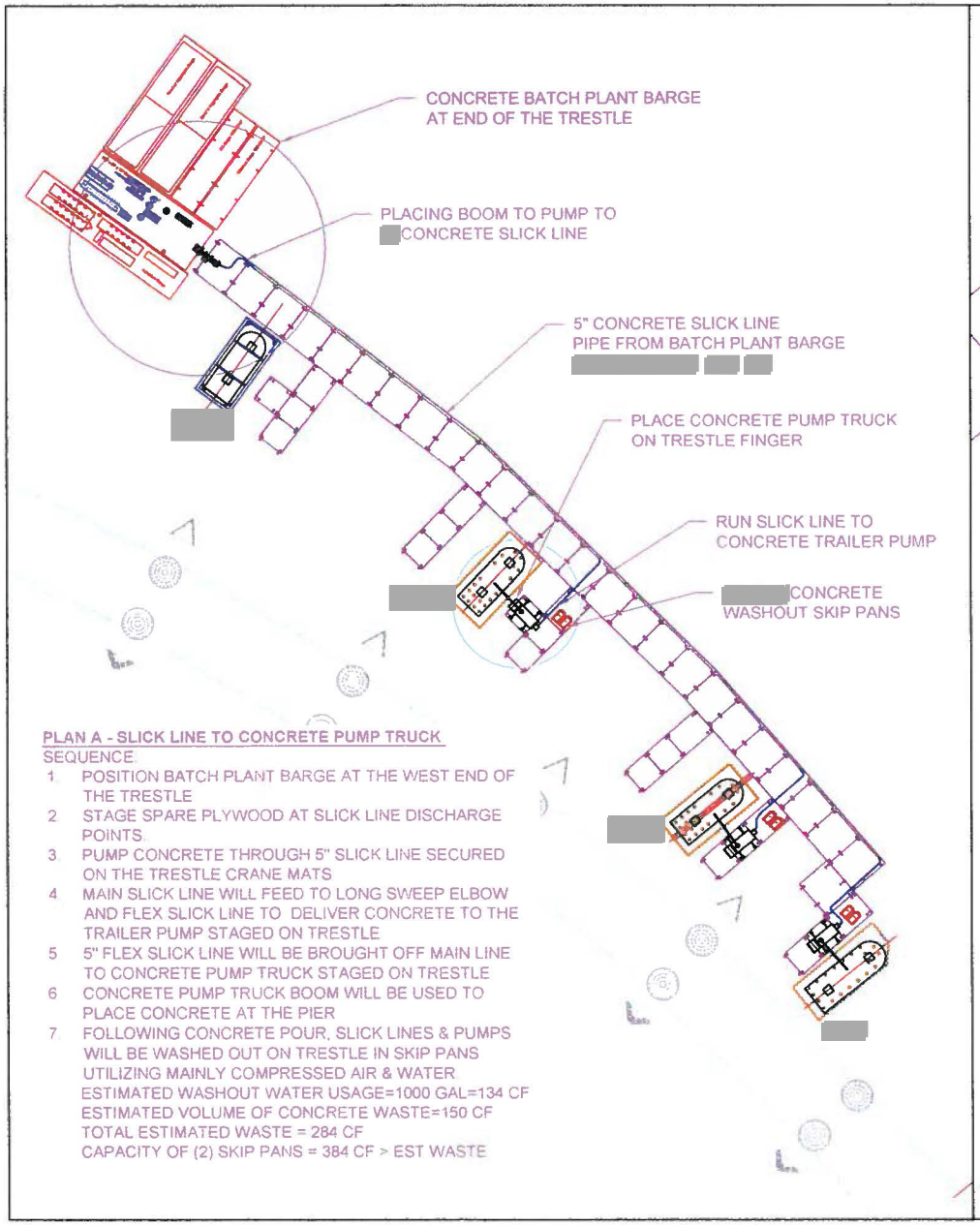
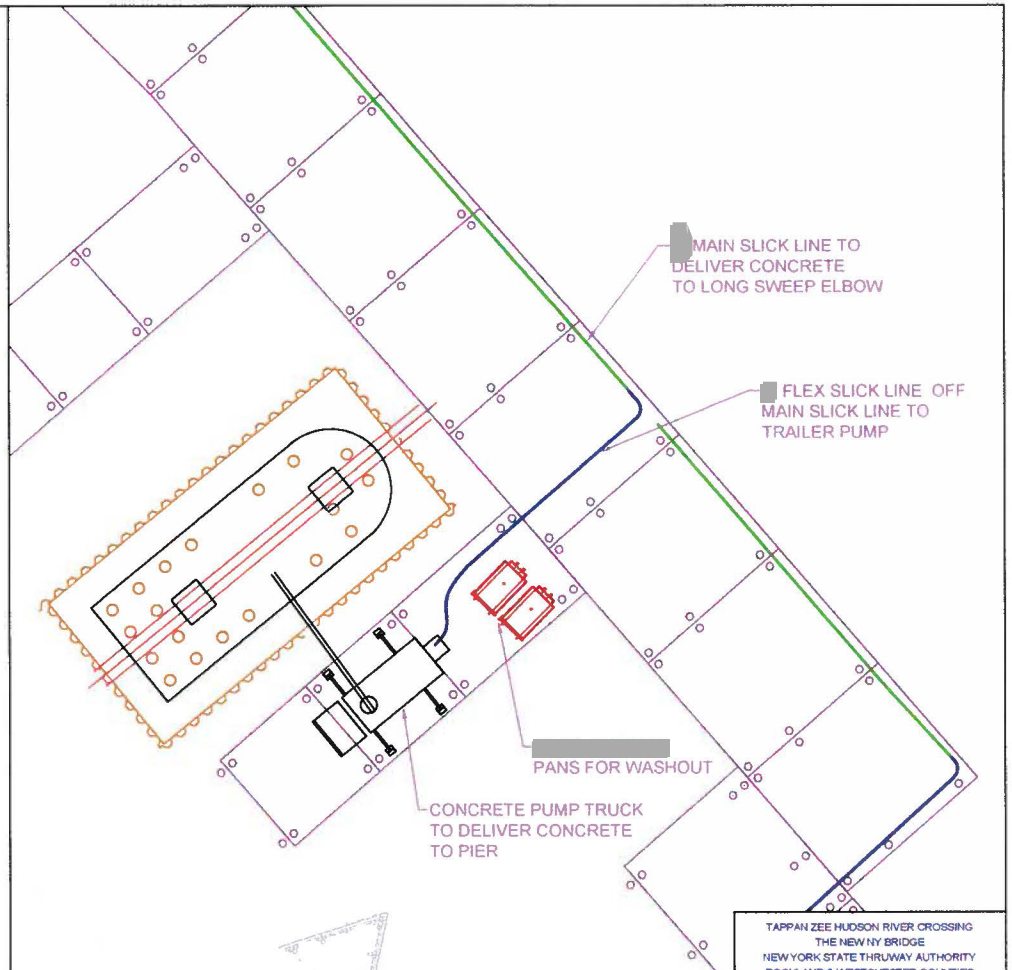




PLAN A - SLICK LINE TO CONCRETE PUMP TRUCK

SEQUENCE:

1. POSITION BATCH PLANT BARGE AT THE WEST END OF THE TRESTLE
2. STAGE SPARE PLYWOOD AT SLICK LINE DISCHARGE POINTS.
3. PUMP CONCRETE THROUGH 5" SLICK LINE SECURED ON THE TRESTLE CRANE MATS
4. MAIN SLICK LINE WILL FEED TO LONG SWEEP ELBOW AND FLEX SLICK LINE TO DELIVER CONCRETE TO THE TRAILER PUMP STAGED ON TRESTLE
5. 5" FLEX SLICK LINE WILL BE BROUGHT OFF MAIN LINE TO CONCRETE PUMP TRUCK STAGED ON TRESTLE
6. CONCRETE PUMP TRUCK BOOM WILL BE USED TO PLACE CONCRETE AT THE PIER
7. FOLLOWING CONCRETE POUR, SLICK LINES & PUMPS WILL BE WASHED OUT ON TRESTLE IN SKIP PANS UTILIZING MAINLY COMPRESSED AIR & WATER

