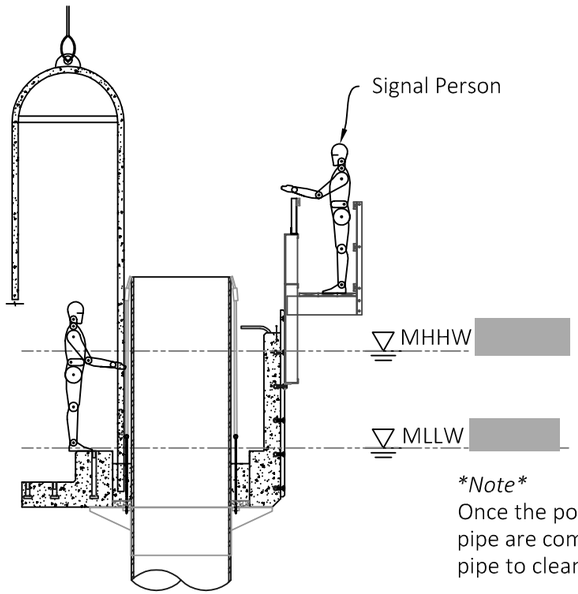
Step 1: Ratchet Soffits



Step 2: Layer of Sand



Step 3: Guide Tremie Pipe



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

Step 4: Fill 2" to 6" below precast

ALTERED ON:	AFFIXED ON:
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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TAPPAN ZEE CONSTRUCTORS, LLC

REVISIONS				
REV	DATE	BY	CHK BY	DESCRIPTION
6				
5				
4				
3				
2				
1				

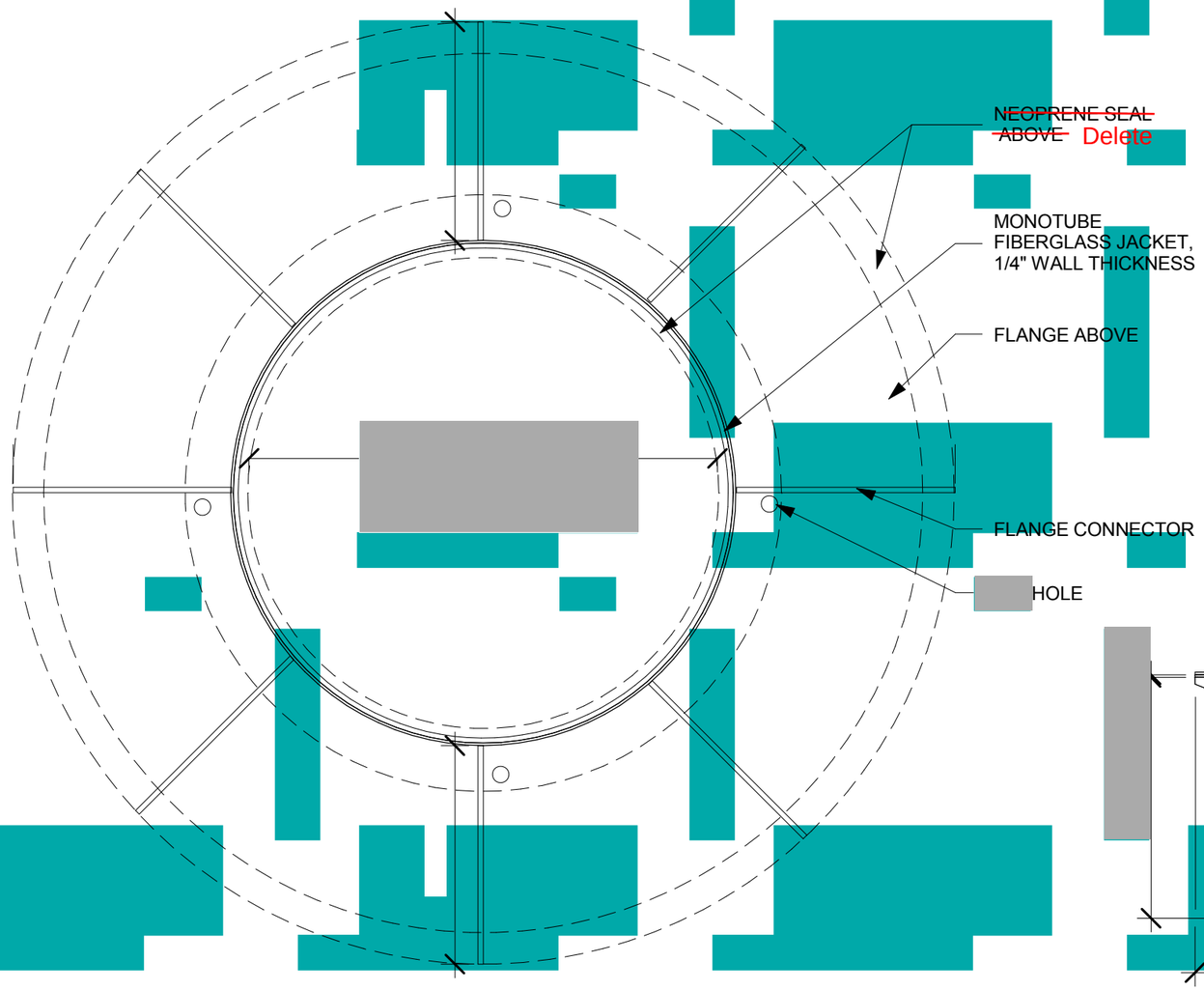
DESIGNED BY:	MWK
DESIGN CH'K BY:	JAC
DRAWN BY:	MWK
DRAWING CH'K BY:	JAC
SUPERVISOR:	JAC

