

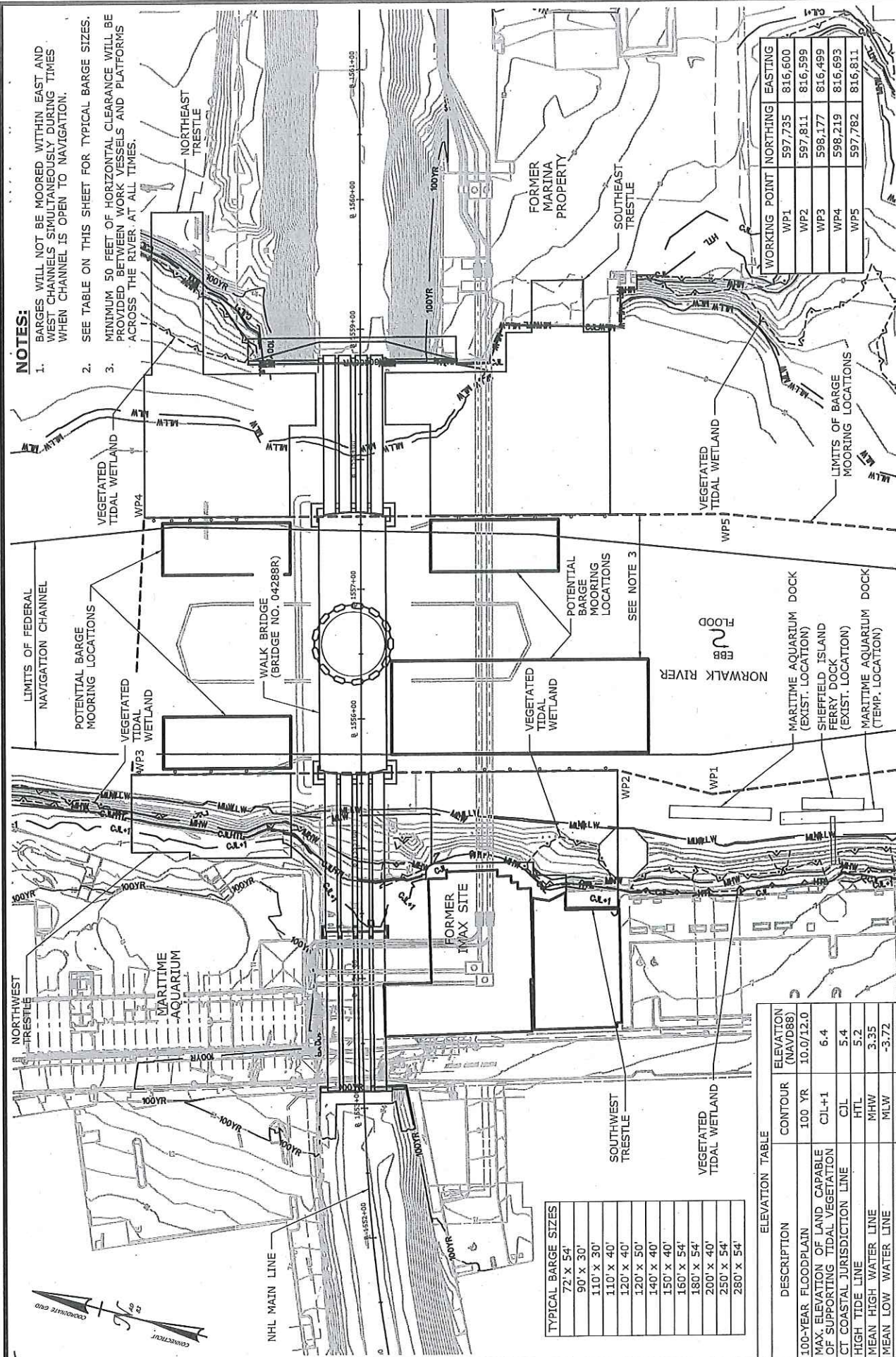
WALK BRIDGE REPLACEMENT INDEX OF PERMIT PLATES

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
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CA13-3	SWING SPAN REMOVAL (SHEET 3 OF 7)	CA16-3	WETLAND MITIGATION (MIT-003)				
CA13-4	SWING SPAN REMOVAL (SHEET 4 OF 7)	CA16-4	WETLAND MITIGATION (MIT-004)				
CA13-5	SWING SPAN REMOVAL (SHEET 5 OF 7)	CA16-5	WETLAND MITIGATION (MIT-005)				
CA13-6	SWING SPAN REMOVAL (SHEET 6 OF 7)	CA16-6	WETLAND MITIGATION (MIT-006)				
CA13-7	SWING SPAN REMOVAL (SHEET 7 OF 7)	CA16-7	WETLAND MITIGATION (MIT-007)				
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CA14-4	PIER REMOVAL (SHEET 4 OF 8)	CA16-12	WETLAND MITIGATION (MIT-012)				
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		CA16-17	WETLAND MITIGATION (MIT-017)				
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CA15-3	FENDER INSTALLATION (SHEET 3 OF 7)	CA16-20	WETLAND MITIGATION (MIT-020)				
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CA15-7	FENDER INSTALLATION (SHEET 7 OF 7)	CA17-3	DREDGING OPERATIONS (SHEET 3 OF 7)				
		CA17-4	DREDGING OPERATIONS (SHEET 4 OF 7)				
		CA17-5	DREDGING OPERATIONS (SHEET 5 OF 7)				
		CA17-6	DREDGING OPERATIONS (SHEET 6 OF 7)				
		CA17-7	DREDGING OPERATIONS (SHEET 7 OF 7)				
		CA18-1	LIFT SPAN INSTALLATION (SHEET 1 OF 6)				
		CA18-2	LIFT SPAN INSTALLATION (SHEET 2 OF 6)				
		CA18-3	LIFT SPAN INSTALLATION (SHEET 3 OF 6)				
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		CA18-5	LIFT SPAN INSTALLATION (SHEET 5 OF 6)				
		CA18-6	LIFT SPAN INSTALLATION (SHEET 6 OF 6)				

SCALE:		SIGNATURE BLOCK:		 HNTB HNTB Corporation 10000 HNTB Way Dallas, TX 75243-2098 Tel: 972.302.2000		 Christian Brown I am approving this drawing for construction. 2018.11.13 18:03:40-0500'		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5		TOWN: NORWALK		PROJECT NO.: 0301-0176	
DRAWN: T. ADINOLFI		CHECKED: V. ROBBINS		APPROVED: C. BROWN		DRAWING TITLE: INDEX OF PERMIT PLATES (SHEET 2 OF 2)		DATE: REV 11-13-19		DRAWING NO.: GEN-1A					

NOTES:

1. BARGES WILL NOT BE MOORED WITHIN EAST AND WEST CHANNELS SIMULTANEOUSLY DURING TIMES WHEN CHANNEL IS OPEN TO NAVIGATION.
2. SEE TABLE ON THIS SHEET FOR TYPICAL BARGE SIZES.
3. MINIMUM 50 FEET OF HORIZONTAL CLEARANCE WILL BE PROVIDED BETWEEN WORK VESSELS AND PLATFORMS ACROSS THE RIVER AT ALL TIMES.



72' x 54'		
90' x 30'		
110' x 30'		
110' x 40'		
120' x 40'		
120' x 50'		
140' x 40'		
150' x 40'		
160' x 54'		
180' x 54'		
200' x 40'		
250' x 54'		
280' x 54'		

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

WORKING POINT	NORTHING	EASTING
WP1	597,735	816,600
WP2	597,811	816,599
WP3	598,177	816,499
WP4	598,219	816,693
WP5	597,782	816,811

PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

TOWN: NORWALK

DRAWING TITLE: VESSEL BERTHING PLAN
WALK BRIDGE
(SHEET 2 OF 3)

PROJECT NO.: 0301-0176

DATE: REV 11-13-19

DRAWING NO.: GEN-9

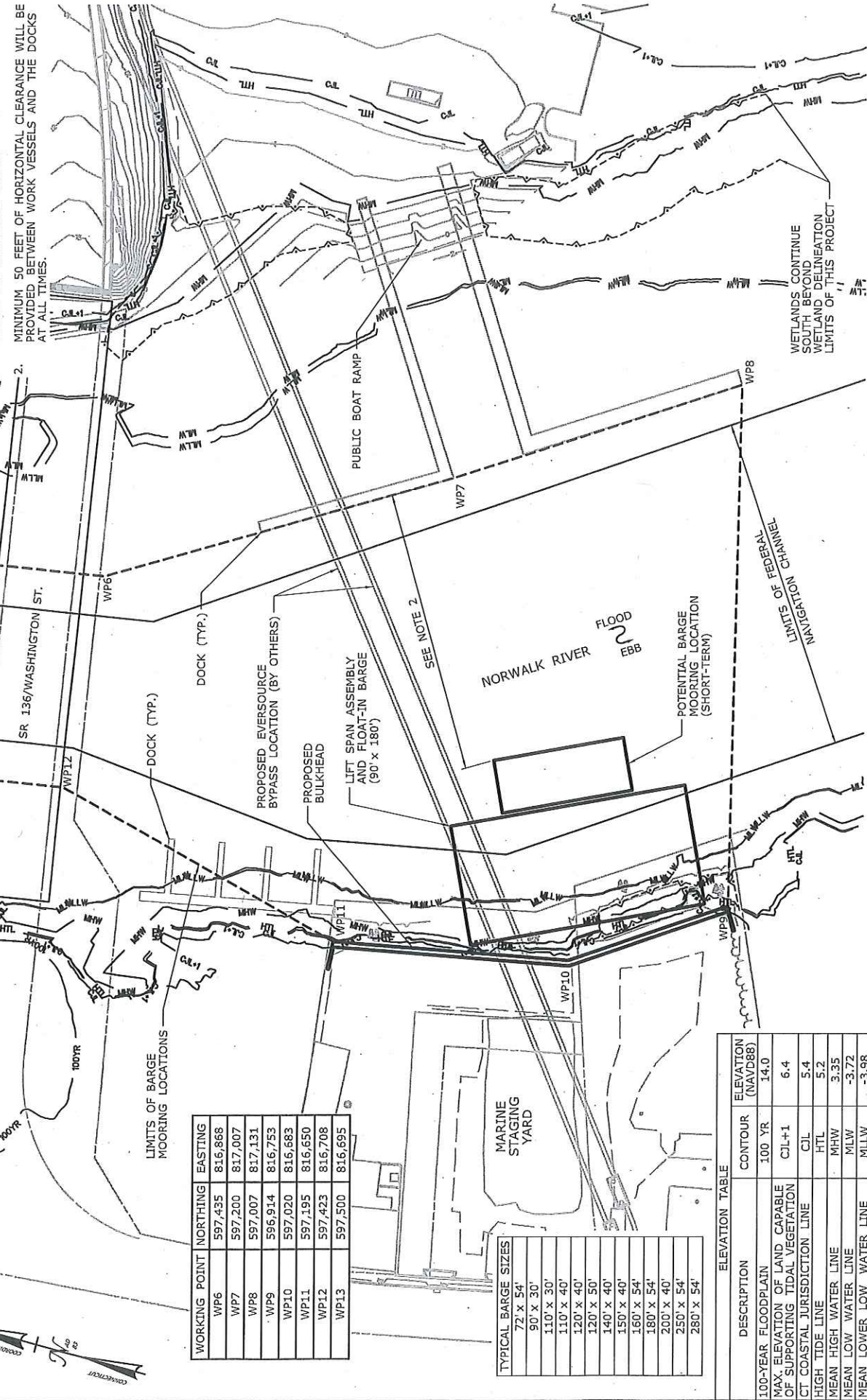
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: HNTB Corporation
35 Capital Boulevard, 4th Floor
Norwalk, CT 06854
Tel: 203.858.8200
Fax: 203.858.8204

SCALE: 1" = 100'

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

NOTES:
 1. SEE TABLE ON THIS SHEET FOR TYPICAL BARGE SIZES, WHERE NOT EXPLICITLY NOTED.
 2. MINIMUM 50 FEET OF HORIZONTAL CLEARANCE WILL BE PROVIDED BETWEEN WORK VESSELS AND THE DOCKS AT ALL TIMES.



WORKING POINT	NORTHING	EASTING
WP6	597,435	816,868
WP7	597,200	817,007
WP8	597,007	817,131
WP9	596,914	816,753
WP10	597,020	816,683
WP11	597,195	816,650
WP12	597,423	816,708
WP13	597,500	816,695

TYPICAL BARGE SIZES	
72' x 54'	
90' x 30'	
110' x 30'	
110' x 40'	
120' x 40'	
120' x 50'	
140' x 40'	
150' x 40'	
160' x 54'	
180' x 54'	
200' x 40'	
250' x 54'	
280' x 54'	

ELEVATION TABLE	
DESCRIPTION	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	6.4
CT COASTAL JURISDICTION LINE	CIL+1
HIGH TIDE LINE	CIL
MEAN HIGH WATER LINE	HTL
MEAN LOW WATER LINE	MHW
MEAN LOWER LOW WATER LINE	MLW
	-3.72
	-3.98

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STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
 WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
 BRIDGE NO. 04288R/MP 41.5

TOWN:
 NORWALK

PROJECT NO.:
 0301-0176

DRAWING TITLE:
 VESSEL BERTHING PLAN
 MARINE STAGING YARD
 (SHEET 3 OF 3)

DATE:
 REV 11-13-19

DRAWING NO.:
 GEN-10

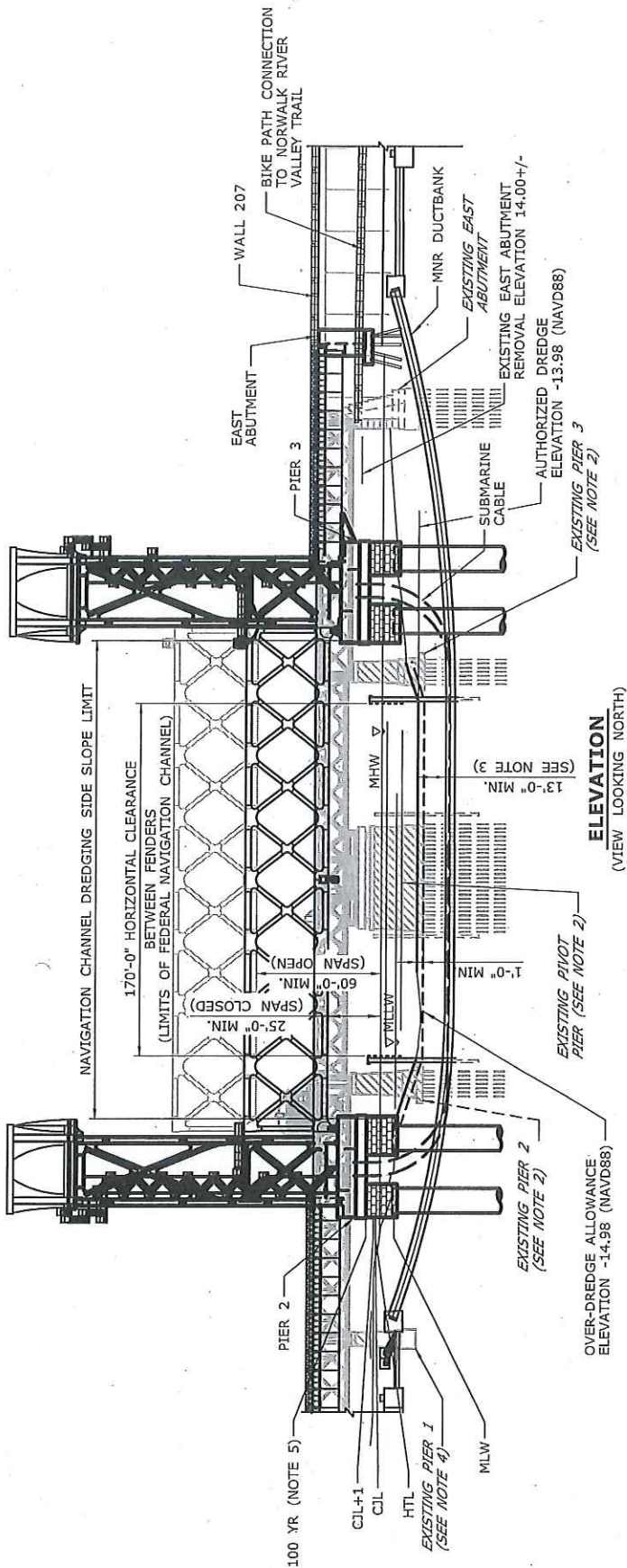
SCALE:
 SCALE 1" = 100'
 0 50 100

DRAWN:
 H. UPSHAW

CHECKED:
 T. ADINOLFI

APPROVED:
 C. BROWN

SIGNATURE BLOCK:



NOTES:

1. AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS 10 FEET BELOW MLW (-13.98 NAVD88).
2. EXISTING BRIDGE FOUNDATIONS WILL BE REMOVED TO A DEPTH AT LEAST 1 FOOT BELOW THE AUTHORIZED DREDGE ELEVATION TO ACCOMMODATE AN ALLOWANCE FOR OVER-DREDGING.
3. SUBMARINE CABLE AND MNR DUCTBANK CROSSINGS WILL BE INSTALLED AT LEAST 13 FEET BELOW THE AUTHORIZED DREDGE ELEVATION OR 7 FEET BELOW EXISTING MUDLINE (WHERE LOWER THAN DREDGE ELEVATION) WITHIN LIMITS OF FEDERAL NAVIGATION CHANNEL.
4. EXISTING FOUNDATIONS AT PIER 1 AND WEST ABUTMENT WILL BE REMOVED TO AT LEAST 2 FEET BELOW SURROUNDING GRADE.
5. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 AND EL. 10 DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP.
6. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL. (DWG. NO. GEN-6) FOR ADDITIONAL INFORMATION.