ESTIMATED WASHOUT WATER USAGE=1000 GAL=134 CF
ESTIMATED VOLUME OF CONCRETE WASTE=150 CF
TOTAL ESTIMATED WASTE = 284 CF
CAPACITY OF (2) SKIP PANS = 384 CF > EST WASTE

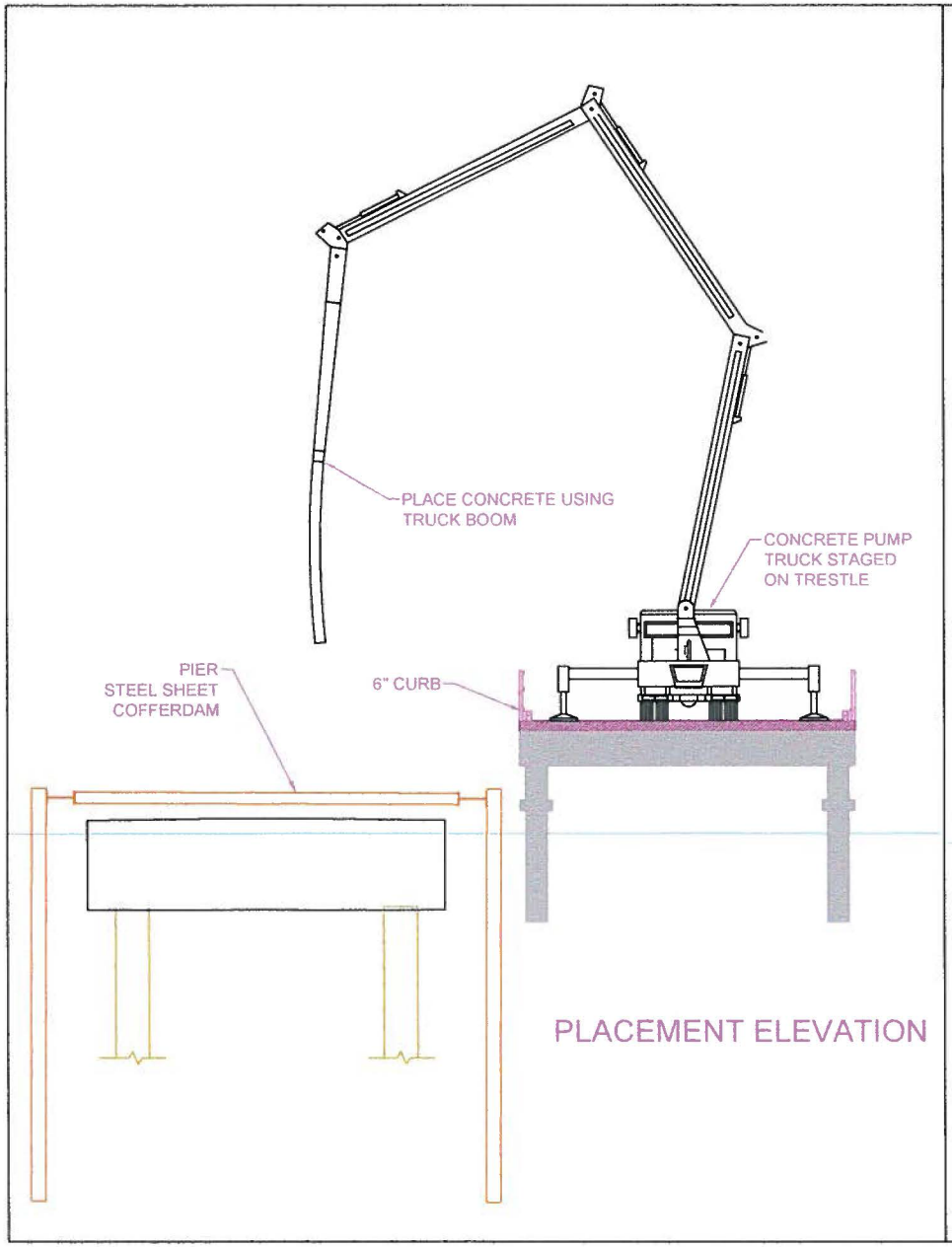
TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

CONCRETE PLACEMENT PLAN
ADDENDUM
PLAN A - SLICK LINE TO PUMP TRUCK

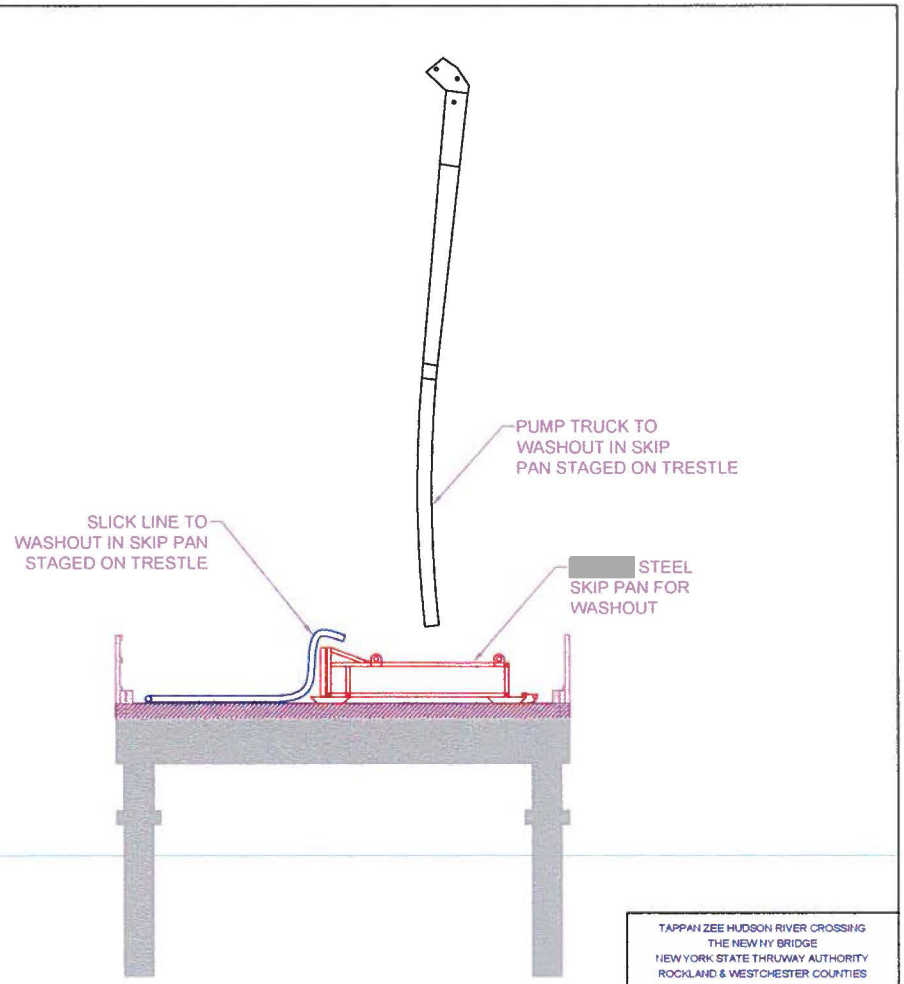
TAPPAN ZEE CONSTRUCTORS, LLC

6							
5							
4							
3							
2							
1							
REV	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION	

Design By:	Date:
Design Chk:	Date:
Drawn By: JBO	Date: 8/19/14
Drawing CHK:	Date:
In Charge Of:	
NYSTA Contract Number D214134	Sheet No. C-PLAN A
Scale:	Revision:



PLACEMENT ELEVATION



WASHOUT ELEVATION

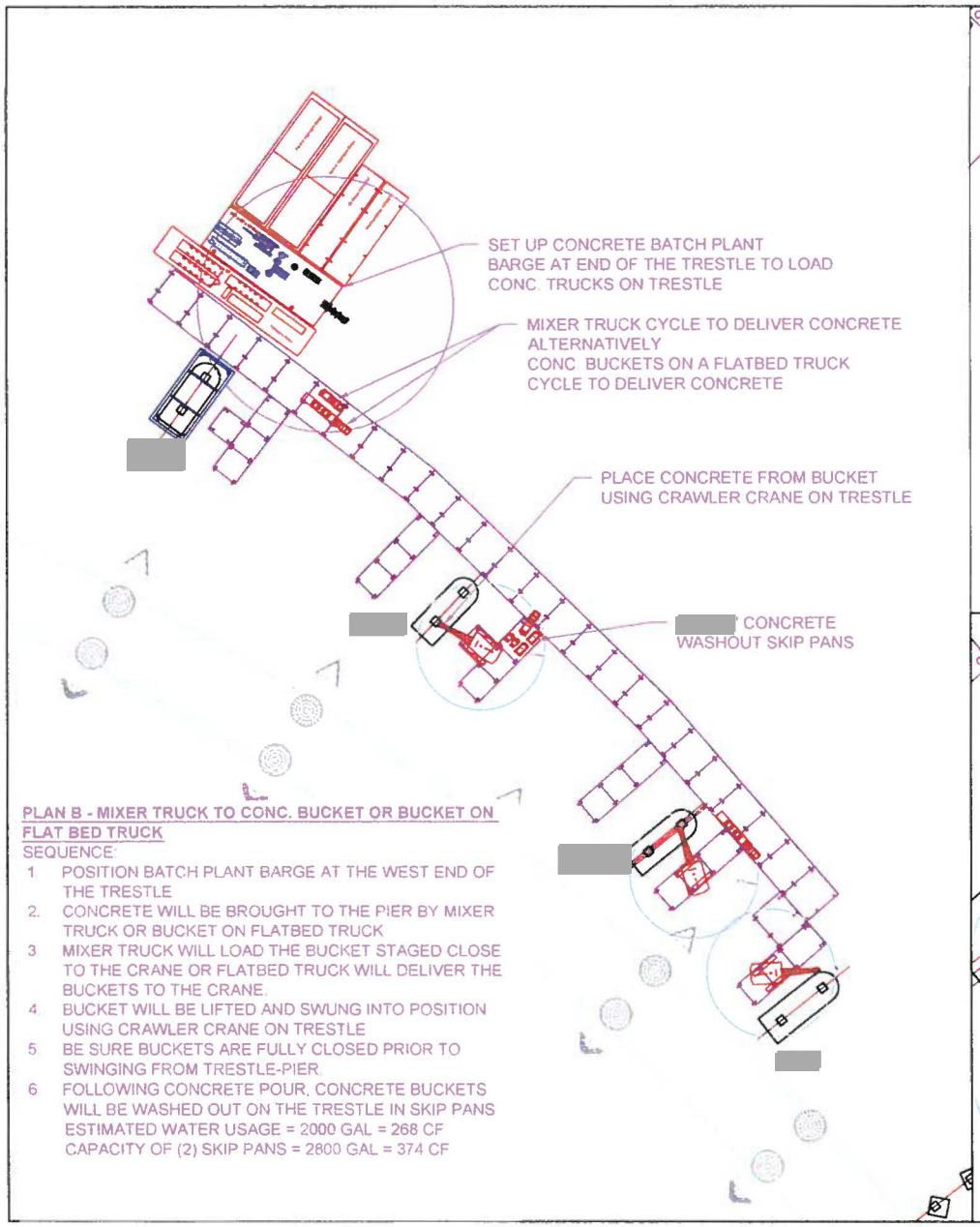
TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

CONCRETE PLACEMENT PLAN
ADDENDUM
SLICK LINE TO PUMP TRUCK

TAPPAN ZEE CONSTRUCTORS, LLC

6							
5							
4							
3							
2							
1							
REV	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION	

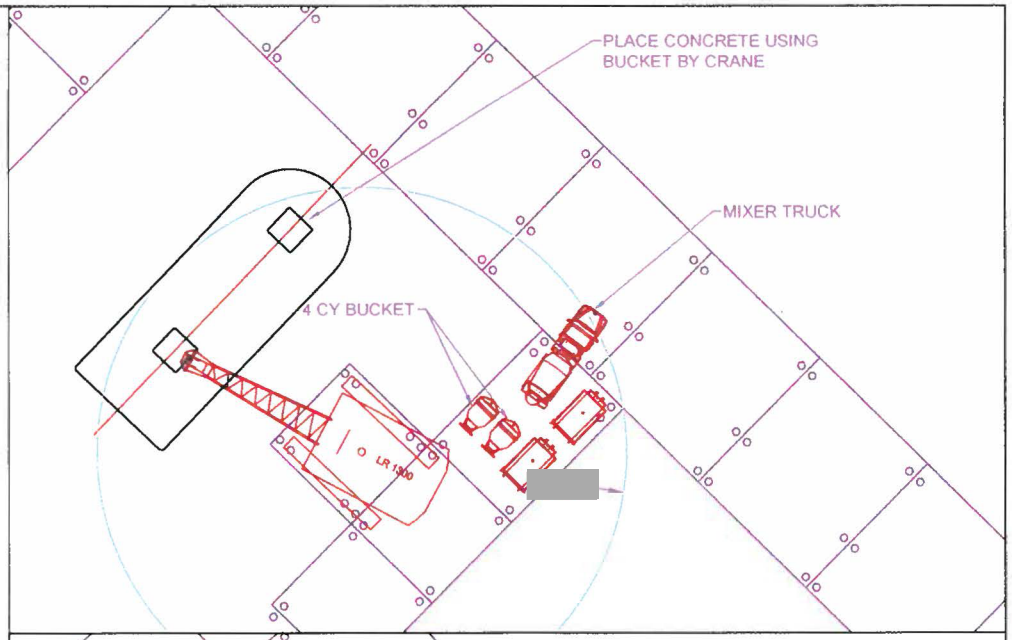
Design By: Date:
Design Chk: Date:
Drawn By: JBO Date: 8/19/2014
Drawing CHK: Date:
In Charge Of:
NYSTA Contract Number: D214134
Sheet No.: CE-PLAN A
Revision:

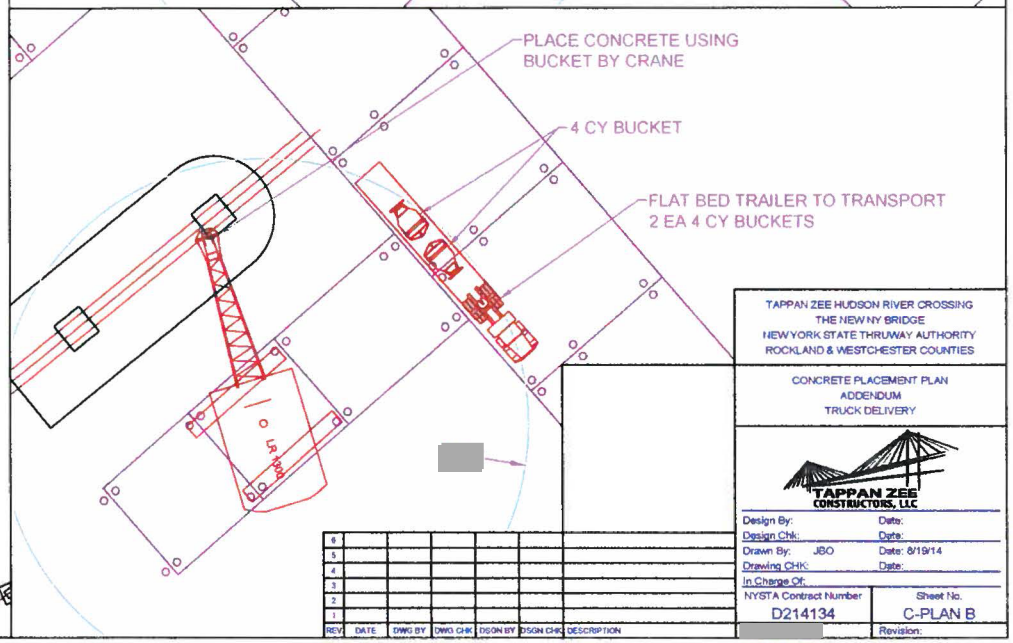


PLAN B - MIXER TRUCK TO CONC. BUCKET OR BUCKET ON FLAT BED TRUCK

SEQUENCE:

1. POSITION BATCH PLANT BARGE AT THE WEST END OF THE TRESTLE
2. CONCRETE WILL BE BROUGHT TO THE PIER BY MIXER TRUCK OR BUCKET ON FLATBED TRUCK
3. MIXER TRUCK WILL LOAD THE BUCKET STAGED CLOSE TO THE CRANE OR FLATBED TRUCK WILL DELIVER THE BUCKETS TO THE CRANE.
4. BUCKET WILL BE LIFTED AND SWUNG INTO POSITION USING CRAWLER CRANE ON TRESTLE
5. BE SURE BUCKETS ARE FULLY CLOSED PRIOR TO SWINGING FROM TRESTLE-PIER.
6. FOLLOWING CONCRETE POUR, CONCRETE BUCKETS WILL BE WASHED OUT ON THE TRESTLE IN SKIP PANS
   ESTIMATED WATER USAGE = 2000 GAL = 268 CF
   CAPACITY OF (2) SKIP PANS = 2800 GAL = 374 CF





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

CONCRETE PLACEMENT PLAN
ADDENDUM
TRUCK DELIVERY

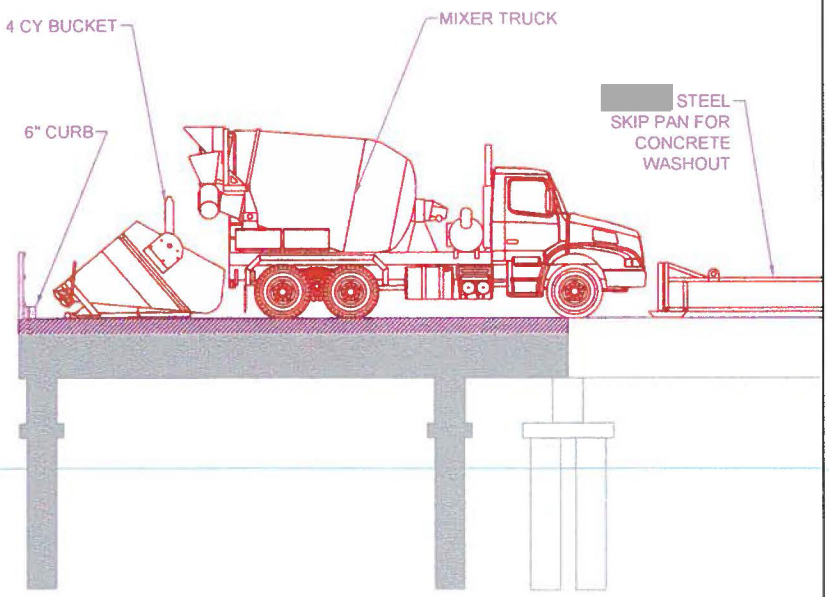
TAPPAN ZEE CONSTRUCTORS, LLC

6							
5							
4							
3							
2							
1							
REV.	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION	

Design By:	Date:
Design Chk:	Date:
Drawn By: JBO	Date: 8/19/14
Drawing CHK:	Date:
In Charge Of:	
NYSTA Contract Number	Sheet No.
D214134	C-PLAN B
	Revision:

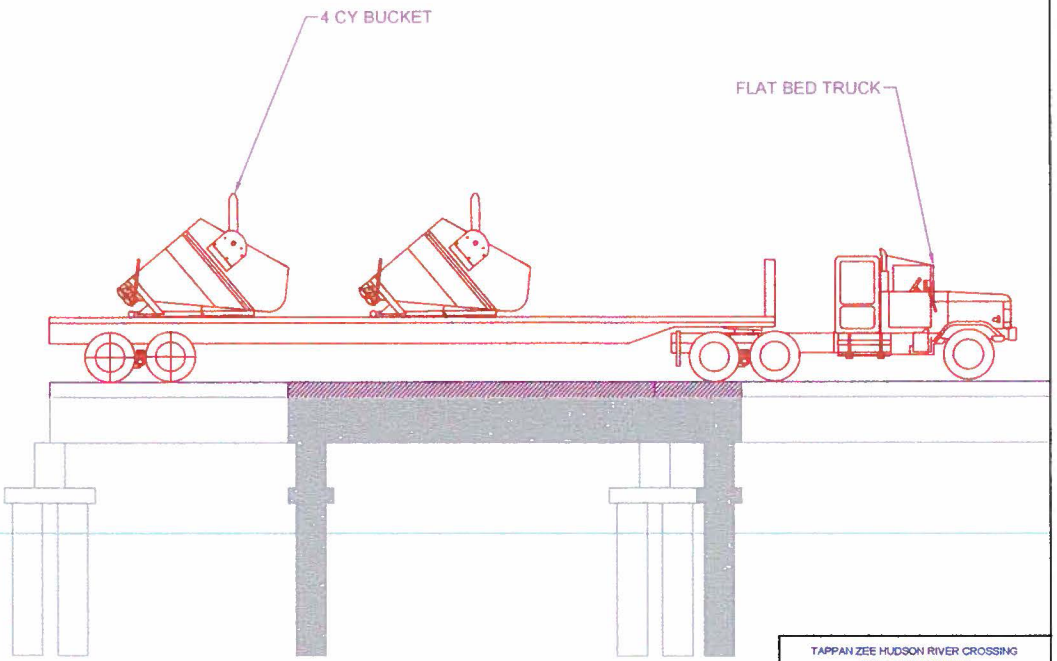
PLAN B

MIXER TRUCK OPTION



PLAN B

FLAT BED TRUCK OPTION



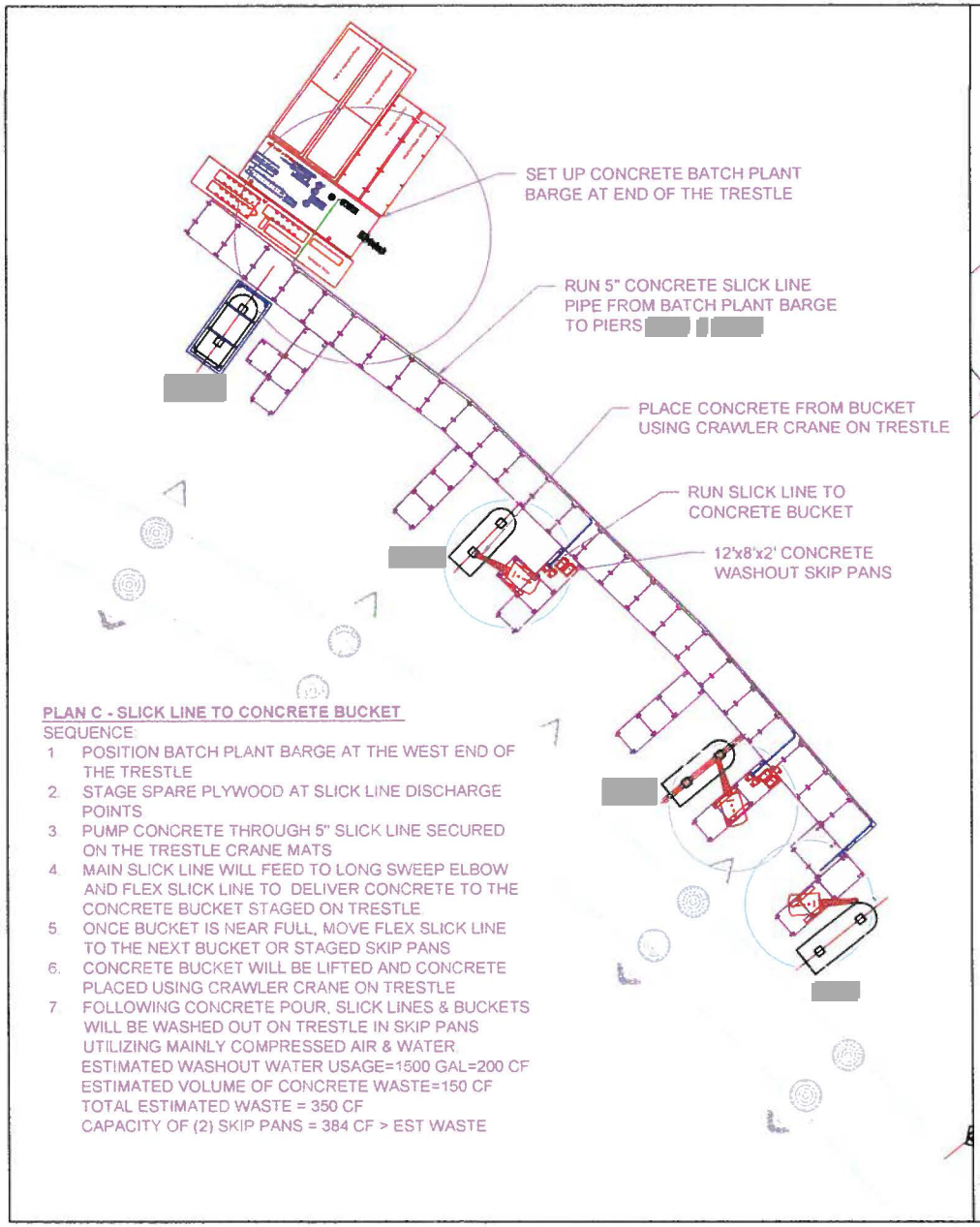
TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