TITLE OF DRAWING
APPROACH PRECAST
PILE CAP TUBS
SOFFIT FORM & ANNULAR
SEAL CWP

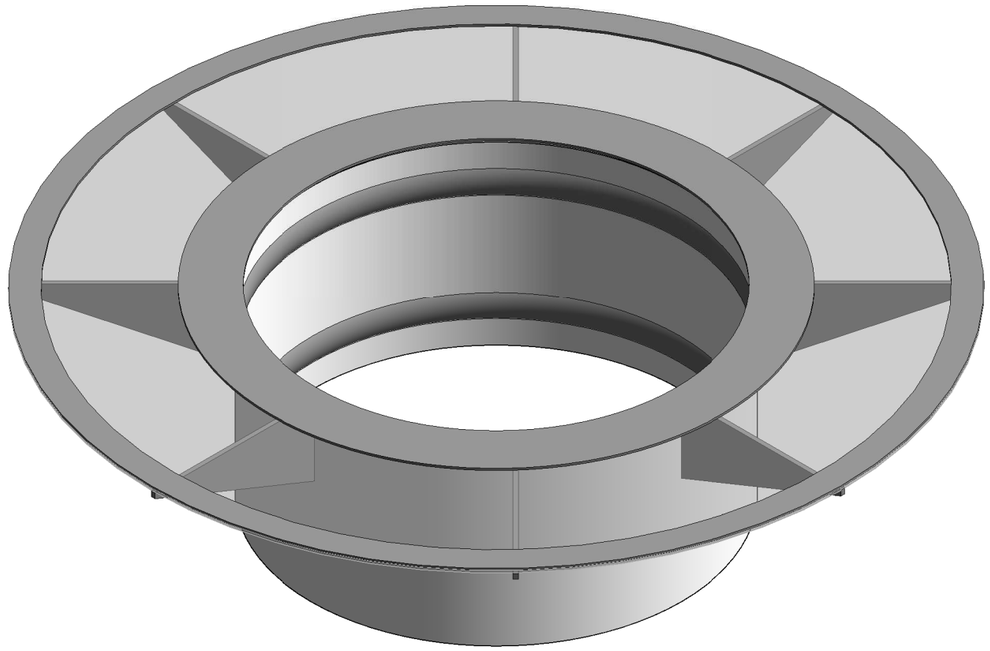
DATE:	01/29/2015
DRAWING NUMBER:	00217-006
REVISION:	0

