Attachment I – Permit Plates

WALK BRIDGE REPLACEMENT
INDEX OF PERMIT PLATES

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
GEN-1	INDEX OF PERMIT PLATES (SHEET 1 OF 2)	SUM-1	SUMMARY OF IMPACTS (SHEET 1 OF 15)	CA2-1	DUCTBANK INSTALLATION (SHEET 1 OF 4)	CA8-1	SOUTHEAST TRESTLE (SHEET 1 OF 5)
GEN-1A	INDEX OF PERMIT PLATES (SHEET 2 OF 2)	SUM-1A	SUMMARY OF IMPACTS (SHEET 2 OF 15)	CA2-2	DUCTBANK INSTALLATION (SHEET 2 OF 4)	CA8-2	SOUTHEAST TRESTLE (SHEET 2 OF 5)
GEN-2	GENERAL NOTES AND LEGEND	SUM-2	SUMMARY OF IMPACTS (SHEET (3 OF 15)	CA2-3	DUCTBANK INSTALLATION (SHEET 3 OF 4)	CA8-3	SOUTHEAST TRESTLE (SHEET 3 OF 5)
GEN-3	LOCATION PLAN	SUM-3	SITES 1, 2 & 3 STATE (SHEET 4 OF 15)	CA2-4	DUCTBANK INSTALLATION (SHEET 4 OF 4)	CA8-4	SOUTHEAST TRESTLE (SHEET 4 OF 5)
GEN-4	RESOURCE MAP (SHEET 1 OF 2)	SUM-4	SITE 4 STATE (SHEET 5 OF 15)			CA8-5	SOUTHEAST TRESTLE (SHEET 5 OF 5)
GEN-5	RESOURCE MAP (SHEET 2 OF 2)	SUM-5	SITE 5 STATE (SHEET 6 OF 15)	CA3-1	VESSEL RELOCATION (SHEET 1 OF 6)		
GEN-6	FLOOD ZONE MAP	SUM-5A	SITE 7 STATE (SHEET 7 OF 15)	CA3-2	VESSEL RELOCATION (SHEET 2 OF 6)	CA9-1	PIER 2 CONSTRUCTION (SHEET 1 OF 7)
GEN-7	SITE PLAN/KEY MAP	SUM-5B	SITE 8 STATE (SHEET 8 OF 15)	CA3-3	VESSEL RELOCATION (SHEET 3 OF 6)	CA9-2	PIER 2 CONSTRUCTION (SHEET 2 OF 7)
GEN-8	VESSEL BERTHING PLAN OVERALL (SHEET 1 OF 3)	SUM-5C	SITE 9 STATE (SHEET 9 OF 15)	CA3-4	VESSEL RELOCATION (SHEET 4 OF 6)	CA9-3	PIER 2 CONSTRUCTION (SHEET 3 OF 7)
GEN-9	VESSEL BERTHING PLAN WALK BRIDGE (SHEET 2 OF 3)	SUM-6	SITES 1, 2 & 3 FEDERAL (SHEET 10 OF 15)	CA3-5	VESSEL RELOCATION (SHEET 5 OF 6)	CA9-4	PIER 2 CONSTRUCTION (SHEET 4 OF 7)
GEN-10	VESSEL BERTHING PLAN MARINE STAGING YARD (SHEET 3 OF 3)	SUM-7	SITE 4 FEDERAL (SHEET 11 OF 15)	CA3-6	VESSEL RELOCATION (SHEET 6 OF 6)	CA9-5	PIER 2 CONSTRUCTION (SHEET 5 OF 7)
GEN-11	PARCEL MAP (SHEET 1 OF 2)	SUM-8	SITE 5 FEDERAL (SHEET 12 OF 15)			CA9-6	PIER 2 CONSTRUCTION (SHEET 6 OF 7)
GEN-12	PARCEL MAP (SHEET 2 OF 2)	SUM-9	SITE 7 FEDERAL (SHEET 13 OF 15)	CA4-1	MARINE STAGING YARD (SHEET 1 OF 4)	CA9-7	PIER 2 CONSTRUCTION (SHEET 7 OF 7)
		SUM-10	SITE 8 FEDERAL (SHEET 14 OF 15)	CA4-2	MARINE STAGING YARD (SHEET 2 OF 4)		
EP-1	EXISTING CONDITIONS (SHEET 1 OF 9)	SUM-11	SITE 9 FEDERAL (SHEET 15 OF 15)	CA4-3	MARINE STAGING YARD (SHEET 3 OF 4)	CA10-1	PIER 3 CONSTRUCTION (SHEET 1 OF 7)
EP-2	EXISTING CONDITIONS (SHEET 2 OF 9)			CA4-4	MARINE STAGING YARD (SHEET 4 OF 4)	CA10-2	PIER 3 CONSTRUCTION (SHEET 2 OF 7)
EP-3	EXISTING CONDITIONS (SHEET 3 OF 9)	FP-1	FLOODPLAIN IMPACTS (SHEET 1 OF 11)			CA10-3	PIER 3 CONSTRUCTION (SHEET 3 OF 7)
EP-4	EXISTING CONDITIONS (SHEET 4 OF 9)	FP-1A	FLOODPLAIN IMPACTS (SHEET 2 OF 11)	CA5-1	NORTHWEST TRESTLE (SHEET 1 OF 5)	CA10-4	PIER 3 CONSTRUCTION (SHEET 4 OF 7)
EP-5	EXISTING CONDITIONS (SHEET 5 OF 9)	FP-2	FLOODPLAIN IMPACTS (SHEET 3 OF 11)	CA5-2	NORTHWEST TRESTLE (SHEET 2 OF 5)	CA10-5	PIER 3 CONSTRUCTION (SHEET 5 OF 7)
EP-6	EXISTING CONDITIONS (SHEET 6 OF 9)	FP-3	FLOODPLAIN IMPACTS (SHEET 4 OF 11)	CA5-3	NORTHWEST TRESTLE (SHEET 3 OF 5)	CA10-6	PIER 3 CONSTRUCTION (SHEET 6 OF 7)
EP-7	EXISTING CONDITIONS (SHEET 7 OF 9)	FP-4	FLOODPLAIN IMPACTS (SHEET 5 OF 11)	CA5-4	NORTHWEST TRESTLE (SHEET 4 OF 5)	CA10-7	PIER 3 CONSTRUCTION (SHEET 7 OF 7)
EP-8	EXISTING CONDITIONS (SHEET 8 OF 9)	FP-5	FLOODPLAIN IMPACTS (SHEET 6 OF 11)	CA5-5	NORTHWEST TRESTLE (SHEET 5 OF 5)		
EP-9	EXISTING CONDITIONS (SHEET 9 OF 9)	FP-6	FLOODPLAIN IMPACTS (SHEET 7 OF 11)			CA11-1	BARGE MOORING (SHEET 1 OF 5)
		FP-7	FLOODPLAIN IMPACTS (SHEET 8 OF 11)	CA6-1	SOUTHWEST TRESTLE (SHEET 1 OF 5)	CA11-2	BARGE MOORING (SHEET 2 OF 5)
PP-1	PROPOSED CONDITIONS (SHEET 1 OF 9)	FP-8	FLOODPLAIN IMPACTS (SHEET 9 OF 11)	CA6-2	SOUTHWEST TRESTLE (SHEET 2 OF 5)	CA11-3	BARGE MOORING (SHEET 3 OF 5)
PP-2	PROPOSED CONDITIONS (SHEET 2 OF 9)	FP-9	FLOODPLAIN IMPACTS (SHEET 10 OF 11)	CA6-3	SOUTHWEST TRESTLE (SHEET 3 OF 5)	CA11-4	BARGE MOORING (SHEET 4 OF 5)
PP-3	PROPOSED CONDITIONS (SHEET 3 OF 9)	FP-10	FLOODPLAIN IMPACTS (SHEET 11 OF 11)	CA6-4	SOUTHWEST TRESTLE (SHEET 4 OF 5)	CA11-5	BARGE MOORING (SHEET 5 OF 5)
PP-4	PROPOSED CONDITIONS (SHEET 4 OF 9)			CA6-5	SOUTHWEST TRESTLE (SHEET 5 OF 5)		
PP-5	PROPOSED CONDITIONS (SHEET 5 OF 9)	CA1-1	IMAX REMOVAL (SHEET 1 OF 7)			CA12-1	SUBMARINE CABLE REMOVAL (SHEET 1 OF 4)
PP-6	PROPOSED CONDITIONS (SHEET 6 OF 9)	CA1-2	IMAX REMOVAL (SHEET 2 OF 7)	CA7-1	NORTHEAST TRESTLE (SHEET 1 OF 6)	CA12-2	SUBMARINE CABLE REMOVAL (SHEET 2 OF 4)
PP-7	PROPOSED CONDITIONS (SHEET 7 OF 9)	CA1-3	IMAX REMOVAL (SHEET 3 OF 7)	CA7-2	NORTHEAST TRESTLE (SHEET 2 OF 6)	CA12-3	SUBMARINE CABLE REMOVAL (SHEET 3 OF 4)
PP-8	PROPOSED CONDITIONS (SHEET 8 OF 9)	CA1-4	IMAX REMOVAL (SHEET 4 OF 7)	CA7-3	NORTHEAST TRESTLE (SHEET 3 OF 6)	CA12-4	SUBMARINE CABLE REMOVAL (SHEET 4 OF 4)
PP-9	PROPOSED CONDITIONS (SHEET 9 OF 9)	CA1-5	IMAX REMOVAL (SHEET 5 OF 7)	CA7-4	NORTHEAST TRESTLE (SHEET 4 OF 6)		
		CA1-6	IMAX REMOVAL (SHEET 6 OF 7)	CA7-5	NORTHEAST TRESTLE (SHEET 5 OF 6)		
		CA1-7	IMAX REMOVAL (SHEET 7 OF 7)	CA7-6	NORTHEAST TRESTLE (SHEET 6 OF 6)		

SCALE:

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

Christian Brown
I am approving
this document
2019.08.29
11:10:15-04'00'

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: **INDEX OF PERMIT PLATES (SHEET 1 OF 2)**

DATE: **8-28-19**

DRAWING NO.: **GEN-1**

WALK BRIDGE REPLACEMENT
INDEX OF PERMIT PLATES

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
CA13-1	SWING SPAN REMOVAL (SHEET 1 OF 7)	CA16-1	WETLAND MITIGATION (MIT-001)				
CA13-2	SWING SPAN REMOVAL (SHEET 2 OF 7)	CA16-2	WETLAND MITIGATION (MIT-002)				
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)				
		CA16-8	WETLAND MITIGATION (MIT-008)				
CA14-1	PIER REMOVAL (SHEET 1 OF 8)	CA16-9	WETLAND MITIGATION (MIT-009)				
CA14-2	PIER REMOVAL (SHEET 2 OF 8)	CA16-10	WETLAND MITIGATION (MIT-010)				
CA14-3	PIER REMOVAL (SHEET 3 OF 8)	CA16-11	WETLAND MITIGATION (MIT-011)				
CA14-4	PIER REMOVAL (SHEET 4 OF 8)	CA16-12	WETLAND MITIGATION (MIT-012)				
CA14-5	PIER REMOVAL (SHEET 5 OF 8)	CA16-13	WETLAND MITIGATION (MIT-013)				
CA14-6	PIER REMOVAL (SHEET 6 OF 8)	CA16-14	WETLAND MITIGATION (MIT-014)				
CA14-7	PIER REMOVAL (SHEET 7 OF 8)	CA16-15	WETLAND MITIGATION (MIT-015)				
CA14-8	PIER REMOVAL (SHEET 8 OF 8)	CA16-16	WETLAND MITIGATION (MIT-016)				
		CA16-17	WETLAND MITIGATION (MIT-017)				
CA15-1	FENDER INSTALLATION (SHEET 1 OF 6)	CA16-18	WETLAND MITIGATION (MIT-018)				
CA15-2	FENDER INSTALLATION (SHEET 2 OF 6)	CA16-19	WETLAND MITIGATION (MIT-019)				
CA15-3	FENDER INSTALLATION (SHEET 3 OF 6)	CA16-20	WETLAND MITIGATION (MIT-020)				
CA15-4	FENDER INSTALLATION (SHEET 4 OF 6)						
CA15-5	FENDER INSTALLATION (SHEET 5 OF 6)	CA17-1	DREDGING OPERATIONS (SHEET 1 OF 7)				
CA15-6	FENDER INSTALLATION (SHEET 6 OF 6)	CA17-2	DREDGING OPERATIONS (SHEET 2 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)				
		CA18-4	LIFT SPAN INSTALLATION (SHEET 4 OF 6)				
		CA18-5	LIFT SPAN INSTALLATION (SHEET 5 OF 6)				
		CA18-6	LIFT SPAN INSTALLATION (SHEET 6 OF 6)				

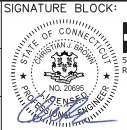
SCALE:

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:



HNTB HNTB Corporation
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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: **INDEX OF PERMIT PLATES (SHEET 2 OF 2)**

DATE: **8-28-19**

DRAWING NO.: **GEN-1A**

GENERAL NOTES:

1. A SOFT START WILL BE USED AT THE BEGINNING OF EACH SHIFT THAT REQUIRES PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES), SHAFT DRILLING, AND MICROPILE DRILLING ACTIVITIES WHEN CONDUCTED BETWEEN MARCH 16TH AND OCTOBER 31ST.
2. ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES) ACTIVITY WILL BE ENCLOSED WITHIN TURBIDITY CURTAINS.
3. ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES), SHAFT DRILLING, AND MICROPILE DRILLING ACTIVITIES CONDUCTED BETWEEN APRIL 1 AND JUNE 30 WILL ONLY OCCUR BETWEEN ONE HOUR AFTER SUNRISE TO ONE HOUR BEFORE SUNSET.
4. ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES), SHAFT DRILLING, AND MICROPILE DRILLING ACTIVITIES WILL BE CONDUCTED TO ONLY OCCUPY ONE HALF OF THE RIVER AT A TIME (OR ONLY OCCUPY 50 PERCENT OF THE RIVER WHEN WORKING IN THE MIDDLE).
5. UNCONFINED DREDGING WILL BE CONDUCTED WITHIN TURBIDITY CURTAINS BETWEEN DECEMBER 1 AND JANUARY 31. IF NECESSARY TO DREDGE BETWEEN FEBRUARY 1 AND NOVEMBER 30, DREDGING WILL OCCUR WITHIN A MARINE ENCLOSURE SURROUNDED BY A TURBIDITY CURTAIN.
6. ALL BARGE MOVEMENTS WILL TAKE PLACE DURING SLACK WATER CONDITIONS COINCIDENT WITH HIGH TIDE TO MINIMIZE RIVER BOTTOM DISTURBANCES.
7. HORIZONTAL DATUM IS CT STATE PLANE COORDINATE SYSTEM BASED ON NAD83.
8. VERTICAL DATUM IS NAVD88.
9. AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS EL. -13.98 (NAVD88), 10 FEET BELOW MEAN LOWER LOW WATER.
10. EXISTING BRIDGE FOUNDATION ELEMENTS WITHIN THE NAVIGATION CHANNEL ARE TO BE REMOVED TO A DEPTH AT LEAST 1 FOOT BELOW THE AUTHORIZED DREDGE ELEVATION TO ALLOW FOR ACCIDENTAL OVER-DREDGING.
11. THE FLOOD ZONE MAP ON DRAWING NO. GEN-6 IS BASED ON FLOOD INSURANCE RATE MAP PANEL 0531 (REVISED JULY 8, 2013).
12. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
13. TURBIDITY CURTAINS SHALL BE TYPE III AND COMPLY WITH ITEM #0210306A - TURBIDITY CONTROL CURTAINS.

LEGEND:

– – ^ – – ^ – – – VEGETATED TIDAL WETLAND

—•—•—•—•—•— EROSION AND SEDIMENTATION CONTROL

LIMITS OF RIPRAP

DETAILED CONSTRUCTION ACTIVITIES:

THESE DRAWINGS INCLUDE SUBSETS THAT DESCRIBE THE SEQUENCE REQUIRED TO PERFORM VARIOUS ACTIVITIES THAT IMPACT REGULATED AREAS WITHIN THE PROJECT LIMITS. THE ORDER IN WHICH THEY ARE PRESENTED IS INTENDED TO CONVEY LOGICAL DEPENDENCIES BETWEEN ACTIVITIES. HOWEVER, IT DOES NOT NECESSSARILY INDICATE THE SEQUENCE OF CONSTRUCTION, AS MANY OF THESE ACTIVITIES WILL OVERLAP THROUGHOUT THE COURSE OF THE PROJECT. SITE CONDITIONS AND BRIDGE PROGRESS ON EACH DRAWING ARE DEPICTED AS THEY WILL LIKELY EXIST AT THE TIME, BUT THEY ARE SUBJECT TO DIFFER BASED ON ACTUAL TIMING OF NOTICE TO PROCEED AND THE OVERALL CONSTRUCTION SCHEDULE, PARTCULARLY FOR ACTIVITIES DIRECTLY TIED TO THE DREDING WINDOW (SEE GENERAL NOTE 5).

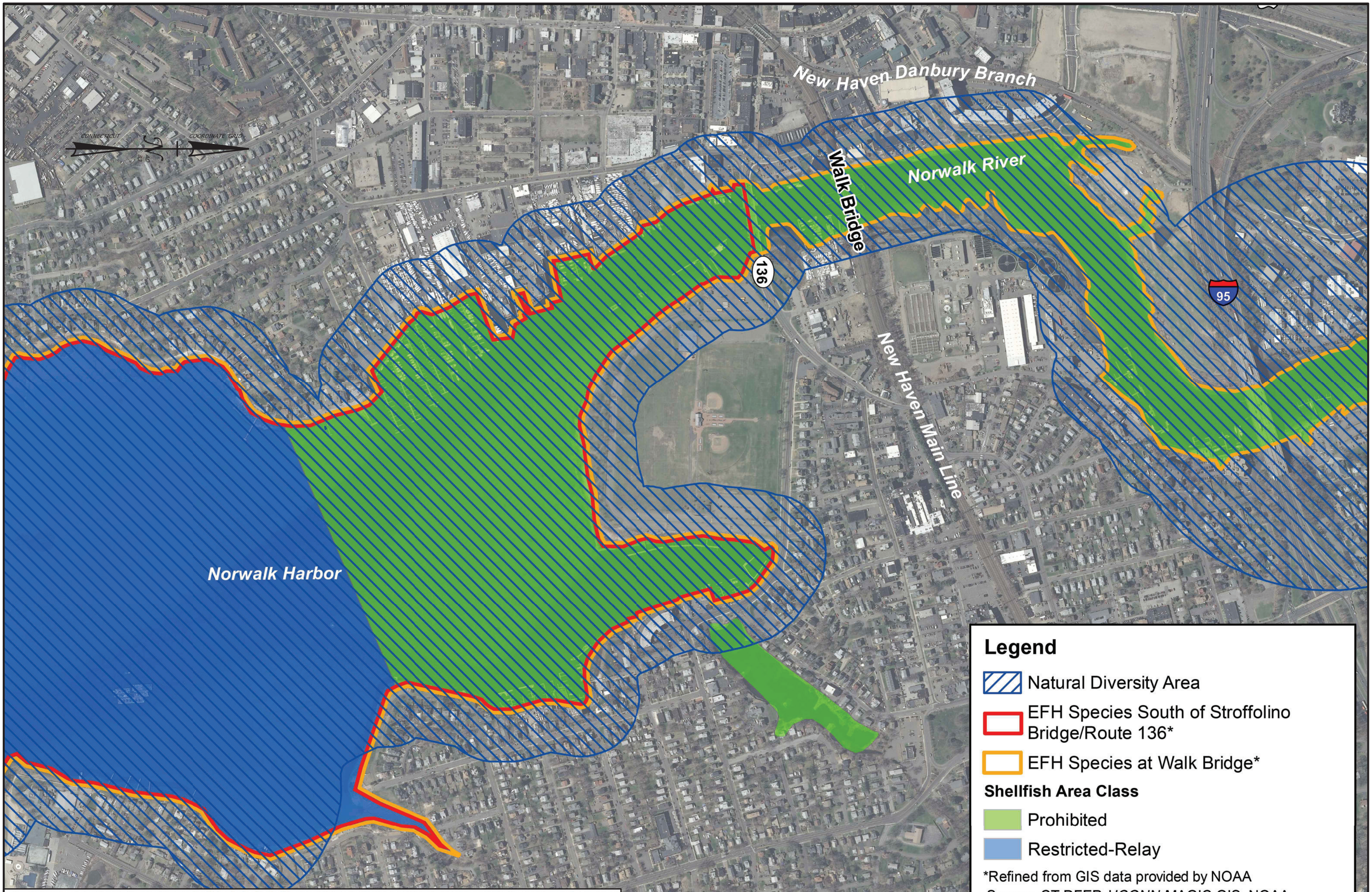
NO.	NAME	DESCRIPTION
1	IMAX REMOVAL	REMOVAL OF THE EXISTING IMAX THEATER, SITE IMPROVEMENTS FOR CONSTRUCTION, AND RESTORATION UPON PROJECT COMPLETION
2	DUCTBANK INSTALLATION	CUT AND COVER TRENCHING OPERATION TO BURY CONDUITS FOR FUTURE PULLING OF CONDUCTORS FOR RAIL AND BRIDGE SYSTEMS
3	VESSEL RELOCATION	RECONFIGURATION OF THE VESSEL DOCKS ON THE WEST BANK OF THE RIVER BETWEEN WALK BRIDGE AND STROFFOLINO BRIDGE DURING CONSTRUCTION AND POST-CONSTRUCTION
4	MARINE STAGING YARD	PERMANENT IMPROVEMENTS TO PROPERTIES ON THE WEST BANK OF THE RIVER SOUTH OF STROFFOLINO BRIDGE INTENDED FOR LIFT SPAN ERECTION AND OTHER STAGING ACTIVITIES THROUGHOUT CONSTRUCTION OF WALK BRIDGE
5	NORTHWEST TRESTLE	INSTALLATION AND REMOVAL OF WORK PLATFORMS IN EACH QUADRANT TO BE USED FOR PRIMARY ACCESS TO THE BRIDGE THROUGHOUT CONSTRUCTION
6	SOUTHWEST TRESTLE	
7	NORTHEAST TRESTLE	
8	SOUTHEAST TRESTLE	
9	PIER 2 CONSTRUCTION	MEANS AND METHODS FOR CONSTRUCTION OF THE LIFT SPAN TOWER FOUNDATIONS
10	PIER 3 CONSTRUCTION	
11	BARGE MOORING	MOORING LOCATION IN NORWALK RIVER AND LONG ISLAND SOUND USED FOR CONSTRUCTION BARGES
12	SUBMARINE CABLE REMOVAL	REMOVAL OF THREE EXISTING SUBMARINE CABLES THAT WILL NO LONGER BE USED UPON COMPLETION OF WALK BRIDGE
13	SWING SPAN REMOVAL	SLIDE RAIL SYSTEM INSTALLATION, REMOVAL AND DISASSEMBLY OF THE EXISTING SWING SPAN
14	PIER REMOVAL	REMOVAL OF EXISTING PIERS IN THE RIVER AFTER REMOVAL OF THE SWING SPAN
15	FENDER INSTALLATION	INSTALLATION OF THE PROPOSED FENDER SYSTEM AFTER REMOVAL OF THE EXISTING FENDERS AND REST PIERS
16	WETLAND MITIGATION	TREATMENT AND REMOVAL OF INVASIVE SPECIES, SHORELINE AND SALT MARSH RESTORATION, AND ACCESS REQUIREMENTS
17	DREDGING OPERATIONS	DREDGING PLANS AT THE BRIDGE, VESSEL DOCKS, AND MARINE STAGING YARD.
18	LIFT SPAN INSTALLATION	SLIDE-IN AND FLOAT-IN OPERATIONS FOR INSTALLATION OF THE PROPOSED LIFT SPANS.