CONCRETE PLACEMENT PLAN
ADDENDUM
PLAN B - TRUCK DELIVERY

TAPPAN ZEE CONSTRUCTORS, LLC

REV	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION
6						
5						
4						
3						
2						
1						

Design By:	Date:
Design Chk:	Date:
Drawn By: JBO	Date: 8/19/14
Drawing CHK:	Date:
In Charge Of:	
NYSTA Contract Number: D214134	Sheet No.: CE-PLAN B
	Revision:

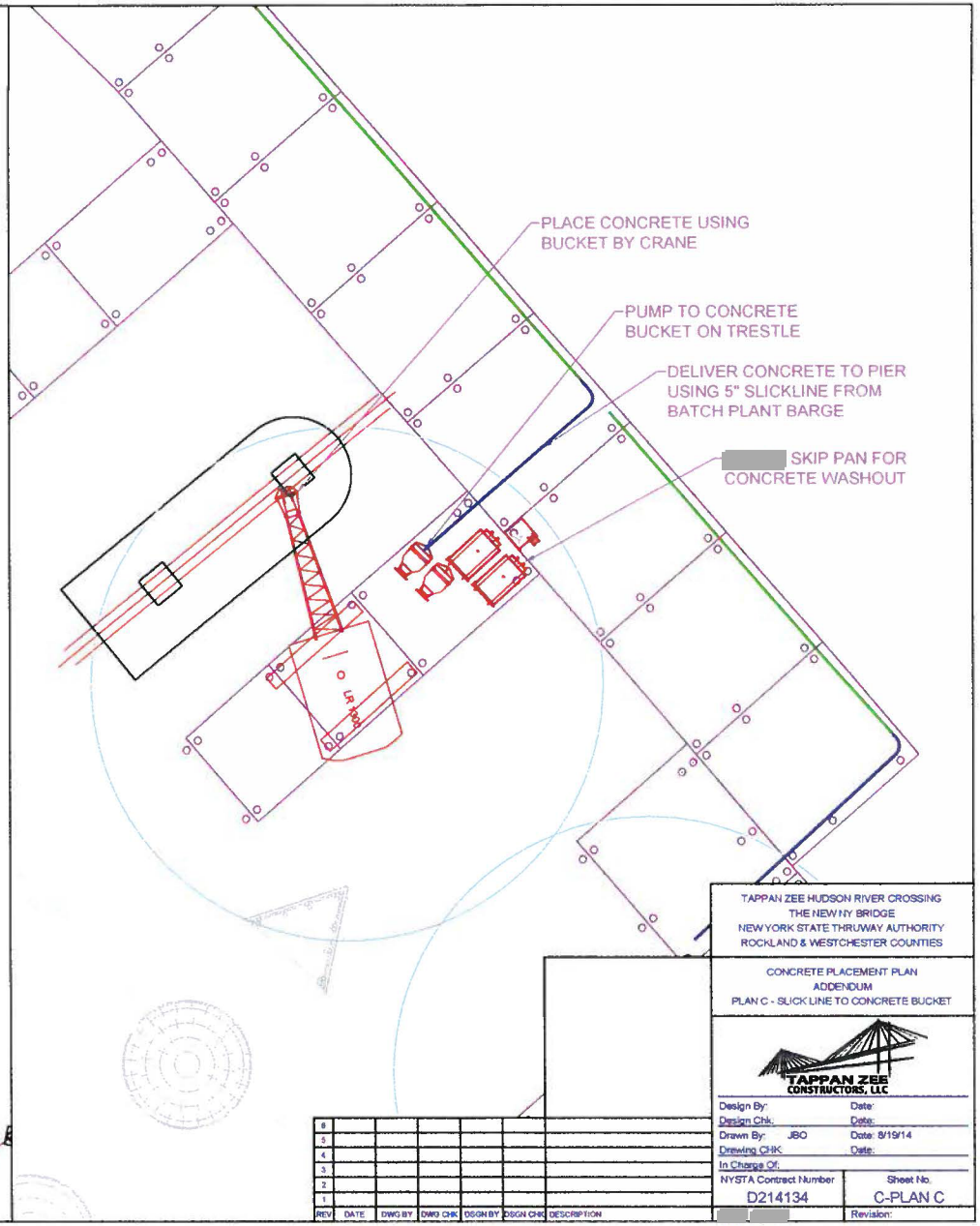


PLAN C - SLICK LINE TO CONCRETE BUCKET

SEQUENCE

1. POSITION BATCH PLANT BARGE AT THE WEST END OF THE TRESTLE
2. STAGE SPARE PLYWOOD AT SLICK LINE DISCHARGE POINTS
3. PUMP CONCRETE THROUGH 5" SLICK LINE SECURED ON THE TRESTLE CRANE MATS
4. MAIN SLICK LINE WILL FEED TO LONG SWEEP ELBOW AND FLEX SLICK LINE TO DELIVER CONCRETE TO THE CONCRETE BUCKET STAGED ON TRESTLE
5. ONCE BUCKET IS NEAR FULL, MOVE FLEX SLICK LINE TO THE NEXT BUCKET OR STAGED SKIP PANS
6. CONCRETE BUCKET WILL BE LIFTED AND CONCRETE PLACED USING CRAWLER CRANE ON TRESTLE
7. FOLLOWING CONCRETE POUR, SLICK LINES & BUCKETS WILL BE WASHED OUT ON TRESTLE IN SKIP PANS UTILIZING MAINLY COMPRESSED AIR & WATER

ESTIMATED WASHOUT WATER USAGE=1500 GAL=200 CF
ESTIMATED VOLUME OF CONCRETE WASTE=150 CF
TOTAL ESTIMATED WASTE = 350 CF
CAPACITY OF (2) SKIP PANS = 384 CF > EST WASTE