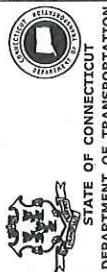
ELEVATION TABLE		CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN		100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION		CL+1	6.4
CT COASTAL JURISDICTION LINE		CL	5.4
HIGH TIDE LINE		HTL	5.2
MEAN HIGH WATER LINE		MHW	3.35
MEAN LOW WATER LINE		MLW	-3.72
MEAN LOWER LOW WATER LINE		MLLW	-3.98

SCALE: 1" = 80'



DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

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**WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER**
BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **BRIDGE ELEVATION
PROPOSED CONDITIONS
(SHEET 9 OF 9)**
DATE: **REV 11-13-19**
DRAWING NO.: **PP-9**

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. FOR PLAN LIMITS OF SITES USED FOR IMPACT SUMMARIES, SEE DWG. SUM-1.
3. ACTIVITIES AND IMPACTS IN/AROUND THE BRIDGE ARE LOCATED IN SITES 1,2, AND 3, DELINEATED BY THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL. SITE 1 IS WEST OF THE CHANNEL, SITE 2 IS WITHIN THE CHANNEL, AND SITE 3 IS EAST OF THE CHANNEL.
4. SITE 4 INCLUDES IMPACTS ASSOCIATED WITH DREDGING, TEMPORARY DOCK RELOCATION AND PERMANENT DOCK CONSTRUCTION AT THE VESSEL DOCKS ON THE WEST SIDE OF THE RIVER SOUTH OF WALK BRIDGE.
5. SITE 5 INCLUDES IMPACTS ASSOCIATED WITH DREDGING AND BULKHEAD CONSTRUCTION AT THE MARINE STAGING YARD.
6. SITE 6 CONSIST OF SIX INDIVIDUAL WETLAND MITIGATION SITES ALONG THE NORWALK RIVER. THERE ARE NO IMPACTS ASSOCIATED WITH SITE 6.
7. SITES 7, 8 AND 9 INCLUDES IMPACTS ASSOCIATED WITH BARGE MOORING IN THE NORWALK RIVER AND LONG ISLAND SOUND REQUIRED FOR CONSTRUCTION.
8. IMPACTS WITH DURATIONS LESS THAN 24 MONTHS ARE CONSIDERED TEMPORARY. IMPACTS DUE TO TEMPORARY FILL AND/OR STRUCTURES THAT ARE EXPECTED TO BE IN PLACE MORE THAN 24 MONTHS ARE CONSIDERED PERMANENT.
9. INTERTIDAL ZONE IMPACTS INCLUDE AREAS BETWEEN MLW AND HTL THAT ARE NOT WITHIN A VEGETATED TIDAL WETLAND OR INTERTIDAL FLAT.
10. IMPACTS BELOW THE CIL INCLUDE AREAS BELOW THE CIL ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS VEGETATED TIDAL WETLAND, INTERTIDAL FLAT, OR INTERTIDAL ZONE IMPACTS.
11. IMPACTS BELOW THE HTL INCLUDE ALL AREAS BELOW THE HTL ELEVATION, SHORE TO SHORE, INCLUDING THOSE DESIGNATED AS VEGETATED TIDAL WETLAND, INTERTIDAL FLAT, OR INTERTIDAL ZONE.
12. FEDERAL NAVIGATION CHANNEL IMPACTS INCLUDE TEMPORARY AND PERMANENT IMPACTS TO NAVIGABILITY OF THE RIVER WITHIN THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
13. PERMANENT VEGETATED TIDAL WETLAND IMPACT IN SITE 1 INCLUDES 2,000 SQ. FT. OF INDIRECT IMPACT DUE TO SHADING FROM THE NW AND SW TREES. IN THE EVENT THAT VEGETATION IS LOST DURING CONSTRUCTION, THIS AREA IS CONSERVATIVELY INCLUDED AS A PERMANENT IMPACT IN THE DETERMINATION OF MITIGATION REQUIREMENTS.
14. PERMANENT VEGETATED TIDAL WETLAND IMPACT IN SITE 3, MITIGATION AREA 6A, INCLUDES 2,300 SQ. FT. OF INDIRECT IMPACT DUE TO SHADING FROM THE NE TREES. IN THE EVENT THE VEGETATION IS LOST DURING CONSTRUCTION, THIS AREA IS CONSERVATIVELY INCLUDED AS A PERMANENT IMPACT IN THE DETERMINATION OF MITIGATION REQUIREMENTS.
15. THE AUTHORIZED CHANNEL DEPTH WITHIN THE LIMITS OF DREDGING IS 10 FT, MEASURED FROM MLW, WITH CORRESPONDING SIDE SLOPE LIMITS EXTENDING 30 FT (AT 3H:1V SLOPE) LANDWARD OF THE FEDERAL NAVIGATION CHANNEL LIMITS.
16. MAINTENANCE DREDGING INCLUDES ALL MATERIAL WITHIN THE NAVIGATION CHANNEL AND CHANNEL DREDGING SIDE SLOPE LIMITS. NEW DREDGING INCLUDES ALL MATERIAL THAT IS NOT DEFINED AS MAINTENANCE DREDGING. NET DREDGING IS EQUAL TO THE VOLUME OF MATERIAL REMOVED LESS FILL PLACED WITHIN THE DREDGED AREA.
17. FOR SUMMARY OF FLOODPLAIN IMPACTS, SEE DWGS. FP-1 TO FP-10.
18. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.

ELEVATION TABLE		CONTOUR	ELEVATION (NAVD88)
DESCRIPTION	100 YR	CIL+1	6.4
100-YEAR FLOODPLAIN			
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION			5.4
CT COASTAL JURISDICTION LINE			5.2
HIGH TIDE LINE			3.35
MEAN HIGH WATER LINE			-3.72
MEAN LOW WATER LINE			-3.98
MEAN LOWER LOW WATER LINE			

PROJECT TITLE:	TOWN	PROJECT NO.:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	NORWALK	0301-0176
DRAWING TITLE:	DATE:	REV 11-13-19
SUMMARY OF IMPACTS (SHEET 3 OF 15)	DRAWING NO.:	SUM-2

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE: SIGNATURE BLOCK: HNTB Corporation
100 Main Street, Suite 401
Newtown, CT 06457
Tel: (860) 251-2271
Fax: (860) 251-2294

SUMMARY OF TEMPORARY IMPACTS (SF)				
SITE	STATE			FEDERAL
	VEGETATED TIDAL WETLAND	INTERTIDAL FLAT	INTERTIDAL ZONE	BELOW HTL
1	0	0	0	0
2	0	0	0	100
3	0	0	0	0
4*	0	0	600	5,200
5	0	0	100	300
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
TOTAL	0	0	700	5,600

* TEMPORARY IMPACTS AT SITE 4 ARE FOR MARINE ENCLOSURE AROUND DREDGING AREA WHICH IS ONLY NECESSARY IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

SUMMARY OF PERMANENT IMPACTS (SF)				
SITE	STATE			FEDERAL
	VEGETATED TIDAL WETLAND	INTERTIDAL FLAT	INTERTIDAL ZONE	BELOW HTL
1	2,800	0	7,400	20,100
2	0	0	0	53,000
3	3,700	200	9,900	34,800
4	200	0	1,400	8,600
5	1,900	0	8,100	19,900
6	0	0	0	0
7	0	0	0	100
8	0	0	0	300
9	0	0	0	400
TOTAL	8,600	200	26,800	137,200

SUMMARY OF DREDGING QUANTITIES				
SITE	MAINTENANCE/NAVIGATION CHANNEL			NEW
	REMOVAL (SF)	FILL (CY)	NET (CY)	REMOVAL (SF)
1	4,900	330	330	26,600
2	40,800	4,210	4,210	31,000
3	7,500	770	770	34,500
4	0	0	0	7,900
5	0	0	0	21,600
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
TOTAL	53,200	5,310	5,310	121,600

NEW				
SITE	FILL (CY)			NET (CY)
	FILL (CY)	REMOVAL (SF)	NET (CY)	NET (CY)
1	9,670	9,730	60	60
2	11,520	11,080	-440	-440
3	10,830	10,620	-210	-210
4	0	350	350	350
5	0	6,400	6,400	6,400
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
TOTAL	32,020	38,180	6,160	6,160

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE.
X	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEVATION 8.0.
	REMOVE MARINE ENCLOSURE.
	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AROUND THE STORMWATER OUTFALL.
	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
	REMOVE TEMPORARY SHEETPILES.
	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE. RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS.

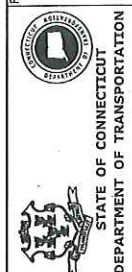
NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88.
3. CONTAINMENT BEST MANAGEMENT PRACTICES FOR AIRBORNE DUST DURING BUILDING REMOVAL WILL BE INCLUDED IN THE PROJECT SPECIAL PROVISIONS.

ELEVATION TABLE	
DESCRIPTION	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR 12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1 6.4
CT COASTAL JURISDICTION LINE	CIL 5.4
HIGH TIDE LINE	HTL 5.2
MEAN HIGH WATER LINE	MHW 3.35
MEAN LOW WATER LINE	MLW -3.72
MEAN LOWER LOW WATER LINE	MLLW -3.98

PROJECT NO.:	0301-0176
DRAWING TITLE:	NORWALK
DATE:	REV 11-13-19
DRAWING NO.:	CA1-2

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

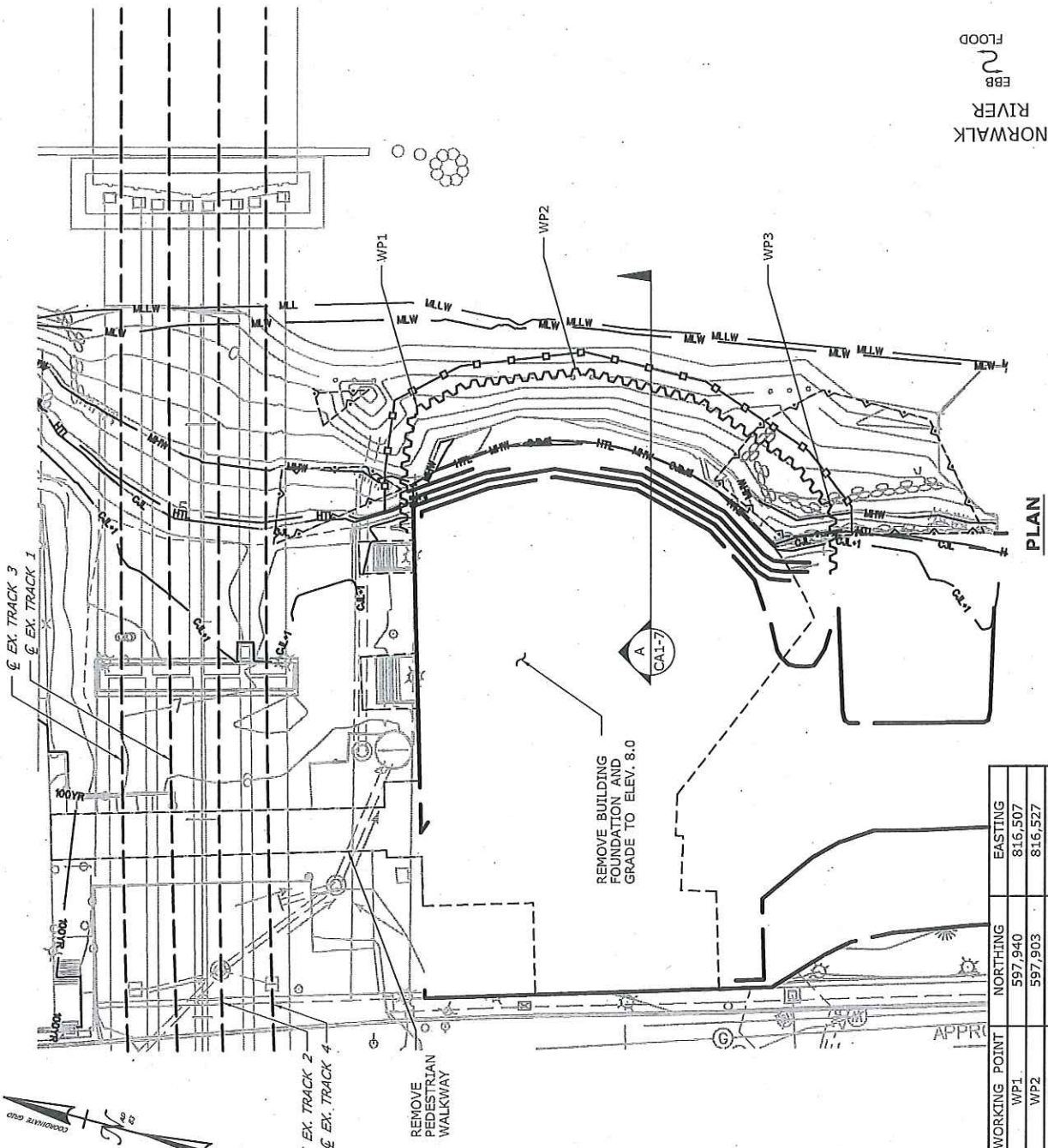


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Tel (860) 351-2377
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DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE IN FEET
0 20 40
SCALE 1"=40'



WORKING POINT	NORTHING	EASTING
WP1	597,940	816,507
WP2	597,903	816,527
WP3	597,831	816,511

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE.
	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEVATION 8.0.
	REMOVE MARINE ENCLOSURE.
X	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AROUND THE STORMWATER OUTFALL.
X	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
X	REMOVE TEMPORARY SHEETPILES.
	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE. RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88.
3. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 1 FOOT ABOVE THE HIGH TIDE LINE.
4. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.

ELEVATION TABLE	
DESCRIPTION	CONTOUR
100-YEAR FLOODPLAIN	100 YR
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1
CT COASTAL JURISDICTION LINE	CJL
HIGH TIDE LINE	HTL
MEAN HIGH WATER LINE	MHW
MEAN LOW WATER LINE	MLW
MEAN LOWER LOW WATER LINE	MLLW
PROJECT NO.:	
TOWN:	
DRAWING TITLE:	
DATE:	
REVISION:	
DRAWING NO.:	
CAL-4	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

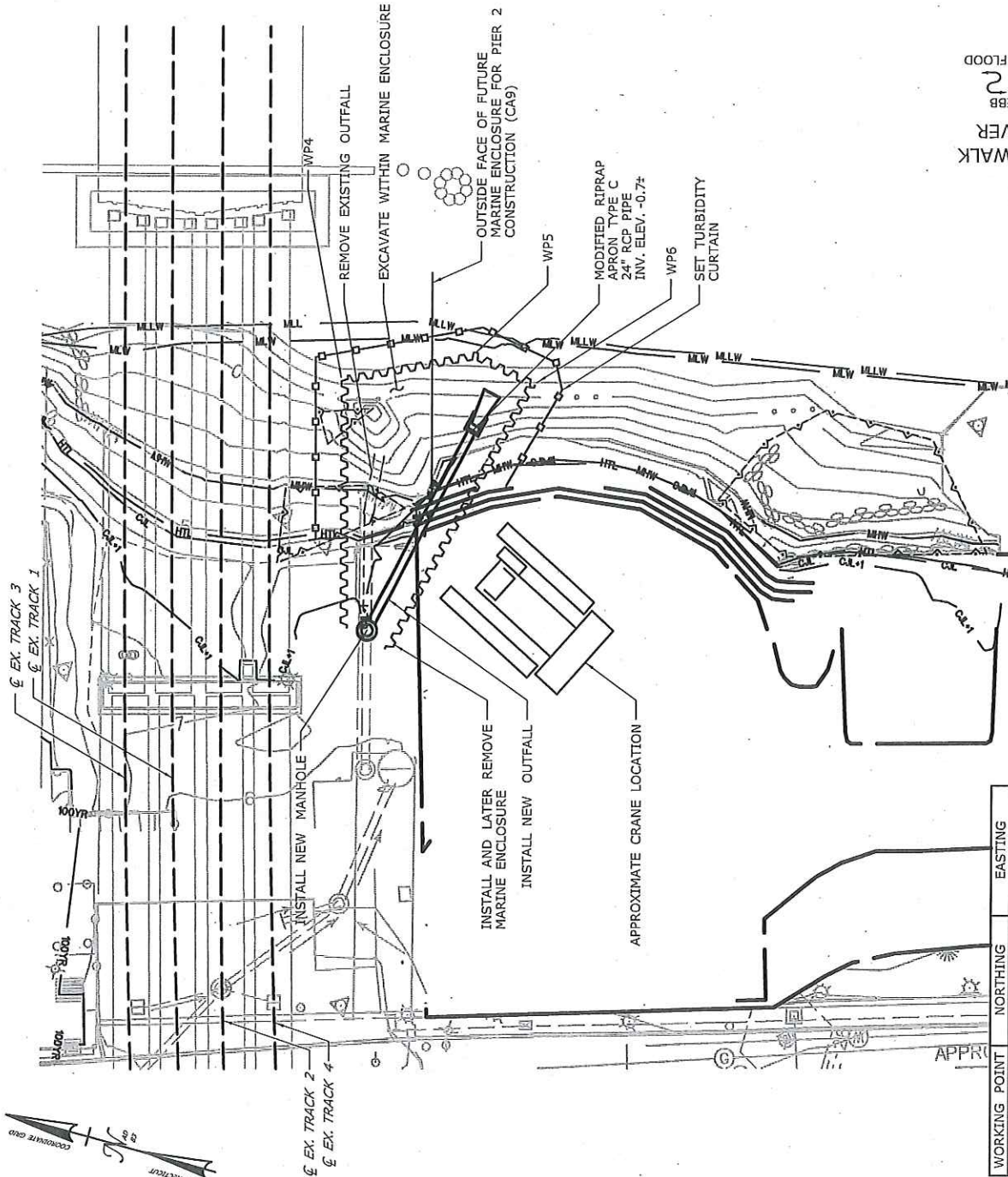
PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	



WORKING POINT	NORTHING	EASTING
WP4	597,963	816,514
WP5	597,931	816,529
WP6	597,914	816,526

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

PROJECT TITLE:	
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER	
BRIDGE NO. 04288R/MP 41.5	
ACTIVITY 1	
IMAX REMOVAL (SHEET 4 OF 7)	

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE PROPOSED DUCTBANK AND SUBMARINE CABLES WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

X	SET TURBIDITY CURTAIN, INSTALL TEMPORARY FENDER SYSTEM AND SHEETPILES FOR SUPPORT OF EXCAVATION AND MARINE ENCLOSURE.
X	EXCAVATE TRENCH, INSTALL MNR AND BRIDGE DUCTS.
X	BACKFILL TRENCH AND REMOVE SHEET PILES.
	RESET TURBIDITY CURTAIN, INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	EXCAVATE TRENCH, SPLICE AND CONTINUE INSTALLING MNR AND BRIDGE DUCTS.
	BACKFILL TRENCH AND REMOVE MARINE ENCLOSURE.
	RESET TURBIDITY CURTAIN, INSTALL TEMPORARY FENDER SYSTEM AND SHEET PILES FOR SUPPORT OF EXCAVATION AND MARINE ENCLOSURE.
	EXCAVATE TRENCH, SPLICE AND FINISH INSTALLING MNR AND BRIDGE DUCTS.
	BACKFILL TRENCH AND REMOVE MARINE ENCLOSURE.