SCALE:	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: GENERAL NOTES AND LEGEND	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-2

PROJECT LOCATION

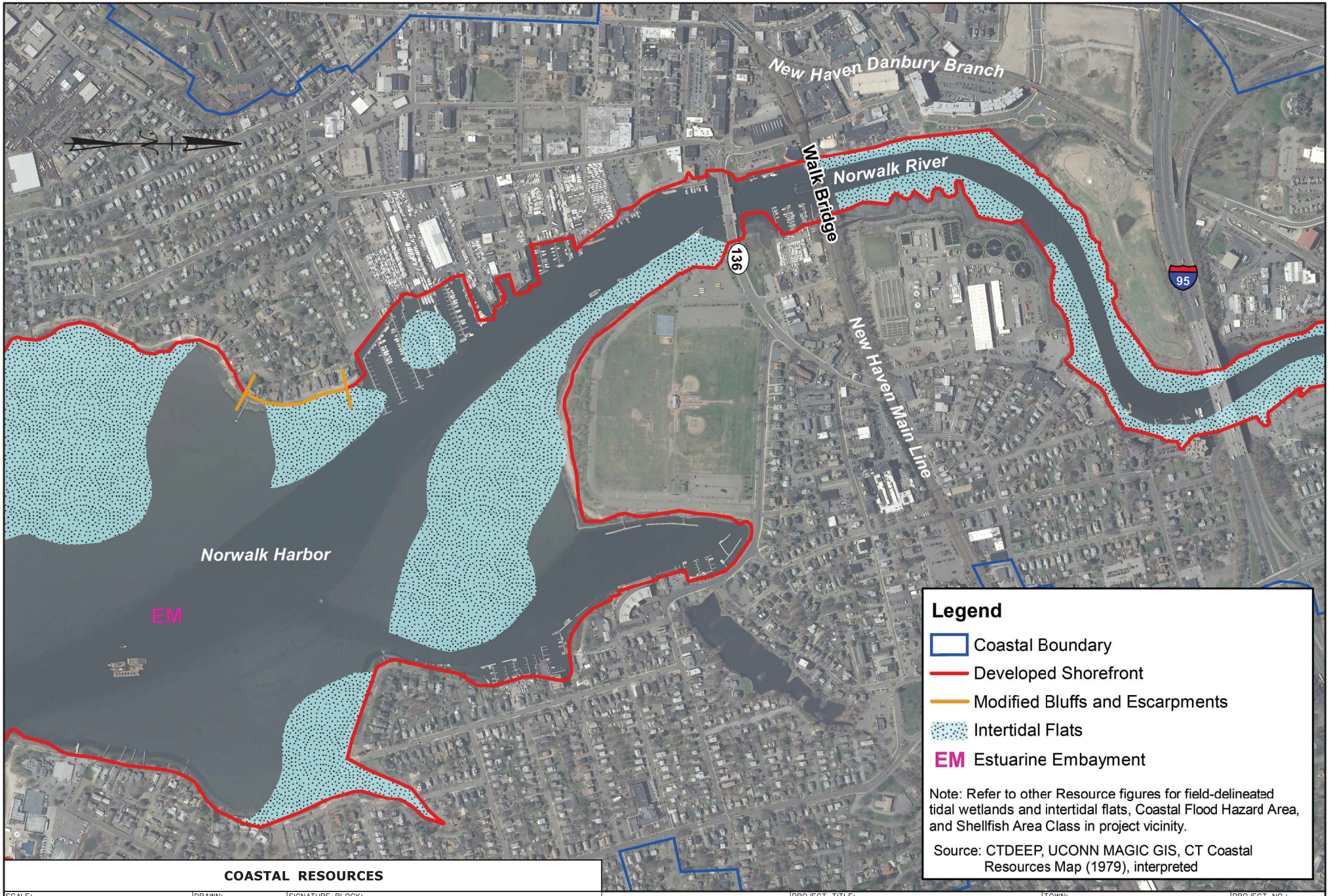
NORWALK SOUTH QUADRANGLE
CONNECTICUT-NEW YORK
7.5-MINUTE SERIES

SCALE:	DRAWN: H. UPSHAW	SIGNATURE BLOCK:		PROJECT TITLE:	TOWN: NORWALK	PROJECT NO.: 0301-0176
SCALE 1" = 2000' (0, 1000, 2000)	CHECKED: T. ADINOLFI	HNTB HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	DRAWING TITLE: LOCATION PLAN	DATE: 8-28-19
	APPROVED: C. BROWN	State of Connecticut, Christian J. Brown, No. 20695, Licensed Professional Engineer				DRAWING NO.: GEN-3



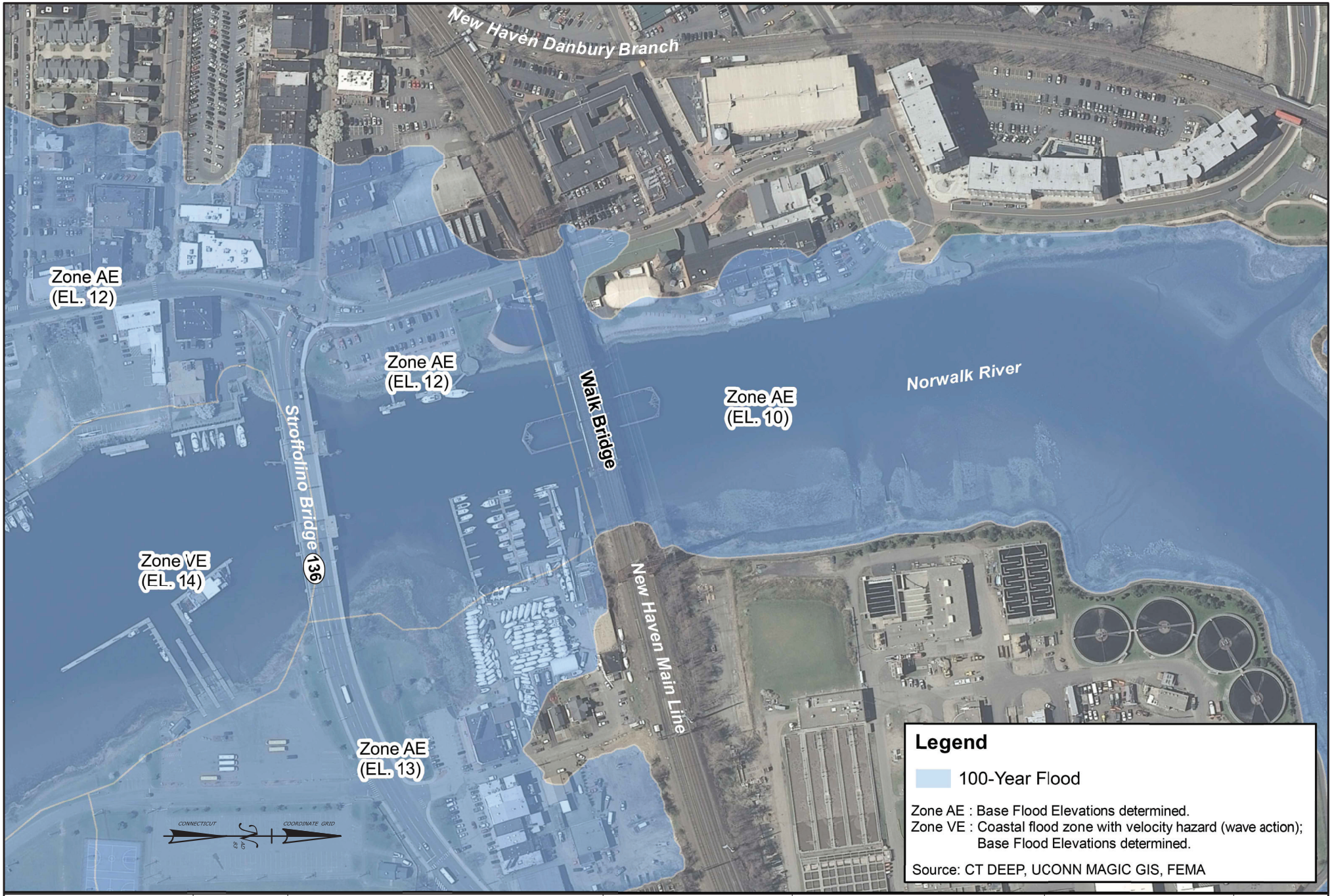
AQUATIC RESOURCES, SPECIES, AND CRITICAL HABITAT

SCALE: SCALE 1" = 800' (0 400 800)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: RESOURCE MAP (SHEET 1 OF 2)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-4

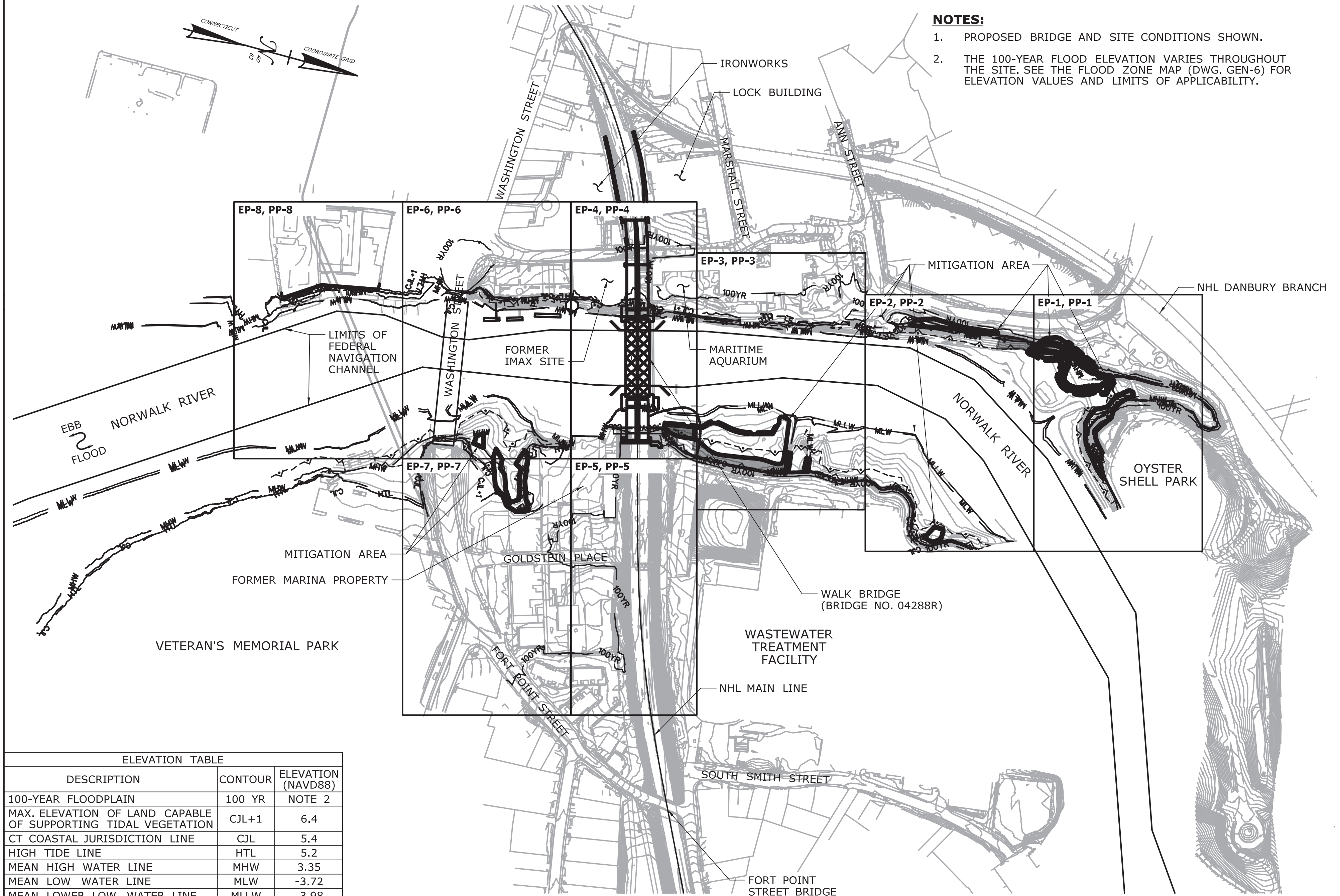


COASTAL RESOURCES

SCALE: SCALE 1" = 800' (0 400 800)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: RESOURCE MAP (SHEET 2 OF 2)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-5



SCALE: SCALE 1" = 250' (0 125 250)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: FLOOD ZONE MAP	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-6



NOTES:

1. PROPOSED BRIDGE AND SITE CONDITIONS SHOWN.
2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE THE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	NOTE 2
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

SCALE: SCALE 1" = 400'
0 200 400

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

SIGNATURE BLOCK:
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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
DRAWING TITLE: SITE PLAN/KEY MAP
PROJECT NO.: 0301-0176
DATE: 8-28-19
DRAWING NO.: GEN-7

LOCATION OF
MARINE STAGING YARD
(DRAWING NO. GEN-10)

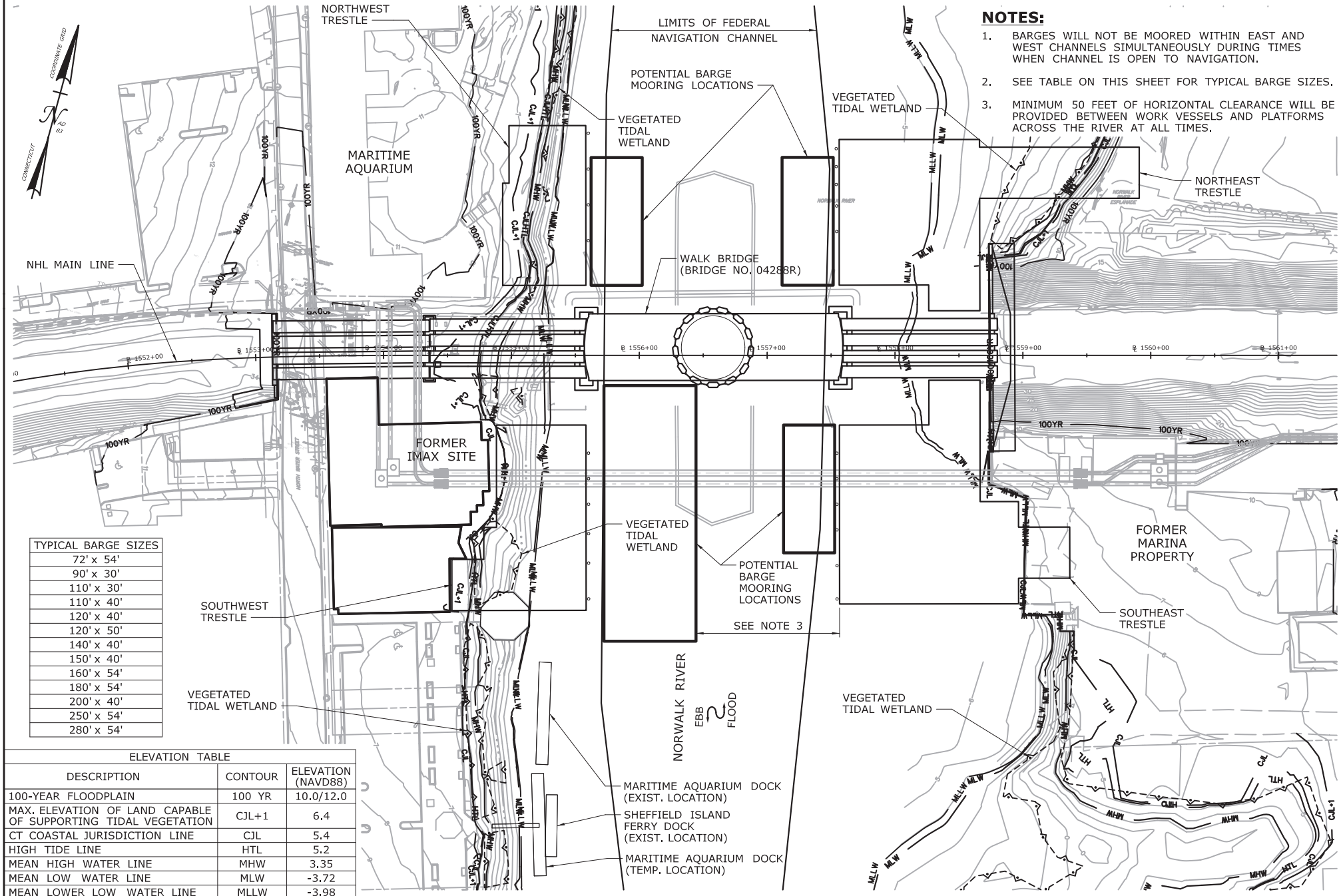
POTENTIAL MOORING LOCATIONS
IN THE HARBOR WERE COORDINATED
WITH THE NORWALK SHELLFISH
COMMISSION (SEE ACTIVITY 11)

LOCATION OF
WALK BRIDGE
(DRAWING NO. GEN-9)

UPPER RIVER LOCATIONS

NORWALK SOUTH QUADRANGLE
CONNECTICUT-NEW YORK
7.5-MINUTE SERIES

SCALE:	DRAWN:	SIGNATURE BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO.:
SCALE 1" = 3000' 0 1500 3000	H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	NORWALK DRAWING TITLE: VESSEL BERTHING PLAN OVERALL (SHEET 1 OF 3)	0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-8



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.

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	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE:
SCALE 1" = 100'
0 50 100

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION NO. 20695 LICENSED PROFESSIONAL ENGINEER

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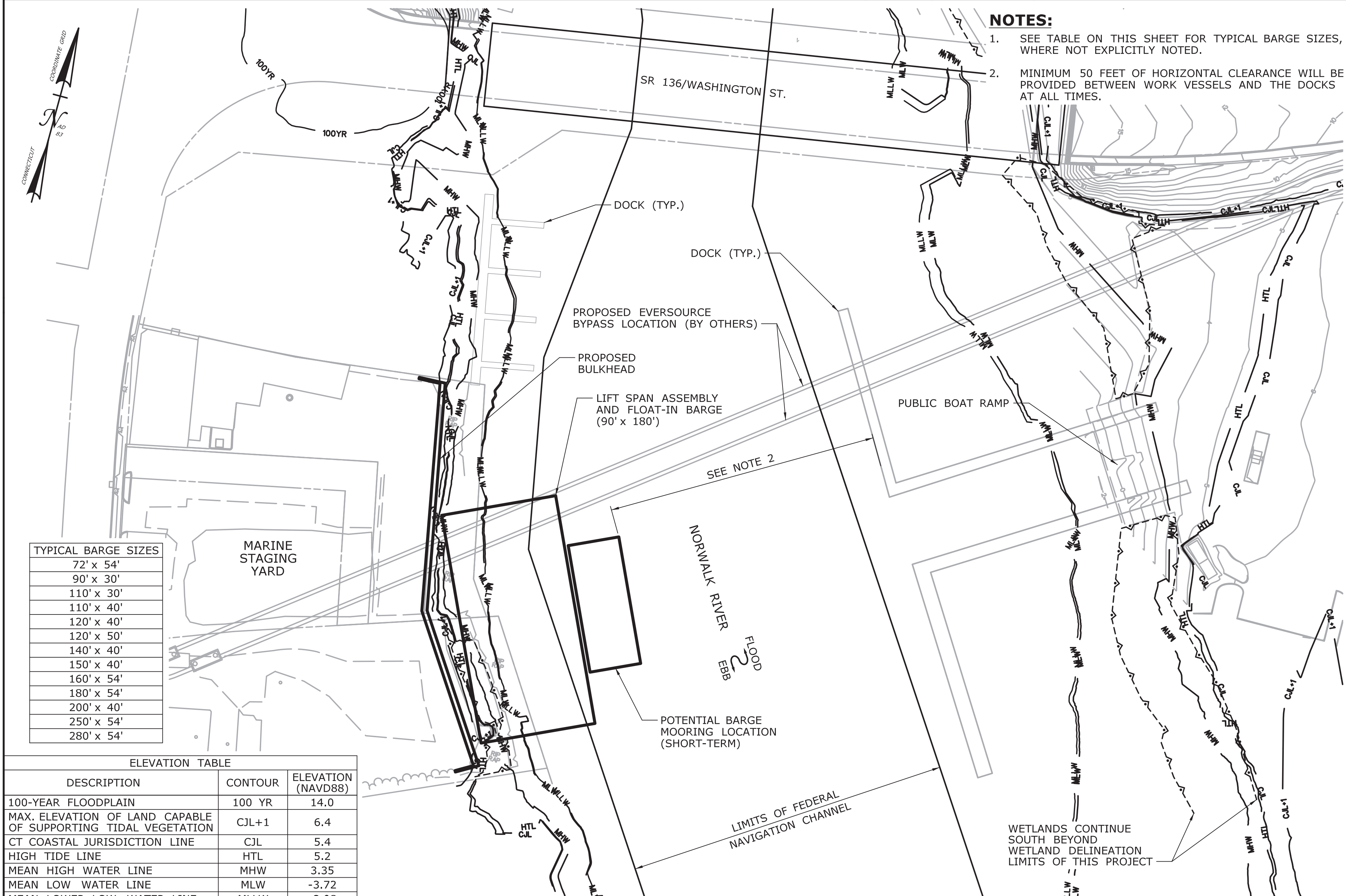
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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 WALK BRIDGE (SHEET 2 OF 3)**
DATE: **8-28-19**
DRAWING NO.: **GEN-9**



NOTES:

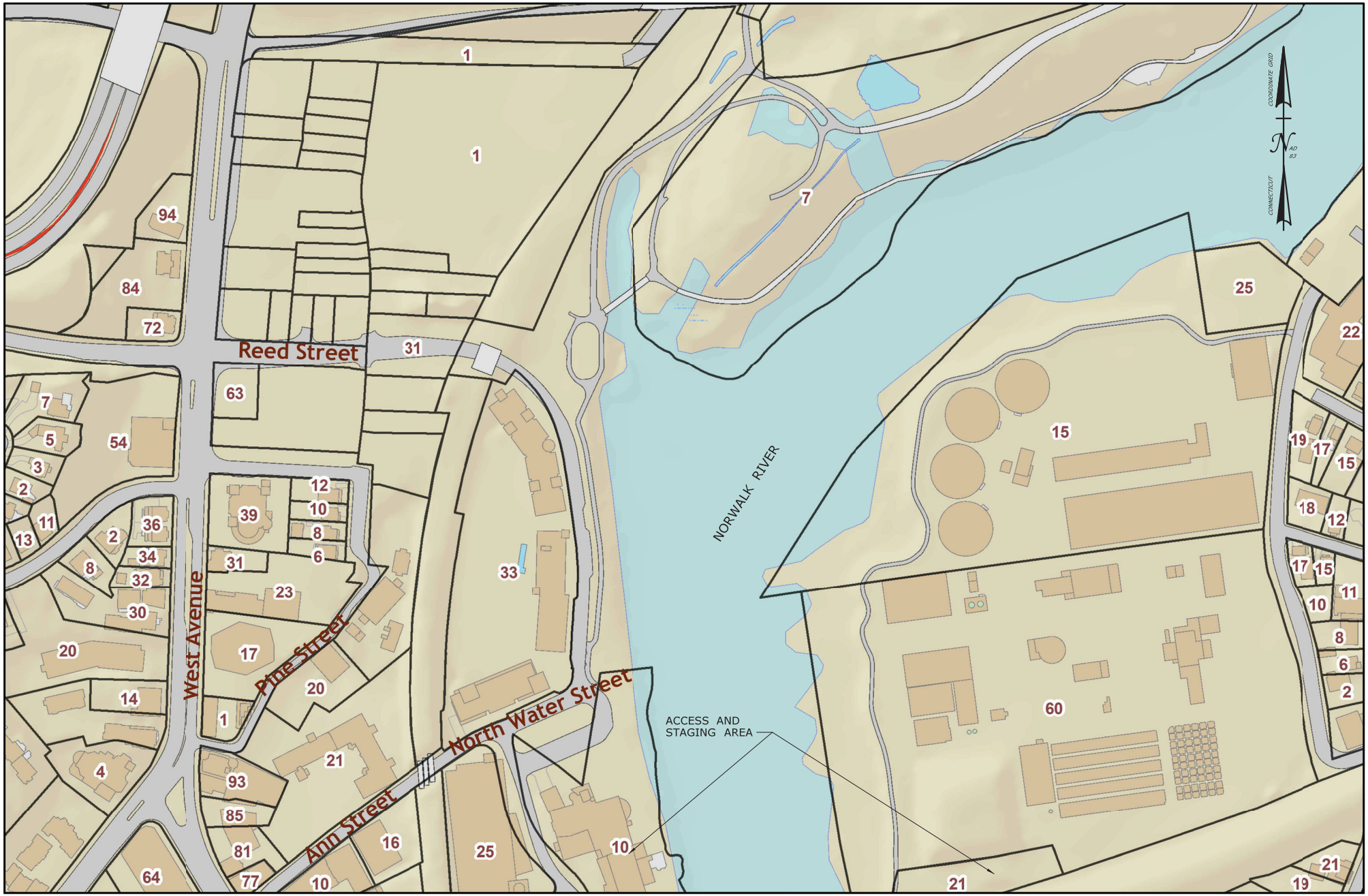
1. SEE TABLE ON THIS SHEET FOR TYPICAL BARGE SIZES, WHERE NOT EXPLICITLY NOTED.
2. MINIMUM 50 FEET OF HORIZONTAL CLEARANCE WILL BE PROVIDED BETWEEN WORK VESSELS AND THE DOCKS AT ALL TIMES.