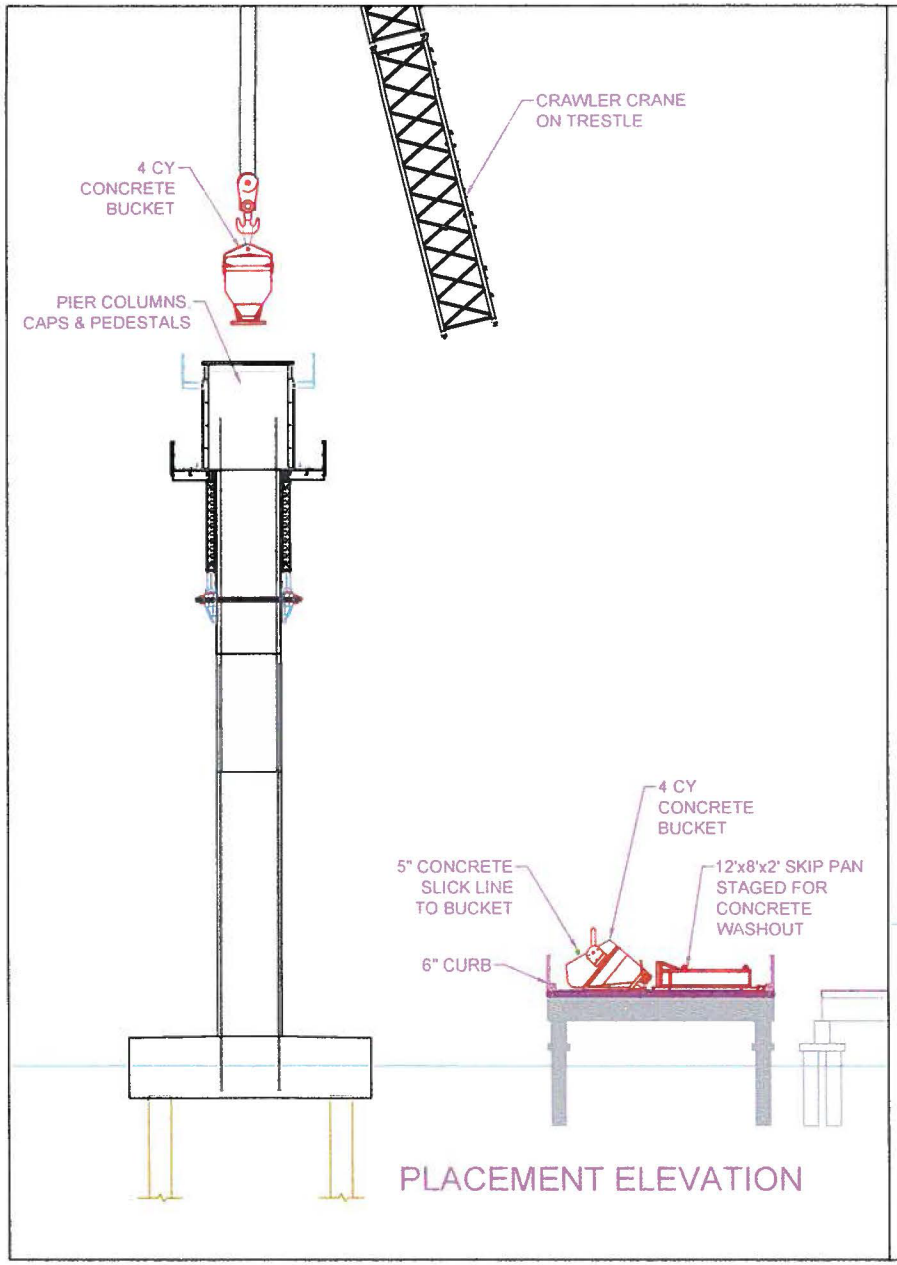
TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

CONCRETE PLACEMENT PLAN
ADDENDUM
PLAN C - SLICK LINE TO CONCRETE BUCKET

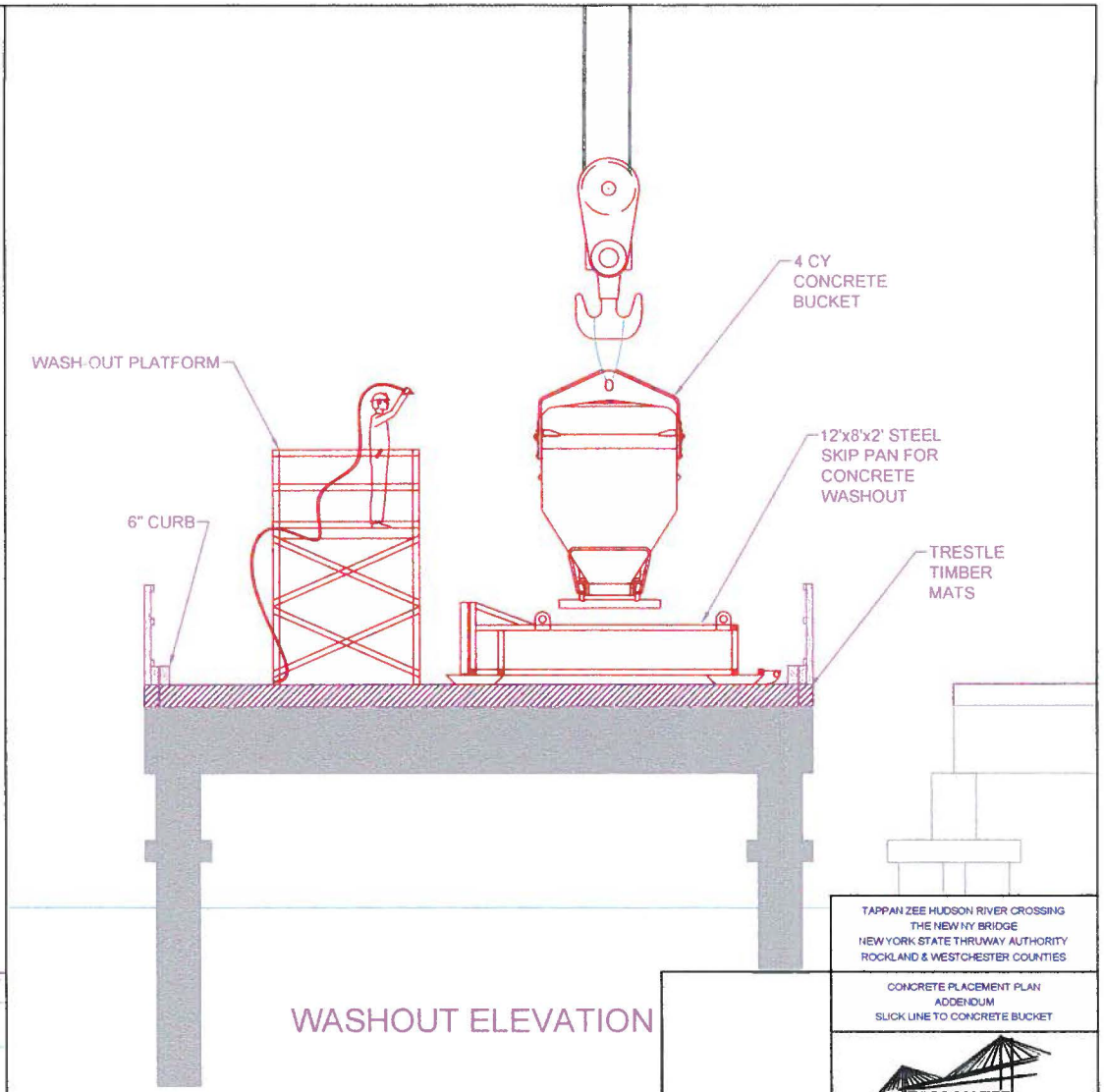
TAPPAN ZEE CONSTRUCTORS, LLC

Design By:	Date:
Design Chk.	Date:
Drawn By: JBO	Date: 8/19/14
Drawing CHK.	Date:
In Charge Of:	
NYSTA Contract Number D214134	Sheet No. C-PLAN C
[redacted]	Revision:

REV.	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION
6						
5						
4						
3						
2						
1						