NOTES:

1. BARGE AND TURBIDITY CURTAIN PLACEMENT WILL BE ADJUSTED AS NEEDED FOR SHEETPILE INSTALLATION AND REMOVAL, EXCAVATION, AND BACKFILL.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND THE CDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
3. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
6. TEMPORARY FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWN

PROJECT NO.: 0301-0176

DRAWING TITLE:

ACTIVITY 2
DUCTBANK
INSTALLATION (1 OF 4)

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

PROJECT TITLE:



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE BLOCK:

DRAWN: T. ADINOLFI

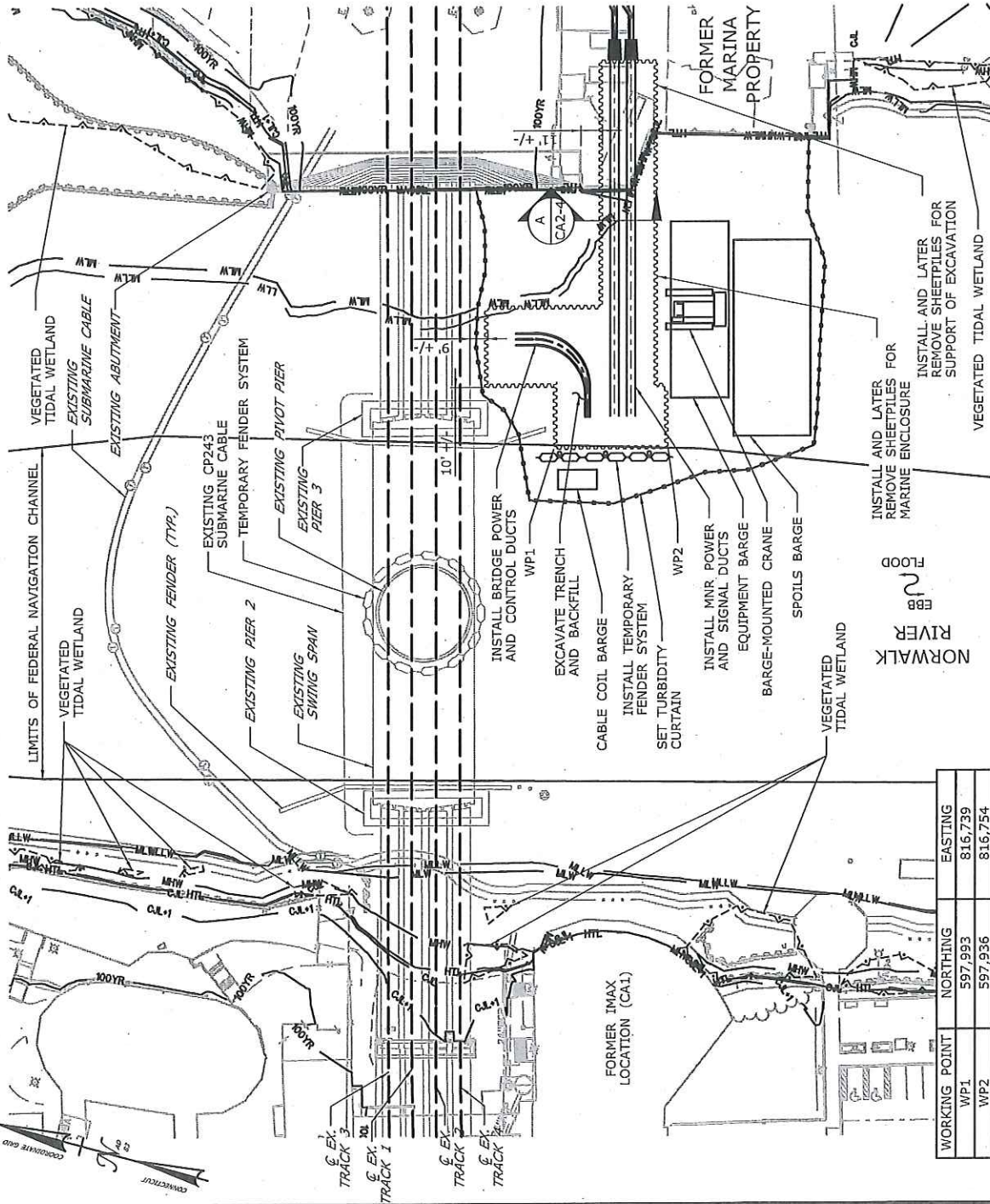
CHECKED: V. ROBBINS

APPROVED: C. BROWN

SCALE IN FEET
0 40 80
SCALE 1"=80'

ACTIVITY NOTE: THIS ACTIVITY CONSISTS OF CONFINED TRENCHING IN THREE PHASES TO BURY DUCTS BENEATH THE RIVER FOR FUTURE INSTALLATION OF MNR TRACTION POWER AND SIGNALS, AND SUBMARINE CABLES FOR BRIDGE POWER AND CONTROL CONDUCTORS WILL BE INSTALLED IN THE FUTURE FROM THE ENDS OF THE DUCTS WITHOUT FURTHER DISTURBANCE TO THE RIVER.

PLAN



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE PROPOSED DUCTBANK AND SUBMARINE CABLES WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN, INSTALL TEMPORARY FENDER SYSTEM AND SHEETPILES FOR SUPPORT OF EXCAVATION AND MARINE ENCLOSURE.
	EXCAVATE TRENCH, INSTALL MNR AND BRIDGE DUCTS.
	BACKFILL TRENCH AND REMOVE SHEET PILES.
X	RESET TURBIDITY CURTAIN, INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
X	EXCAVATE TRENCH, SPlice AND CONTINUE INSTALLING MNR AND BRIDGE DUCTS.
X	BACKFILL TRENCH AND REMOVE MARINE ENCLOSURE.
	RESET TURBIDITY CURTAIN, INSTALL TEMPORARY FENDER SYSTEM AND SHEET PILES FOR SUPPORT OF EXCAVATION AND MARINE ENCLOSURE.
	EXCAVATE TRENCH, SPlice AND FINISH INSTALLING MNR AND BRIDGE DUCTS.
	BACKFILL TRENCH AND REMOVE MARINE ENCLOSURE.

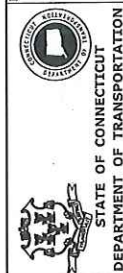
NOTES:

1. BARGE AND TURBIDITY CURTAIN PLACEMENT WILL BE ADJUSTED AS NEEDED FOR EXCAVATION ACCESS.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
3. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 5.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
6. TEMPORARY FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT NO.:	0301-0176
DRAWING TITLE:	NORWALK
DATE:	REV 11-13-19
DRAWING NO.:	CA2-2

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

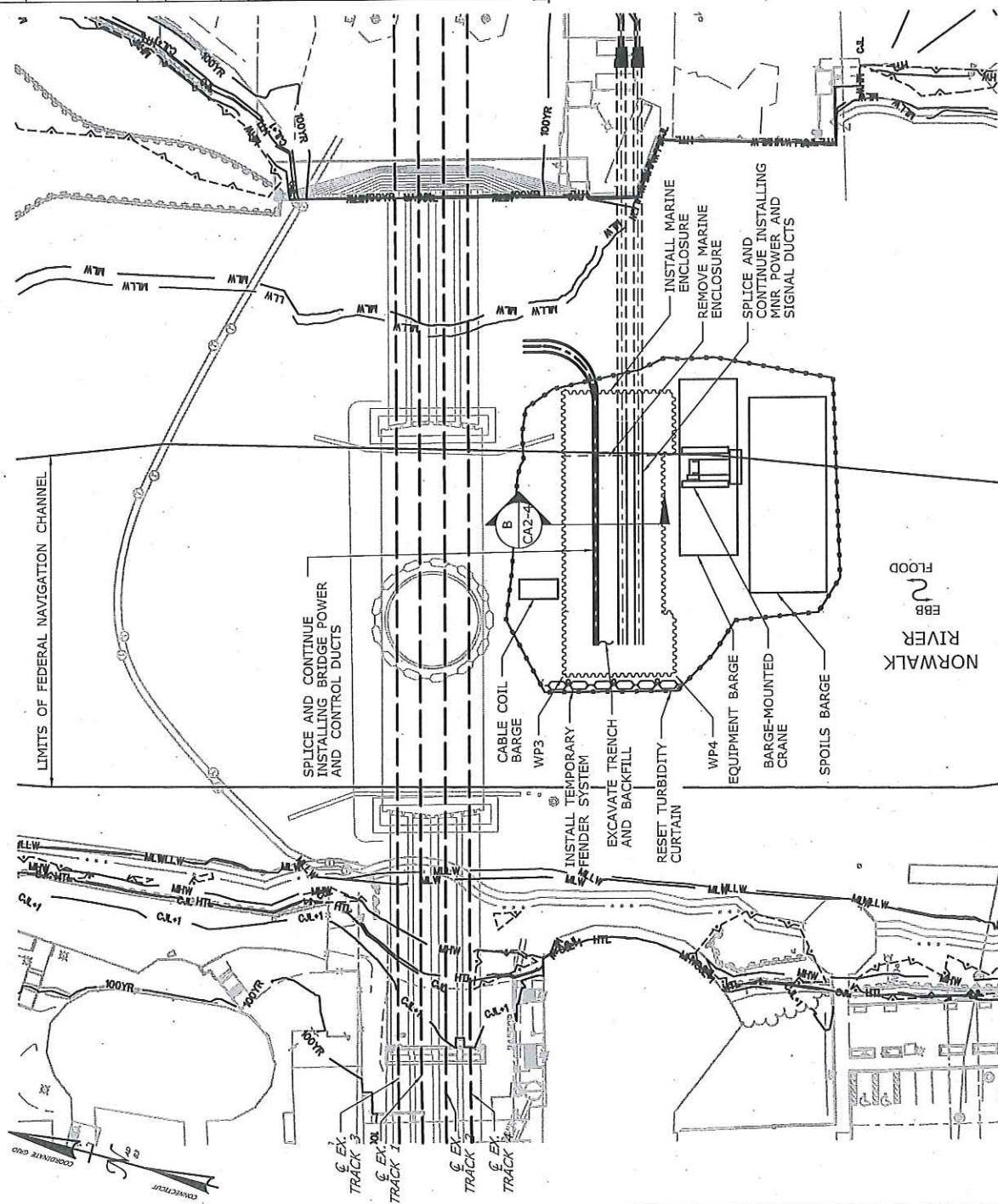


HNTB
HNTB Corporation
25 Capital Boulevard, 4th Floor
Bridgewater, CT 06607
Tel: (860) 251-2077
Fax: (860) 251-2084



SIGNATURE BLOCK:
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE:
SCALE IN FEET
0 40 80
SCALE 1"=80'



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE PROPOSED DUCTBANK AND SUBMARINE CABLES WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

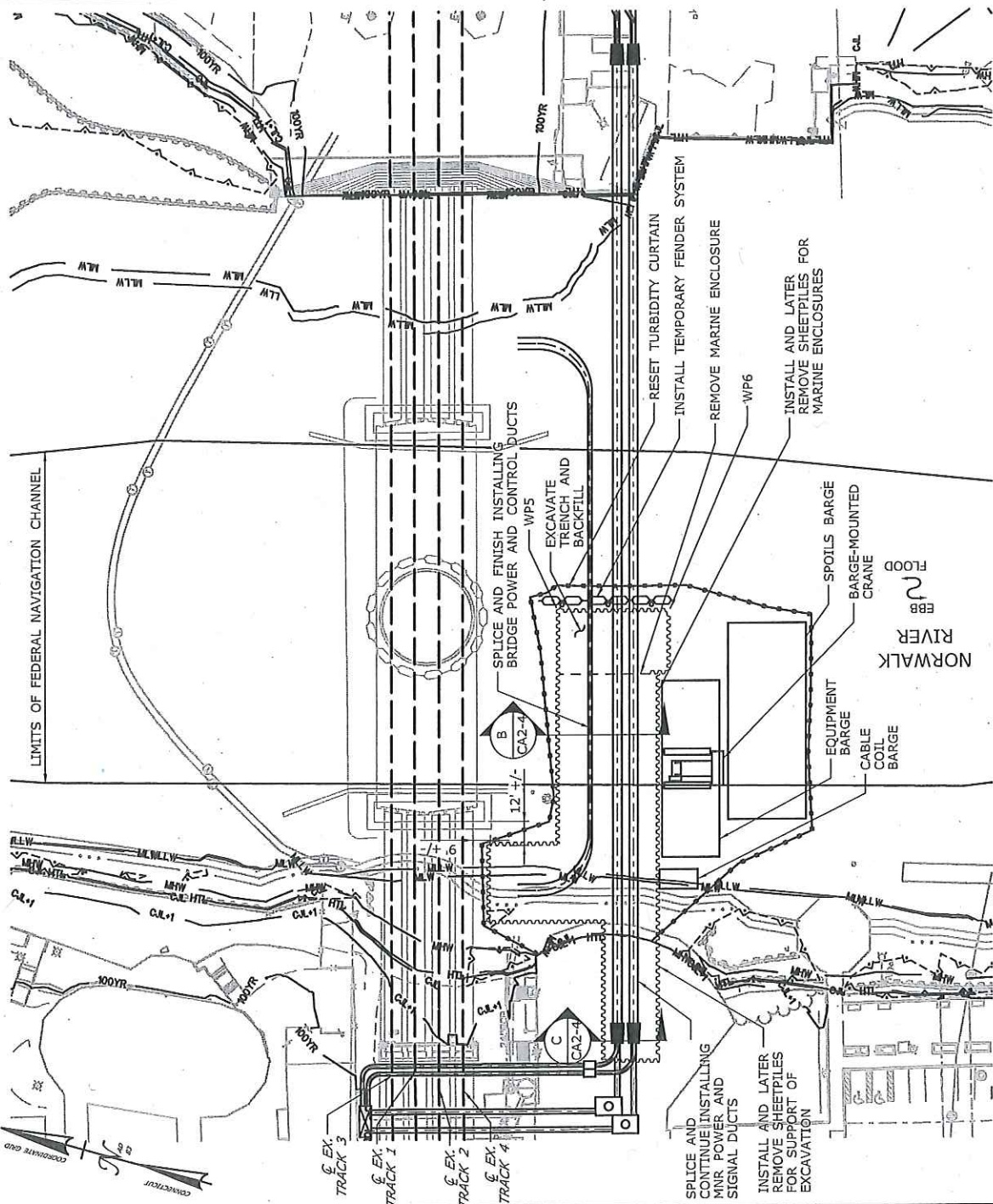
	SET TURBIDITY CURTAIN, INSTALL TEMPORARY FENDER SYSTEM AND SHEETPILES FOR SUPPORT OF EXCAVATION AND MARINE ENCLOSURE.
	EXCAVATE TRENCH, INSTALL MNR AND BRIDGE DUCTS.
	BACKFILL TRENCH AND REMOVE SHEET PILES.
	RESET TURBIDITY CURTAIN, INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	EXCAVATE TRENCH, SPlice AND CONTINUE INSTALLING MNR AND BRIDGE DUCTS.
	BACKFILL TRENCH AND REMOVE MARINE ENCLOSURE.
X	RESET TURBIDITY CURTAIN, INSTALL TEMPORARY FENDER SYSTEM AND SHEET PILES FOR SUPPORT OF EXCAVATION AND MARINE ENCLOSURE.
X	EXCAVATE TRENCH, SPlice AND FINISH INSTALLING MNR AND BRIDGE DUCTS.
X	BACKFILL TRENCH AND REMOVE MARINE ENCLOSURE.

NOTES:

1. BARGE AND TURBIDITY CURTAIN PLACEMENT WILL BE ADJUSTED AS NEEDED FOR EXCAVATION ACCESS.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
3. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
6. TEMPORARY FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

ELEVATION TABLE		ELEVATION (NAVD86)
DESCRIPTION	CONTOUR	
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWN	NORWALK
PROJECT NO.	0301-0176
DRAWING TITLE	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
DATE	REV 11-13-19
DRAWING NO.	CA2-3
INSTALLATION (3 OF 4)	



PLAN

WORKING POINT	NORTHING	EASTING
WP5	597,973	816,662
WP6	597,915	816,677

SCALE:	DRAWN	1. ADINOLFI
	CHECKED:	V. ROBBINS
	APPROVED:	C. BROWN
SCALE IN FEET 0 40 80 SCALE 1"=80'		

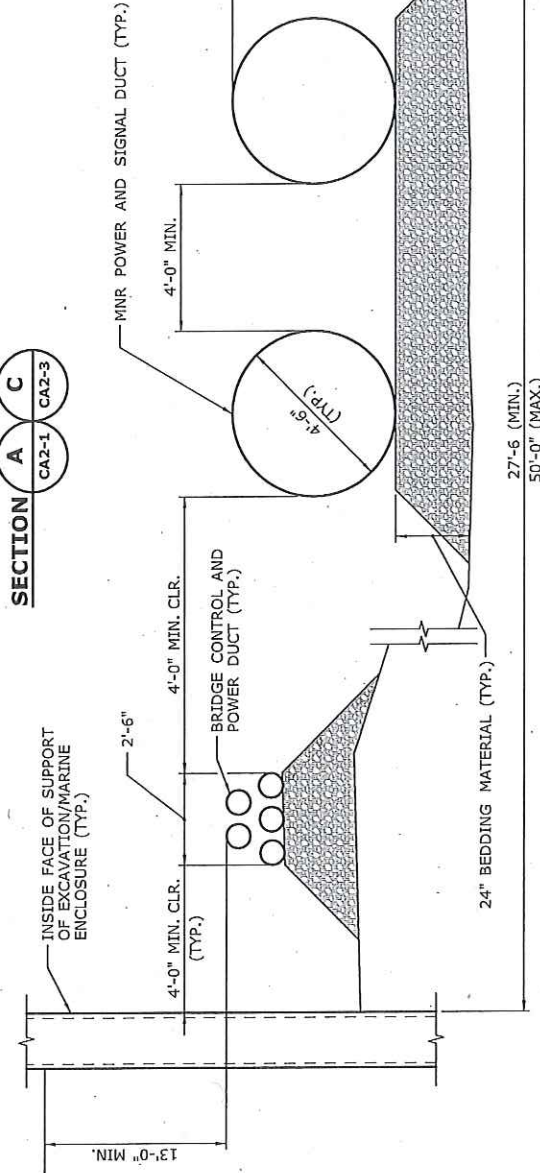
HNTB HNTB Corporation
100 Main Street
Norwalk, CT 06854
Tel: 203.841.1234
Fax: 203.841.1234

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

1. VERTICAL DATUM IS NAVD 88.

1. VERTICAL DATUM IS NAVD 88.
2. UPPER 4' OF EXCAVATED MATERIAL TO BE TREATED AS CONTAMINATED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION, REGARDLESS OF WHETHER DREDGING (ACTIVITY 17) HAS OCCURRED AT THE EXCAVATION.
3. IF MATERIAL BELOW 4' IS FOUND TO BE CONTAMINATED OR OTHERWISE DETERMINED UNSUITABLE FOR RE-USE, IT WILL BE REPLACED WITH CLEAN BACKFILL.
4. TRENCH TO BE BACKFILLED TO ELEVATION SIMILAR TO MUDLINE OR GROUND LINE ON OUTSIDE OF SHEETPILES.
5. BACKFILL WILL CONSIST OF SOILS CONTAINING NO MORE THAN 25% SAND BY WEIGHT AND AN ORGANIC CONTENT NO LESS THAN 25% AND NO MORE THAN 40% BY WEIGHT.
6. BEDDING MATERIAL SHALL BE NO. 6 STONE.
7. MAXIMUM ANTICIPATED TRENCH WIDTHS ARE SHOWN AND QUANTIFIED FOR PERMITTING. ACTUAL WIDTHS WILL NOT EXCEED THESE VALUES.
8. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CTL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLWL	-3.98

PROJECT TITLE:

The image shows the official seal of the State of Connecticut, which features a shield with a ship and a star, surrounded by the words "SEAL OF THE STATE OF CONNECTICUT". Below the seal is the logo for the Department of Transportation, which includes the text "STATE OF CONNECTICUT" and "DEPARTMENT OF TRANSPORTATION" flanking a central graphic of a road and a bridge.