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'

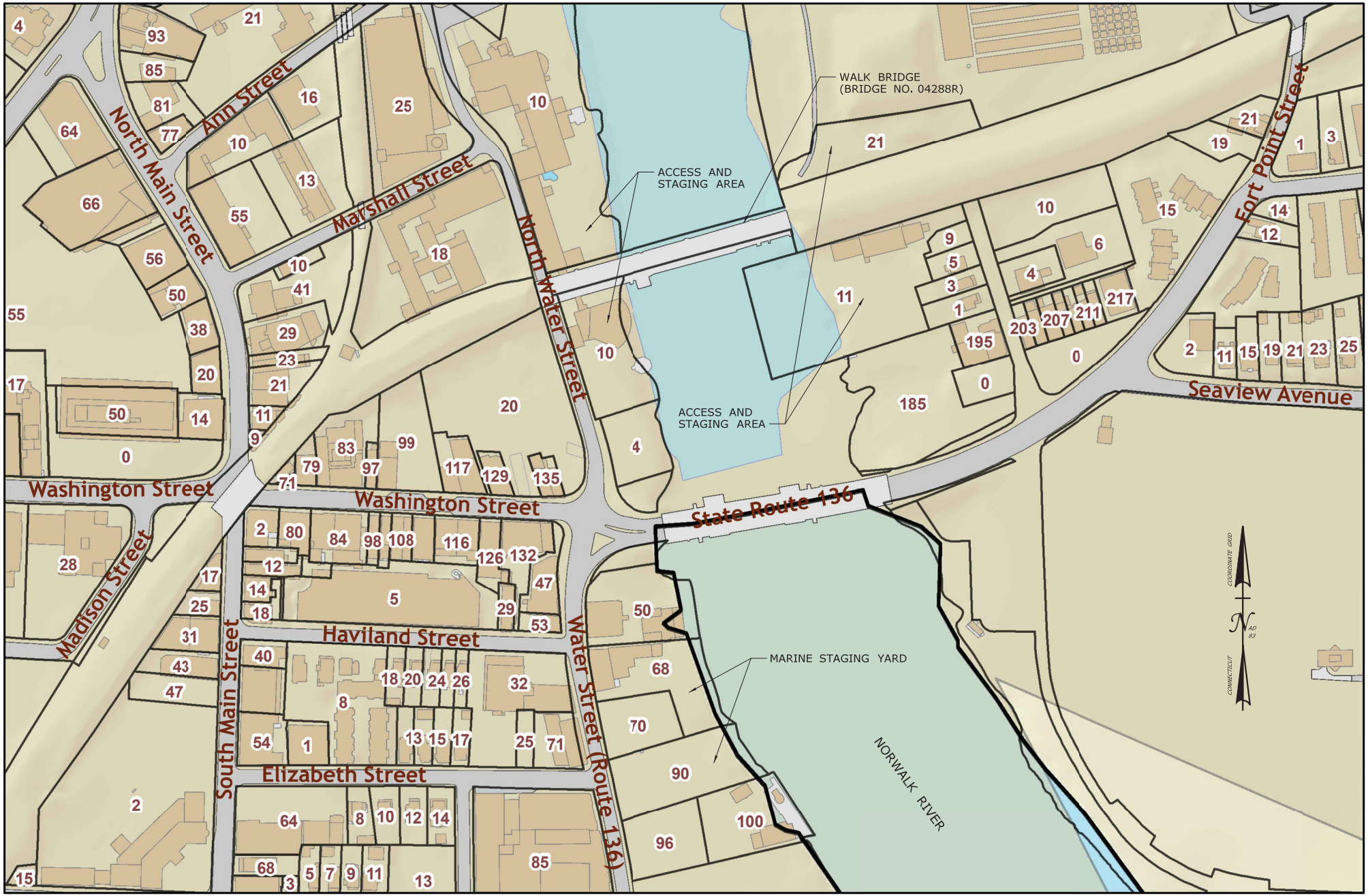
ELEVATION TABLE

DESCRIPTION	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

SCALE: SCALE 1" = 100' (0 50 100)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: VESSEL BERTHING PLAN MARINE STAGING YARD (SHEET 3 OF 3)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-10

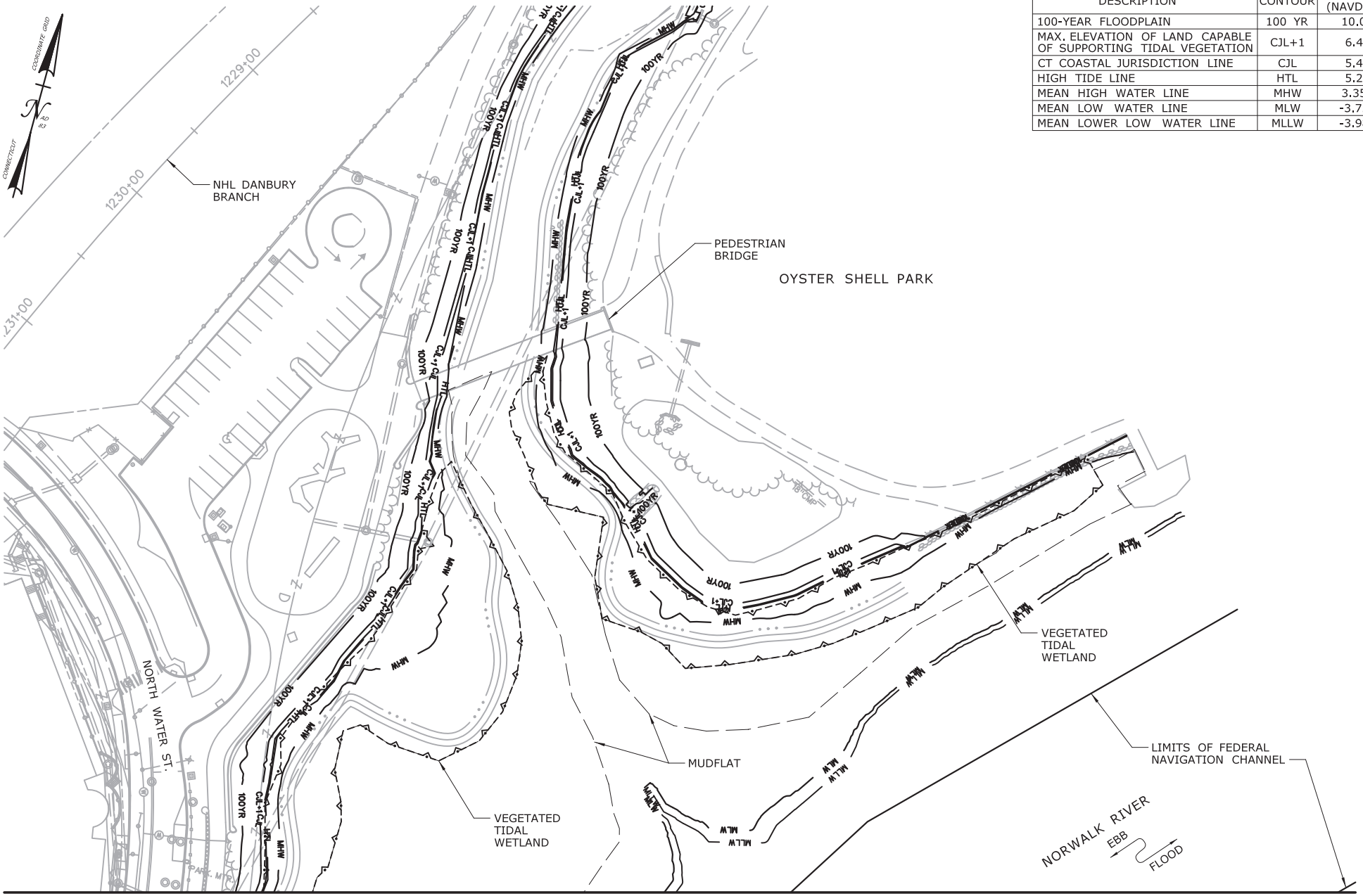


SCALE: NOT TO SCALE	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PARCEL MAP (SHEET 1 OF 2)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-11

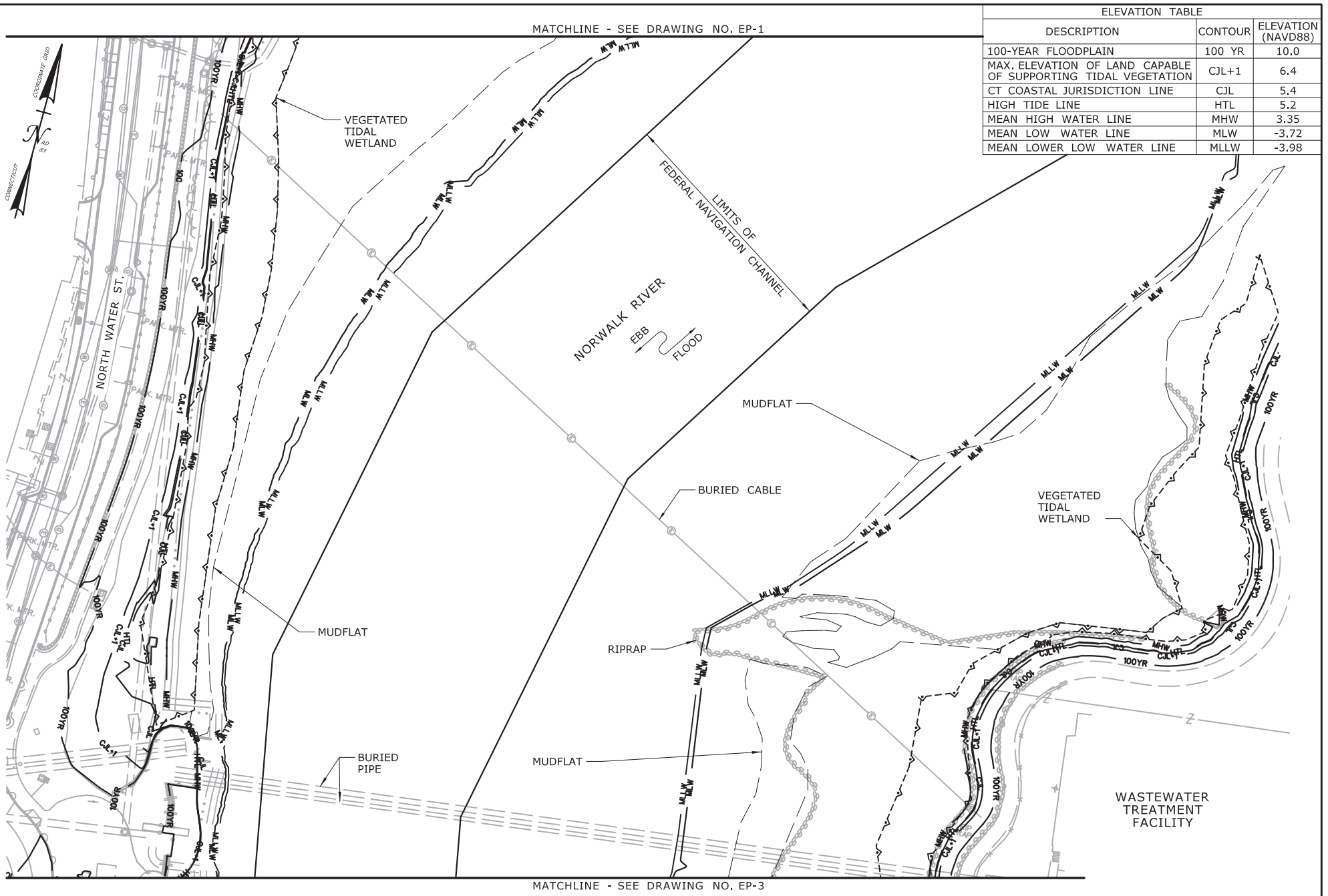


SCALE: NOT TO SCALE	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PARCEL MAP (SHEET 2 OF 2)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: GEN-12

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



SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN EXISTING CONDITIONS (SHEET 1 OF 9)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: EP-1



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

SCALE:
SCALE 1" = 80'
0 40 80

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · COLLEEN C. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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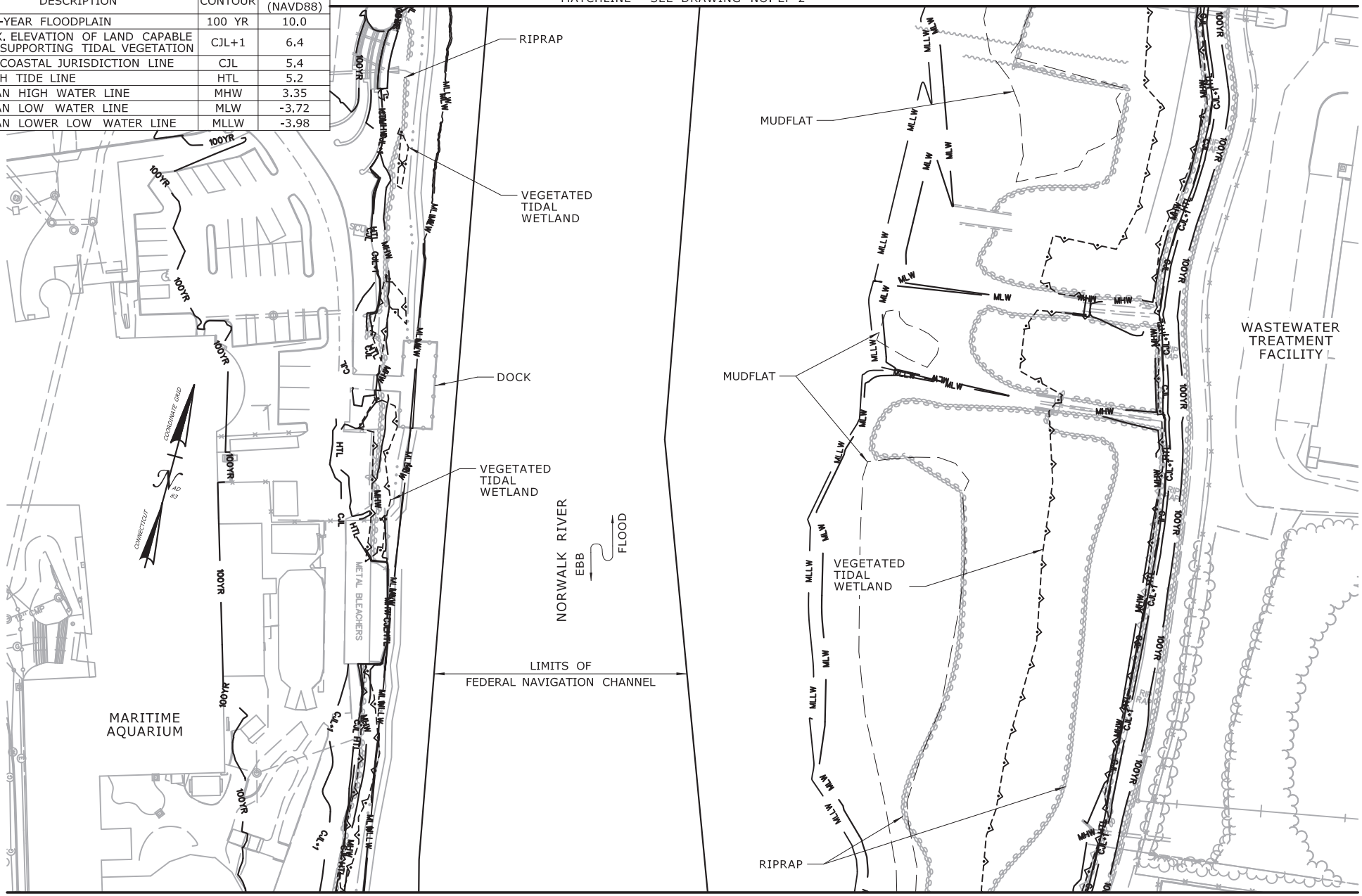
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 2 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **EP-2**

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



SCALE: SCALE 1" = 80' (0, 40, 80)

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

SIGNATURE BLOCK:
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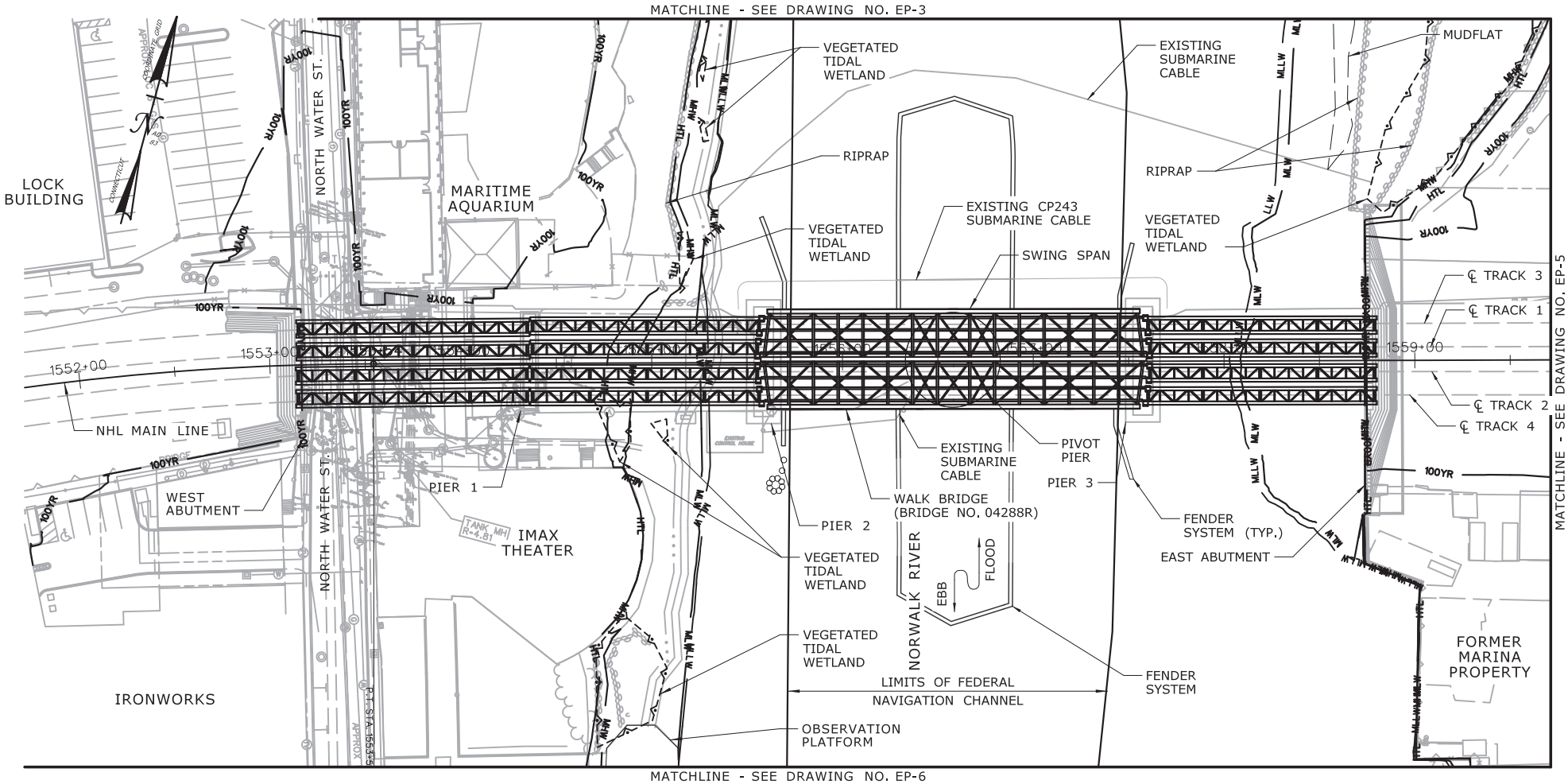
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 3 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **EP-3**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

NOTES:

1. 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. NO. GEN-6) FOR ADDITIONAL INFORMATION.

SCALE: SCALE 1" = 80' (0, 40, 80)

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

SIGNATURE BLOCK:

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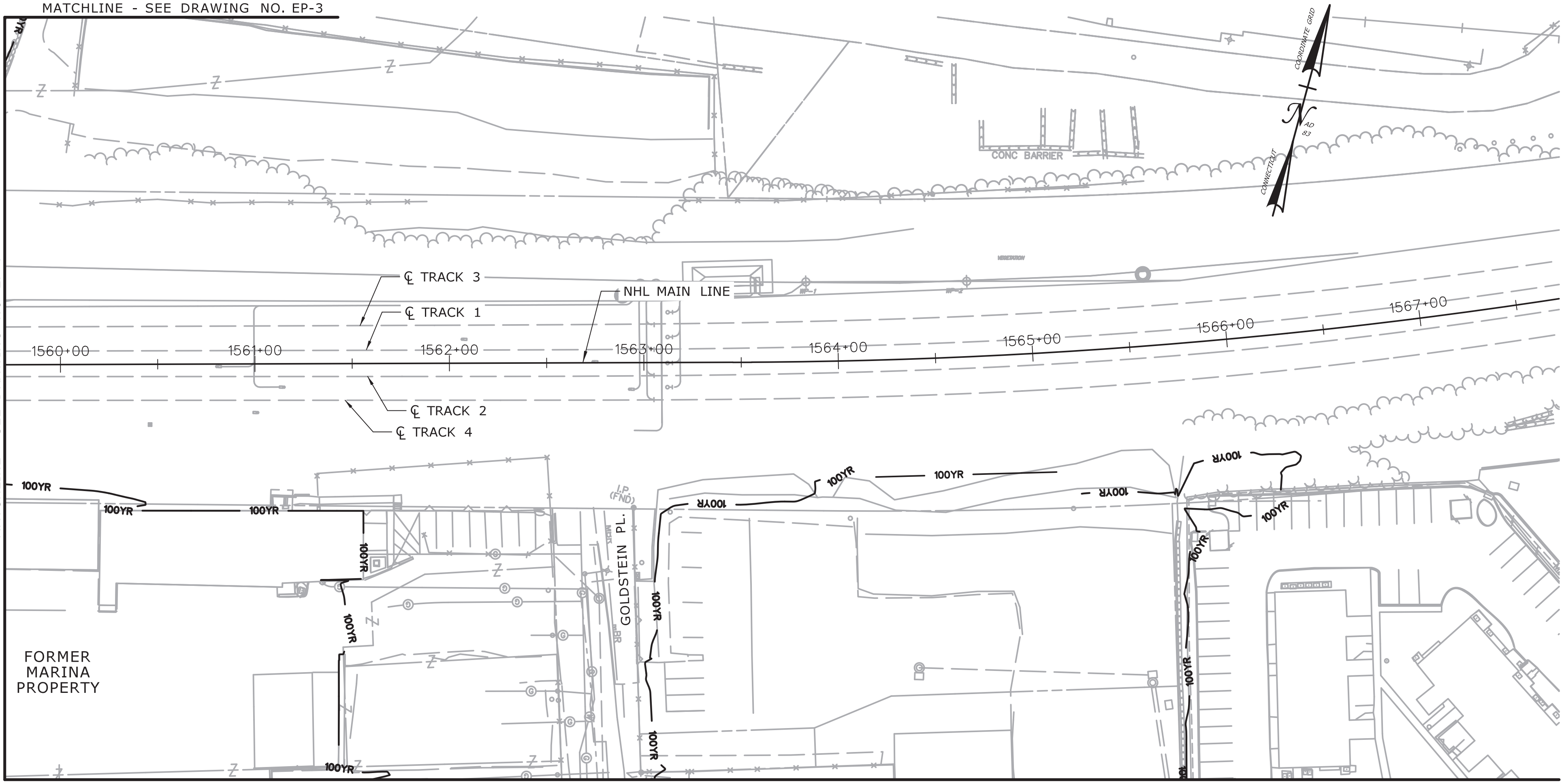
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 4 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **EP-4**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	13.0
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

SCALE: SCALE 1" = 80' (0 40 80)

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

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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**