NOTE:

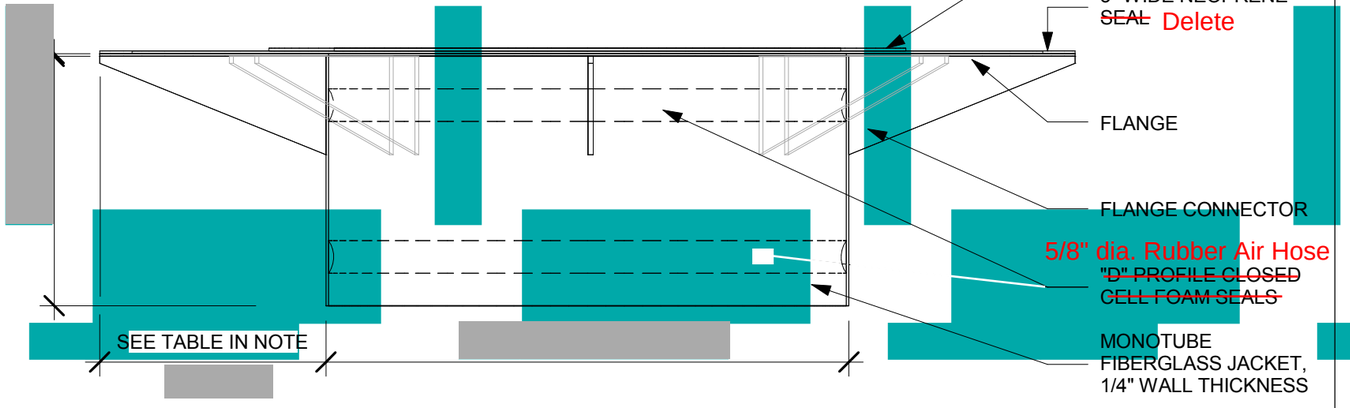
~~72" PILE = 73.5" I.D. + 15" FLANGE~~



1 TYPICAL PLAN



2 3D VIEW



3 TYPICAL ELEVATION

Five Star Marine, Inc.
750 Commerce Drive
Fairfield, CT. 06825
203.336.7919
www.5Star-Marine.com

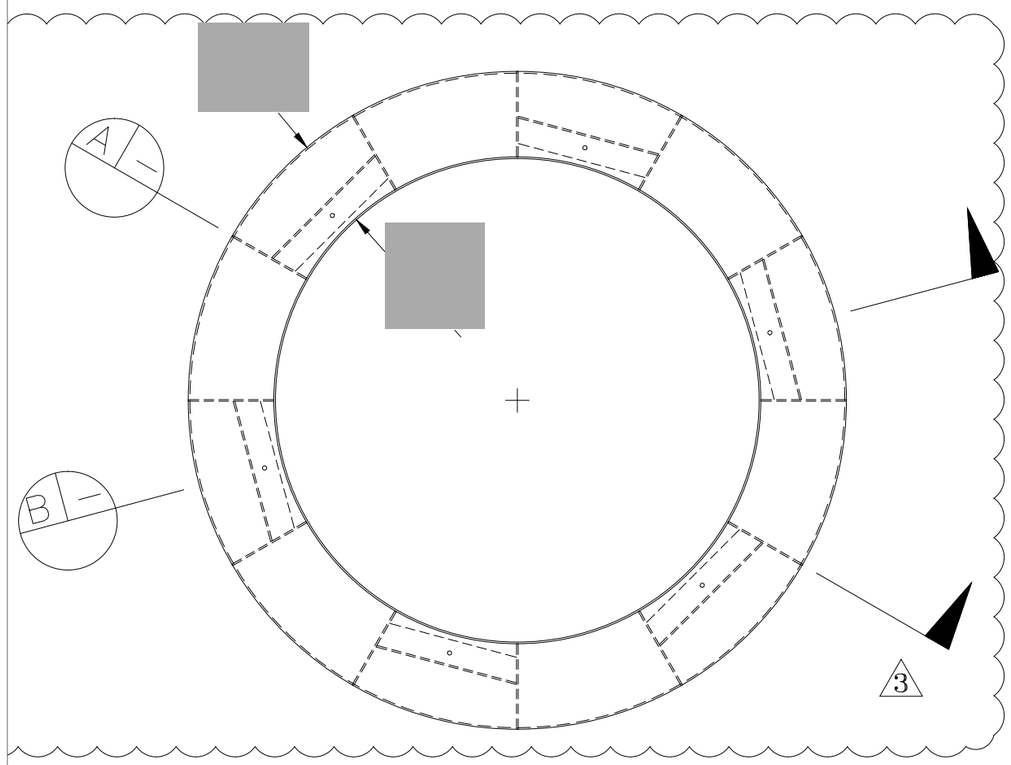
TAPPAN ZEE CONSTRUCTORS
A Consortium of Fluor, American Bridge, Granite, and Traylor Bros.