HNTB HNTB Corporation
55 Capital Boulevard, 4th Floor
Rocky Hill, CT 06067
Tel (860) 257-0377
Fax (860) 257-2104

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

NOT TO SCALE

SCALE:

TOWN: NORWALK

DRAWING TITLE:

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

 **STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION

HNTB HNTB Corporation
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Tel (860) 257-0377
Fax (860) 257-2104

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

NOT TO SCALE

SCALE:

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO RELOCATE THE VESSEL DOCKS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

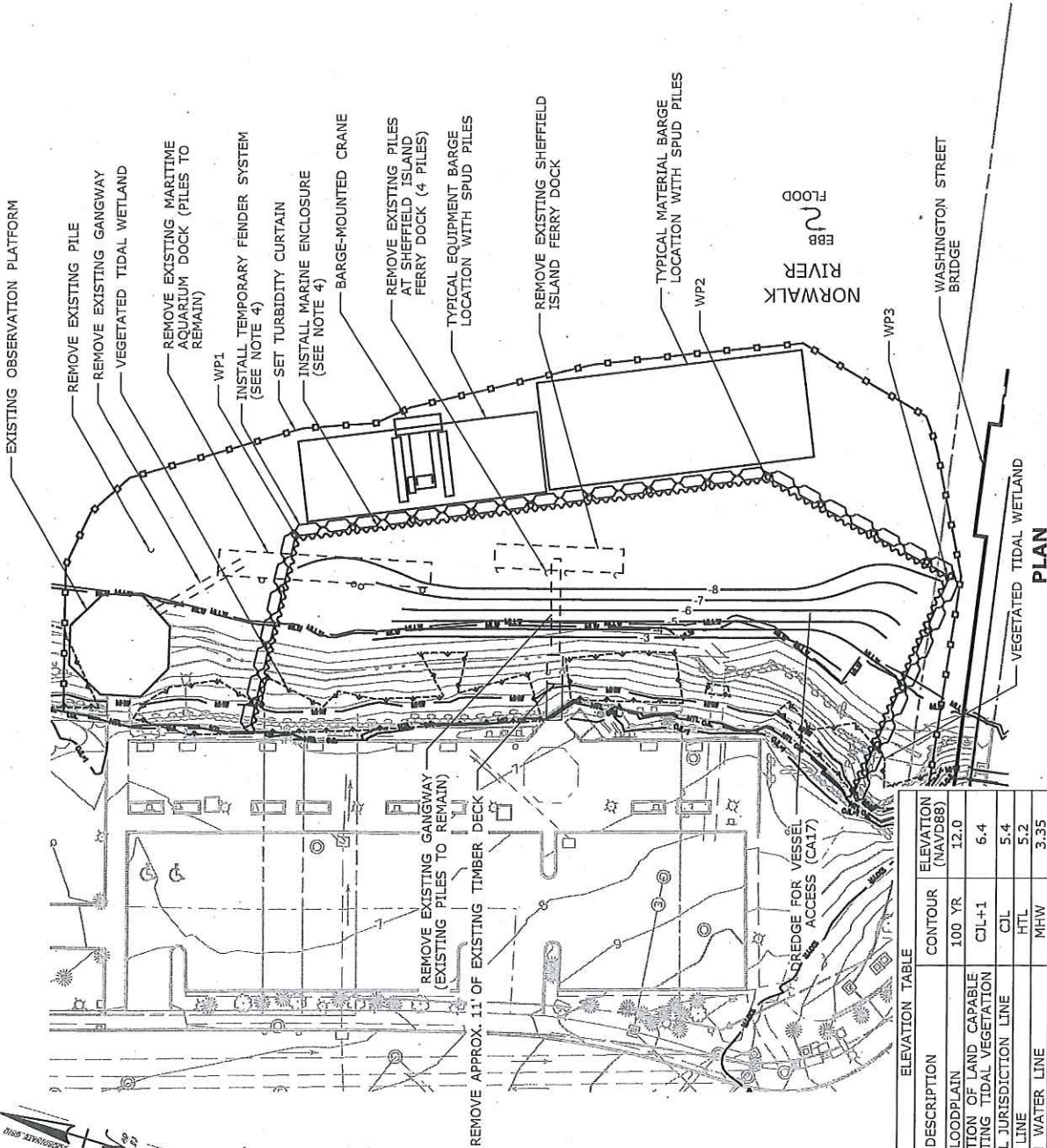
X	REMOVE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS. MOVE TO MARINE STAGING YARD FOR STORAGE.
X	SET TURBIDITY CURTAIN. REMOVE EXISTING PILE NEAR THE EXISTING OBSERVATION PLATFORM. REMOVE EXISTING PILES, GANGWAY, AND PORTION OF TIMBER DECK AT SHEFFIELD ISLAND FERRY DOCK.
X	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DREDGE FOR VESSEL ACCESS TO TEMPORARY DOCK LOCATIONS (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. INSTALL TEMPORARY AND PERMANENT PILES AT TEMPORARY LOCATION OF MARITIME AQUARIUM DOCK. INSTALL PERMANENT PILES AND ABUTMENT AT TEMPORARY LOCATION OF SHEFFIELD ISLAND FERRY DOCK.
	REMOVE EXISTING OBSERVATION PLATFORM AND PILES.
	SET MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS AT TEMPORARY LOCATIONS AND INSTALL GANGWAYS.
	INSTALL PILES AND CONSTRUCT OBSERVATION PLATFORM.
	REMOVE TEMPORARY PILES AND MARITIME AQUARIUM DOCK FROM TEMPORARY LOCATION.
	INSTALL PERMANENT PILES FOR PERMANENT LOCATION OF SHEFFIELD ISLAND FERRY DOCK. SET DOCKS AND GANGWAYS AT PERMANENT LOCATIONS FOR MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS.

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. ALL TEMPORARY, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

WORKING POINT	NORTHING	EASTING
WP1	597,738	816,596
WP2	597,575	816,666
WP3	597,500	816,651

TOWN:	NORWALK	PROJECT NO.:	0301-0176
DRAWING TITLE:	ACTIVITY 3 VESSEL RELOCATION (SHEET 1 OF 6)	DATE:	REV 11-13-19
		DRAWING NO.:	CA3-1



DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET	0 30 60
SCALE 1"=60'	
DRAWN:	T. ADINOLFI
CHECKED:	V. ROBBINS
APPROVED:	C. BROWN

HNTB HNTB Corporation
 22 Central Business, 4th Floor
 New York, NY 10007
 Tel: (212) 237-2277
 Fax: (212) 237-2294

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
**WALK BRIDGE REPLACEMENT
 OVER THE NORWALK RIVER
 BRIDGE NO. 04288R/MP 41.5**

TOWN:
NORWALK

PROJECT NO.:

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO RELOCATE THE VESSEL DOCKS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

REMOVE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS. MOVE TO MARINE STAGING YARD FOR STORAGE.
SET TURBIDITY CURTAIN. REMOVE EXISTING PILE NEAR THE EXISTING OBSERVATION PLATFORM.
REMOVE EXISTING PILES, GANGWAY, AND PORTION OF TIMBER DECK AT SHEFFIELD ISLAND FERRY DOCK.
INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DREDGE FOR VESSEL ACCESS TO TEMPORARY DOCK LOCATIONS (SEE ACTIVITY 17).
REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. INSTALL TEMPORARY AND PERMANENT PILES AT TEMPORARY LOCATION OF MARITIME AQUARIUM DOCK. INSTALL PERMANENT PILES AND ABUTMENT AT TEMPORARY LOCATION OF SHEFFIELD ISLAND FERRY DOCK.
REMOVE EXISTING OBSERVATION PLATFORM AND PILES.
SET MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS AT TEMPORARY LOCATIONS AND INSTALL GANGWAYS.
INSTALL PILES AND CONSTRUCT OBSERVATION PLATFORM.
REMOVE TEMPORARY PILES AND MARITIME AQUARIUM DOCK FROM TEMPORARY LOCATION.
INSTALL PERMANENT PILES FOR PERMANENT LOCATION OF SHEFFIELD ISLAND FERRY DOCK. SET DOCKS AND GANGWAYS AT PERMANENT LOCATIONS FOR MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS.

NOTES:

1. SEE DWG. CA3-1 FOR ANTICIPATED PILES SIZES.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. DREDGING LIMITS NOT SHOWN FOR CLARITY (SEE ACTIVITY 17).
4. THIS ACTIVITY IS CONTAINED ENTIRELY BY THE 100-YR FLOODPLAIN.

WORKING POINT	NORTHING	EASTING
WP4	597,679	816,600
WP5	597,603	816,622
WP6	597,584	816,642
WP7	597,538	816,656

PROJECT NO.:	0301-0176
TOWN:	NORWALK
DRAWING TITLE:	ACTIVITY 3 VESSEL RELOCATION (SHEET 3 OF 6)
DATE:	REV 11-13-19
DRAWING NO.:	CA3-3

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

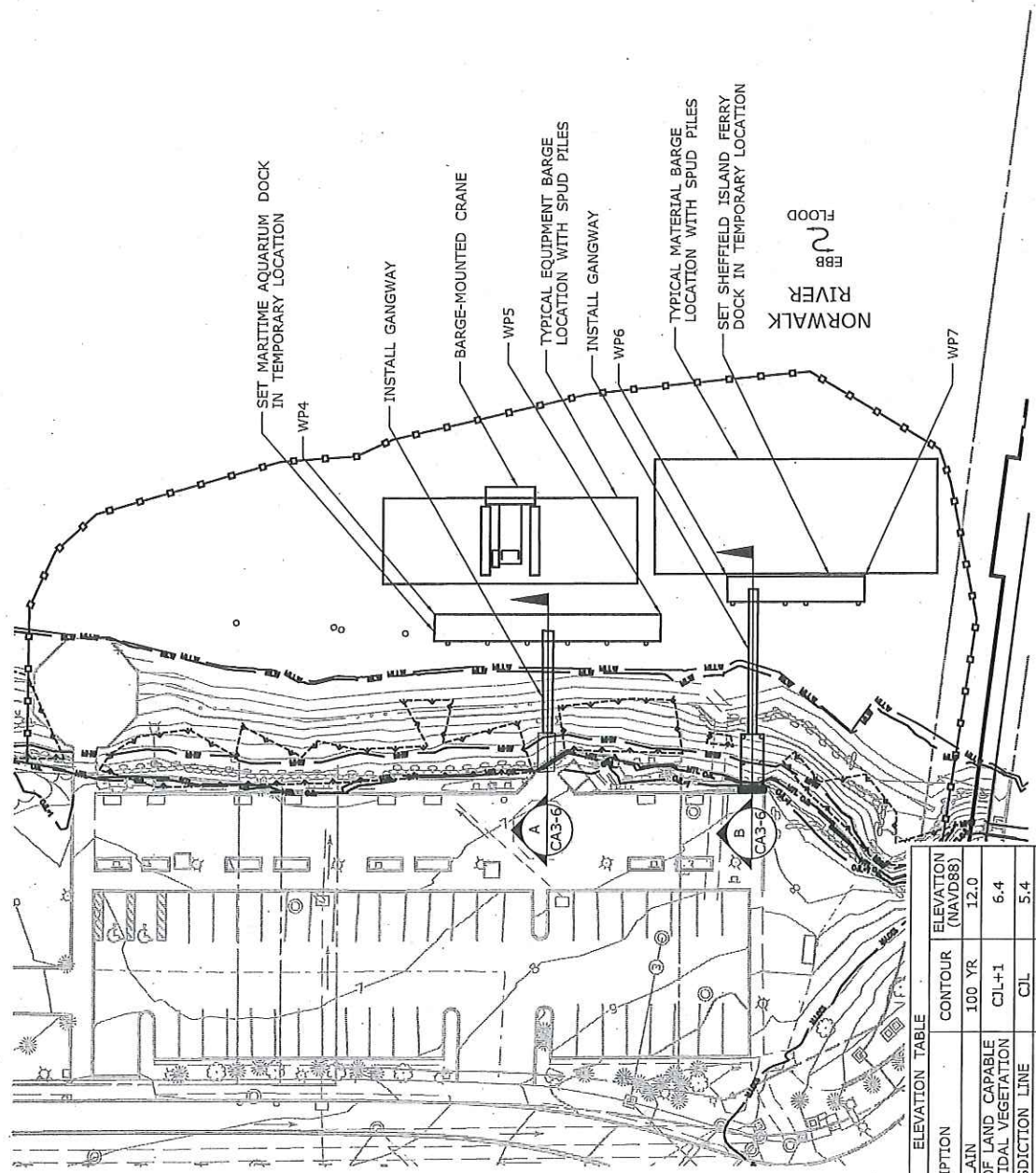


HNTB
HNTB Corporation
1st Floor 321-2277
55 Capital Boulevard, 4th Floor
New York, NY 10007



DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE IN FEET
0 30 60
SCALE 1"=60'



DESCRIPTION	ELEVATION TABLE
100-YEAR FLOODPLAIN	CONTOUR 100 YR 12.0
MAX ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1 6.4
CT COASTAL JURISDICTION LINE	CIL 5.4
HIGH TIDE LINE	HTL 5.2
MEAN HIGH WATER LINE	MHW 3.35
MEAN LOW WATER LINE	MLW -3.72
MEAN LOWER LOW WATER LINE	MLLW -3.98

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO RELOCATE THE VESSEL DOCKS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

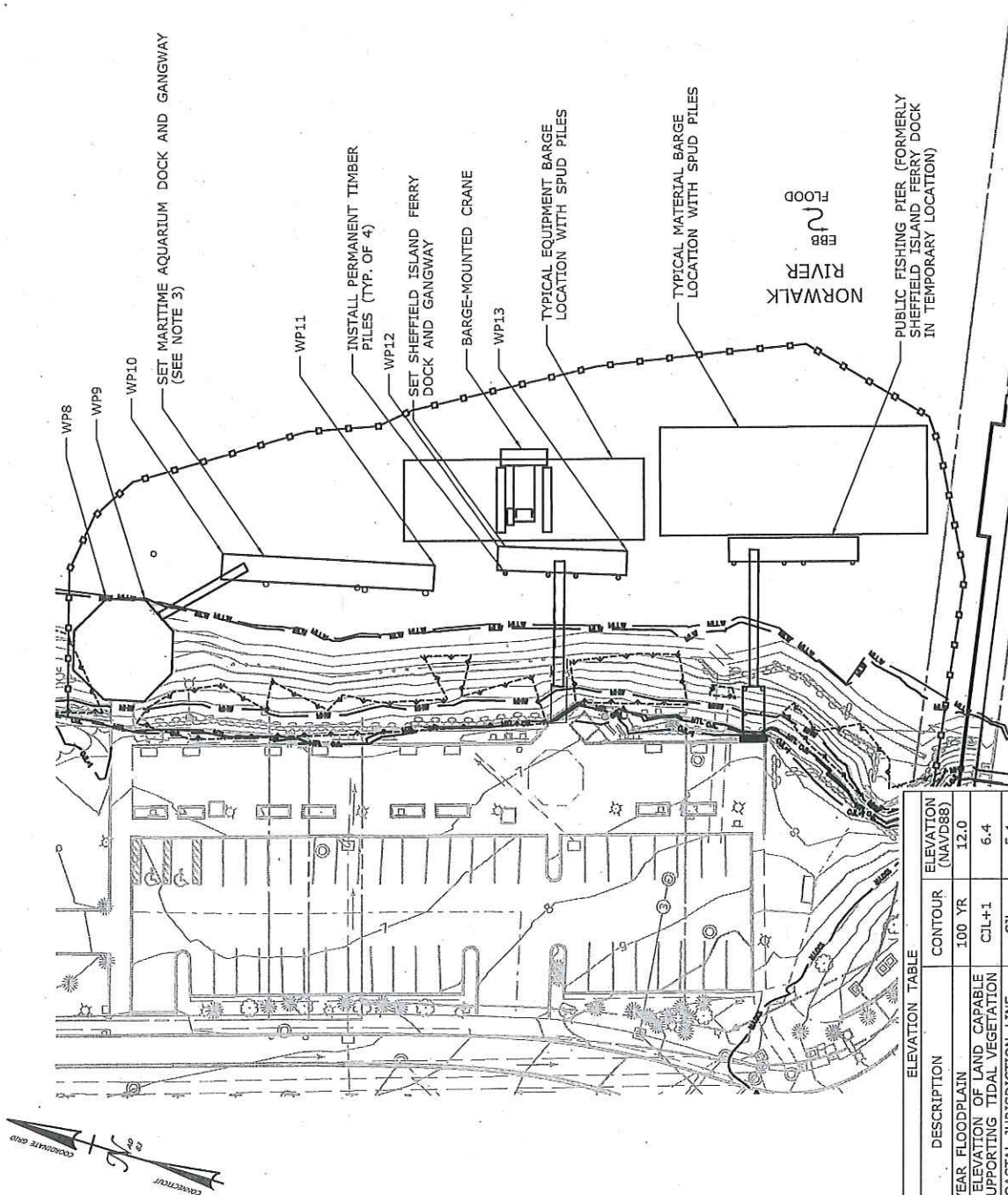
WORK DESCRIPTION

REMOVE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS. MOVE TO MARINE STAGING YARD FOR STORAGE.	
SET TURBIDITY CURTAIN. REMOVE EXISTING PILE NEAR THE EXISTING OBSERVATION PLATFORM.	
REMOVE EXISTING PILES GANGWAY AND PORTION OF TIMBER DECK AT SHEFFIELD ISLAND FERRY DOCK.	
INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DREDGE FOR VESSEL ACCESS TO TEMPORARY DOCK LOCATIONS (SEE ACTIVITY 17).	
REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. INSTALL TEMPORARY AND PERMANENT PILES AT TEMPORARY LOCATION OF MARITIME AQUARIUM AT DOCK. INSTALL PERMANENT PILES AND ABUTMENT AT TEMPORARY LOCATION OF SHEFFIELD ISLAND FERRY DOCK.	
REMOVE EXISTING OBSERVATION PLATFORM AND PILES.	
SET MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS AT TEMPORARY LOCATIONS AND INSTALL GANGWAYS.	
INSTALL PILES AND CONSTRUCT OBSERVATION PLATFORM.	
REMOVE TEMPORARY PILES AND MARITIME AQUARIUM DOCK FROM TEMPORARY LOCATION.	
INSTALL PERMANENT PILES FOR PERMANENT LOCATION OF SHEFFIELD ISLAND FERRY DOCK. SET DOCKS AND GANGWAYS AT PERMANENT LOCATIONS FOR MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS.	X

NOTES:

- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- SEE DWG. CA3-1 FOR ANTICIPATED PILE SIZES.
- AQUARIUM DOCK TO BE INSTALLED AT ORIGINAL LOCATION USING EXISTING PILES.
- DREDGING LIMITS NOT SHOWN FOR CLARITY (SEE ACTIVITY 17).
- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

WORKING POINT	NORTHING	EASTING
WP8	597,802	816,555
WP9	597,788	816,558
WP10	597,765	816,583
WP11	597,687	816,601
WP12	597,666	816,615
WP13	597,619	816,627



PLAN

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE: 1"=60'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

HNTB HNTB Corporation
25 Capital Boulevard, 4th Floor
Norwalk, CT 06857
Tel: (203) 251-0777
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PROJECT TITLE:
**WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5**

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3
VESSEL RELOCATION
(SHEET 5 OF 6)**
DATE: **REV 11-13-19**
DRAWING NO.: **CA3-5**

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

X	FILL SITE FOR ACCESS.
X	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
X	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL BULKHEAD.
	DREDGE TO EL.-11 (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. SPUD PILES AND TEMPORARY FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. FOR TEMPORARY FILL DETAIL SEE DWG. CA4-4.
6. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 5.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
7. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
8. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT NO.:	0301-0176
DRAWING TITLE:	NORWALK
DATE:	REV 11-13-19
DRAWING NO.:	CA4-1