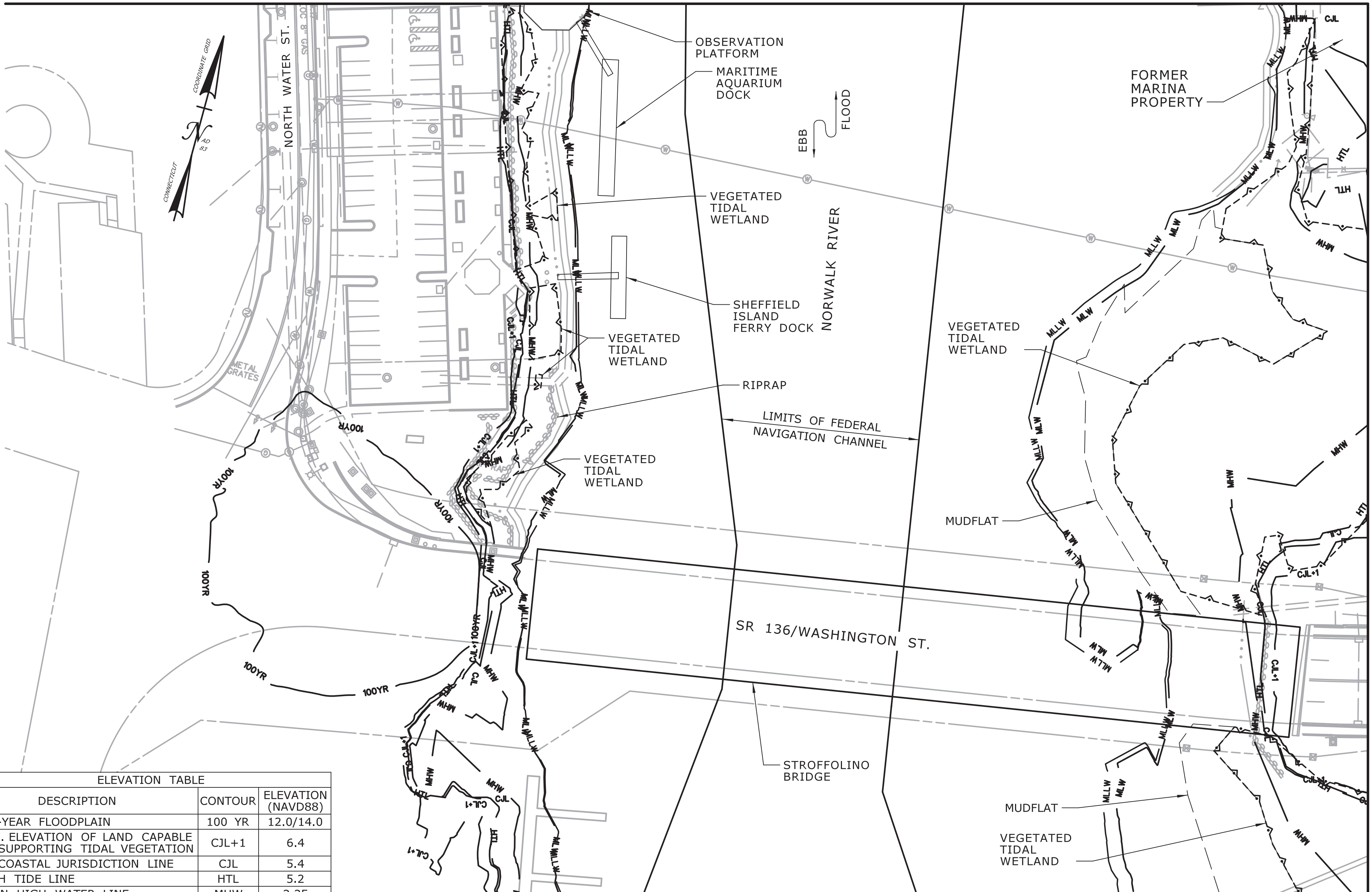
DRAWING TITLE:
PLAN EXISTING CONDITIONS (SHEET 5 OF 9)

PROJECT NO.: **0301-0176**

DATE: **8-28-19**

DRAWING NO.: **EP-5**

MATCHLINE - SEE DRAWING NO. EP-4



MATCHLINE - SEE DRAWING NO. EP-7

MATCHLINE - SEE DRAWING NO. EP-8

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0
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

SCALE: SCALE 1" = 80' (0 40 80)

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

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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

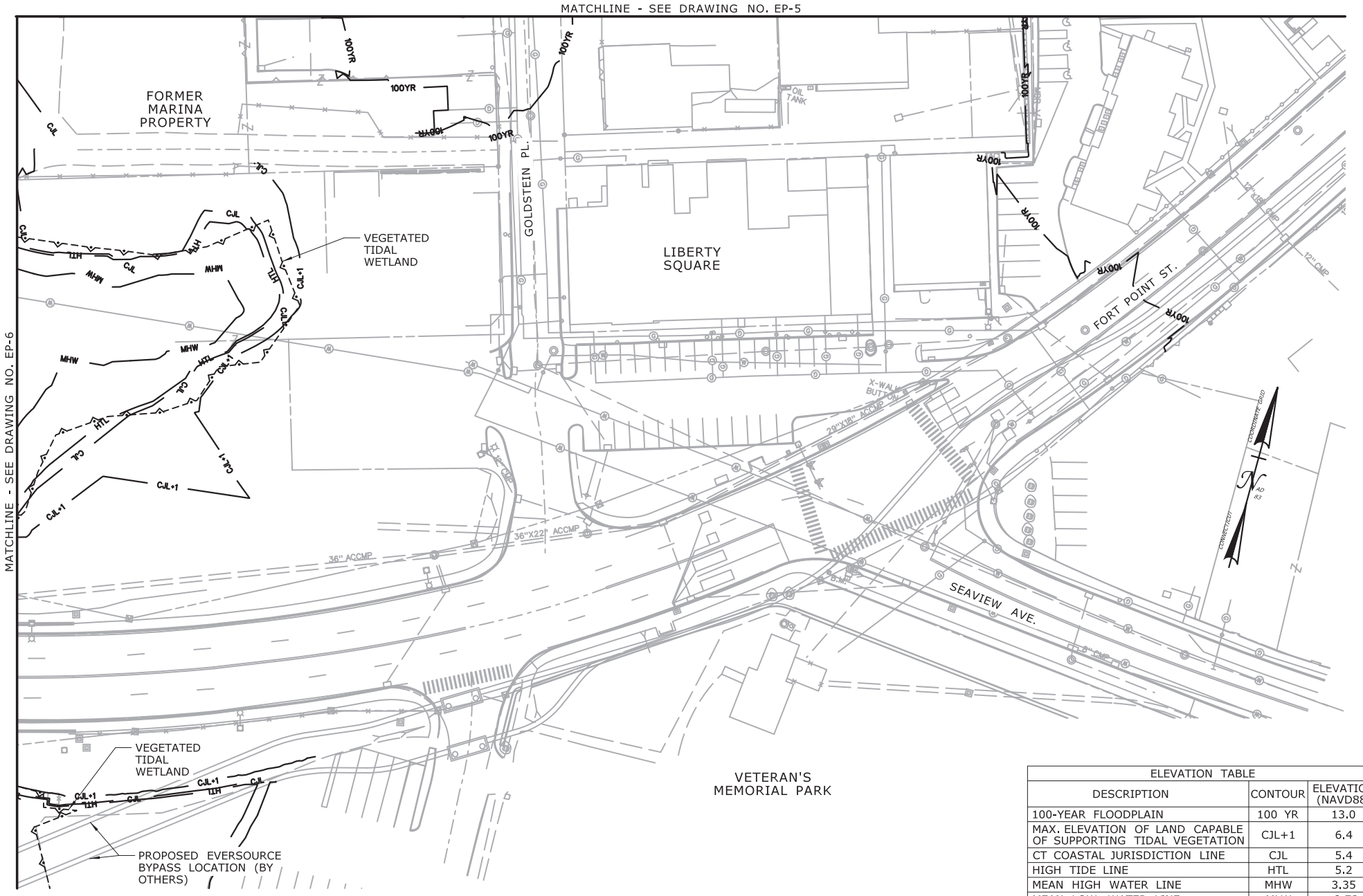
TOWN: **NORWALK**

DRAWING TITLE:
PLAN EXISTING CONDITIONS (SHEET 6 OF 9)

PROJECT NO.: **0301-0176**

DATE: **8-28-19**

DRAWING NO.: **EP-6**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	13.0
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

SCALE:
SCALE 1" = 80'
0 40 80

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — CHRISTOPHER J. BROWN — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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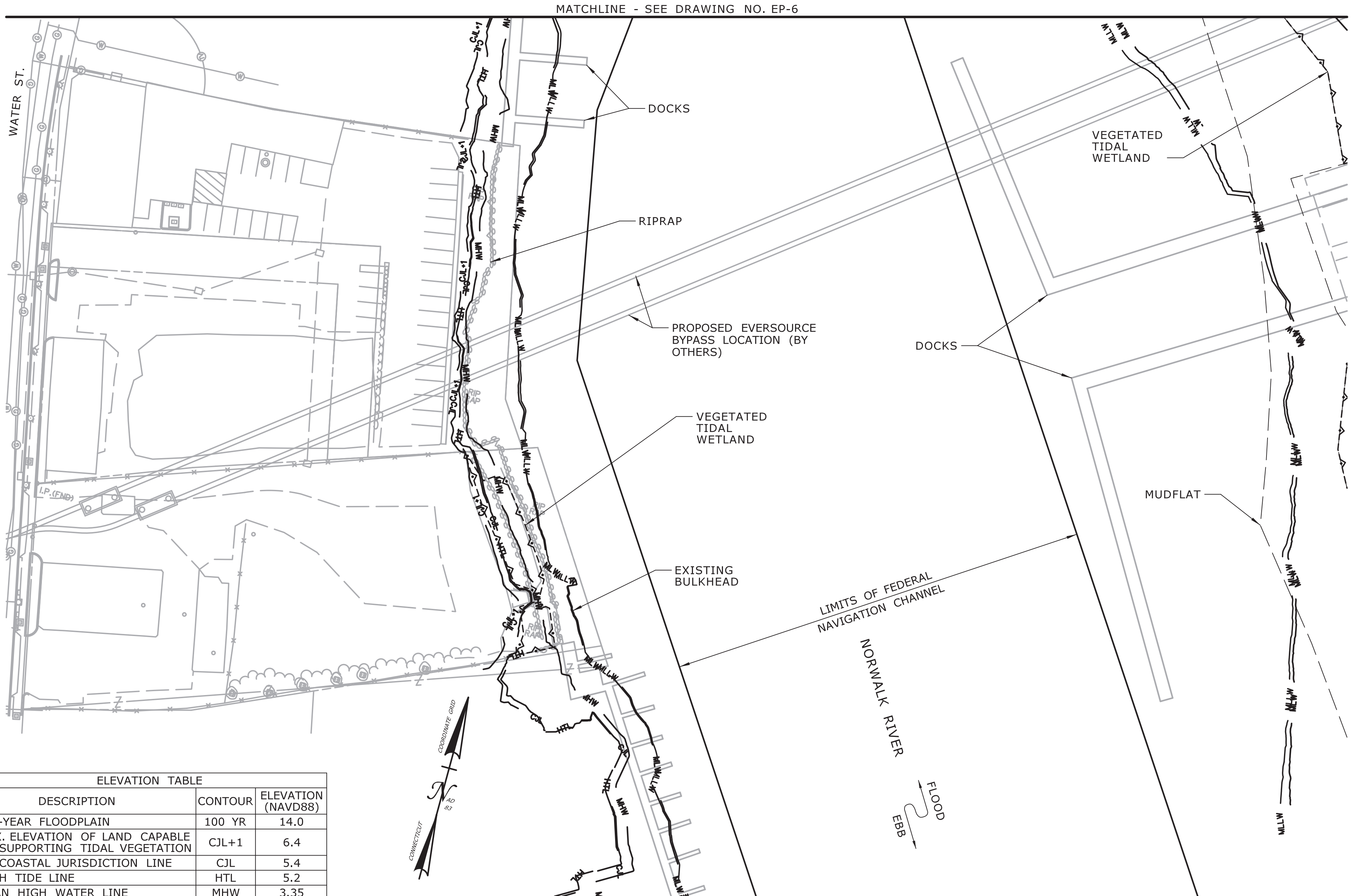
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 7 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **EP-7**



ELEVATION TABLE		
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

SCALE: SCALE 1" = 80' (0, 40, 80)

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

SIGNATURE BLOCK: HNTB — HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

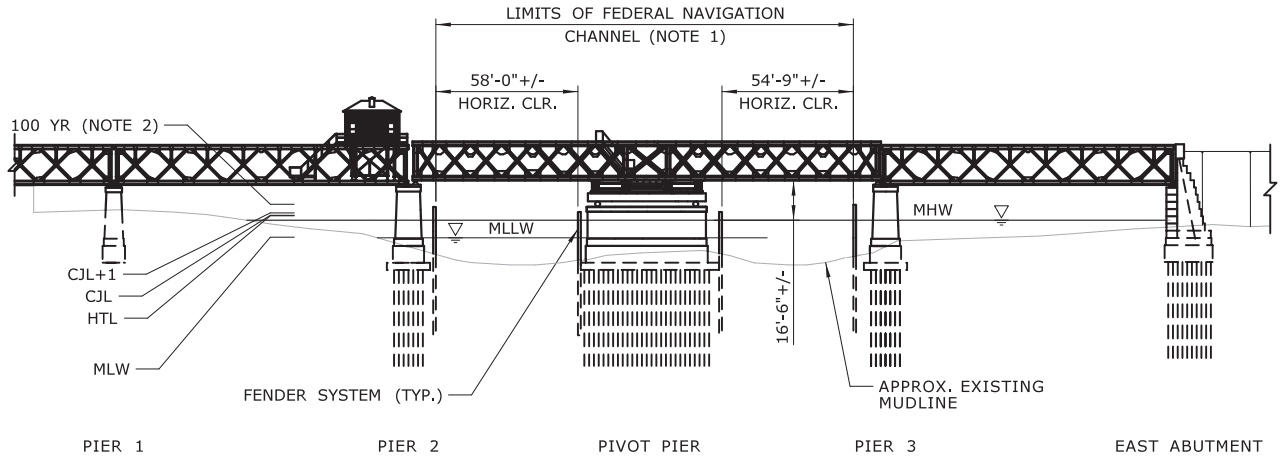
TOWN: NORWALK

DRAWING TITLE: PLAN EXISTING CONDITIONS (SHEET 8 OF 9)

PROJECT NO.: 0301-0176

DATE: 8-28-19

DRAWING NO.: EP-8



ELEVATION

(VIEW LOOKING NORTH)

NOTES:

1. LIMITS OF FEDERAL NAVIGATION CHANNEL PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS FEDERAL NAVIGATION PROJECT FOR NORWALK HARBOR, U.S. ARMY CORPS OF ENGINEERS, AFTER DREDGE SURVEY, SUPPLEMENTAL PROJECT DRAWING 4/11/2014.
2. 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. NO. 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	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

SCALE: SCALE 1" = 80' (0 40 80)

DRAWN: H. UPSHAW

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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: **BRIDGE ELEVATION EXISTING CONDITIONS (SHEET 9 OF 9)**

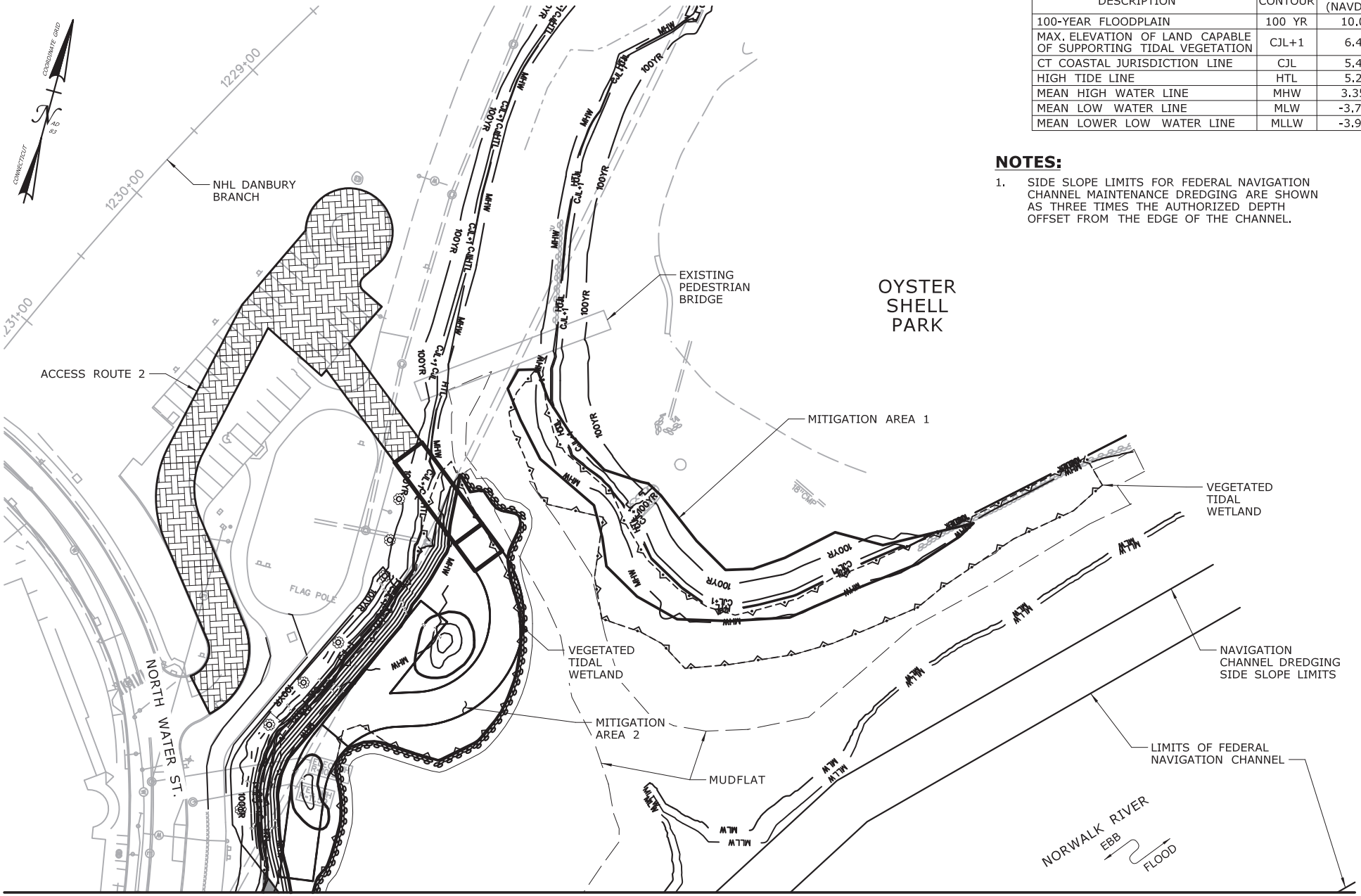
DATE: **8-28-19**

DRAWING NO.: **EP-9**

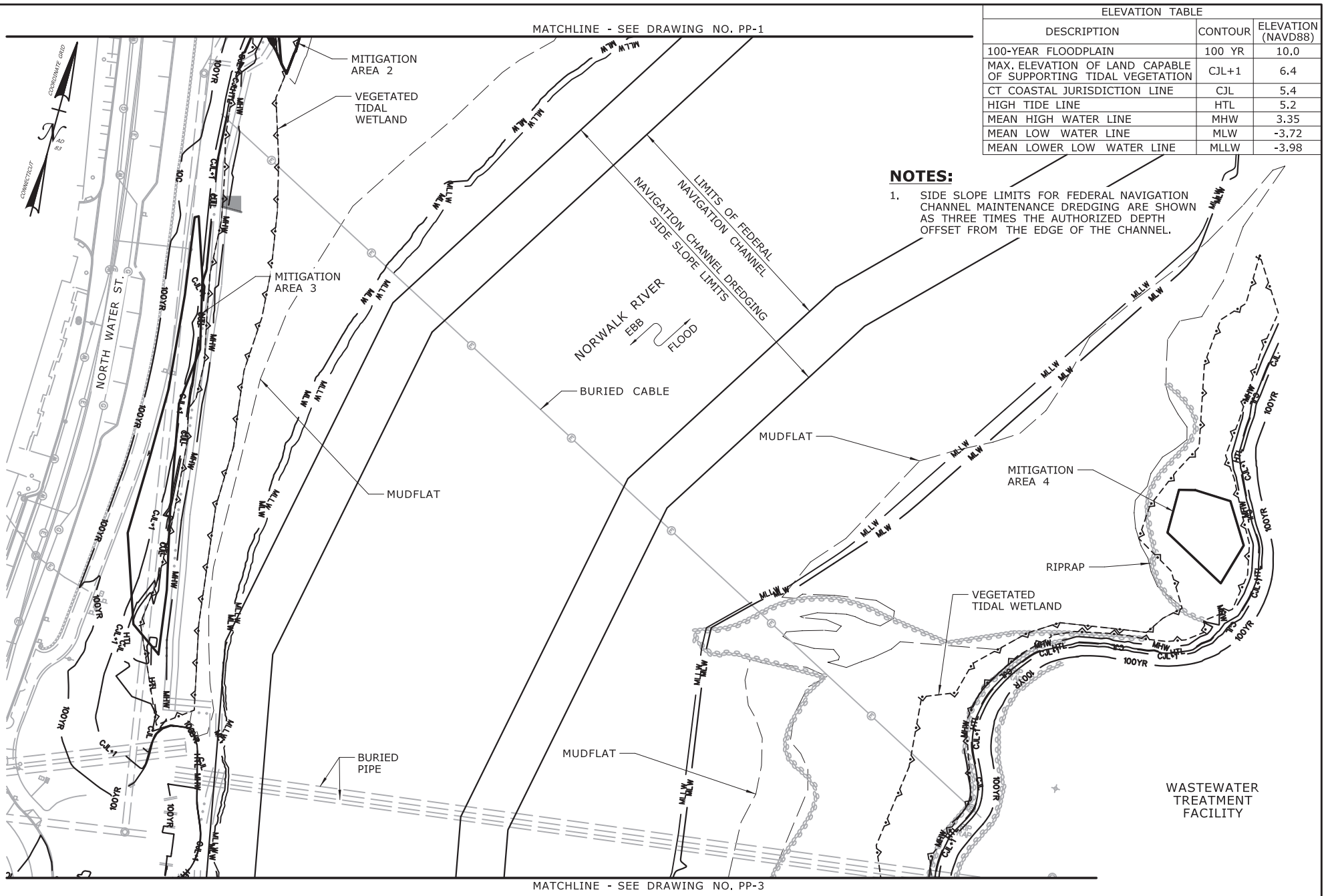
ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER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

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.



SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: STATE OF CONNECTICUT, COLLEEN C. BROWN, NO. 20695, LICENSED PROFESSIONAL ENGINEER	HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 1 OF 9)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: PP-1



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

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

SCALE: SCALE 1" = 80' (0, 40, 80)

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

SIGNATURE BLOCK:

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

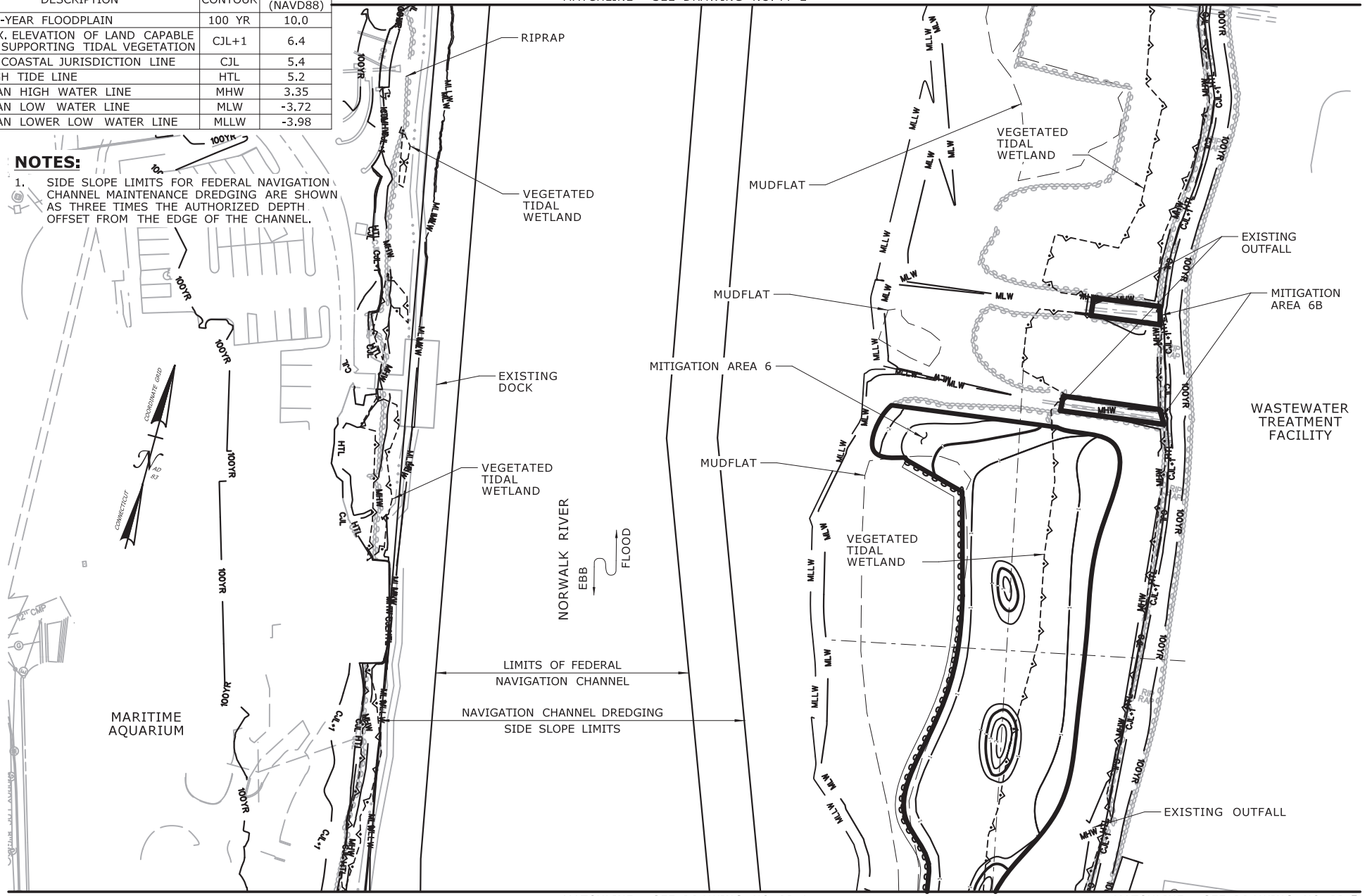
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 2 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **PP-2**

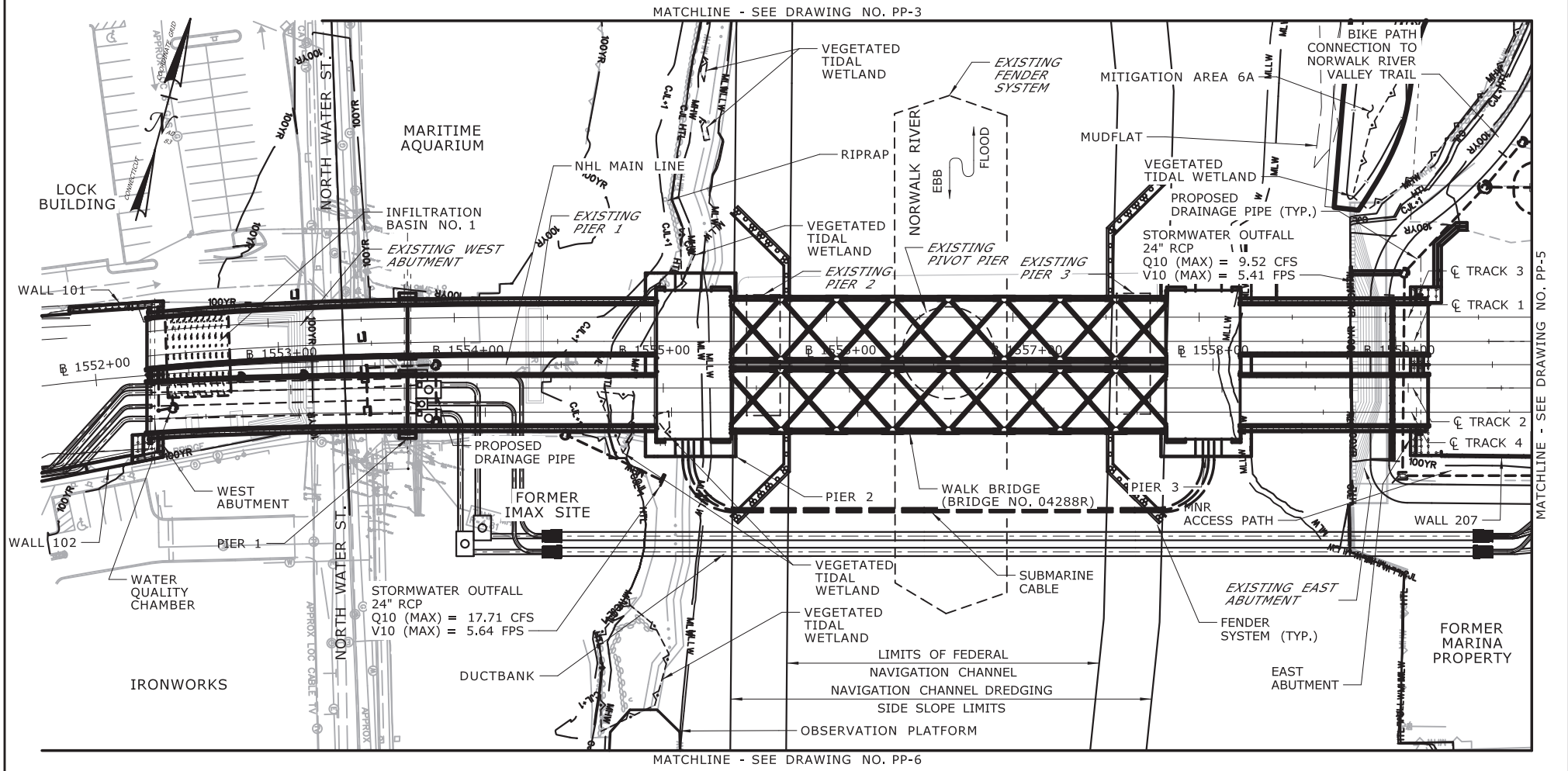
ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER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

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.



SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 3 OF 9)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: PP-3



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.
2. 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. NO. GEN-6) FOR ADDITIONAL INFORMATION.

SCALE: SCALE 1" = 80' (0 40 80)

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

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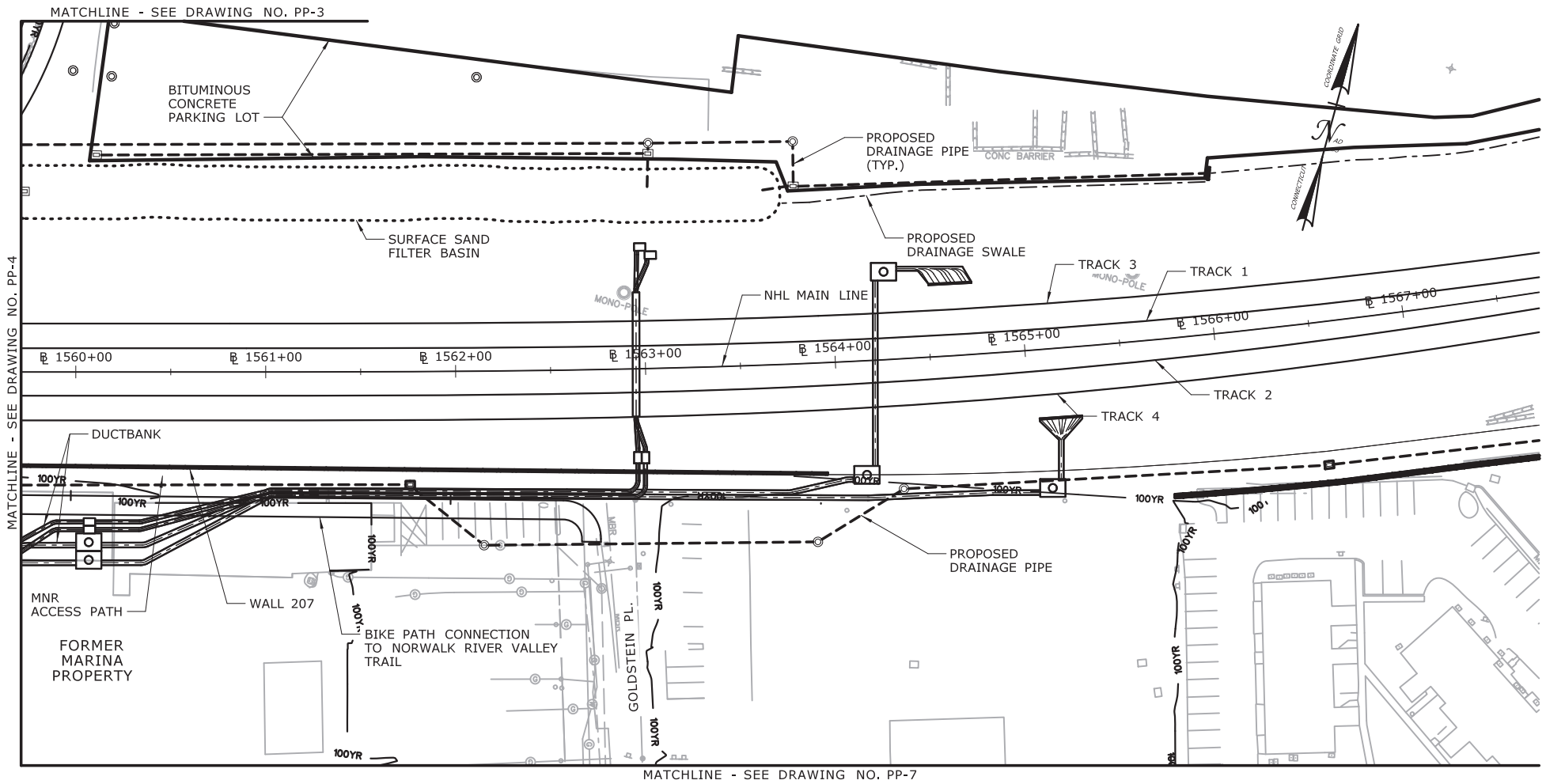
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 4 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **PP-4**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	13.0
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

SCALE:
SCALE 1" = 80'
0 40 80

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

SIGNATURE BLOCK:
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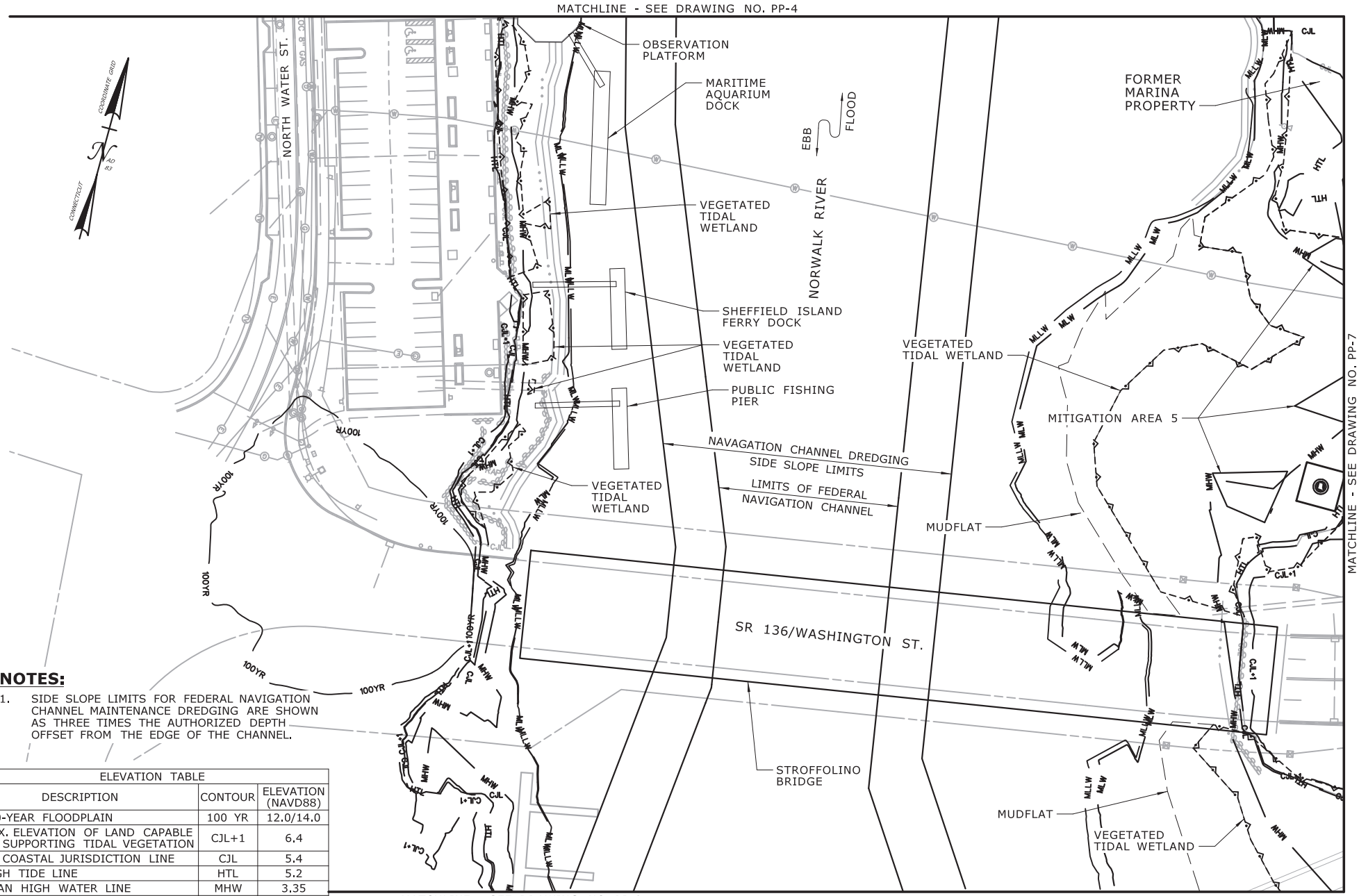
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 5 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **PP-5**



NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0
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

SCALE: SCALE 1" = 80' (0 40 80)

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
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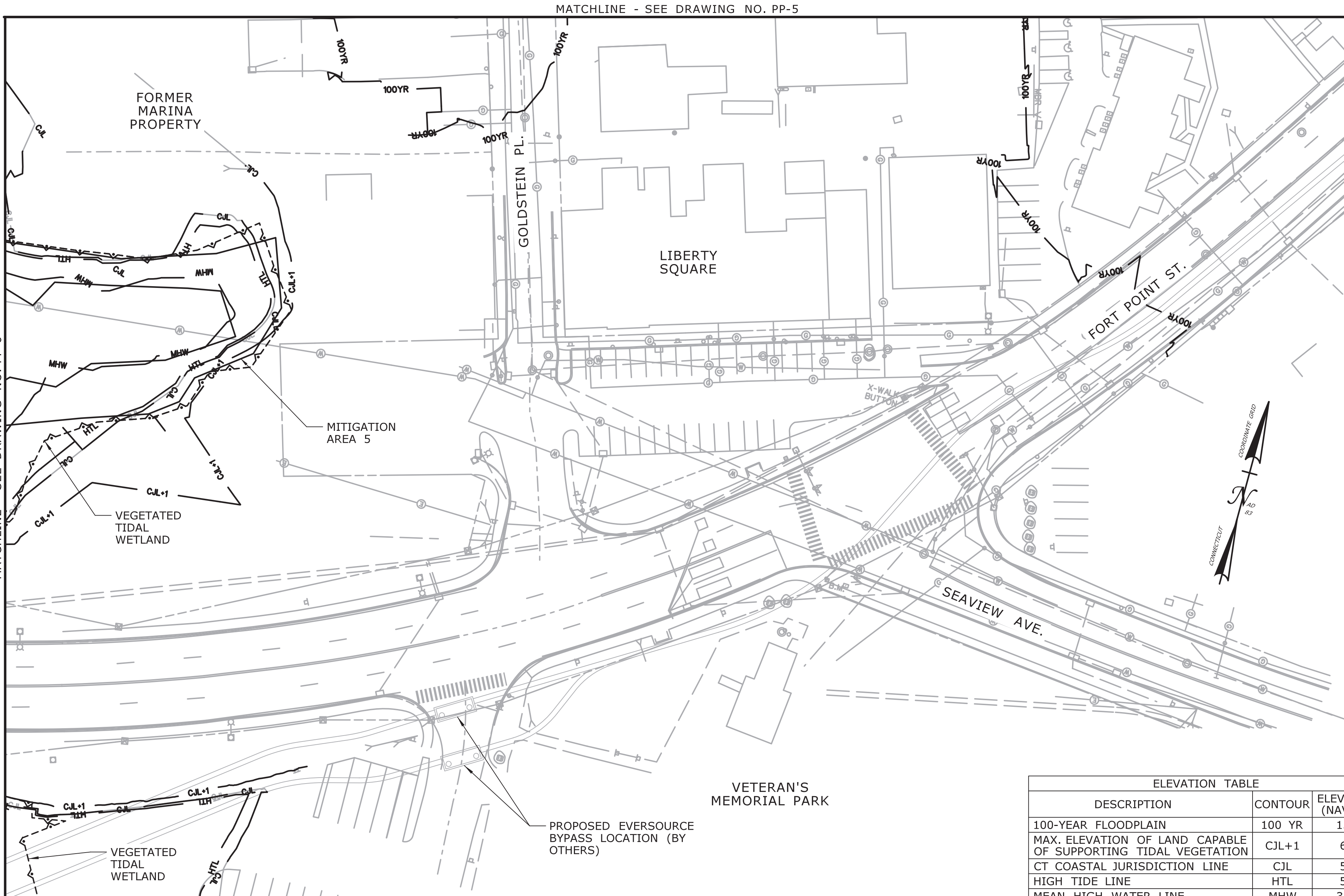
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 6 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **PP-6**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	13.0
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

SCALE: SCALE 1" = 80' (0, 40, 80)

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

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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

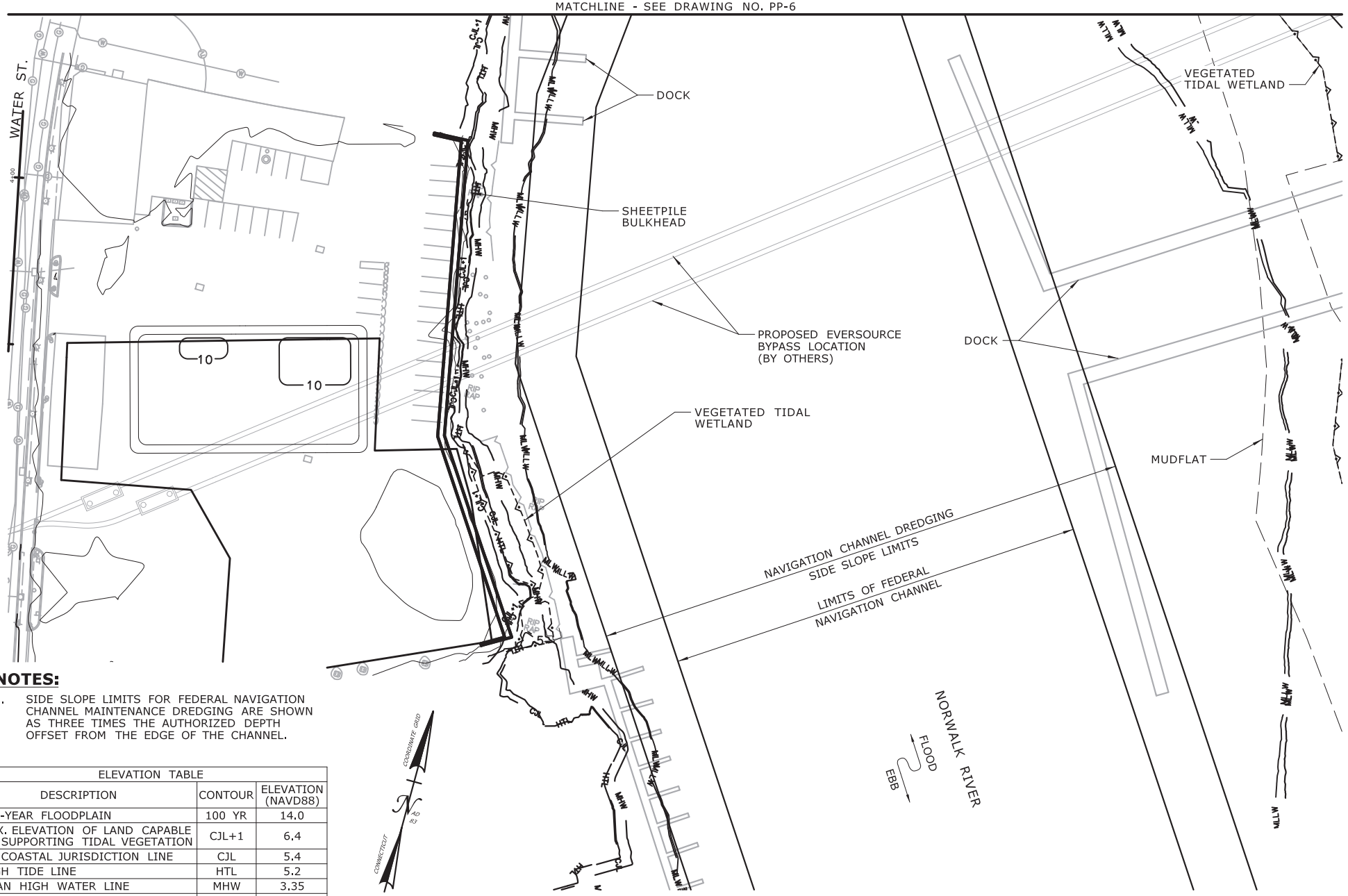
TOWN: **NORWALK**

DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 7 OF 9)**

PROJECT NO.: 0301-0176

DATE: 8-28-19

DRAWING NO.: PP-7



NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

ELEVATION TABLE		
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

SCALE:
SCALE 1" = 80'
0 40 80

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

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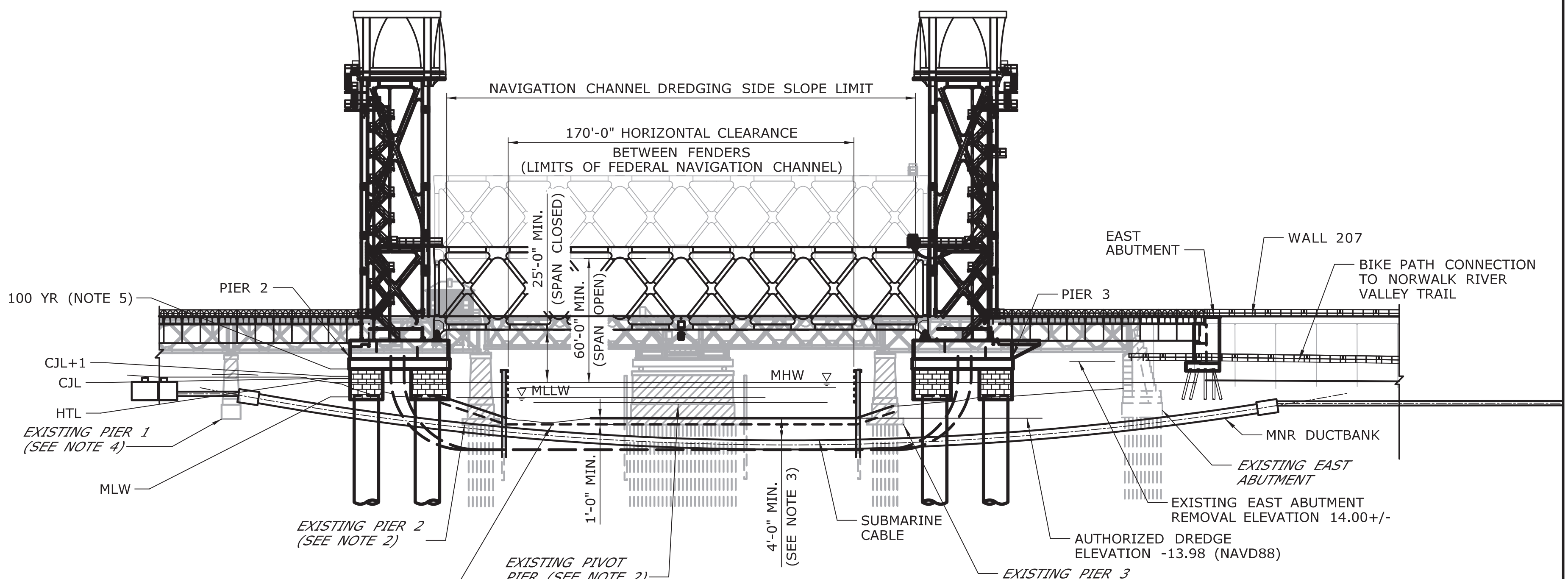
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 8 OF 9)**
DATE: **8-28-19**
DRAWING NO.: **PP-8**



ELEVATION

(VIEW LOOKING NORTH)

NOTES:

1. AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS 10 FEET BELOW MLLW (-13.98 NAVD88).

2. EXISTING BRIDGE FOUNDATIONS WILL BE REMOVED TO A DEPTH AT LEAST 1 FOOT BELOW THE AUTHROIZED DREDGE ELEVATION TO ACCOMMODATE AN ALLOWANCE FOR OVER-DREDGING.