PLACEMENT ELEVATION



WASHOUT ELEVATION

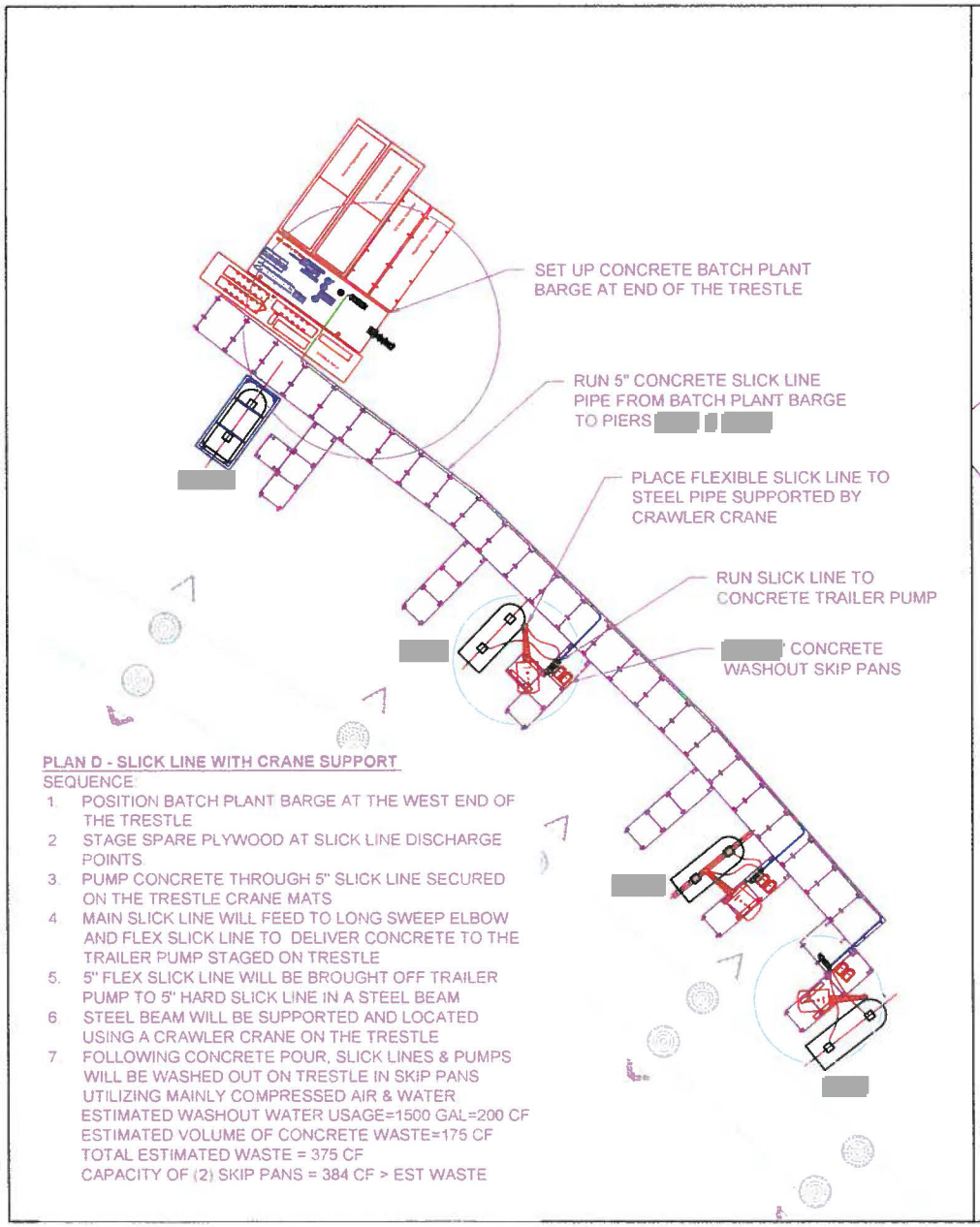
TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

CONCRETE PLACEMENT PLAN
ADDENDUM
SLICK LINE TO CONCRETE BUCKET

TAPPAN ZEE CONSTRUCTORS, LLC

REV	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION
6						
5						
4						
3						
2						
1						

Design By:	Date:
Design Chk:	Date:
Drawn By: JBO	Date: 8/19/14
Drawing Chk:	Date:
In Charge Of:	
NYSTA Contract Number: D214134	Sheet No.: CE-PLAN C
	Revision:

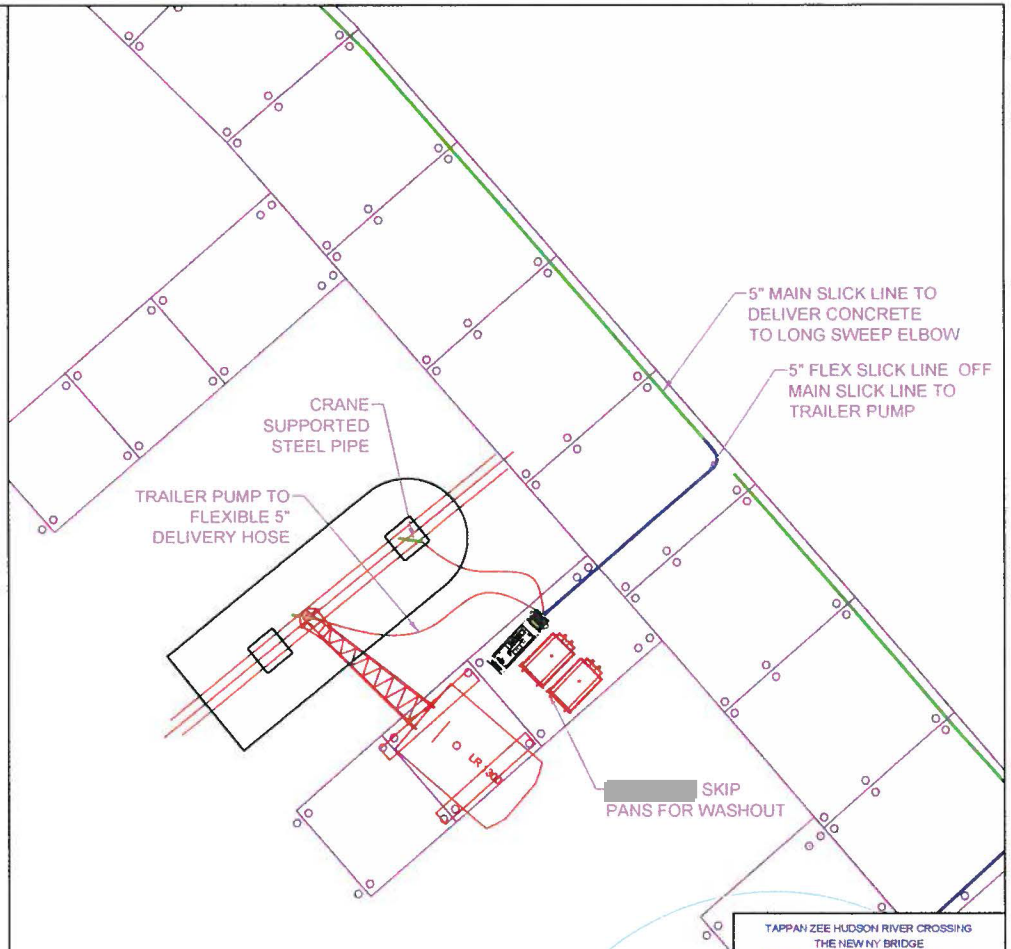


PLAN D - SLICK LINE WITH CRANE SUPPORT

SEQUENCE

1. POSITION BATCH PLANT BARGE AT THE WEST END OF THE TRESTLE
2. STAGE SPARE PLYWOOD AT SLICK LINE DISCHARGE POINTS
3. PUMP CONCRETE THROUGH 5" SLICK LINE SECURED ON THE TRESTLE CRANE MATS
4. MAIN SLICK LINE WILL FEED TO LONG SWEEP ELBOW AND FLEX SLICK LINE TO DELIVER CONCRETE TO THE TRAILER PUMP STAGED ON TRESTLE
5. 5" FLEX SLICK LINE WILL BE BROUGHT OFF TRAILER PUMP TO 5" HARD SLICK LINE IN A STEEL BEAM
6. STEEL BEAM WILL BE SUPPORTED AND LOCATED USING A CRAWLER CRANE ON THE TRESTLE
7. FOLLOWING CONCRETE POUR, SLICK LINES & PUMPS WILL BE WASHED OUT ON TRESTLE IN SKIP PANS UTILIZING MAINLY COMPRESSED AIR & WATER

ESTIMATED WASHOUT WATER USAGE=1500 GAL=200 CF
ESTIMATED VOLUME OF CONCRETE WASTE=175 CF
TOTAL ESTIMATED WASTE = 375 CF
CAPACITY OF (2) SKIP PANS = 384 CF > EST WASTE