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

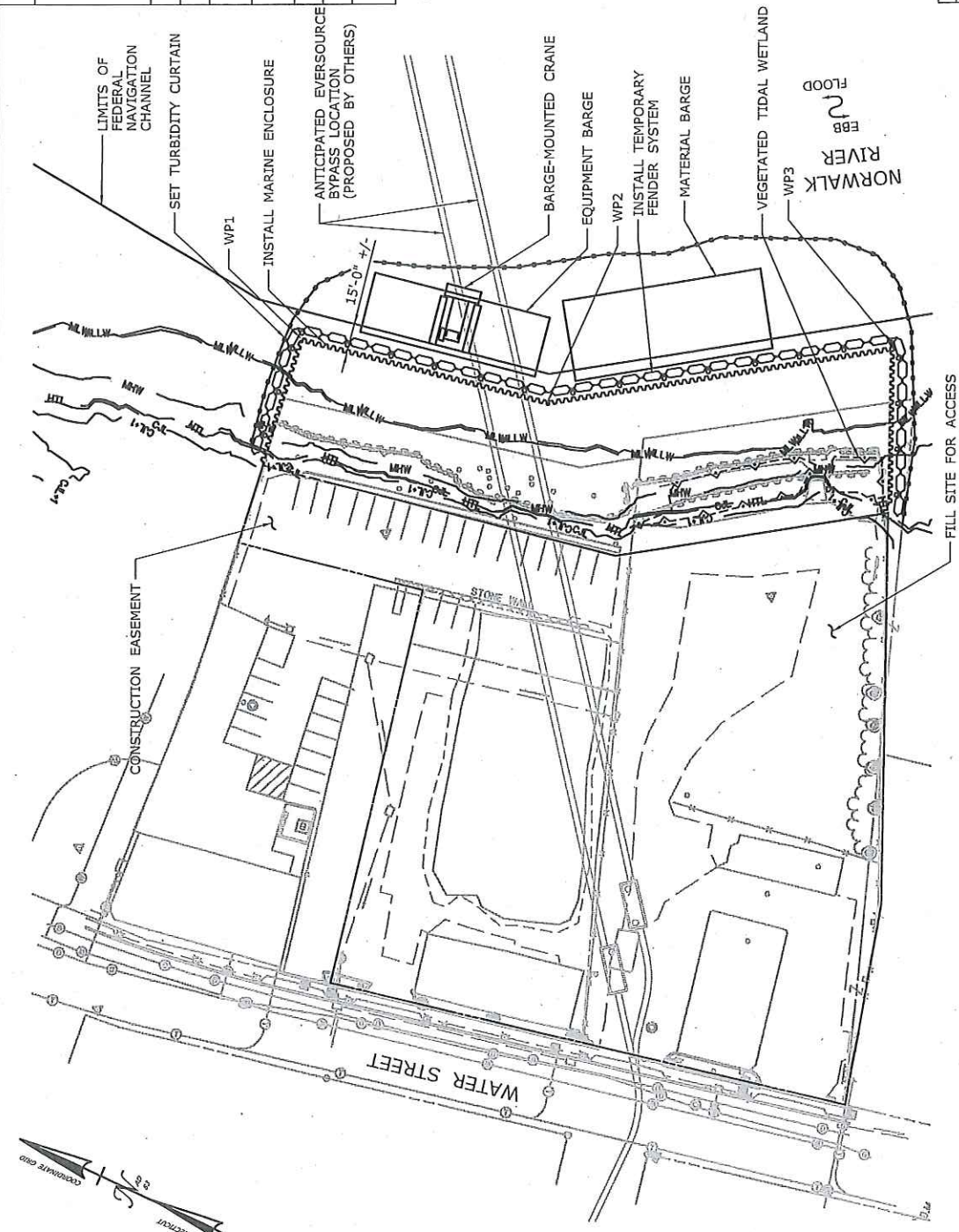


HNTB
HNTB Corporation
140 Main Street
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Tel: 860.261.2300
Fax: 860.261.2304



DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE IN FEET
0 40 80
SCALE 1"=80'



PLAN

WORKING POINT	NORTHING	EASTING
WP1	597.207	816.710
WP2	597.082	816.734
WP3	596.936	816.831

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

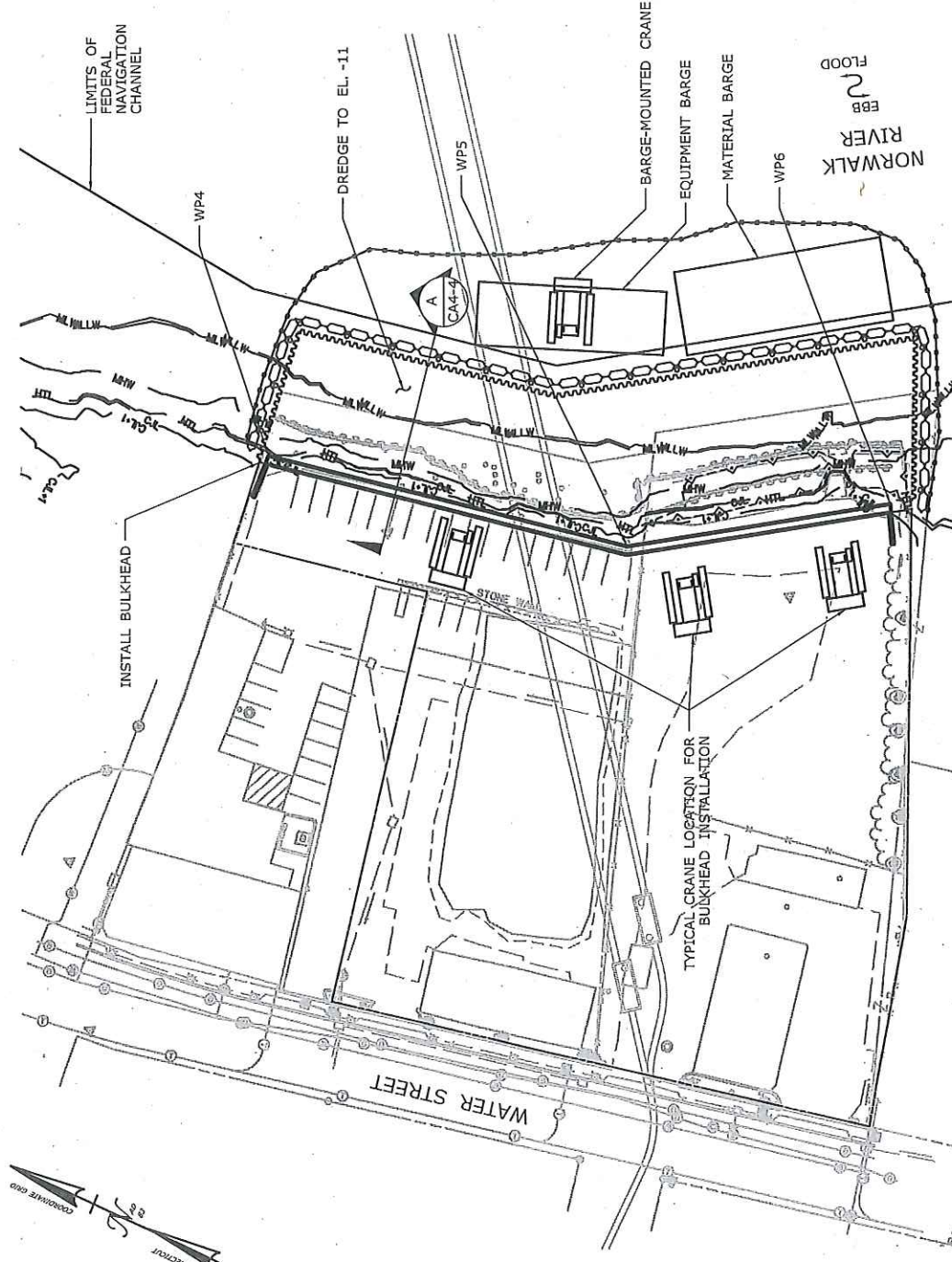
	FILL SITE FOR ACCESS.
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
X	INSTALL BULKHEAD.
X	DREDGE TO EL. -11 (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. SPUD PILES AND TEMPORARY FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. FOR TYPICAL BULKHEAD SECTION SEE DWG. CA4-4.
6. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
7. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
8. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWN:	NORWALK
PROJECT NO.:	0301-0176
DRAWING TITLE:	ACTIVITY 4
DATE:	REV 11-13-19
DRAWING NO.:	MARINE STAGING YARD (SHEET 2 OF 4)
	CA4-2



PLAN

WORKING POINT	NORTHING	EASTING
WP4	597,195	816,650
WP5	597,020	816,683
WP6	596,914	816,753

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5



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55 South Main Street, 4th Floor
Norwalk, CT 06854
Tel: (203) 841-2000
Fax: (203) 227-2204



SIGNATURE BLOCK:
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE IN FEET
0 40 80
SCALE 1"=80'

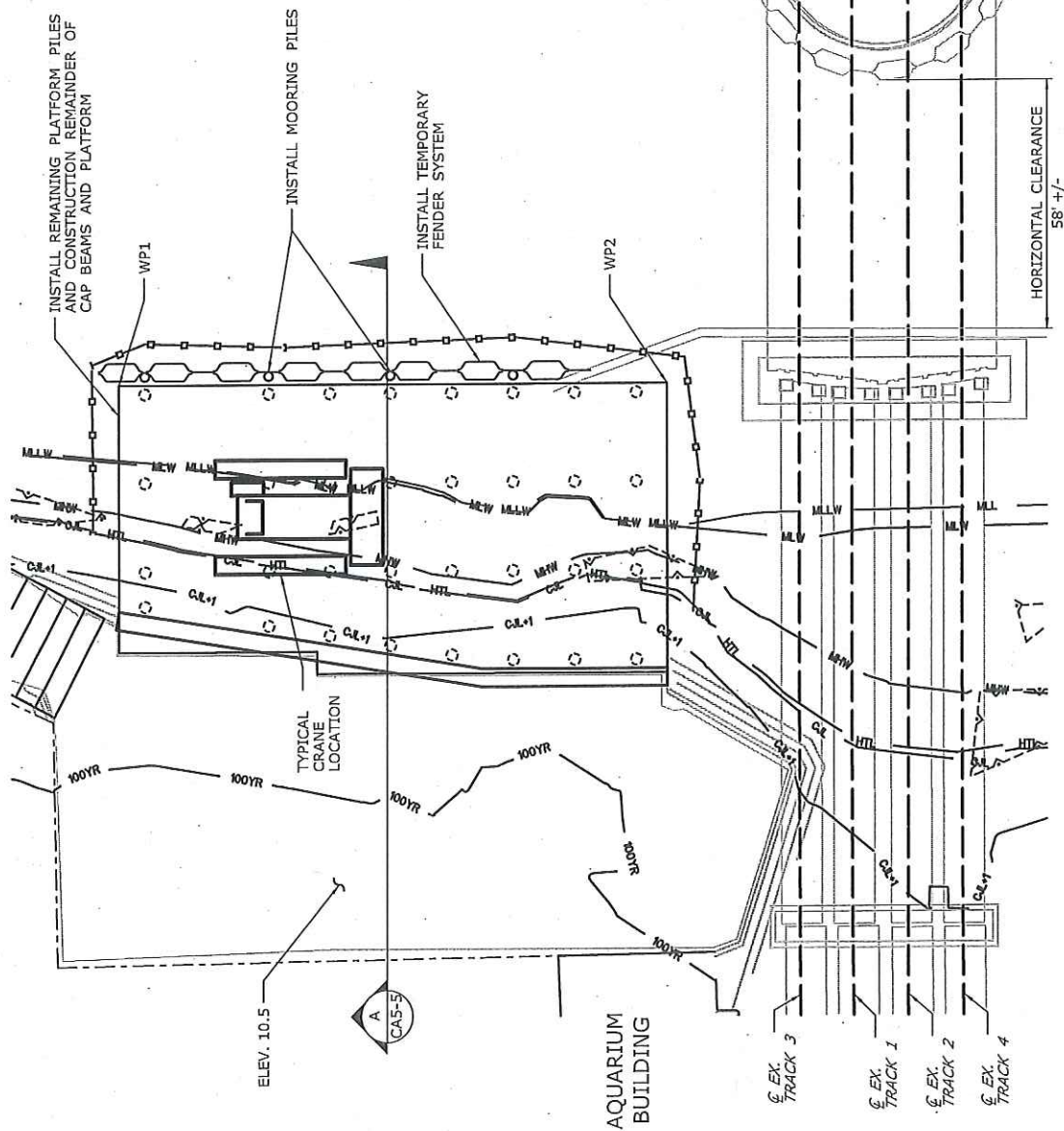
THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPicted ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	SET TURBIDITY CURTAIN, EXCAVATE ALONG SHORELINE.
	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN, REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY WALL, RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. TOP OF PLATFORM IS ELEV. 10.5.
4. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH USCG.
5. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND STABILIZATION OF THE RIVER BOTTOM, THE TURBIDITY CURTAIN WILL BE REMOVED.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWN:	NORWALK	PROJECT NO.:	0301-0176
DRAWING TITLE:		DATE:	REV 11-13-19
ACTIVITY 5 NORTHWEST TRESTLE (SHEET 3 OF 5)		DRAWING NO.:	CA5-3



WORKING POINT	NORTHING	EASTING
WP1	598,177	816,499
WP2	598,057	816,532

SCALE:		DRAWN:	T. ADINOLFI
		CHECKED:	V. ROBBINS
		APPROVED:	C. BROWN
		SIGNATURE BLOCK 	

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Rocky Hill, CT 06067



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN.
	EXCAVATE SHORELINE AT PLATFORM RAMP.
	CONSTRUCT GRADE BEAM AND INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN, REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

- SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- VERTICAL DATUM IS NAVD 88.
- TOP OF PLATFORM ELEV. 10.5.
- LOCATION OF PLATFORM PILES WILL BE COORDINATED WITH MNR DUCTBANK ALIGNMENT (SEE ACTIVITY 2).
- FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND STABILIZATION OF THE RIVER BOTTOM, THE TURBIDITY CURTAIN WILL BE REMOVED.
- LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE	
DESCRIPTION	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR 12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1 6.4
CT COASTAL JURISDICTION LINE	CLL 5.4
HIGH TIDE LINE	HTL 5.2
MEAN HIGH WATER LINE	MHW 3.35
MEAN LOW WATER LINE	MLW -3.72
MEAN LOWER LOW WATER LINE	MLLW -3.98

TOWN:	NORWALK
PROJECT NO.:	0301-0176
DRAWING TITLE:	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
DATE:	REV 11-13-19
DRAWING NO.:	ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 3 OF 5)
CAD:	CA6-3

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

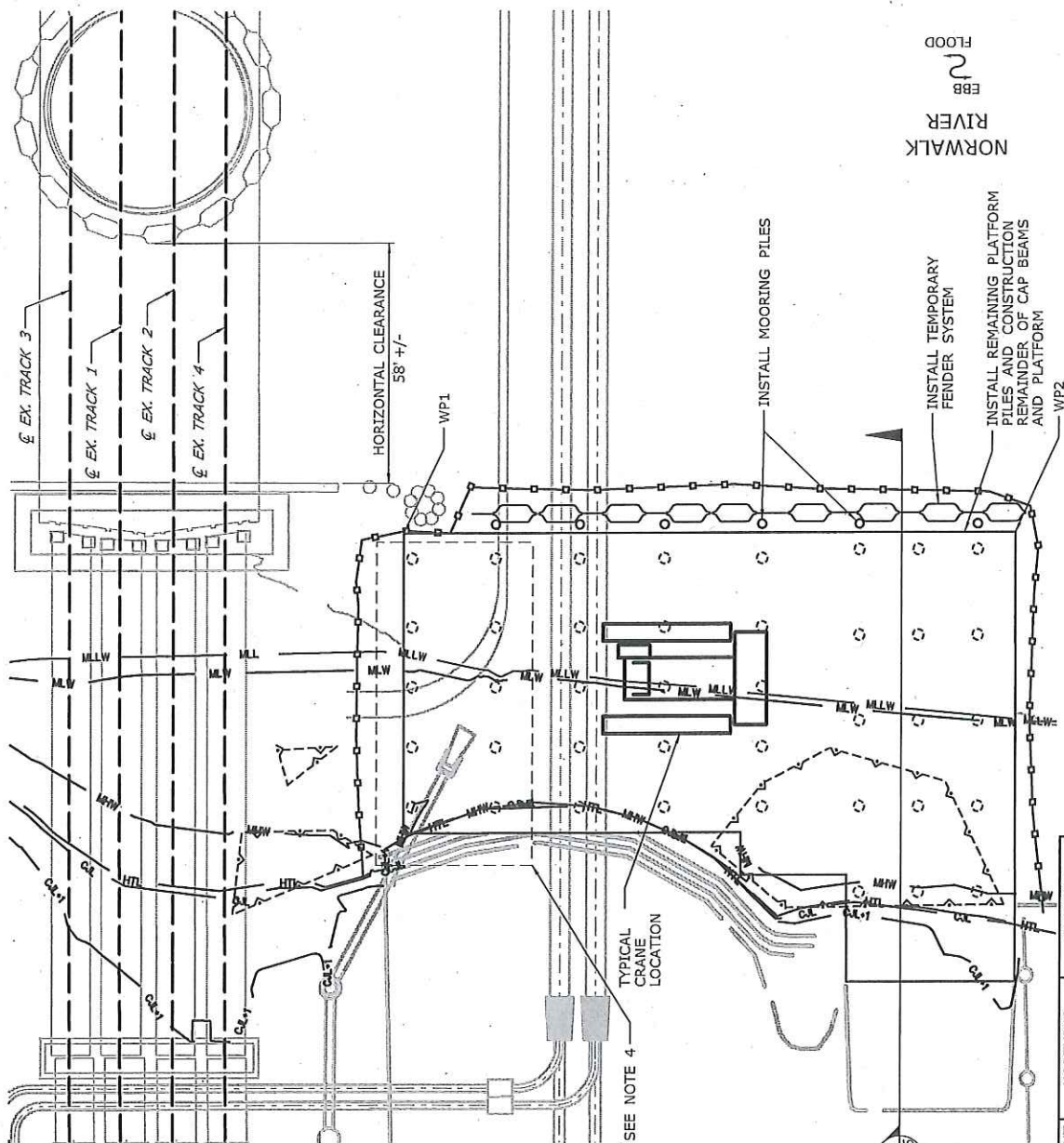


HNTB HNTB Corporation
1400 Main Street, 4th Floor
Norwalk, CT 06857
Tel: (800) 251-2727
Fax: (800) 251-2344



DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE: 1"=40'
SCALE IN FEET: 0 20 40



WORKING POINT	NORTHING	EASTING
WP1	597,951	816,560
WP2	597,811	816,598

SCALE: 1"=40'

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

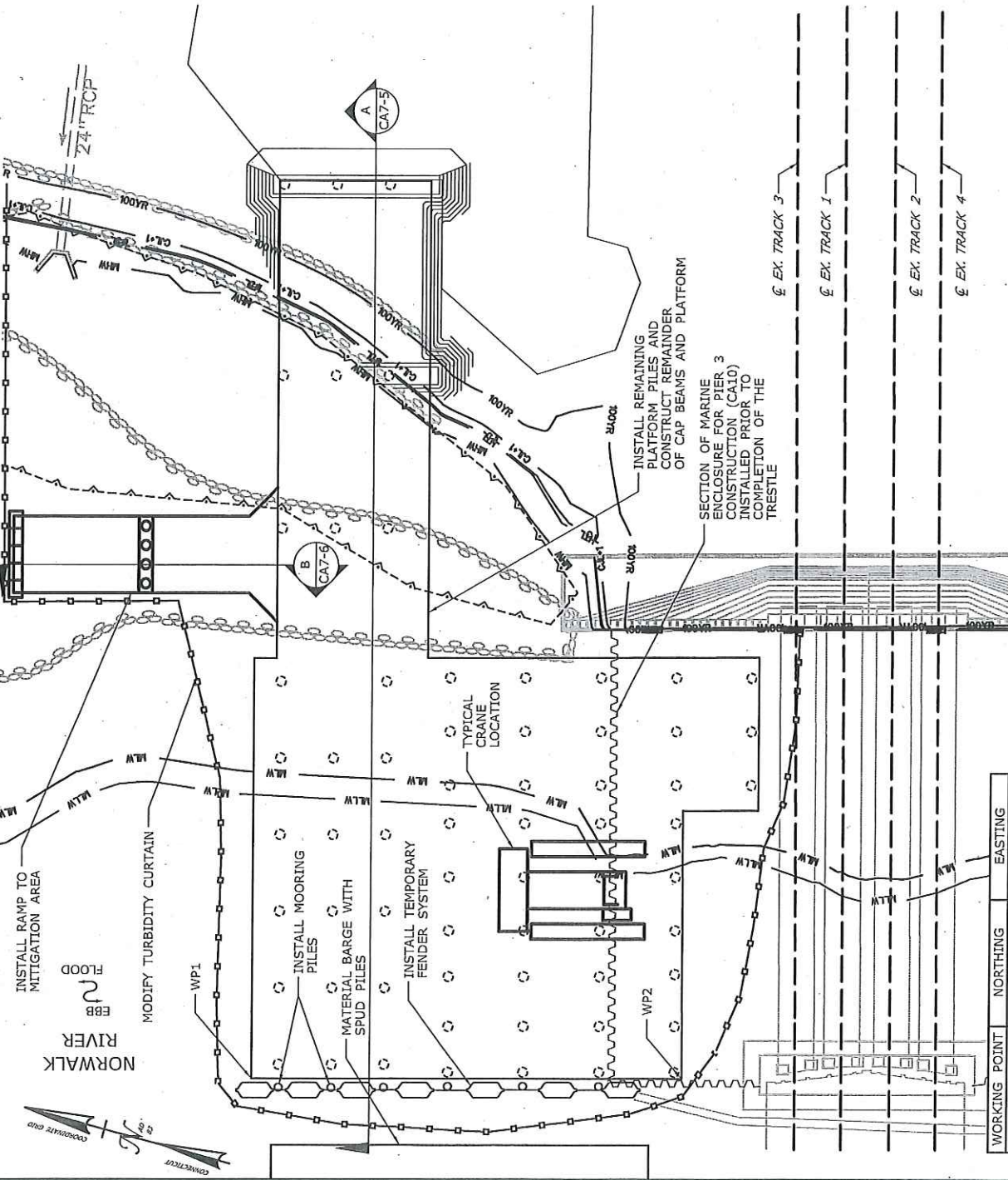
SET TURBIDITY CURTAIN, INSTALL MARINE ENCLOSURE AND EXCAVATE FOR PLATFORM CONSTRUCTION, GRADE SITE TO PLATFORM ELEVATION.	
INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.	
REMOVE MARINE ENCLOSURE, CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE. BACKFILL AT END OF PLATFORM.	
INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.	X
INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.	X
MODIFY TURBIDITY CURTAIN, INSTALL RAMP TO MITIGATION SITE.	X
SET TURBIDITY CURTAIN, REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, RAMP TO MITIGATION AREA AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.	
REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.	
RESTORE SITE AND WETLAND AREA TO PRECONSTRUCTION CONDITIONS. SEE ALSO ACTIVITY 16 FOR MITIGATION.	