3. SUBMARINE CABLE AND MNR DUCTBANK CROSSINGS WILL BE INSTALLED AT LEAST 4 FEET AND A MAXIMUM OF 7 FEET BELOW THE AUTHORIZED DREDGE ELEVATION (INCLUDING 1' OVER-DREDGE ALLOWANCE) OR 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

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE 1" = 80' (0, 40, 80)

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTIAN J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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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

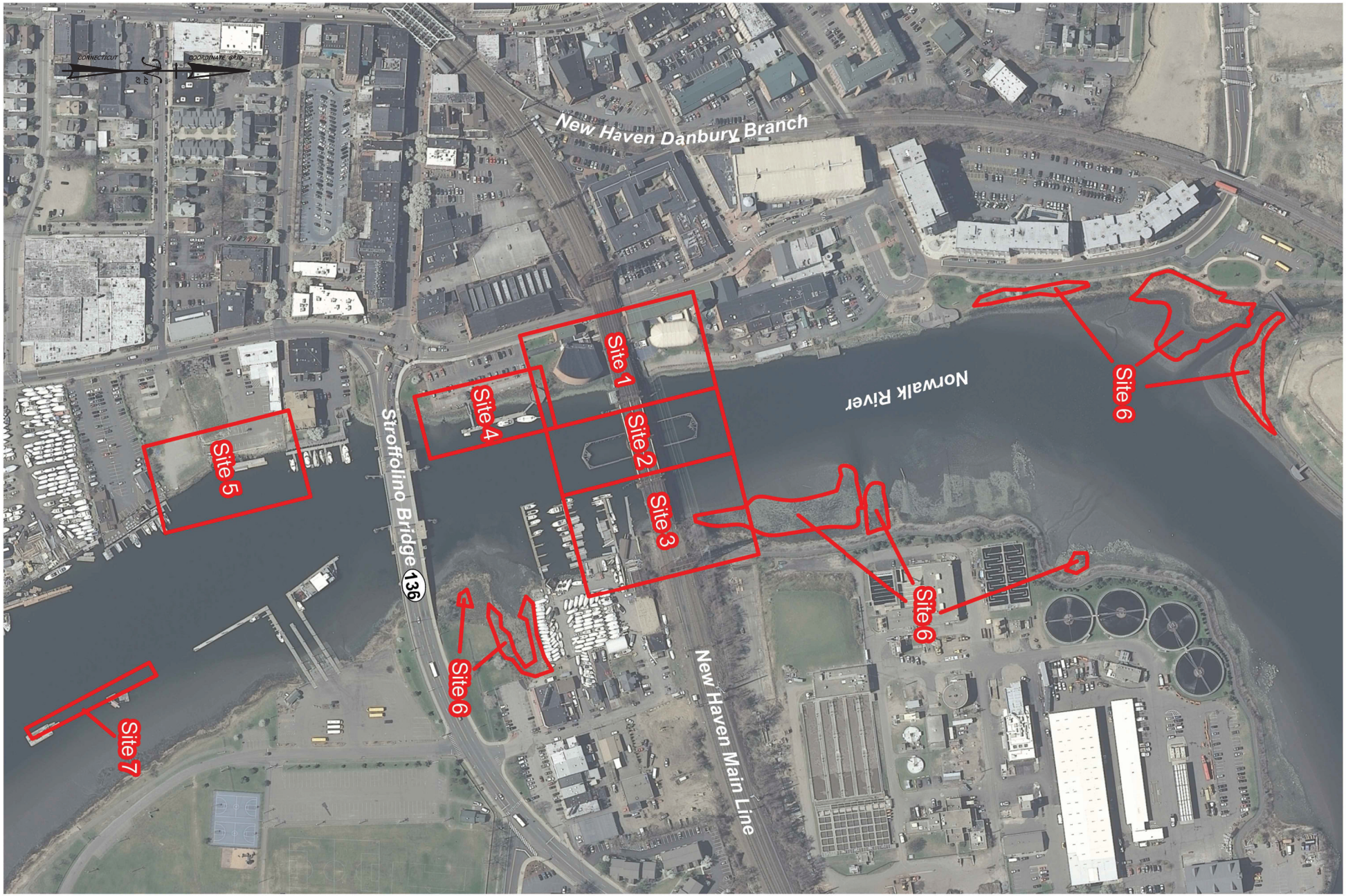
TOWN: NORWALK

DRAWING TITLE: BRIDGE ELEVATION PROPOSED CONDITIONS (SHEET 9 OF 9)

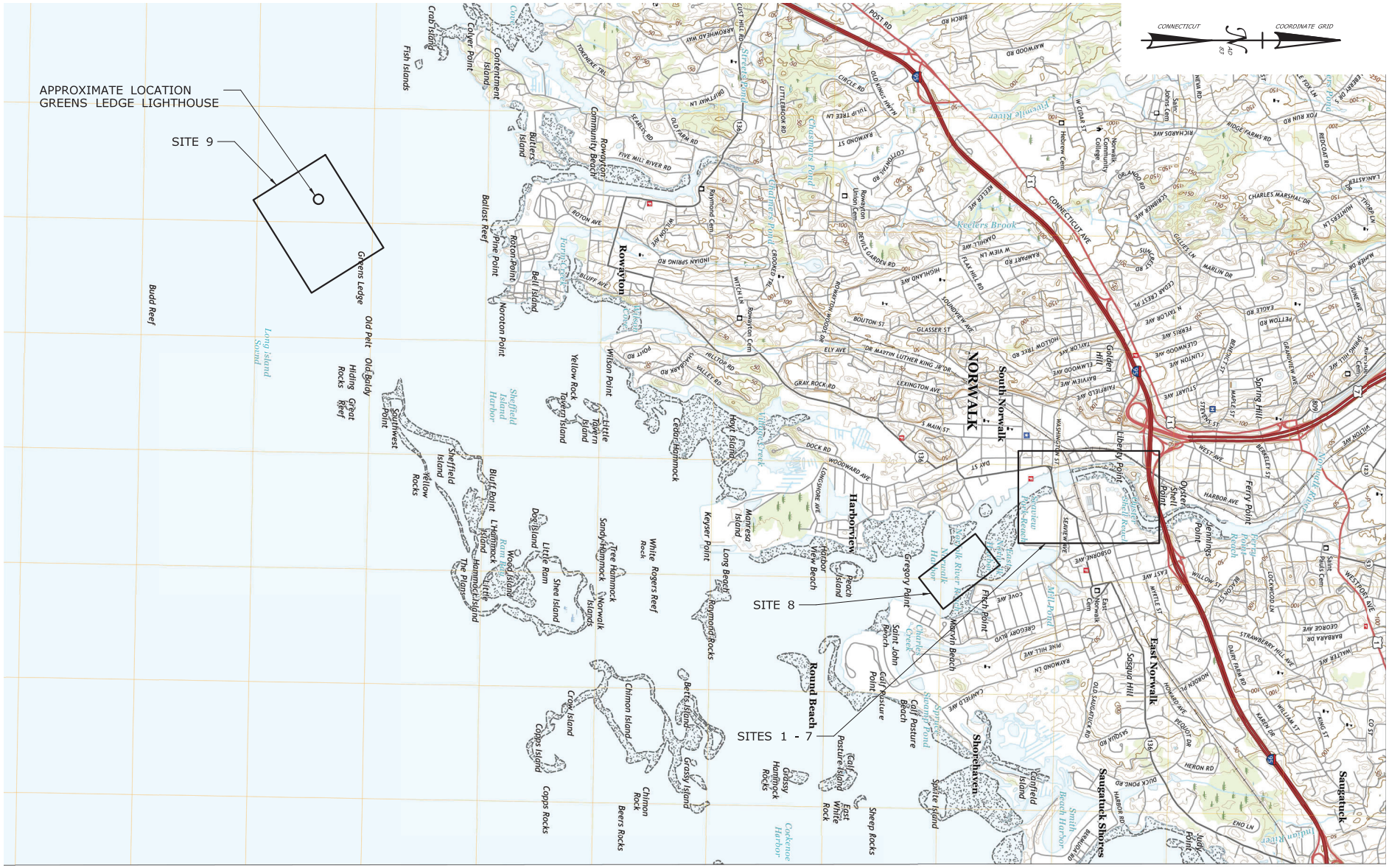
PROJECT NO.: 0301-0176

DATE: 8-28-19

DRAWING NO.: PP-9



SCALE: SCALE 1" = 300' (0 150 300)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SUMMARY OF IMPACTS (SHEET 1 OF 15)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: SUM-1



SCALE: SCALE 1" = 4000' (0 2000 4000)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: STATE OF CONNECTICUT · ROBERT J. BROWN · NO. 20895 · LICENSED PROFESSIONAL ENGINEER	HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SUMMARY OF IMPACTS (SHEET 2 OF 15)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: SUM-1A

SUMMARY OF TEMPORARY IMPACTS (SF)

SITE	STATE				FEDERAL	
	VEGETATED TIDAL WETLAND	INTERTIDAL FLAT	INTERTIDAL ZONE	BELOW CJL	BELOW HTL	FEDERAL NAVIGATION CHANNEL
1	0	0	0	0	0	0
2	0	0	0	100	100	100
3	0	0	0	0	0	0
4*	0	0	600	4,600	5,200	0
5	0	0	100	200	300	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
TOTAL	0	0	700	4,900	5,600	100

* 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 CJL	BELOW HTL	FEDERAL NAVIGATION CHANNEL
1	2,800	0	7,400	11,700	20,100	0
2	0	0	0	52,700	53,000	53,000
3	3,700	200	9,900	21,200	34,800	0
4	200	0	1,400	7,000	8,600	0
5	1,900	0	8,100	9,900	19,900	0
6	0	0	0	0	0	0
7	0	0	0	100	100	0
8	0	0	0	300	300	0
9	0	0	0	400	400	0
TOTAL	8,600	200	26,800	104,500	137,200	53,000

SUMMARY OF DREDGING QUANTITIES

SITE	MAINTENANCE/NAVIGATION CHANNEL				NEW			
	REMOVAL		FILL (CY)	NET (CY)	REMOVAL		FILL (CY)	NET (CY)
	(SF)	(CY)			(SF)	(CY)		
1	4,900	330	0	330	26,000	9,500	9,430	70
2	40,800	4,210	0	4,210	31,000	8,700	9,130	-430
3	7,500	770	0	770	34,500	9,600	9,930	-220
4	0	0	0	0	7,900	350	0	350
5	0	0	0	0	21,600	6,400	0	6,400
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
TOTAL	53,200	5,310	0	5,310	121,600	34,550	28,380	6,170

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 CJL INCLUDE AREAS BELOW THE CJL 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 TRESTLES. 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 TRESTLE. 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 MLLW, 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		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	SEE NOTE 18
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

SCALE:

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

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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

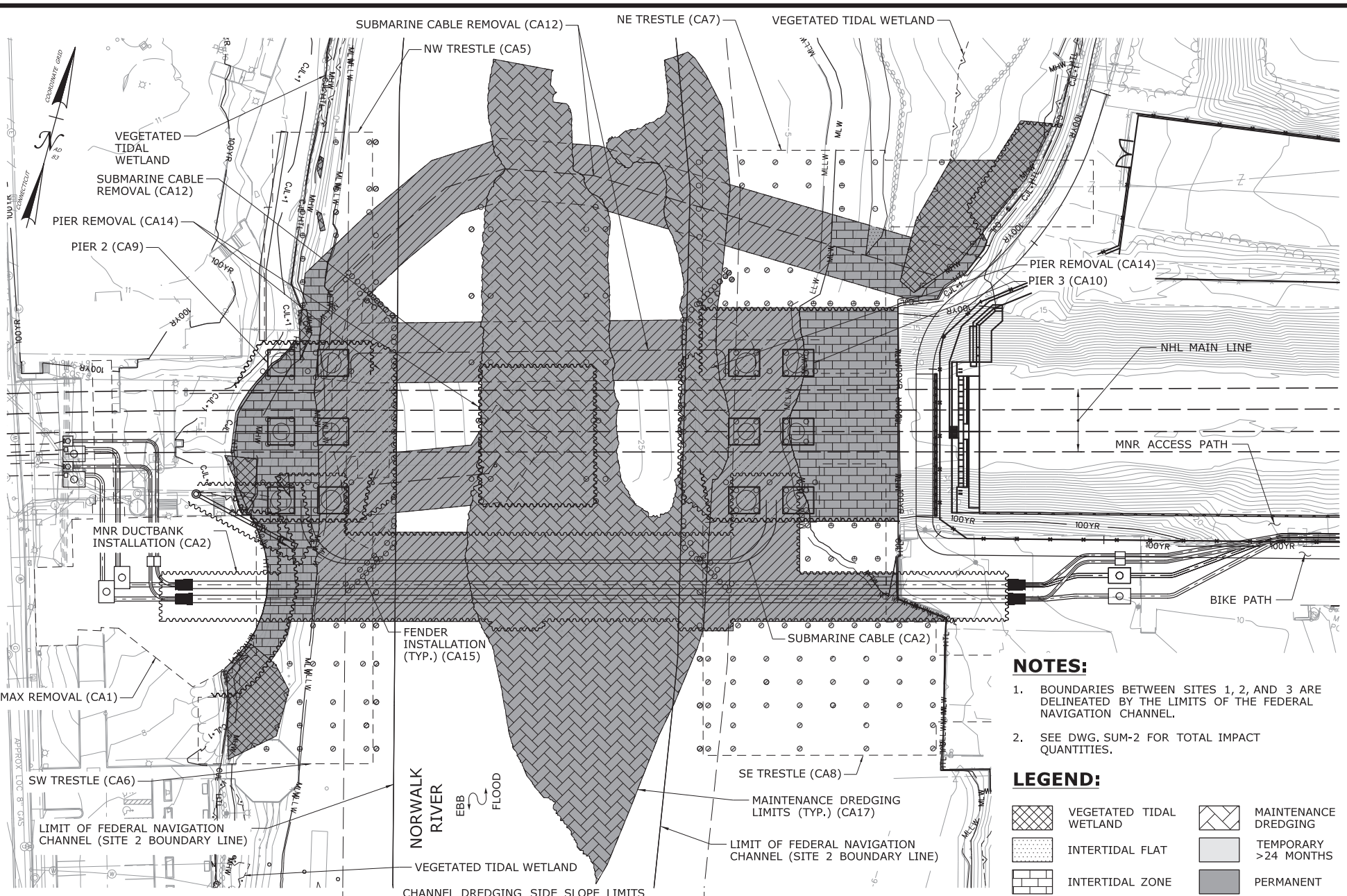
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **SUMMARY OF IMPACTS (SHEET 3 OF 15)**

DATE: **8-28-19**

DRAWING NO.: **SUM-2**



NOTES:

1. BOUNDARIES BETWEEN SITES 1, 2, AND 3 ARE DELINEATED BY THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

PLAN - SITE 1 **PLAN - SITE 2** **PLAN - SITE 3**

SCALE: SCALE 1" = 80' (0, 40, 80)

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

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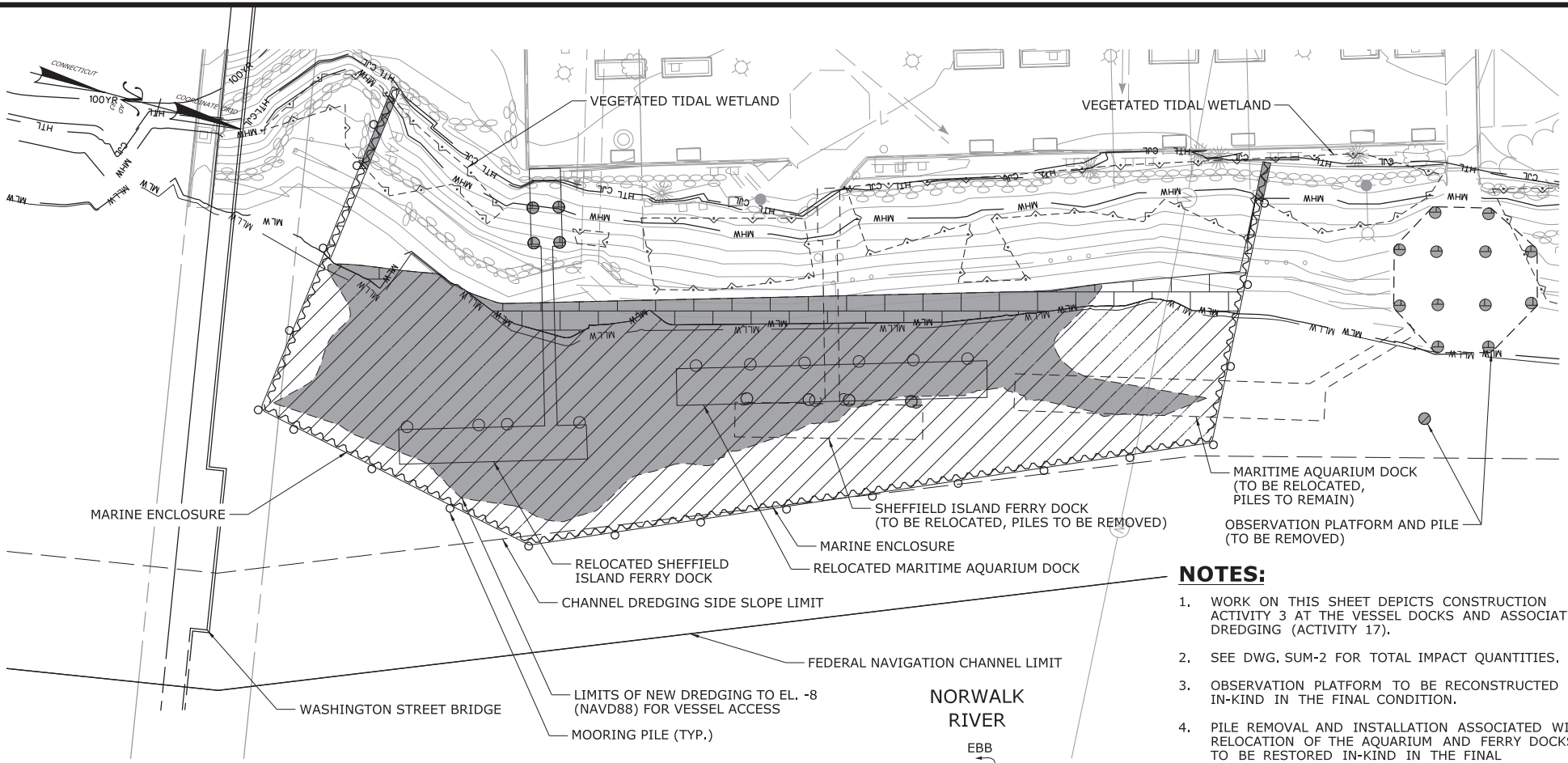
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **SITES 1, 2 & 3 STATE (SHEET 4 OF 15)**
DATE: **8-28-19**
DRAWING NO.: **SUM-3**



PLAN - SITE 4

NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 3 AT THE VESSEL DOCKS AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. OBSERVATION PLATFORM TO BE RECONSTRUCTED IN-KIND IN THE FINAL CONDITION.
4. PILE REMOVAL AND INSTALLATION ASSOCIATED WITH RELOCATION OF THE AQUARIUM AND FERRY DOCKS TO BE RESTORED IN-KIND IN THE FINAL CONDITION.
5. IN THE FINAL CONDITION, THE RELOCATED SHEFFIELD ISLAND FERRY DOCK WILL REMAIN AS A PUBLIC FISHING PIER.
6. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 40' (0, 20, 40)

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

SIGNATURE BLOCK:

HNTB Corporation
55 Capital Boulevard, 4th Floor
Rocky Hill, CT 06067
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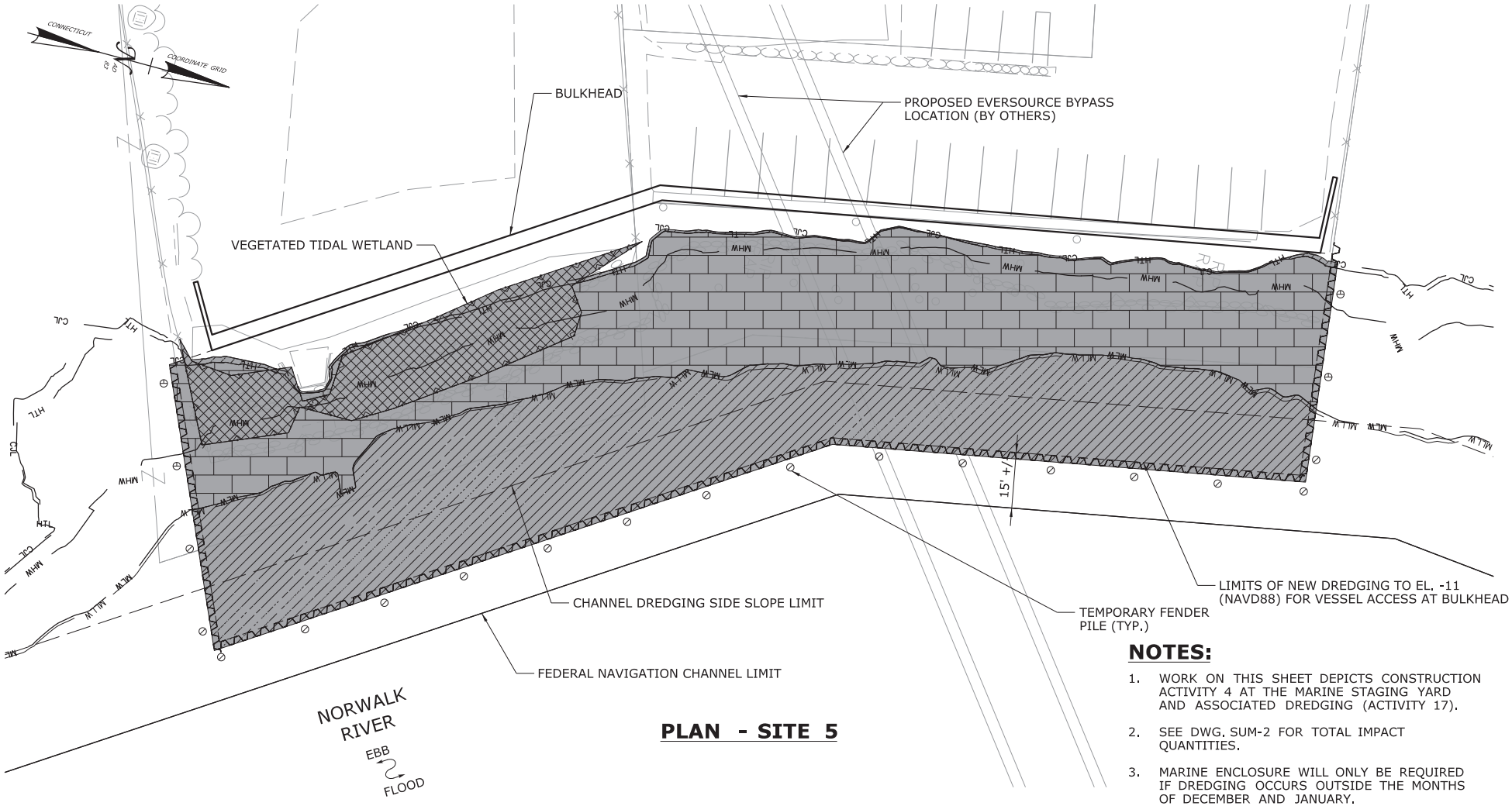
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **SITE 4 STATE (SHEET 5 OF 15)**
DATE: **8-28-19**
DRAWING NO.: **SUM-4**



PLAN - SITE 5

NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 4 AT THE MARINE STAGING YARD AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 40' (0, 20, 40)

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

SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 20695, LICENSED PROFESSIONAL ENGINEER

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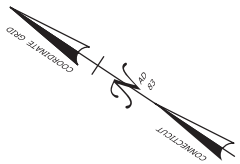
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **SITE 5 STATE (SHEET 6 OF 15)**
DATE: **8-28-19**
DRAWING NO.: **SUM-5**



MOORING BUOY (TYP.)

LIMITS OF MOORING BUOY LOCATION

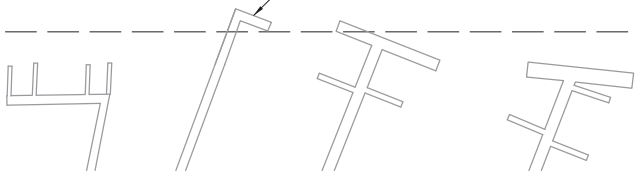
LIMITS OF FEDERAL NAVIGATION CHANNEL

FLOOD

EBB

NORWALK RIVER

EXISTING DOCKS (TYP.)