New York State Thruway Authority

TAPPAN ZEE BRIDGE:
HUDSON RIVER CROSSING

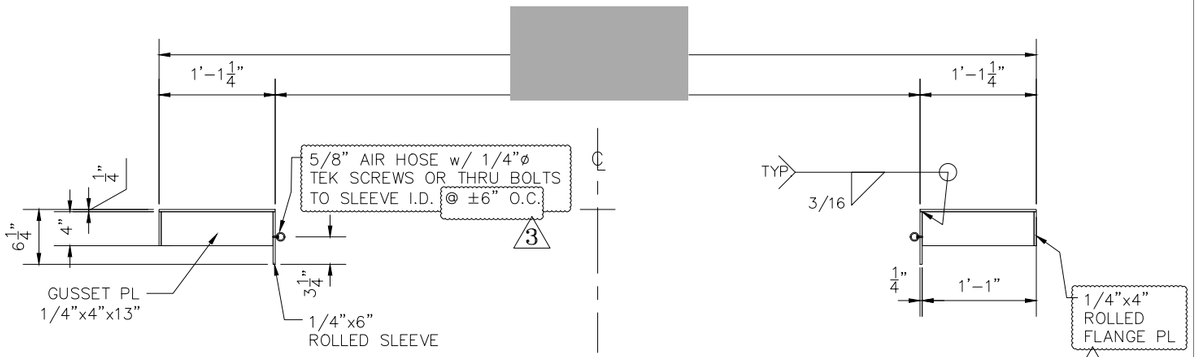
AL Project #	051 REVISITED
Date	10.08.13
Drawn by	ASL

Customer Approval:



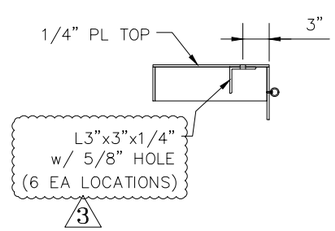
PLAN: PILE SEAL FORM

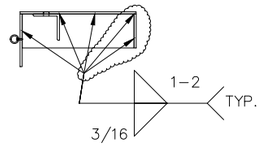
(40)EA REQUIRED



A SECTION

-





B SECTION

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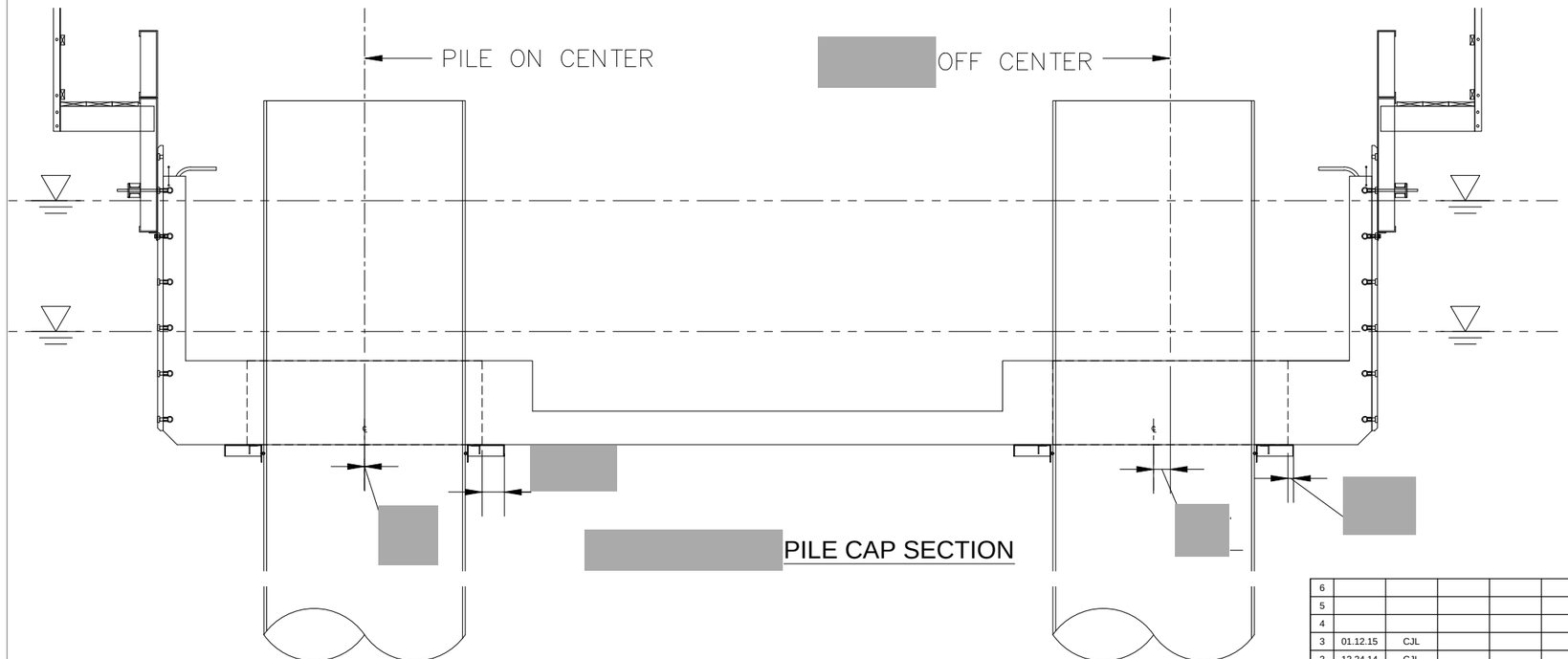
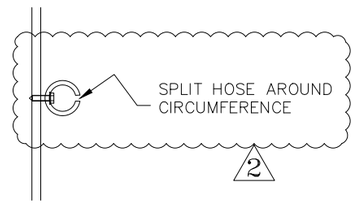


PILE CAP SECTION



REV	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION
6						
5						
4						
3	01.12.15	CJL				Changes to L3x3 & Screw Spacing
2	12.24.14	CJL				Changes to Gusset PL's and Hose
1	12.12.14	CJL				GENERAL DETAIL UPDATE

TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

APPROACH PRECAST PILE CAP BOXES
72IN PILE SEAL FORM - NEW VERSION
SHEET 1

TAPPAN ZEE
CONSTRUCTORS, LLC

Design By:	CJL	Date: 10.30.2014	
Design Chk:		Date:	
Drawn By:	CJL	Date: 10.30.2014	
Drawing CHK:	MWK	Date: 01.12.2015	
In Charge Of:	JAC		
NYSTA Contract Number		Sheet No.	
D214134		TZC-CJL103014-2	
Scale: NTS		Revision: 3	