NOTES:

- SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- VERTICAL DATUM IS NAVD 88.
- TOP OF PLATFORM ELEV. 10.5.
- LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
- FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND STABILIZATION OF THE RIVER BOTTOM, THE TURBIDITY CURTAIN WILL BE REMOVED.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT NO.:	0301-0176
DRAWING TITLE:	NORWALK
DATE:	REV 11-13-19
DRAWING NO.:	CA7-3
ACTIVITY 7 NORTHEAST TRESTLE (SHEET 3 OF 6)	



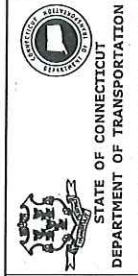
PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,219	816,693
WP2	598,109	816,723

SIGNATURE BLOCK

DRAWN:	T. ADINOLFI
CHECKED:	V. ROBBINS
APPROVED:	C. BROWN

SCALE IN FEET
0 20 40
SCALE 1"=40'



WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN.
	PLACE FILL AND GRADE UP TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. TOP OF PLATFORM ELEV. 10.5.
4. LOCATION OF PLATFORM PILES WILL BE COORDINATED WITH MNR DUCTBANK ALIGNMENT (SEE ACTIVITY 2).
5. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
6. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND STABILIZATION OF THE RIVER BOTTOM, THE TURBIDITY CURTAIN WILL BE REMOVED.
7. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
8. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CTL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

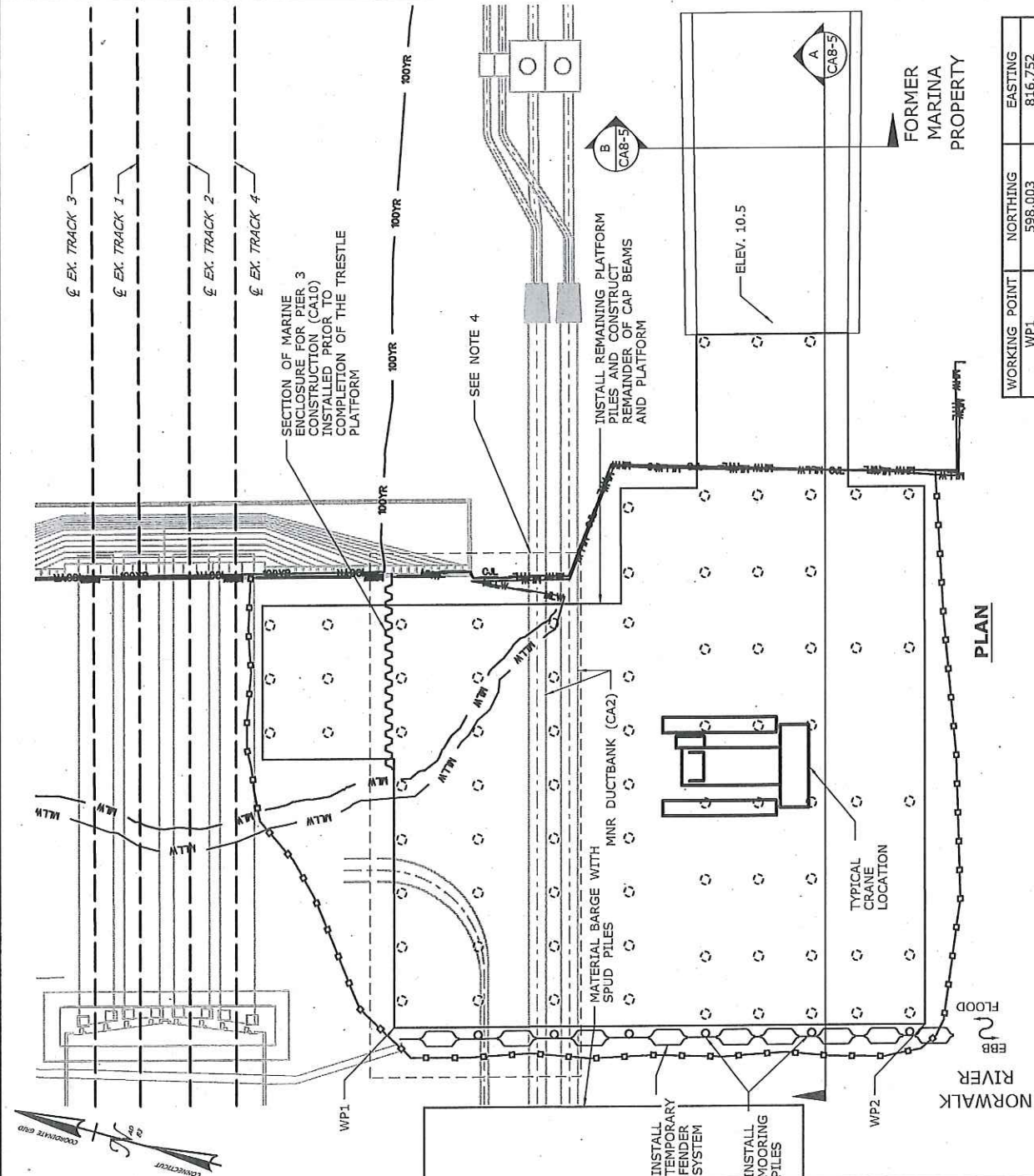
TOWN:	NORWALK	PROJECT NO.:	0301-0176
DRAWING TITLE:	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	DATE:	REV 11-13-19
		DRAWING NO.:	CAB-3

WORKING POINT	NORTHING	EASTING
WP1	598,003	816,752
WP2	597,868	816,788



DRAWN:	T. ADINOLFI
CHECKED:	V. ROBBINS
APPROVED:	C. BROWN

SCALE:	SCALE IN FEET
	0 20 40
	SCALE 1"=40'



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

X	CLOSE WEST CHANNEL TO NAVIGATION.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
- EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CTL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT NO.:	0301-0176
DRAWING TITLE:	NORWALK
DATE:	REV 11-13-19
DRAWING NO.:	PIER 2 CONSTRUCTION (SHEET 1 OF 7)
DRAWING NO.:	CA9-1

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

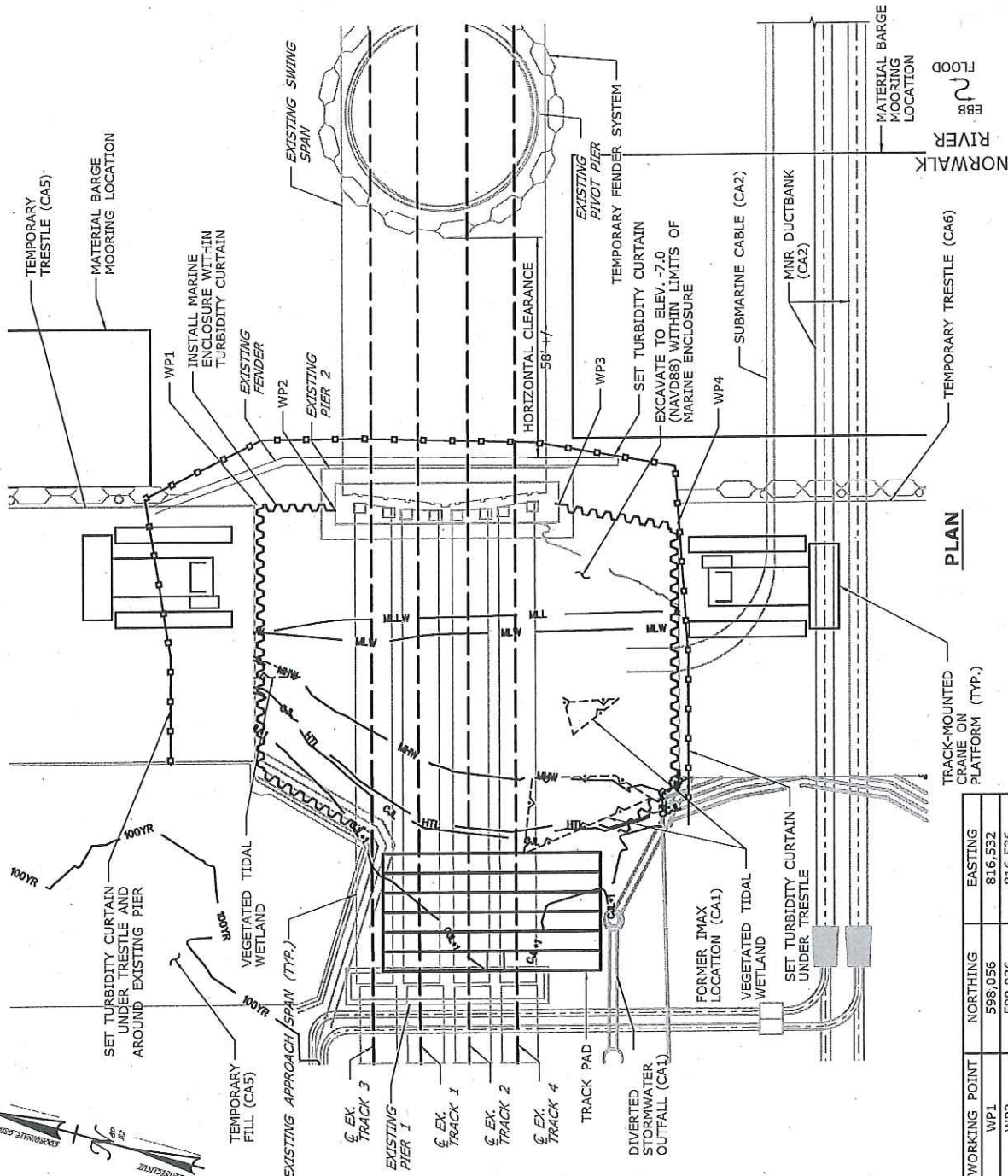


HNTB
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DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE IN FEET
0 20 40
SCALE 1"=40'



WORKING POINT	NORTHING	EASTING
WP1	598,056	816,532
WP2	598,036	816,536
WP3	597,982	816,552
WP4	597,950	816,555

PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

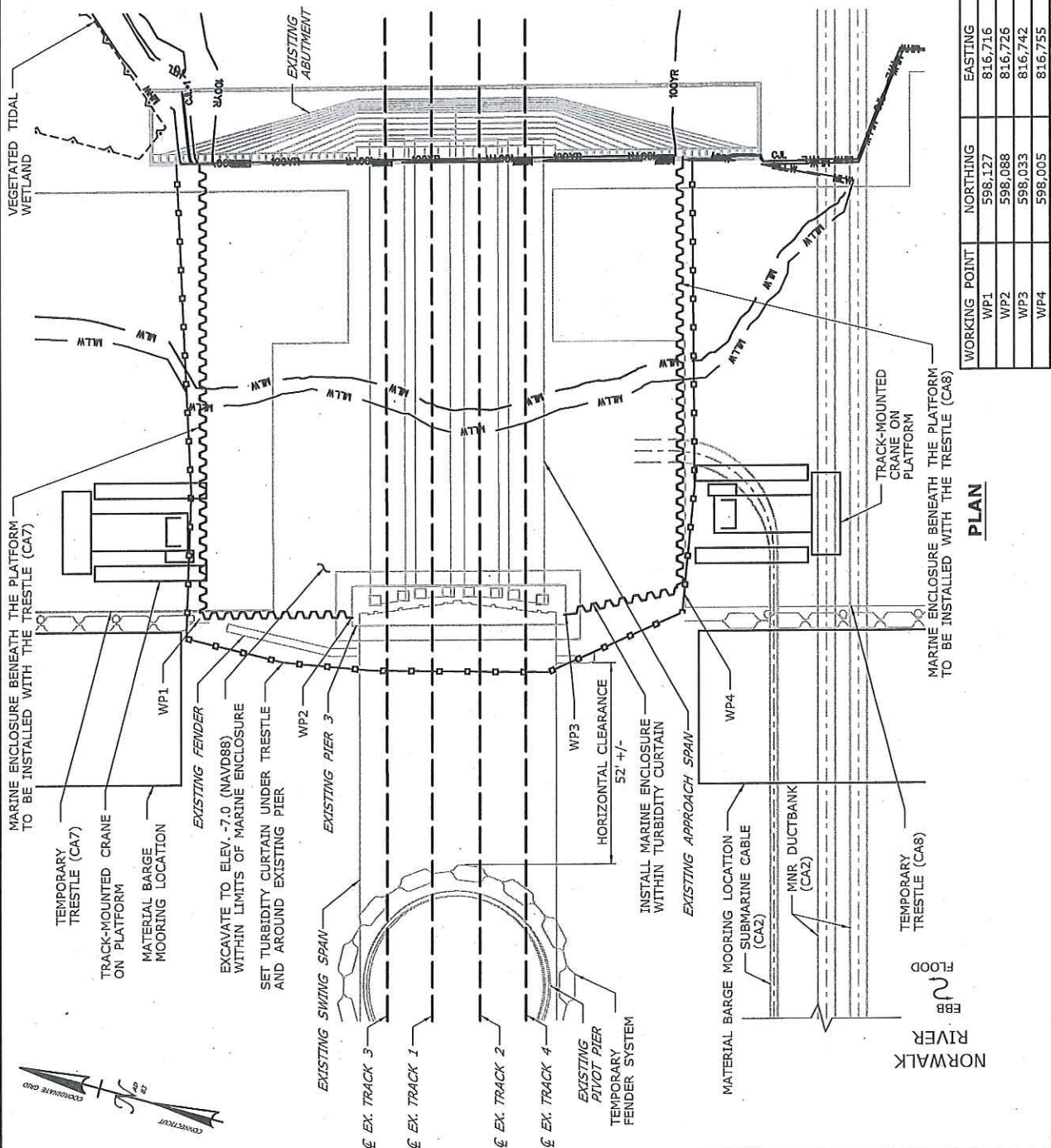
X	CLOSE EAST CHANNEL TO NAVIGATION.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER, CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CLL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWNSHIP	NORWALK	PROJECT NO.	0301-0176
DRAWING TITLE:	ACTIVITY 10	DATE:	REV 11-13-19
	PIER 3 CONSTRUCTION	DRAWING NO.:	CA10-1
	(SHEET 1 OF 7)		



PLAN

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE: 1"=40'
SCALE IN FEET: 0, 20, 40

DATE: 11-13-19

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

X	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
X	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRETTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

1. INSTALLATION OF PILES AND SLIDE RAILS UNDER THE SWING SPAN WILL BE PERFORMED WITH THE SWING SPAN IN THE OPEN POSITION.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. THIS ACTIVITY WILL BE PERFORMED DURING A FULL CHANNEL OUTAGE SCHEDULED TO BEGIN PRIOR TO, AND EXTEND BEYOND, THE SOUTH LIFT SPAN INSTALLATION (ACTIVITY 18). START AND DURATION OF THE CHANNEL OUTAGE WILL BE COORDINATED IN ADVANCE WITH THE USCG.
4. SLIDE RAIL ASSEMBLY PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

MEAN LOW	TOWN	NORWALK	PROJECT NO:	0301-0376
EMENT	DRAWING TITLE:	ACTIVITY 13	DATE:	REV 11-13-19
RIVER		SWING SPAN REMOVAL	DRAWING NO.1	CA13-1
P 41.5		(SHEET 1 OF 7)		



SCALE IN FEET  SCALE 1"=40'	DRAWING: T. ADINOLFI	SIGNATURE BLOCK 
	CHECKED: V. ROBBINS	

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

X	FOLLOWING REMOVAL OF THE SOUTH HALF OF THE SLIDE RAILS (SEE ACTIVITY 13) SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE AROUND PIVOT PIER.
	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AROUND PIVOT PIER.
	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

- THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WHILE THE CHANNEL IS CLOSED TO NAVIGATION.
- MARINE ENCLOSURE INSTALLATION WILL BE COORDINATED WITH REMOVAL OF THE SLIDE RAILS (ACTIVITY 13) TO TAKE ADVANTAGE OF THE NAVIGATION OUTAGE.
- SINGLE-CHANNEL RESTRICTIONS MAY BE NEEDED UNTIL THE MARINE ENCLOSURE IS COMPLETE.
- TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
- THE LIFT SPAN WILL BE RAISED AS NEED TO INSTALL THE MARINE ENCLOSURE.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT NO.:	0301-0176
DRAWING TITLE:	NORWALK
DATE:	REV 11-13-19
DRAWING NO.:	CA14-1