PLAN - SITE 7

NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

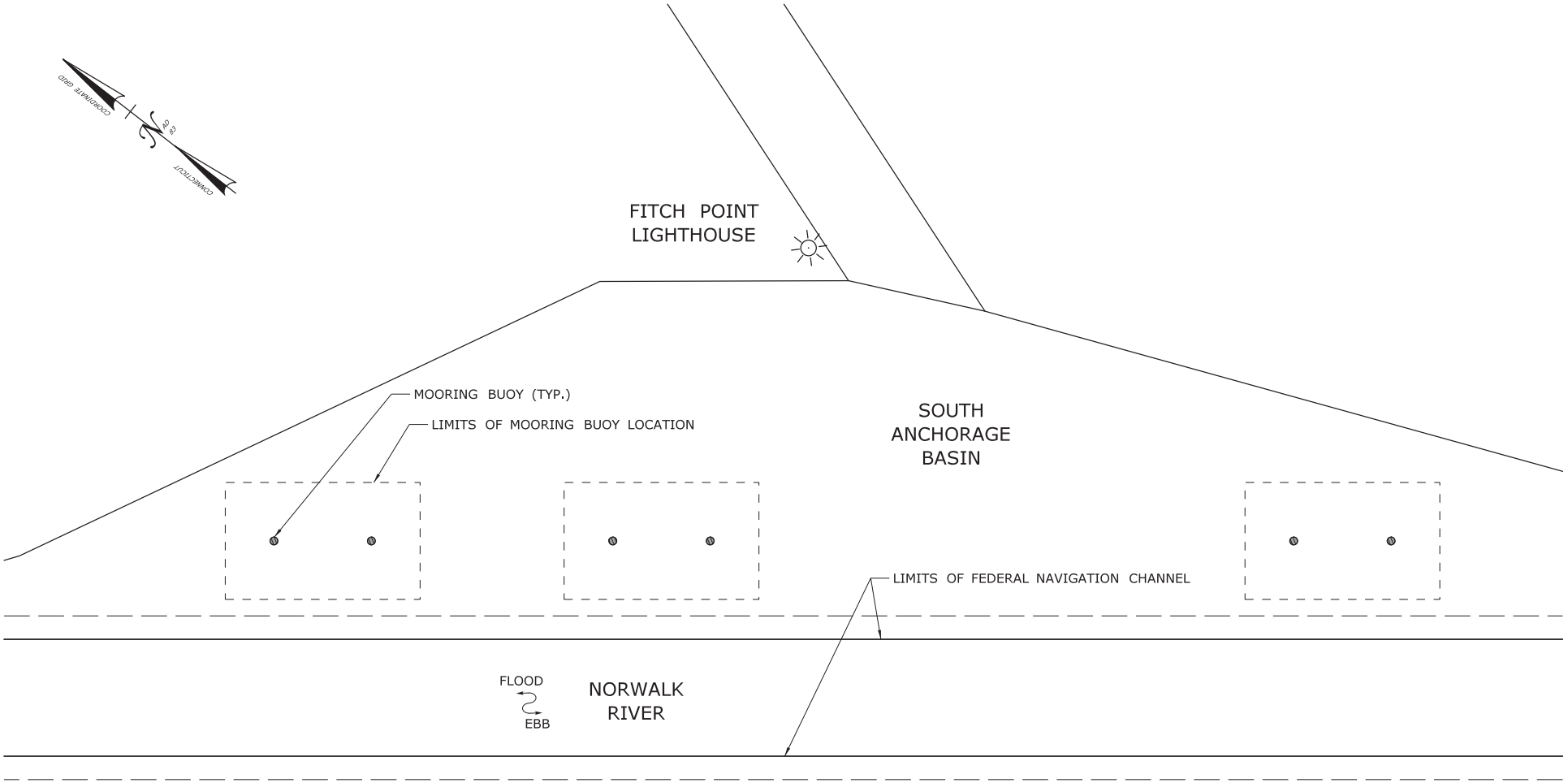
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **SITE 7 STATE (SHEET 7 OF 15)**

DATE: **8-28-19**

DRAWING NO.: **SUM-5A**



PLAN - SITE 8

NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 200' (0, 100, 200)

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

SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 20695, LICENSED PROFESSIONAL ENGINEER

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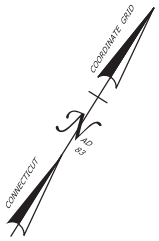
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

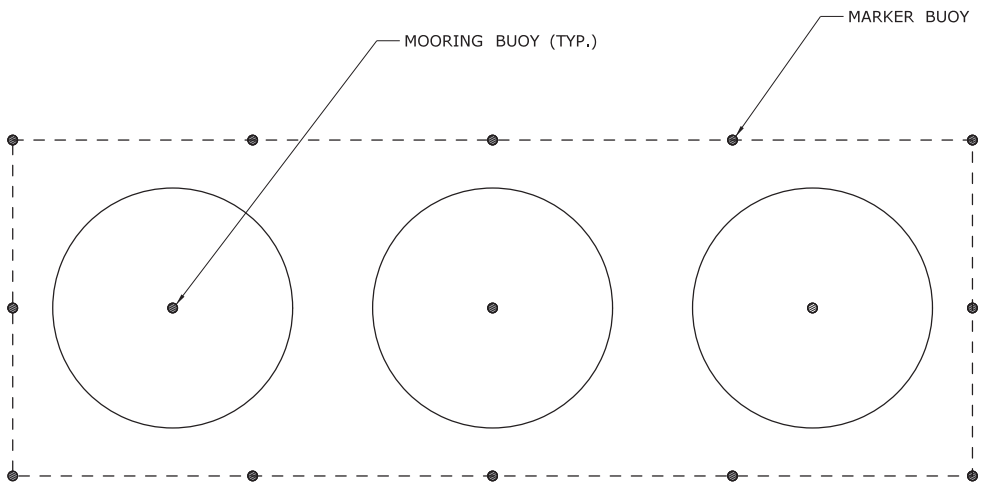
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **SITE 8 STATE (SHEET 8 OF 15)**
DATE: **8-28-19**
DRAWING NO.: **SUM-5B**



GREENS LEDGE LIGHTHOUSE

LONG ISLAND SOUND



PLAN - SITE 9

NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

VEGETATED TIDAL WETLAND	MAINTENANCE DREDGING
INTERTIDAL FLAT	TEMPORARY >24 MONTHS
INTERTIDAL ZONE	PERMANENT
BELOW CJL	

SCALE: SCALE 1" = 400' (0, 200, 400)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 20695, LICENSED PROFESSIONAL ENGINEER

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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

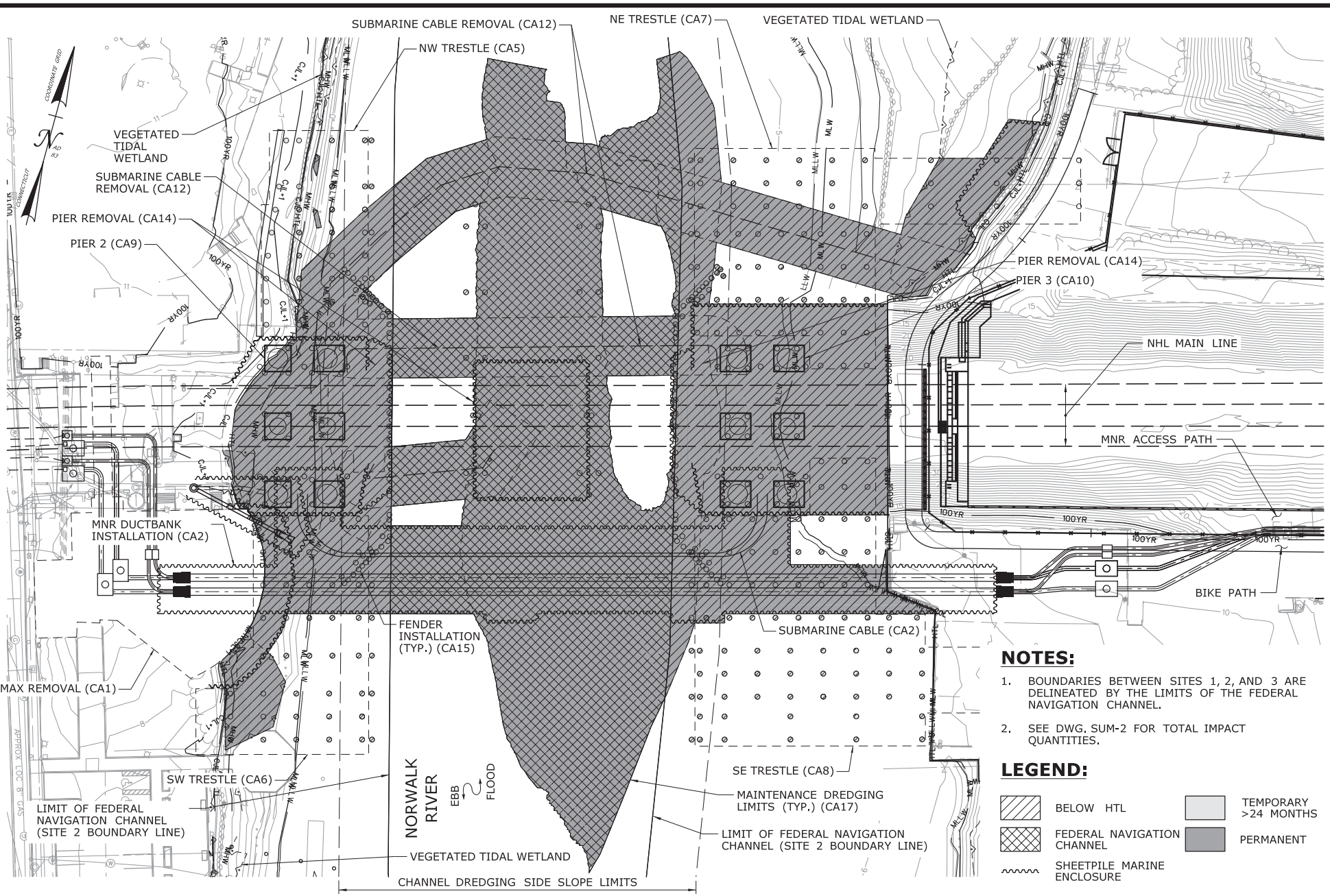
TOWN: NORWALK

PROJECT NO.: 0301-0176

DRAWING TITLE: SITE 9 STATE (SHEET 9 OF 15)

DATE: 8-28-19

DRAWING NO.: SUM-5C



NOTES:

1. BOUNDARIES BETWEEN SITES 1, 2, AND 3 ARE DELINEATED BY THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

PLAN - SITE 1 **PLAN - SITE 2** **PLAN - SITE 3**

SCALE: SCALE 1" = 80' (0, 40, 80)

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

SIGNATURE BLOCK:

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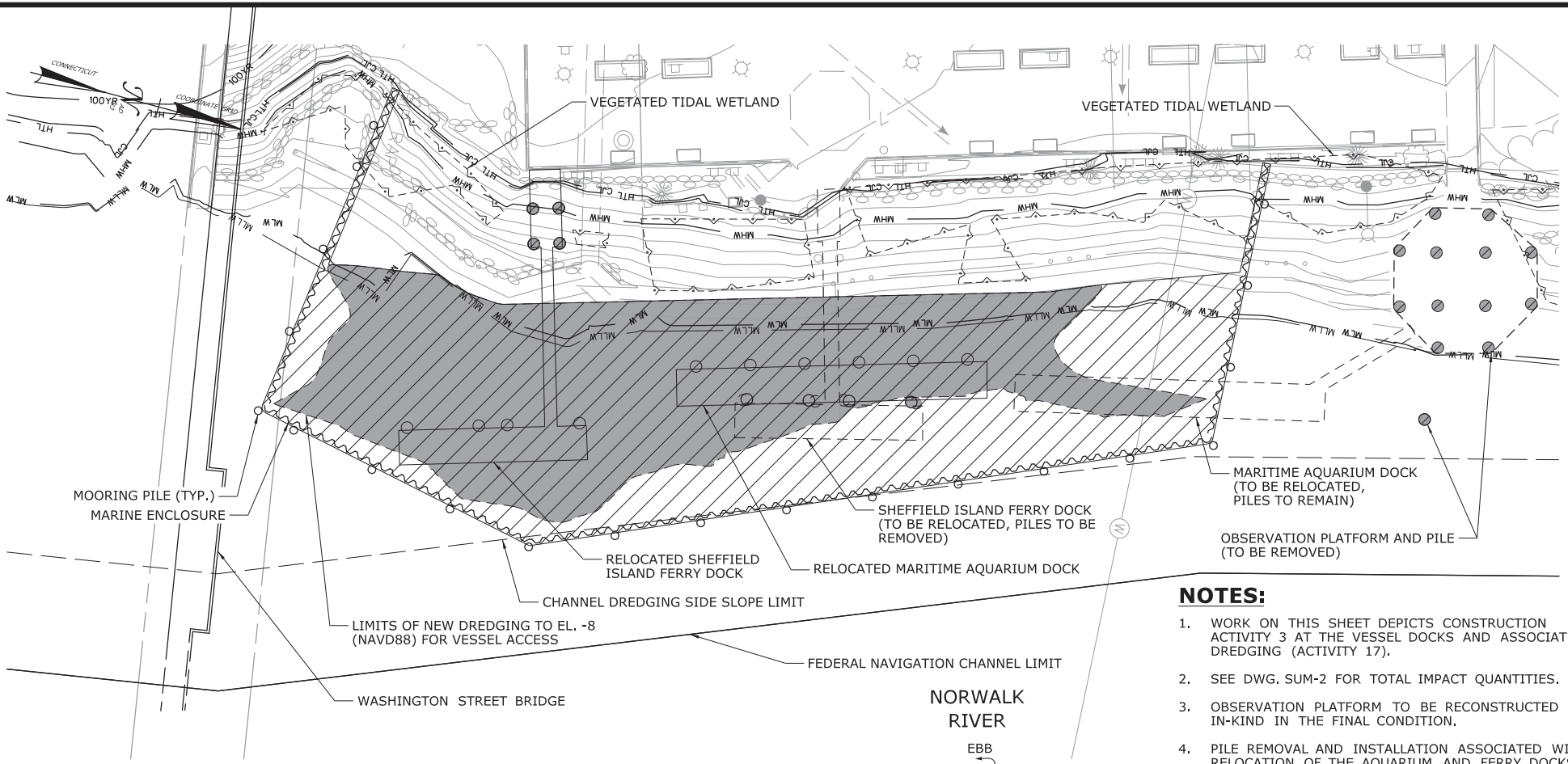
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **SITES 1, 2 & 3 FEDERAL (SHEET 10 OF 15)**
DATE: **8-28-19**
DRAWING NO.: **SUM-6**



PLAN - SITE 4

NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 3 AT THE VESSEL DOCKS AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. OBSERVATION PLATFORM TO BE RECONSTRUCTED IN-KIND IN THE FINAL CONDITION.
4. PILE REMOVAL AND INSTALLATION ASSOCIATED WITH RELOCATION OF THE AQUARIUM AND FERRY DOCKS TO BE RESTORED IN-KIND IN THE FINAL CONDITION.
5. IN THE FINAL CONDITION, THE RELOCATED SHEFFIELD ISLAND FERRY DOCK WILL REMAIN AS A PUBLIC FISHING PIER.
6. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- BELOW HTL
- TEMPORARY >24 MONTHS
- FEDERAL NAVIGATION CHANNEL
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 40' (0, 20, 40)

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

SIGNATURE BLOCK:

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Rocky Hill, CT 06067
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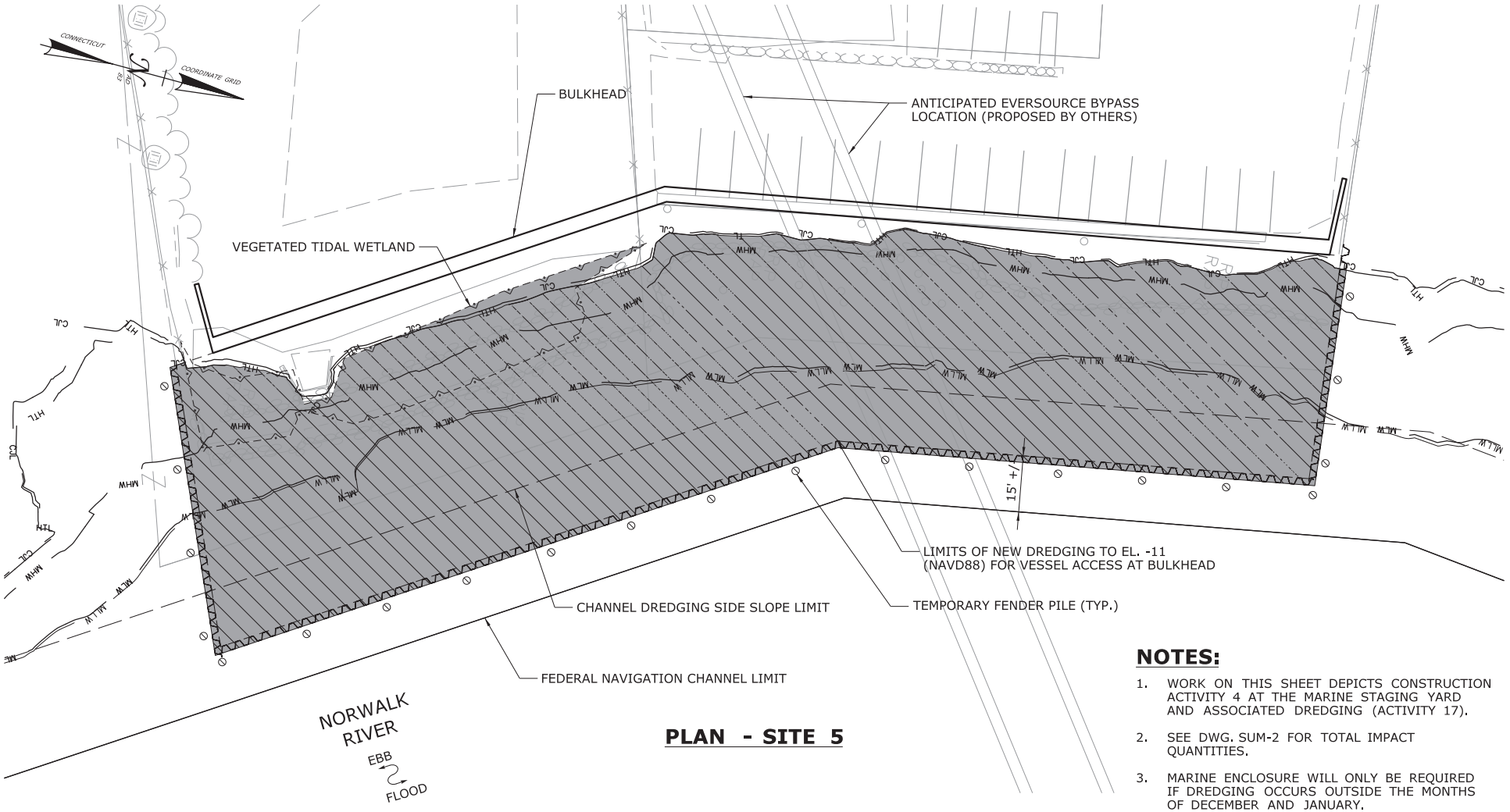
Fax (860) 257-7394

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: **SITE 4 FEDERAL (SHEET 11 OF 15)**
DATE: **8-28-19**
DRAWING NO.: **SUM-7**



PLAN - SITE 5

NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 4 AT THE MARINE STAGING YARD AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- BELOW HTL
- TEMPORARY >24 MONTHS
- FEDERAL NAVIGATION CHANNEL
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 40' (0, 20, 40)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

HNTB Corporation
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Rocky Hill, CT 06067
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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

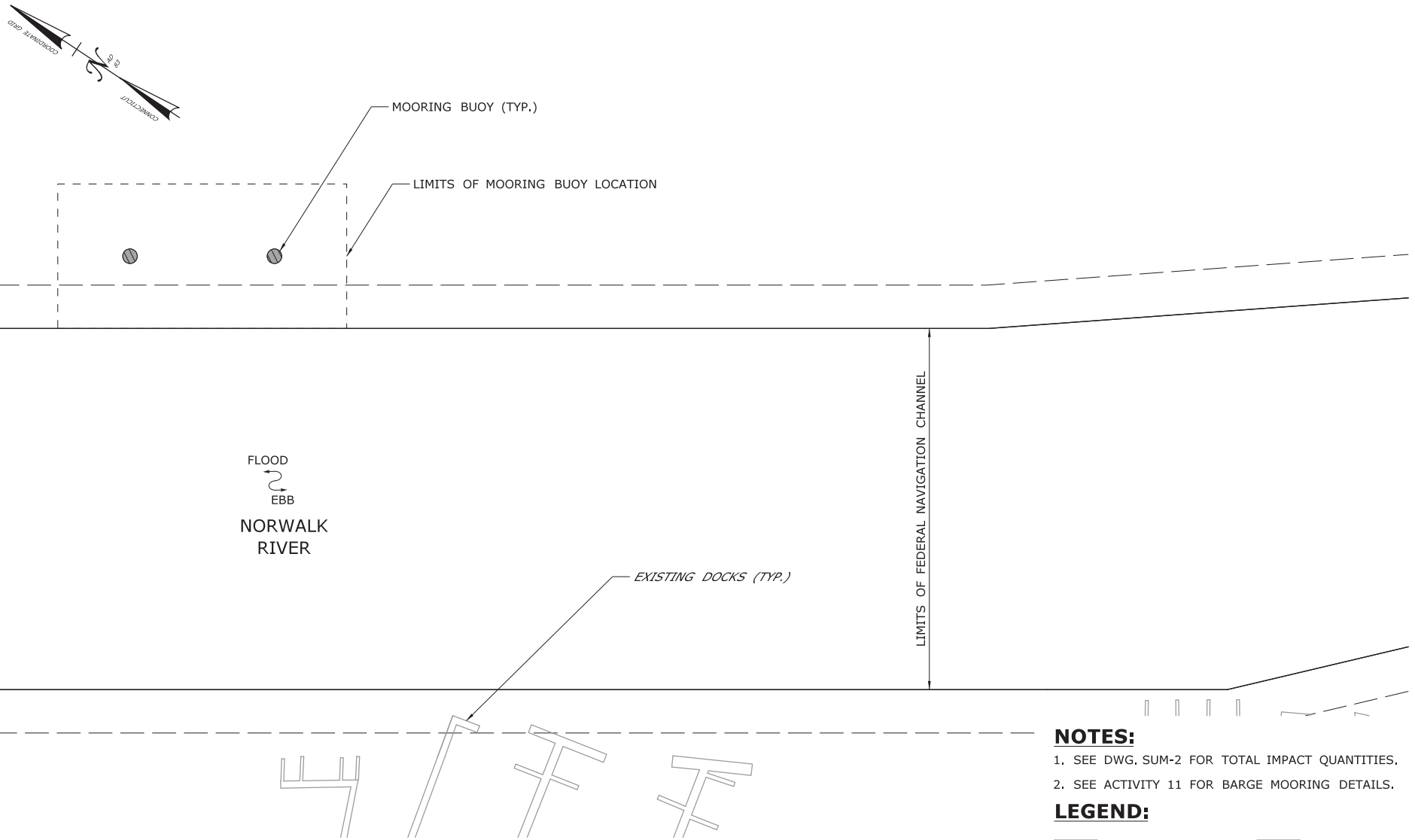
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **SITE 5 FEDERAL (SHEET 12 OF 15)**

DATE: **8-28-19**

DRAWING NO.: **SUM-8**



PLAN - SITE 7

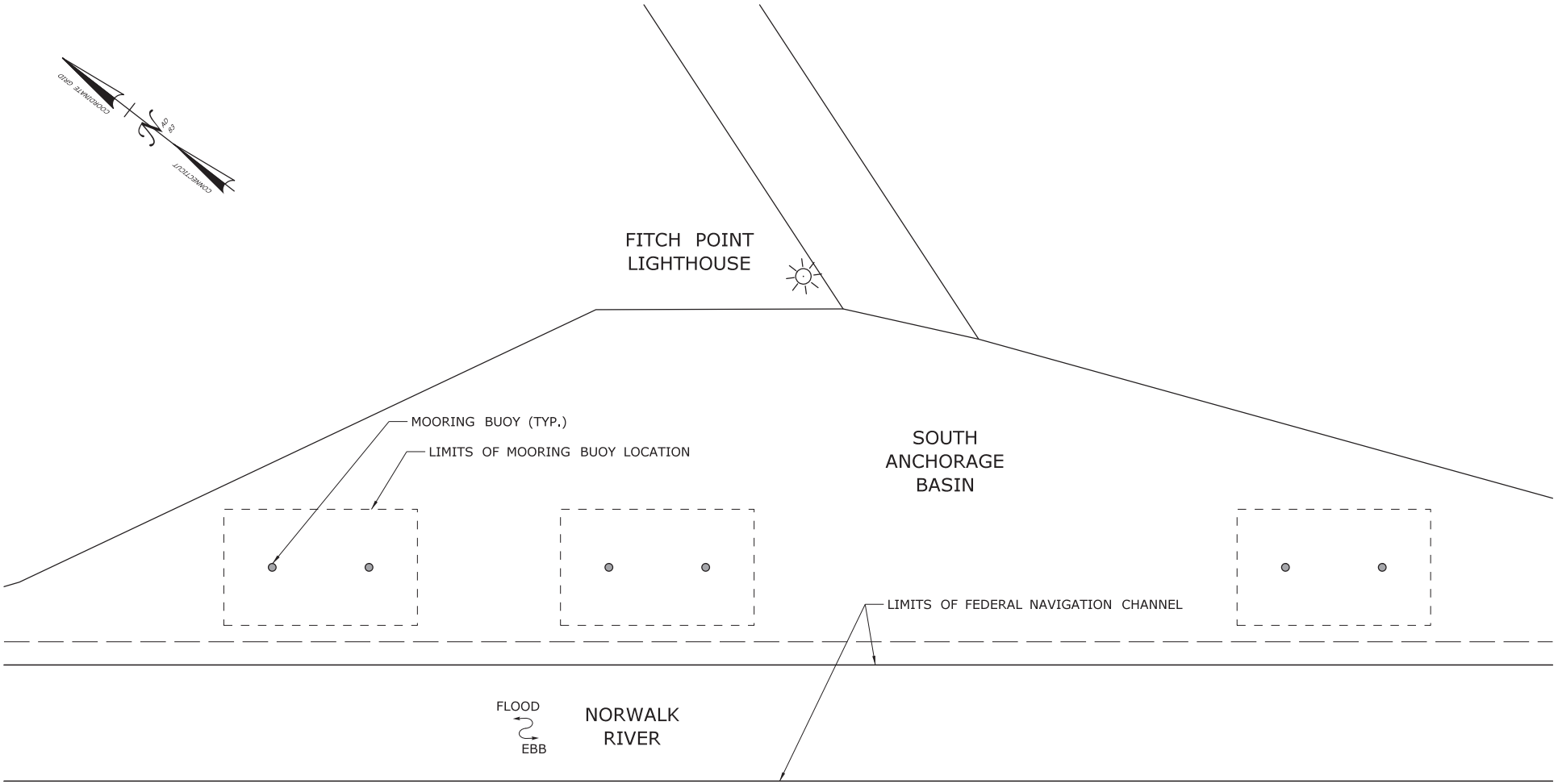
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 100' (0, 50, 100)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 29895, LICENSED PROFESSIONAL ENGINEER	HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 7 FEDERAL (SHEET 13 OF 15)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: SUM-9