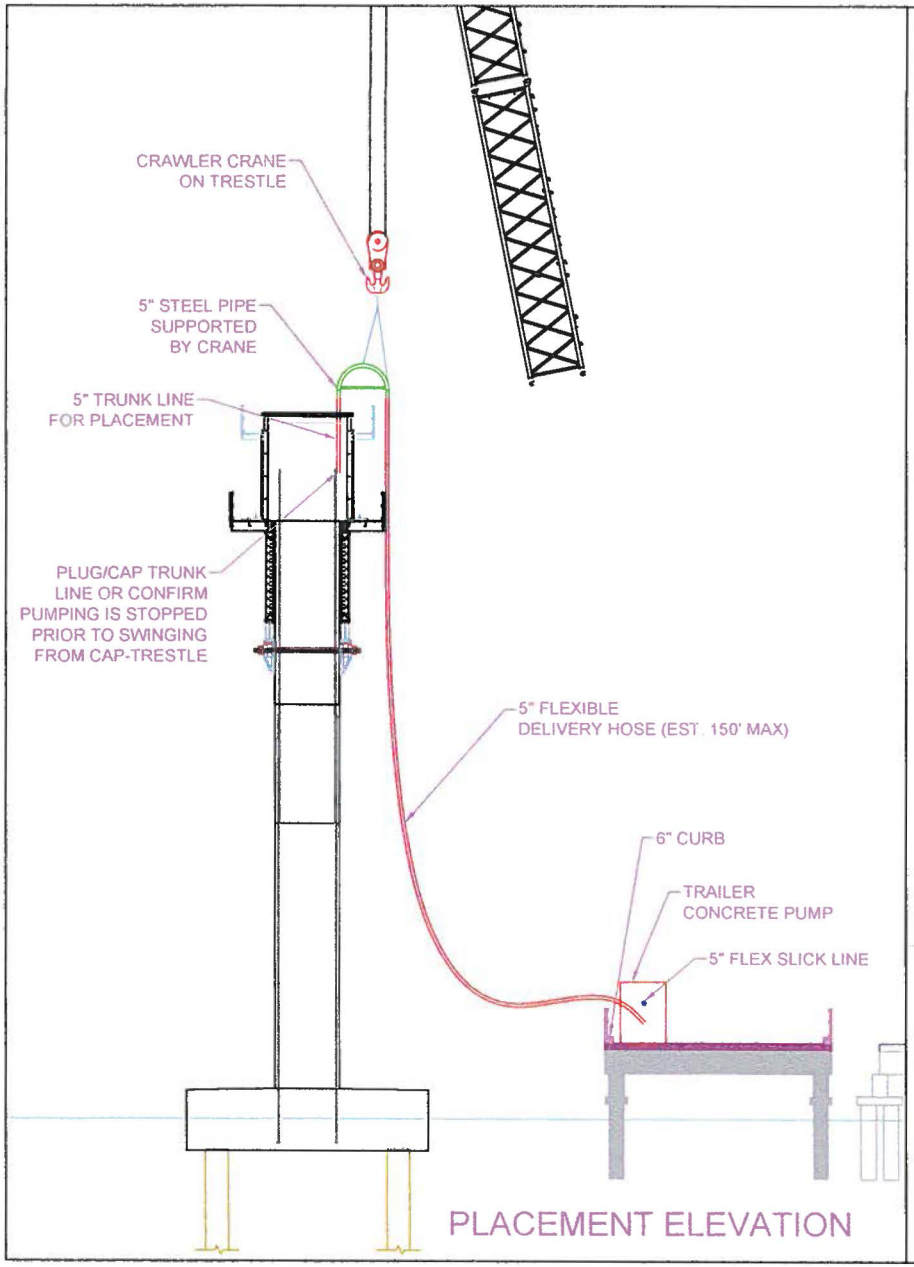
TAPPAN ZEE HUDSON RIVER CROSSING
THE NEW NY BRIDGE
NEW YORK STATE THRUWAY AUTHORITY
ROCKLAND & WESTCHESTER COUNTIES

CONCRETE PLACEMENT PLAN
ADDENDUM
PLAN D - SLICK LINE TO TRAILER PUMP

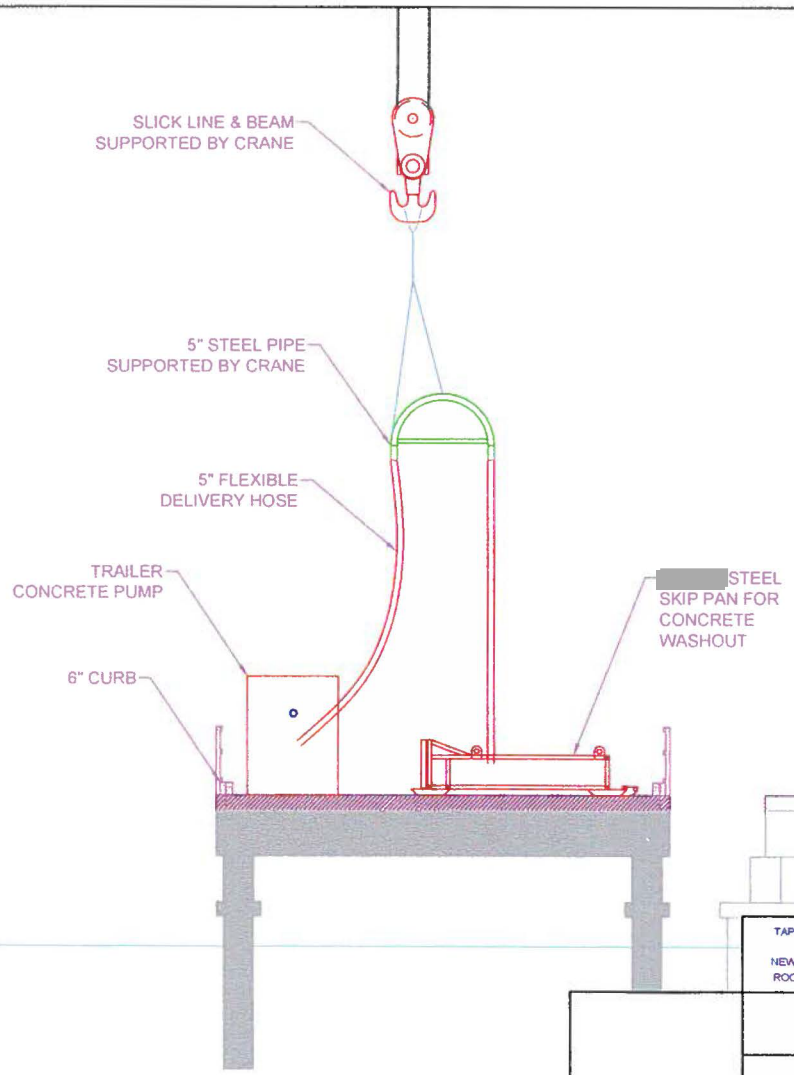
TAPPAN ZEE CONSTRUCTORS, LLC

Design By:	Date:
Design Chk:	Date:
Drawn By: JBO	Date: 8/19/14
Drawing CHK:	Date:
In Charge Of:	
NYSTA Contract Number D214134	Sheet No. C-PLAN D
	Revision:

REV	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION
6						
5						
4						
3						
2						
1						



PLACEMENT ELEVATION



WASHOUT ELEVATION

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

CONCRETE PLACEMENT PLAN
ADDENDUM
SLICK LINE TO PUMP TRAILER

TAPPAN ZEE CONSTRUCTORS, LLC

Design By:	Date:
Design Chk:	Date:
Drawn By: JBO	Date: 8/19/14
Drawing CHK:	Date:
In Charge Of:	
NYSTA Contract Number: D214134	Sheet No.: CE-PLAN D
[redacted]	Revision:

REV.	DATE	DWG BY	DWG CHK	DSGN BY	DSGN CHK	DESCRIPTION
6						
5						
4						
3						
2						
1						