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

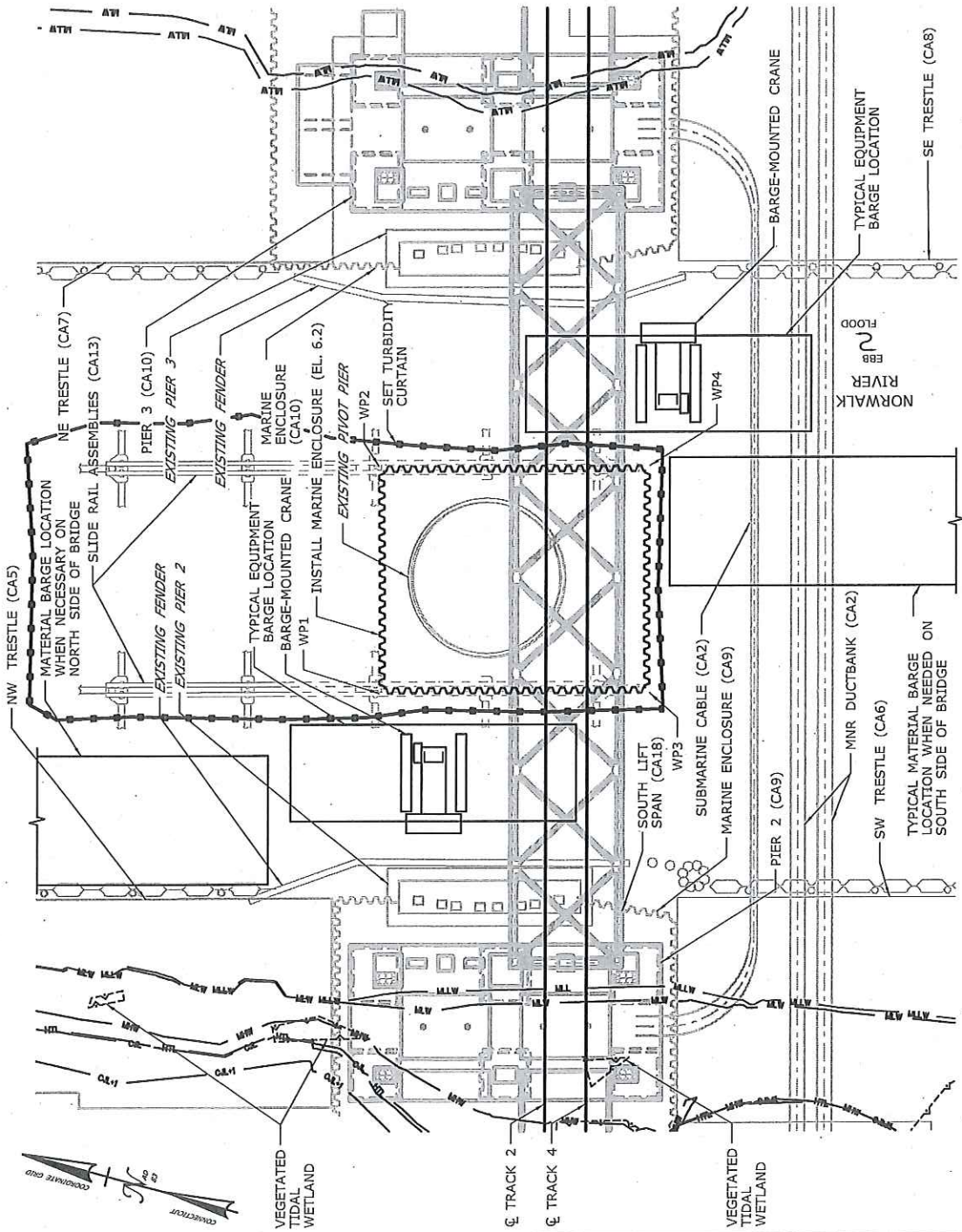


SIGNATURE BLOCK:
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE: 1"=50'
SCALE IN FEET: 0, 25, 50

WORKING POINT	NORTHING	EASTING
WP1	598,059	816,597
WP2	598,078	816,665
WP3	597,977	816,619
WP4	597,995	816,688

PLAN



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

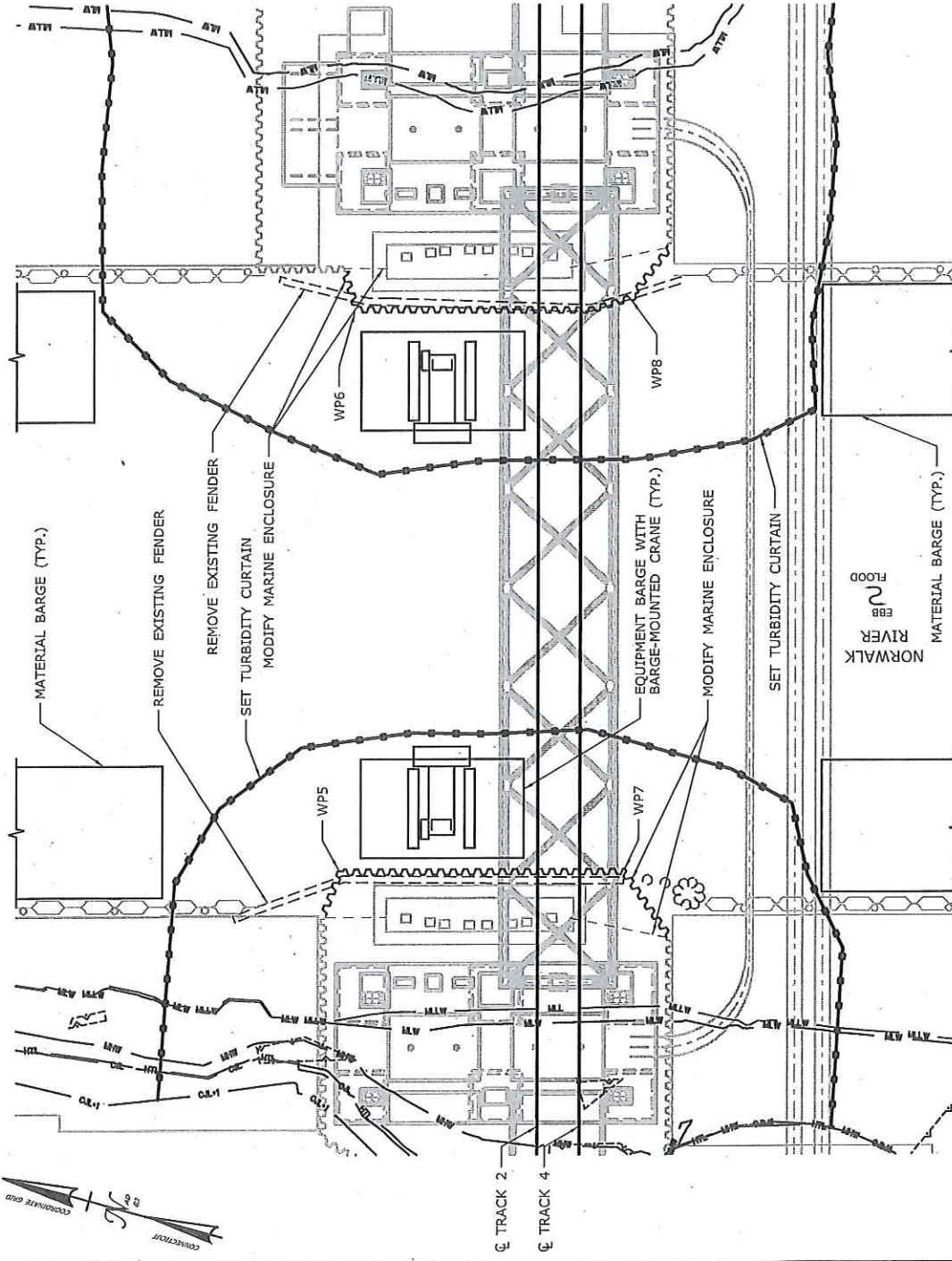
	FOLLOWING REMOVAL OF THE SOUTH HALF OF THE SLIDE RAILS (SEE ACTIVITY 13), SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE AROUND PIVOT PIER.
	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AROUND PIVOT PIER.
X	SET TURBIDITY CURTAIN, REMOVE EXISTING FENDER SYSTEM, AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM, EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

- THE LIFT SPAN WILL BE RAISED AS NEEDED TO MODIFY SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE.
- WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS AFTER THE CHANNEL IS RE-OPENED.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
- TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE		CONTOUR	ELEVATION (NAVD88)
DESCRIPTION			
100-YEAR FLOODPLAIN	100 YR	CIL+1	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION		CIL	6.4
CT COASTAL JURISDICTION LINE		CIL	5.4
HIGH TIDE LINE		HTL	5.2
MEAN HIGH WATER LINE		MHW	3.35
MEAN LOW WATER LINE		MLW	-3.72
MEAN LOWER LOW WATER LINE		MLLW	-3.98

TOWN:	PROJECT NO.:
NORWALK	0301-0176
DRAWING TITLE:	DATE:
ACTIVITY 14 PIER REMOVAL (SHEET 4 OF 8)	REV 11-13-19
	DRAWING NO.:
	CA14-4



PLAN

WORKING POINT	NORTHING	EASTING
WP5	598,054	816,547
WP6	598,094	816,712
WP7	597,969	816,570
WP8	598,013	816,737

PROJECT TITLE:
WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5



HNTB
HNTB Corporation
1000 West 10th Street
Bloomington, IL 61820
Tel: 312.331.2070
Fax: 312.331.2074

SIGNATURE BLOCK
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

X	SET TURBIDITY CURTAIN.
X	INSTALL PILES FOR CHANNEL SEGMENTS ON NORTH AND SOUTH SIDES OF THE LIFT SPANS.
	REMOVE MODULAR BARGES AND TEMPORARY FENDER SYSTEM BETWEEN THE TRESTLES.
	INSTALL PILES BENEATH LIFT SPANS.
	COMPLETE CHANNEL SEGMENT OF FENDER SYSTEM.
	FOLLOWING TRESTLE REMOVAL, INSTALL PILES AND COMPLETE FLARE SEGMENTS OF FENDER SYSTEM.

NOTES:

- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- EAST SIDE FENDER SHOWN FOR ILLUSTRATION PURPOSES, WHICHEVER FENDER BEGINS FIRST WILL PROGRESS THROUGH ALL WORK THAT REQUIRES BARGES IN THE RIVER BEFORE COMMENCING WITH THE OPPOSITE FENDER TO AVOID OCCUPYING BOTH SIDES OF THE CHANNEL SIMULTANEOUSLY.
- LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
- PILE LOCATIONS ON THE SOUTH SIDE OF THE LIFT SPAN WILL BE COORDINATED WITH THE AS-BUILT DUCTBANK (ACTIVITY 2).
- FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWN:

NORWALK

PROJECT NO.: 0301-0176
DATE: REV 11-13-19
DRAWING NO.: CA15-1

**WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5**

PROJECT TITLE:

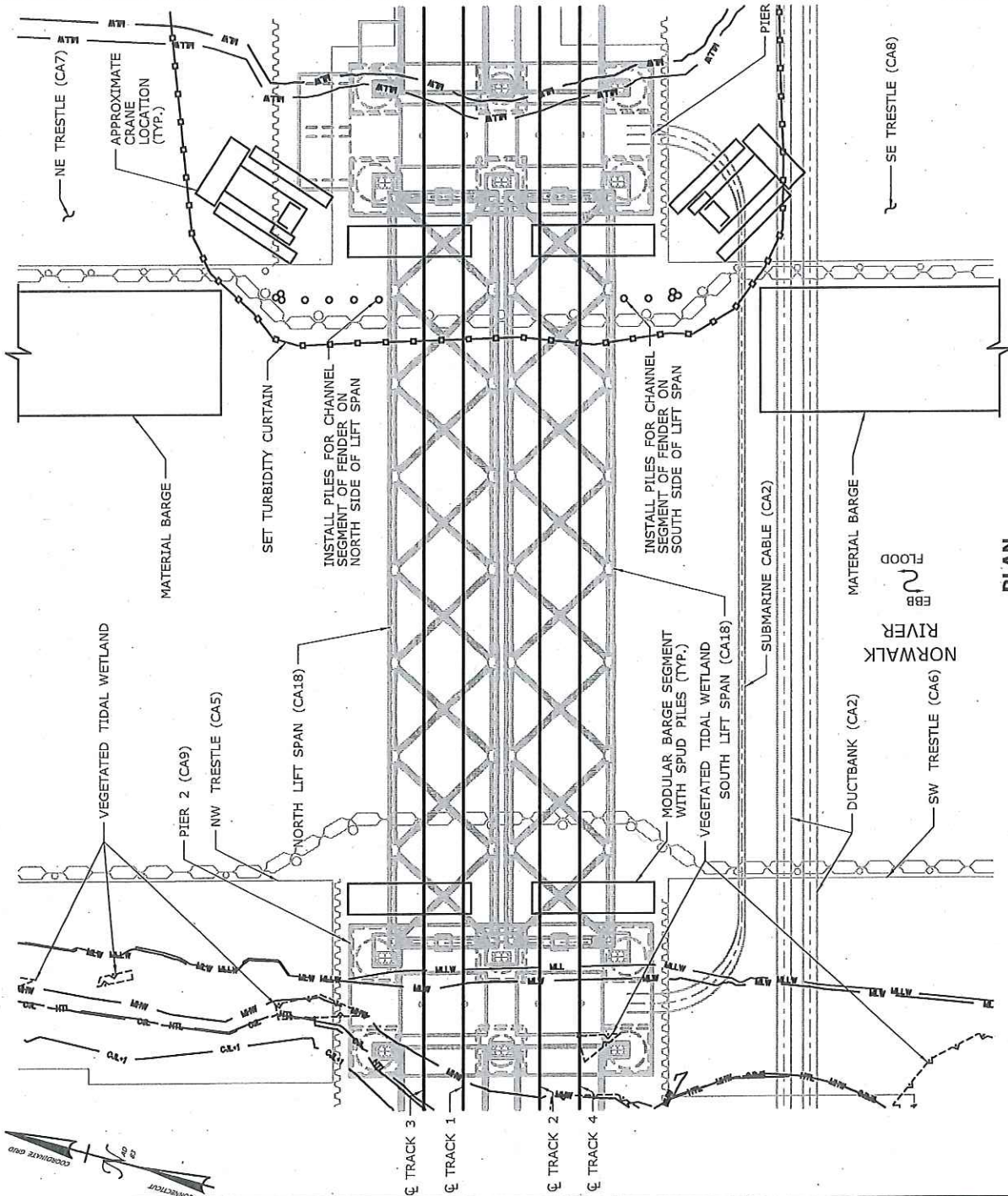


Signature Block:

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

HNTB
HNTB Corporation
55 Capitol Boulevard, 4th Floor
Hartford, CT 06103
Tel: 860.426.2200
Fax: 860.426.2201

Scale:
SCALE IN FEET
0 25 50
SCALE 1"=50'



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN.
	INSTALL PILES FOR CHANNEL SEGMENTS ON NORTH AND SOUTH SIDES OF THE LIFT SPANS.
X	REMOVE MODULAR BARGES AND TEMPORARY FENDER SYSTEM BETWEEN THE TRESTLES.
X	INSTALL PILES BENEATH LIFT SPANS.
	COMPLETE CHANNEL SEGMENT OF FENDER SYSTEM.
	FOLLOWING TRESTLE REMOVAL, INSTALL PILES AND COMPLETE FLARE SEGMENTS OF FENDER SYSTEM.

NOTES:

- LIFT SPANS WILL BE RAISED AS NEEDED TO INSTALL PILES.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

REMOVE MODULAR BARGES AND TEMPORARY FENDER SYSTEM BETWEEN THE TRESTLES

NORWALK RIVER
FLOOD
EBB

PLAN

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.95

PROJECT TITLE:

WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 0428SR/MP 41.5



HNTB HNTB Corporation
35 Capital Boulevard, 4th Floor
Bloomington, CT 06033
Tel: (860) 339-0277
Fax: (860) 339-0278



DRAWN:
T. ADINOLFI

CHECKED:
V. ROBBINS

APPROVED:
C. BROWN

SCALE IN FEET
0 25 50
SCALE 1"=50'

SCALE:

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN.
	INSTALL PILES FOR CHANNEL SEGMENTS ON NORTH AND SOUTH SIDES OF THE LIFT SPANS.
	REMOVE MODULAR BARGES AND TEMPORARY FENDER SYSTEM BETWEEN THE TRETTLES.
	INSTALL PILES BENEATH LIFT SPANS.
X	COMPLETE CHANNEL SEGMENT OF FENDER SYSTEM.
	FOLLOWING TRETTLE REMOVAL, INSTALL PILES AND COMPLETE FLARE SEGMENTS OF FENDER SYSTEM.

NOTES:

1. WORK DEPICTED ON THIS SHEET INCLUDES ALL HORIZONTAL ELEMENTS OF THE FENDER SYSTEM INCLUDING WALKERS, WALKWAY, HANDRAILS, AND ALL NECESSARY HARDWARE.
2. WORK DEPICTED ON THIS SHEET WILL NOT REQUIRE EITHER LIFT SPAN TO BE RAISED.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE		ELEVATION (NAVD88)
DESCRIPTION	CONTOUR	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT TITLE:	NORWALK
DRAWING TITLE:	ACTIVITY 15 FENDER INSTALLATION (SHEET 3 OF 7)
DATE:	REV 11-13-19
DRAWING NO.:	CA15-3

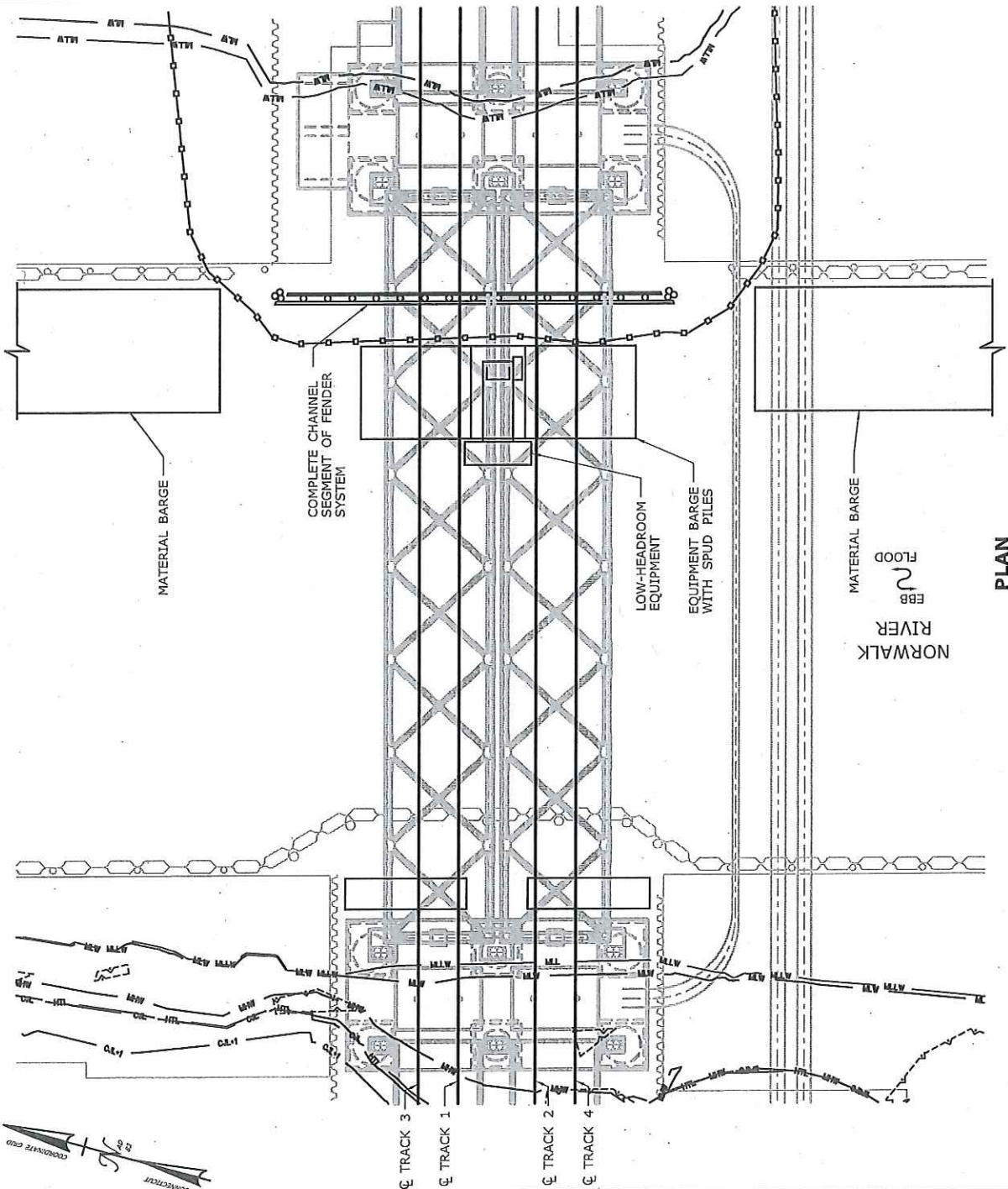
WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5



HNTB HNTB Corporation
100 Main Street, 20th Floor
New York, NY 10038
Tel: (212) 512-2000
Fax: (212) 512-2004

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE: 1"=50'
SCALE IN FEET: 0 25 50



NORWALK RIVER
FLOOD
EBB

PLAN

CONSTRUCTION SEQUENCE

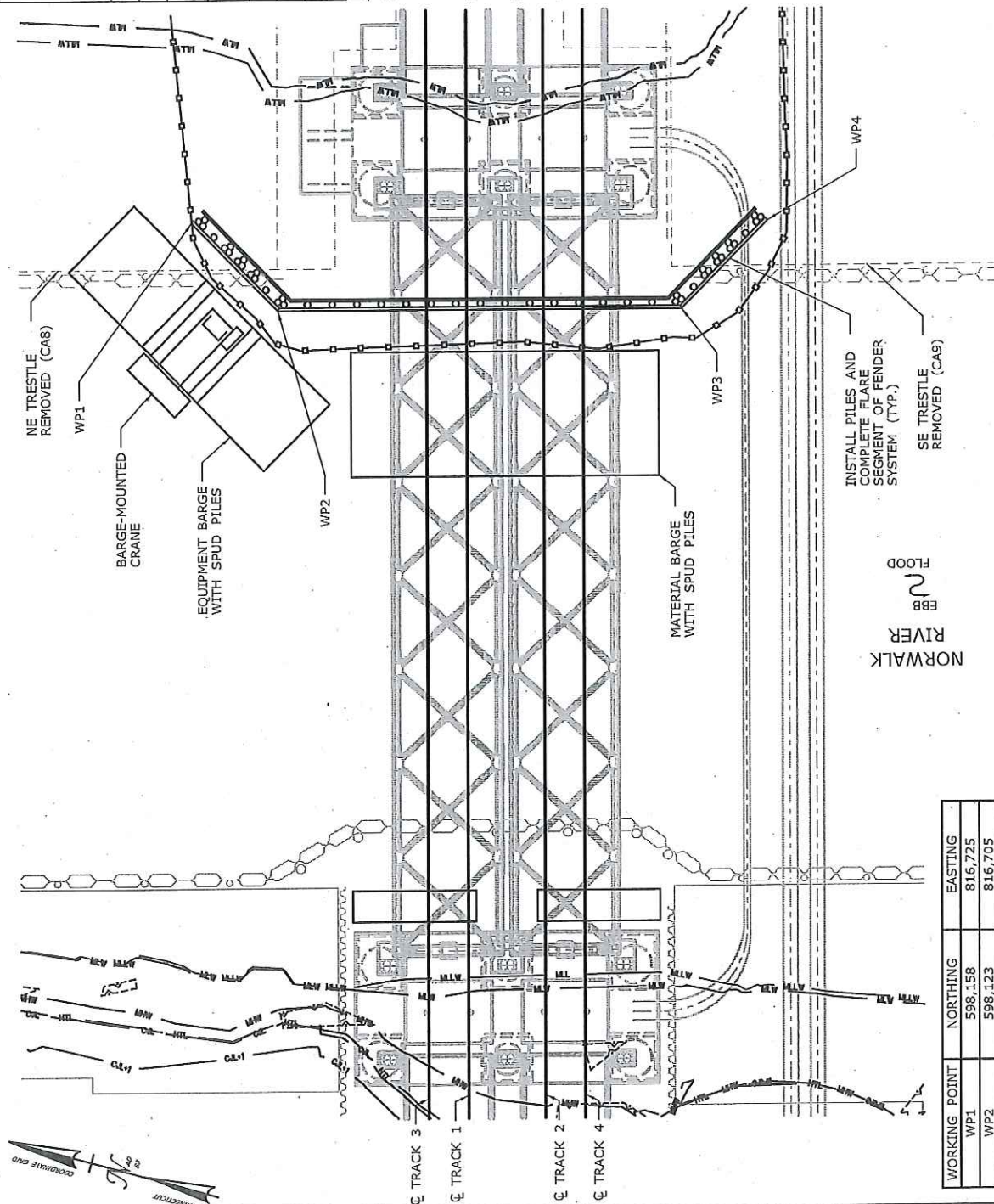
THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN.
	INSTALL PILES FOR CHANNEL SEGMENTS ON NORTH AND SOUTH SIDES OF THE LIFT SPANS.
	REMOVE MODULAR BARGES AND TEMPORARY FENDER SYSTEM BETWEEN THE TRETTLES.
	INSTALL PILES BENEATH LIFT SPANS.
	COMPLETE CHANNEL SEGMENT OF FENDER SYSTEM.
X	FOLLOWING TRETTLE REMOVAL, INSTALL PILES AND COMPLETE FLARE SEGMENTS OF FENDER SYSTEM.

NOTES:

1. WORK DEPICTED ON THIS SHEET INCLUDES INSTALLATION OF PILES WITHIN THE FLARE SEGMENTS AND ALL HORIZONTAL ELEMENTS OF THE FENDER SYSTEM, INCLUDING WALKERS, WALKWAY, HANDRAILS, AND ALL NECESSARY HARDWARE.
2. WORK DEPICTED ON THIS SHEET WILL NOT REQUIRE EITHER LIFT SPAN TO BE RAISED.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
6. PILE LOCATIONS ON THE SOUTH SIDE OF THE LIFT SPAN WILL BE COORDINATED WITH THE AS-BUILT DUCTBANK (ACTIVITY 2).



NORWALK RIVER
FLOOD EBB

PLAN

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

PROJECT TITLE:



HNTB HNTB Corporation
55 Central Business 4th Floor
New York, NY 10007
Tel: (800) 223-2377
Fax: (212) 223-2374

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'
SCALE IN FEET: 0 25 50
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

TOWN: **NORWALK**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 4 OF 7)**
DATE: **REV 11-13-19**
REV NO.: **CA15-4**

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

PROJECT NO.: **0301-0176**

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	SET TURBIDITY CURTAIN.
	INSTALL PILES FOR CHANNEL SEGMENTS ON NORTH AND SOUTH SIDES OF THE LIFT SPANS.
	REMOVE MODULAR BARGES AND TEMPORARY FENDER SYSTEM BETWEEN THE TRESTLES.
	INSTALL PILES BENEATH LIFT SPANS.
	COMPLETE CHANNEL SEGMENT OF FENDER SYSTEM.
X.	FOLLOWING TRESTLE REMOVAL, INSTALL PILES AND COMPLETE FLARE SEGMENTS OF FENDER SYSTEM.

NOTES:

1. WORK DEPICTED ON THIS SHEET INCLUDES INSTALLATION OF PILES WITHIN THE FLARE SEGMENTS AND ALL HORIZONTAL ELEMENTS OF THE FENDER SYSTEM, INCLUDING WALKWAYS, HANDRAILS, AND ALL NECESSARY HARDWARE.
2. WORK DEPICTED ON THIS SHEET WILL NOT REQUIRE EITHER LIFT SPAN TO BE RAISED.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. FENDER, PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
6. PILE LOCATIONS ON THE SOUTH SIDE OF THE LIFT SPAN WILL BE COORDINATED WITH THE AS-BUILT DUCTBANK (ACTIVITY 2).

ELEVATION TABLE		ELEVATION (NAVD88)
DESCRIPTION	CONTOUR	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CIL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

TOWN:	NORWALK	PROJECT NO.:	0301-0176
DRAWING TITLE:	ACTIVITY 15 FENDER INSTALLATION (SHEET 5 OF 7)	DATE:	REV 11-13-19
		DRAWING NO.:	CA15-5

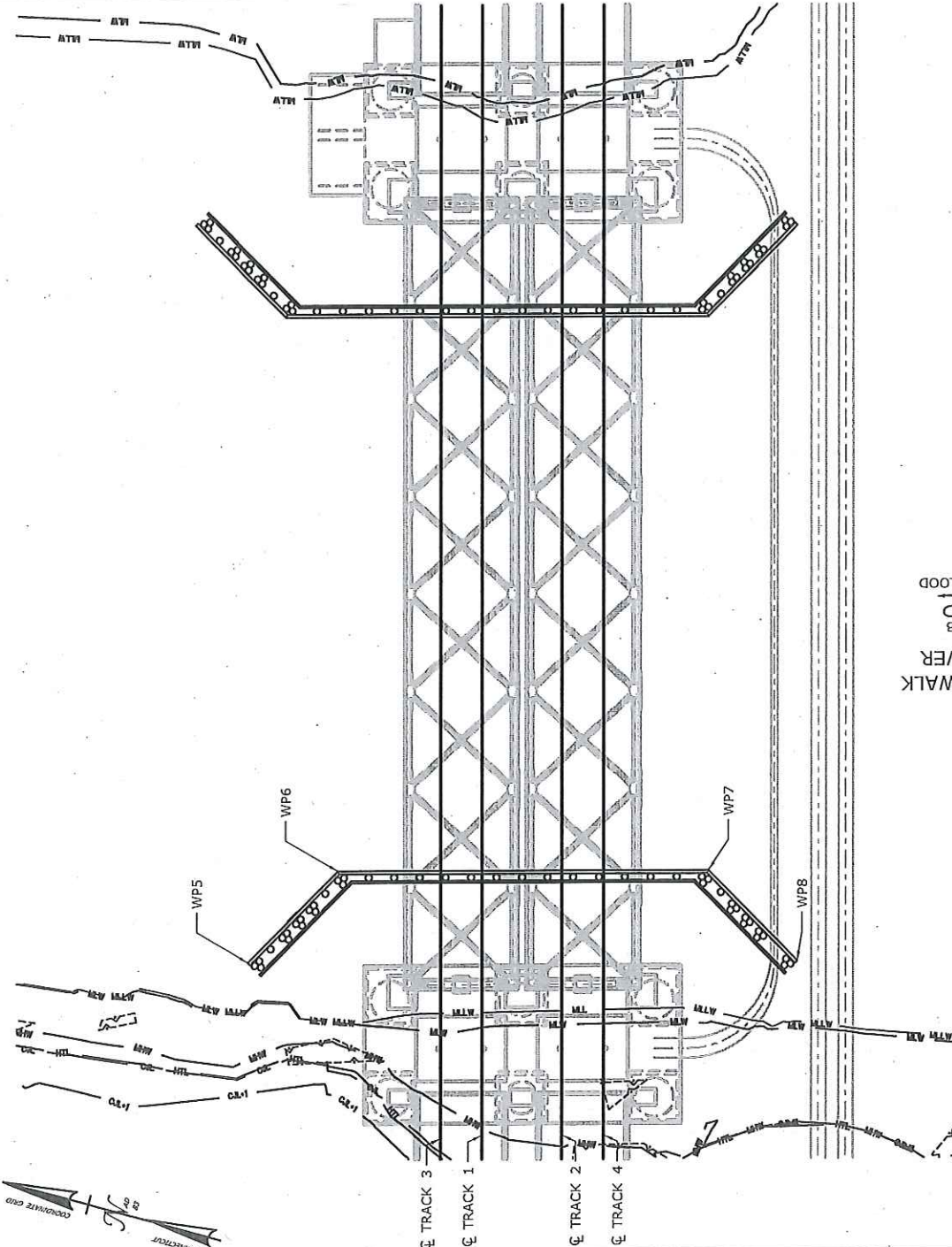
PROJECT TITLE:
WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5



HNTB
HNTB Corporation
300 Main Street, Suite 200
Norwalk, CT 06857
Tel: (203) 225-2277
Fax: (203) 225-2284

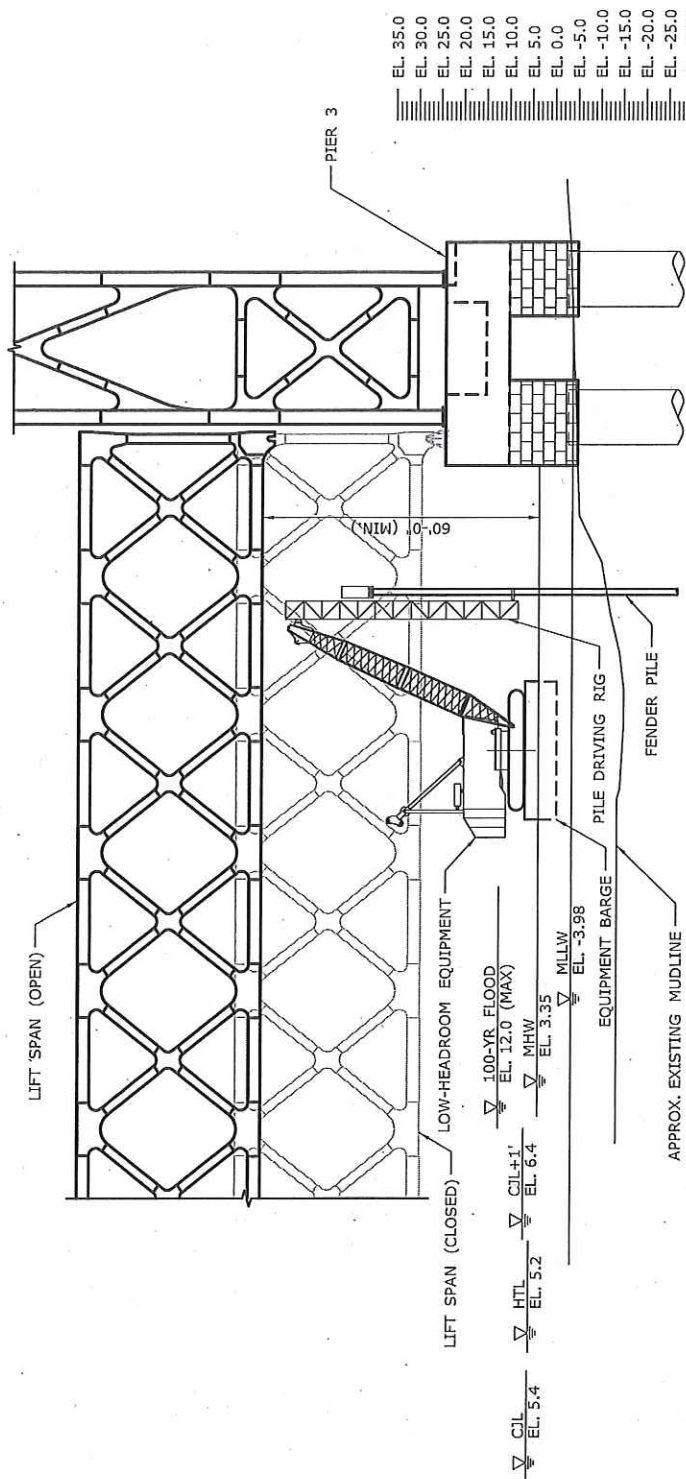
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SCALE IN FEET
0 25 50
SCALE 1" = 50'



NORWALK RIVER
FLOOD 2
PLAN

WORKING POINT	NORTHING	EASTING
WP5	598.083	816.511
WP6	598.063	816.545
WP7	597.952	816.575
WP8	597.918	816.556



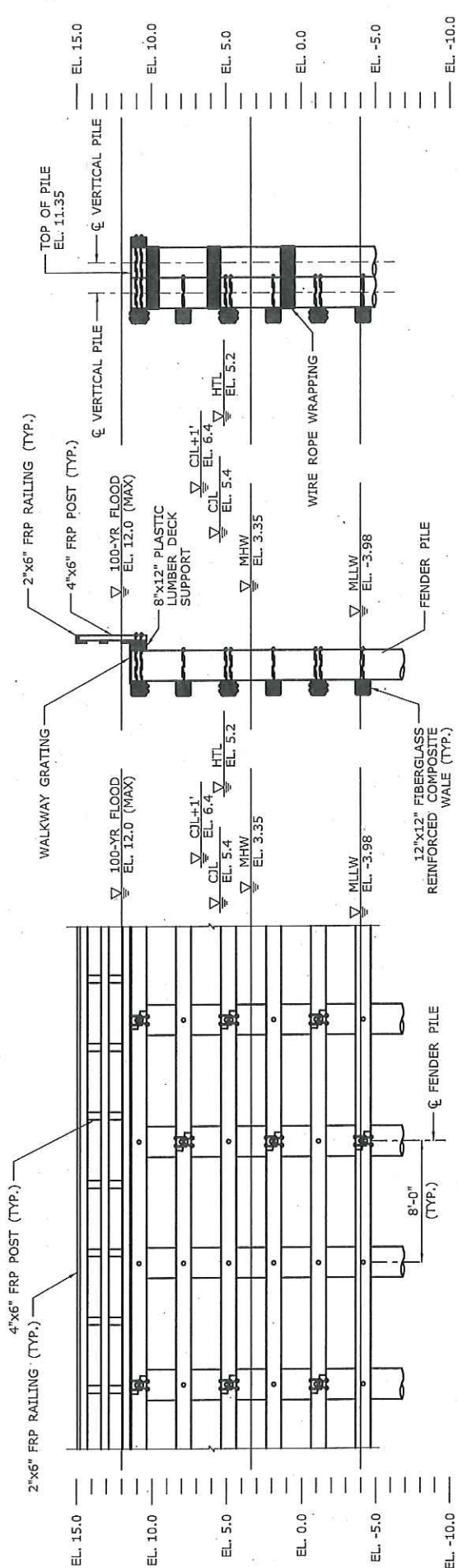
SECTION A
CA15-2

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
3. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 AND EL. 10 DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CL+1	6.4
CT COASTAL JURISDICTION LINE	CIL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

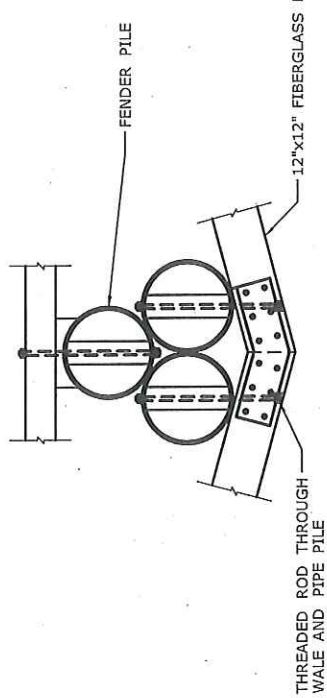
PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5		PROJECT NO.: 0301-0176	
DRAWING TITLE: ACTIVITY 15 FENDER INSTALLATION (SHEET 6 OF 7)		DATE: REV 11-13-19 DRAWING NO.: CA15-6	
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		HNTB HNTB Corporation 300 Capital Boulevard, 18th Floor Bridgeport, CT 06607 Tel: (203) 327-3377 Fax: (203) 327-3344	
DRAWN: T. ADINOLFI	CHECKED: V. ROBBINS	APPROVED: C. BROWN	SIGNATURE BLOCK:
SCALE IN FEET 0 20 40 SCALE 1"=40'			



TYPICAL FENDER SYSTEM ELEVATION

TYPICAL SECTION

TYPICAL PILE CLUSTER ELEVATION



TYPICAL CORNER DETAIL

NOTES:

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MEAN LOW WATER LINE	MLW	-3.72
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HNTB
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15 Capital Boulevard, 4th Floor
Boston, MA 02108
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
**WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5**

TOWN:
NORWALK

PROJECT NO.:
0301-0176

DRAWN:
T. ADINOLFI

CHECKED:
V. ROBBINS

APPROVED:
C. BROWN

SCALE IN FEET
0 5 10
SCALE 1"=10'
(EXCEPT AS NOTED)

DRAWING TITLE:
**ACTIVITY 15
FENDER INSTALLATION
(SHEET 7 OF 7)**

DATE:
REV 11-13-19

DRAWING NO.:
CA15-7