PLAN - SITE 8

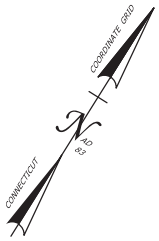
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

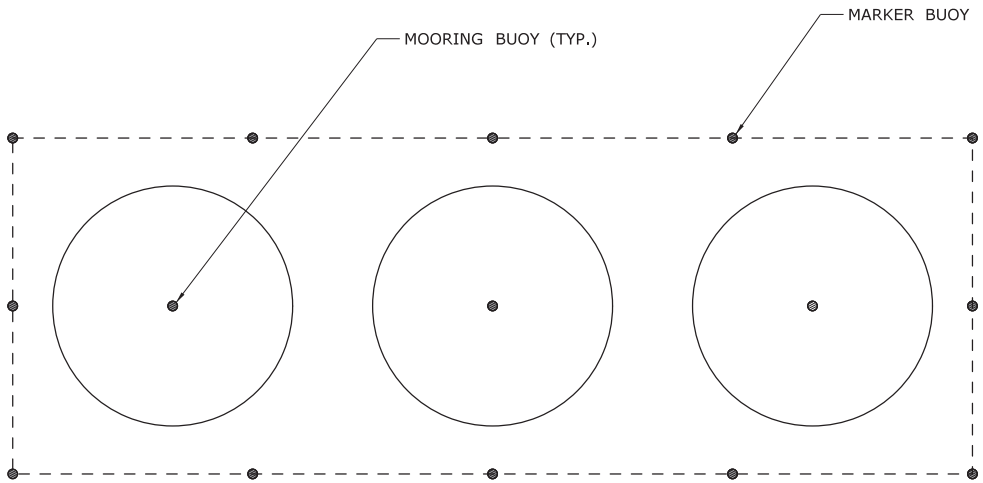
- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 200' (0 100 200)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 29695, LICENSED PROFESSIONAL ENGINEER	HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 8 FEDERAL (SHEET 14 OF 15)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: SUM-10



GREENS LEDGE LIGHTHOUSE

LONG ISLAND SOUND



PLAN - SITE 9

NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 400' (0, 200, 400)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

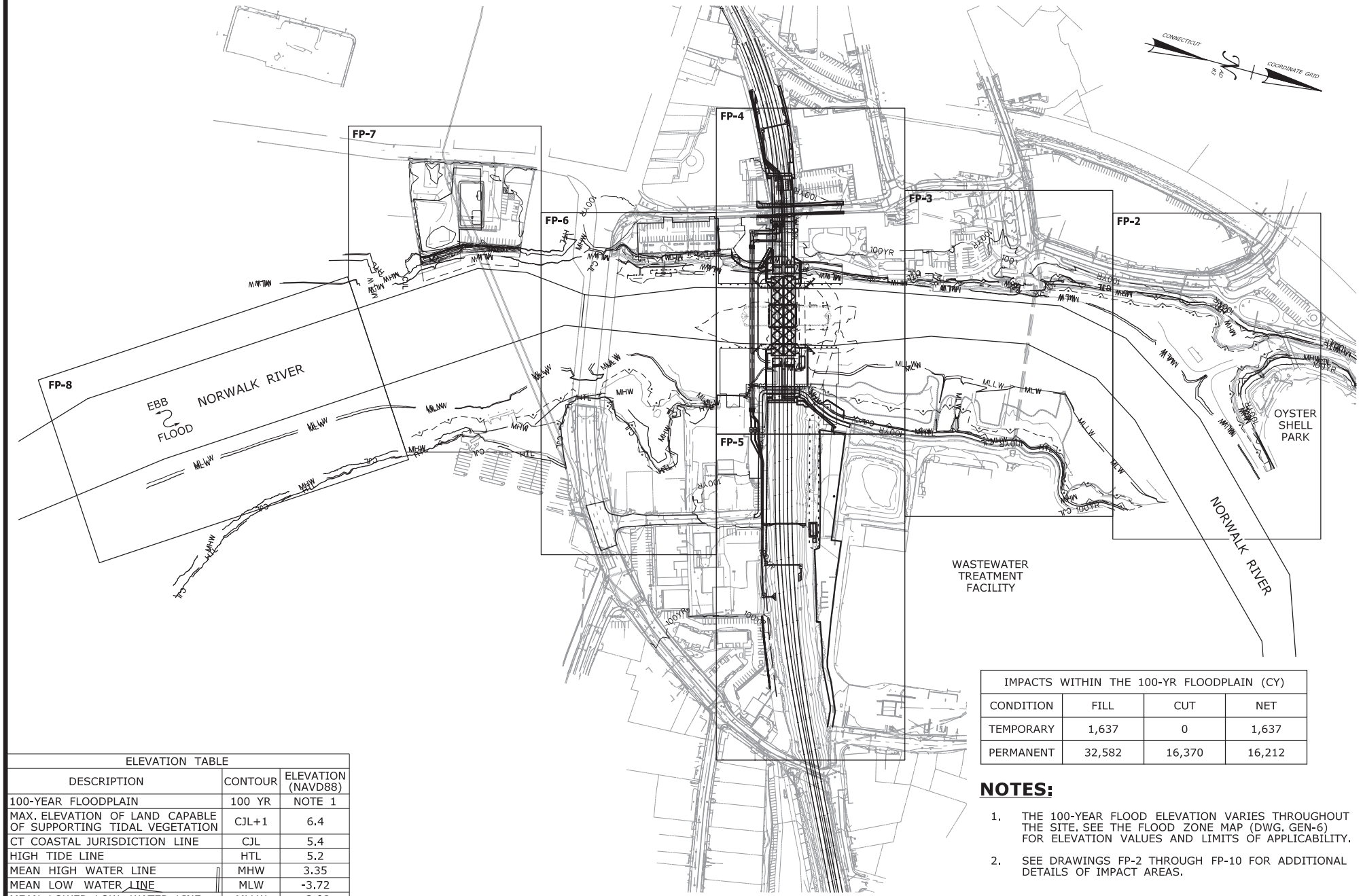
TOWN: **NORWALK**

DRAWING TITLE: **SITE 9 FEDERAL (SHEET 15 OF 15)**

PROJECT NO.: **0301-0176**

DATE: **8-28-19**

DRAWING NO.: **SUM-11**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	NOTE 1
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

IMPACTS WITHIN THE 100-YR FLOODPLAIN (CY)			
CONDITION	FILL	CUT	NET
TEMPORARY	1,637	0	1,637
PERMANENT	32,582	16,370	16,212

NOTES:

1. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE THE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.
2. SEE DRAWINGS FP-2 THROUGH FP-10 FOR ADDITIONAL DETAILS OF IMPACT AREAS.

SCALE:
SCALE 1" = 400'
0 200 400

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — CHRISTOPHER J. BROWN — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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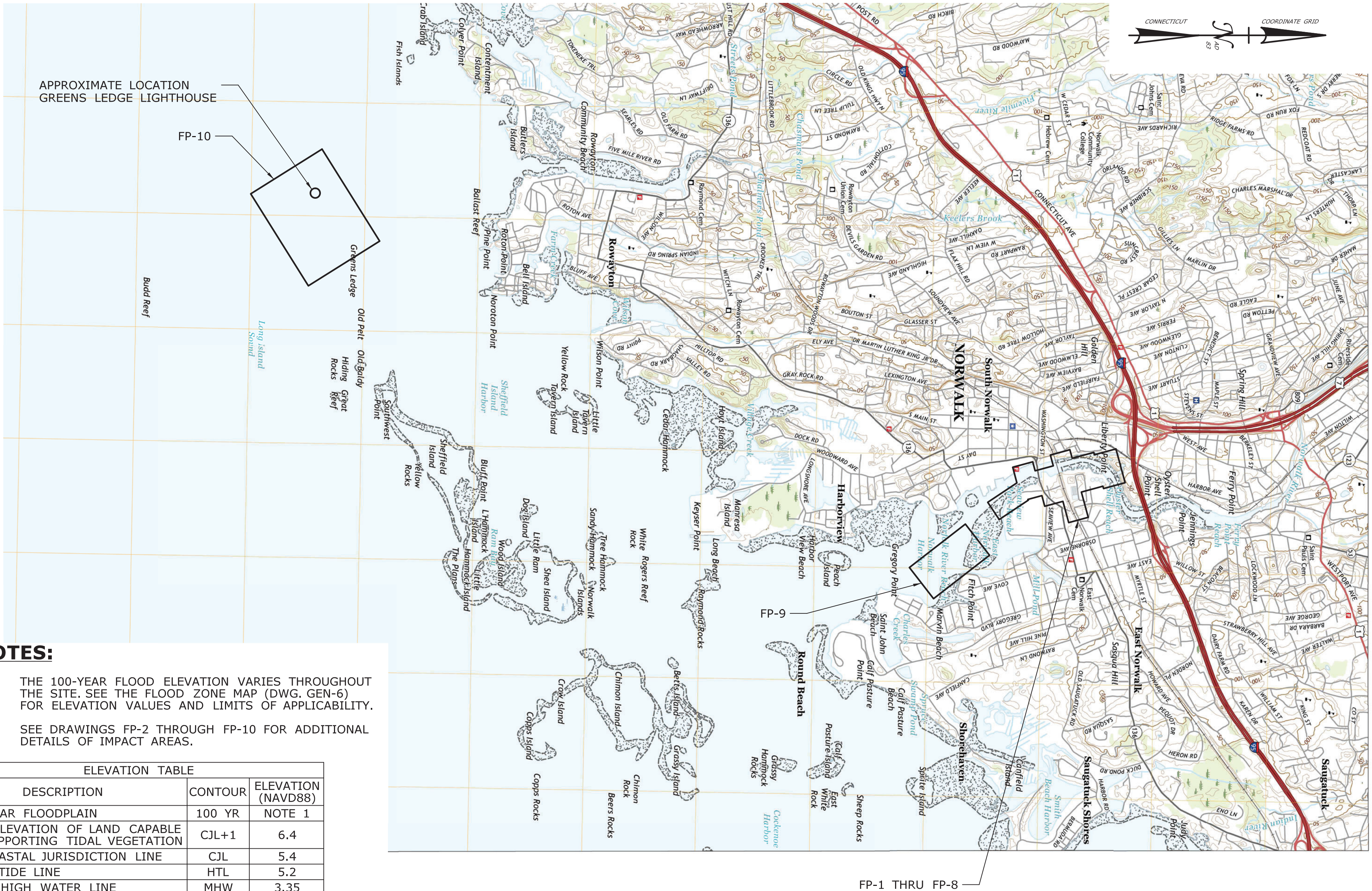
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **KEY PLAN FLOODPLAIN IMPACTS (SHEET 1 OF 11)**
DATE: **8-28-19**
DRAWING NO.: **FP-1**



NOTES:

1. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE THE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.

2. SEE DRAWINGS FP-2 THROUGH FP-10 FOR ADDITIONAL DETAILS OF IMPACT AREAS.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	NOTE 1
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

SCALE:
SCALE 1" = 4000'
0 2000 4000

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

SIGNATURE BLOCK:
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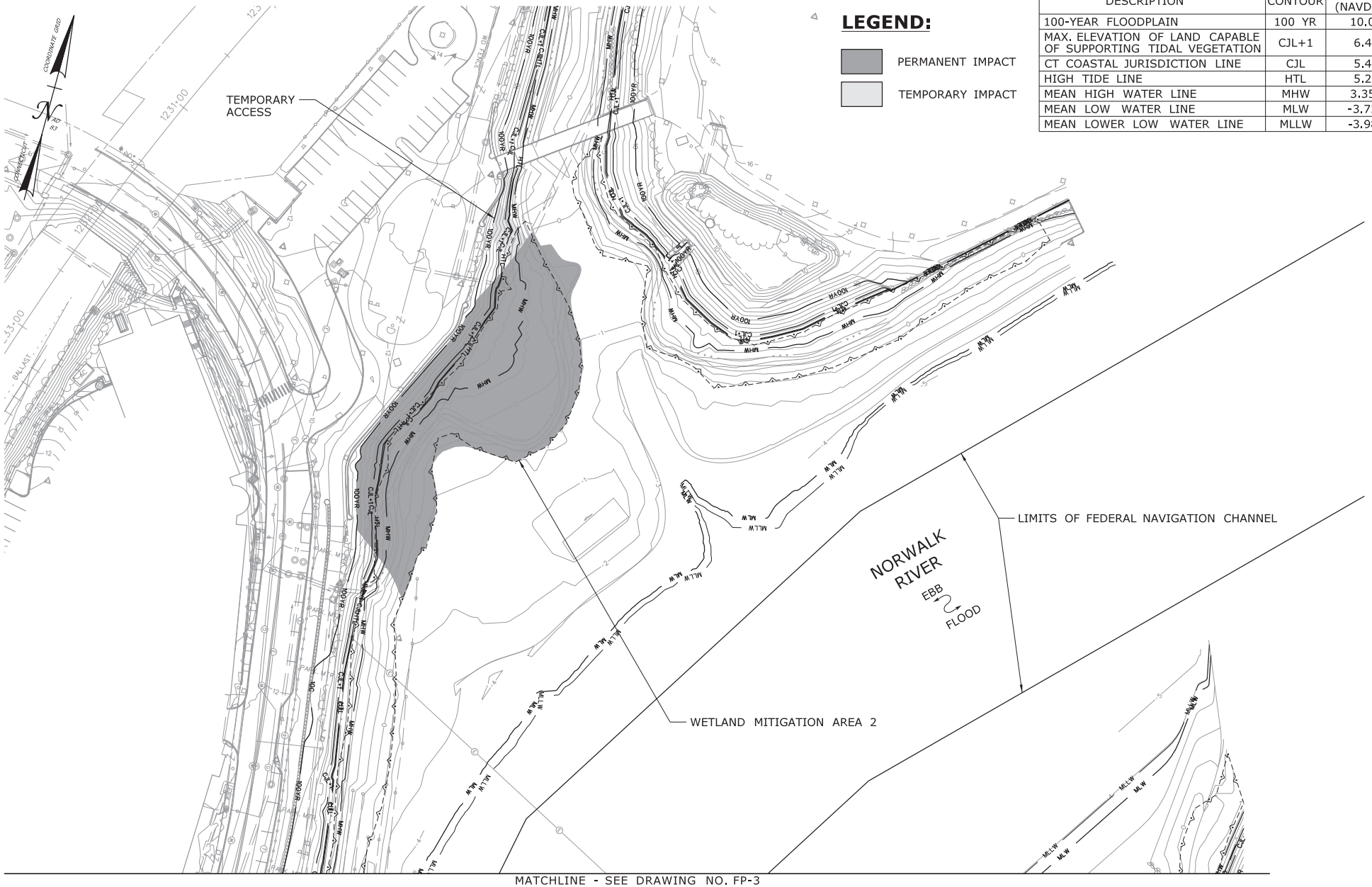
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: NORWALK

DRAWING TITLE:
KEY PLAN FLOODPLAIN IMPACTS (SHEET 2 OF 11)

PROJECT NO.: 0301-0176
DATE: 8-28-19
DRAWING NO.: FP-1A



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

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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: **PLAN FLOODPLAIN IMPACTS (SHEET 3 OF 11)**

DATE: **8-28-19**

DRAWING NO.: **FP-2**

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

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

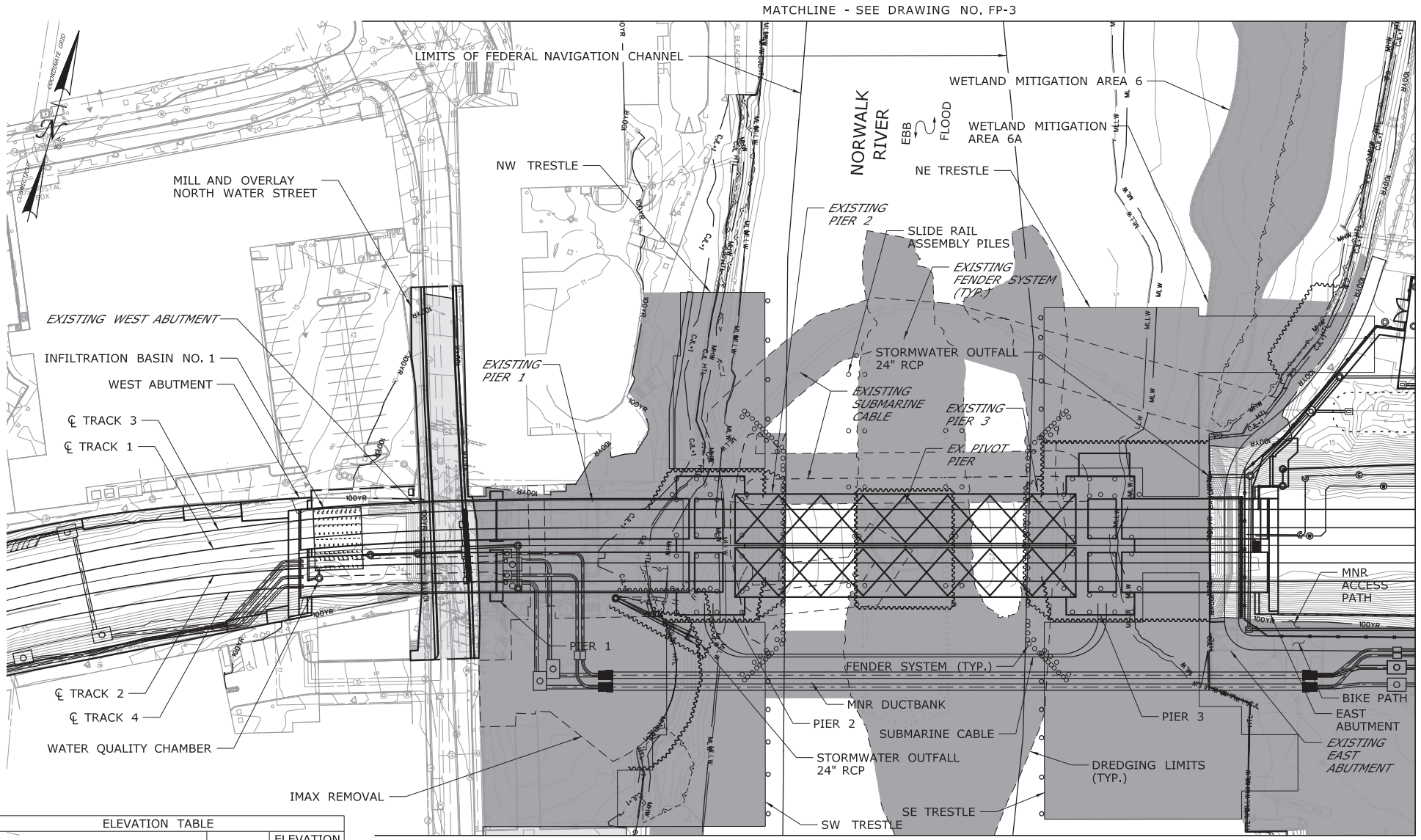
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 4 OF 11)**

DATE: **8-28-19**

DRAWING NO.: **FP-3**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

LEGEND:

- PERMANENT IMPACT
- TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

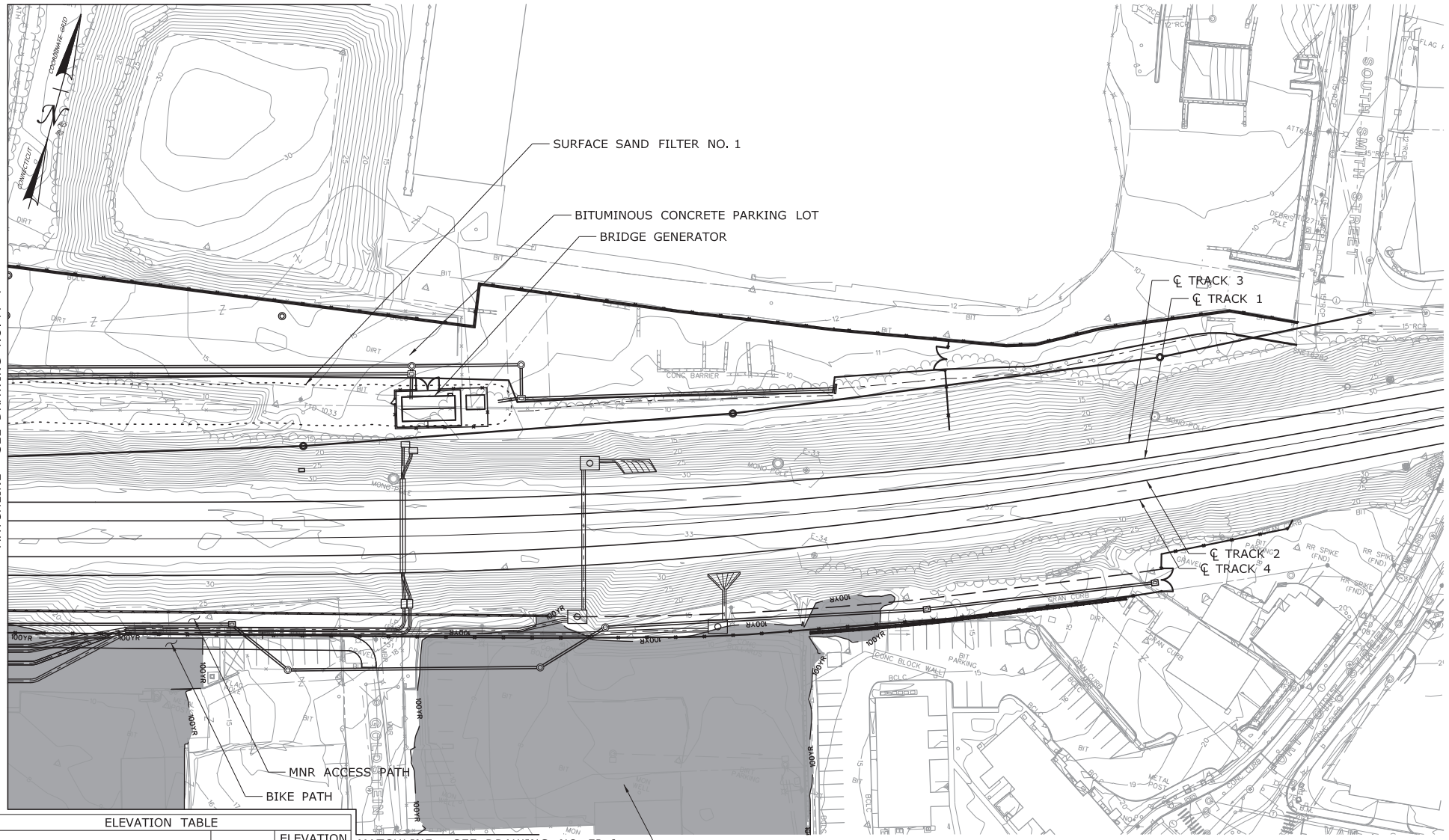
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 5 OF 11)**

DATE: **8-28-19**

DRAWING NO.: **FP-4**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	13.0
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

LEGEND:

- PERMANENT IMPACT
- TEMPORARY IMPACT

SCALE: SCALE 1" = 100'
0 50 100

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

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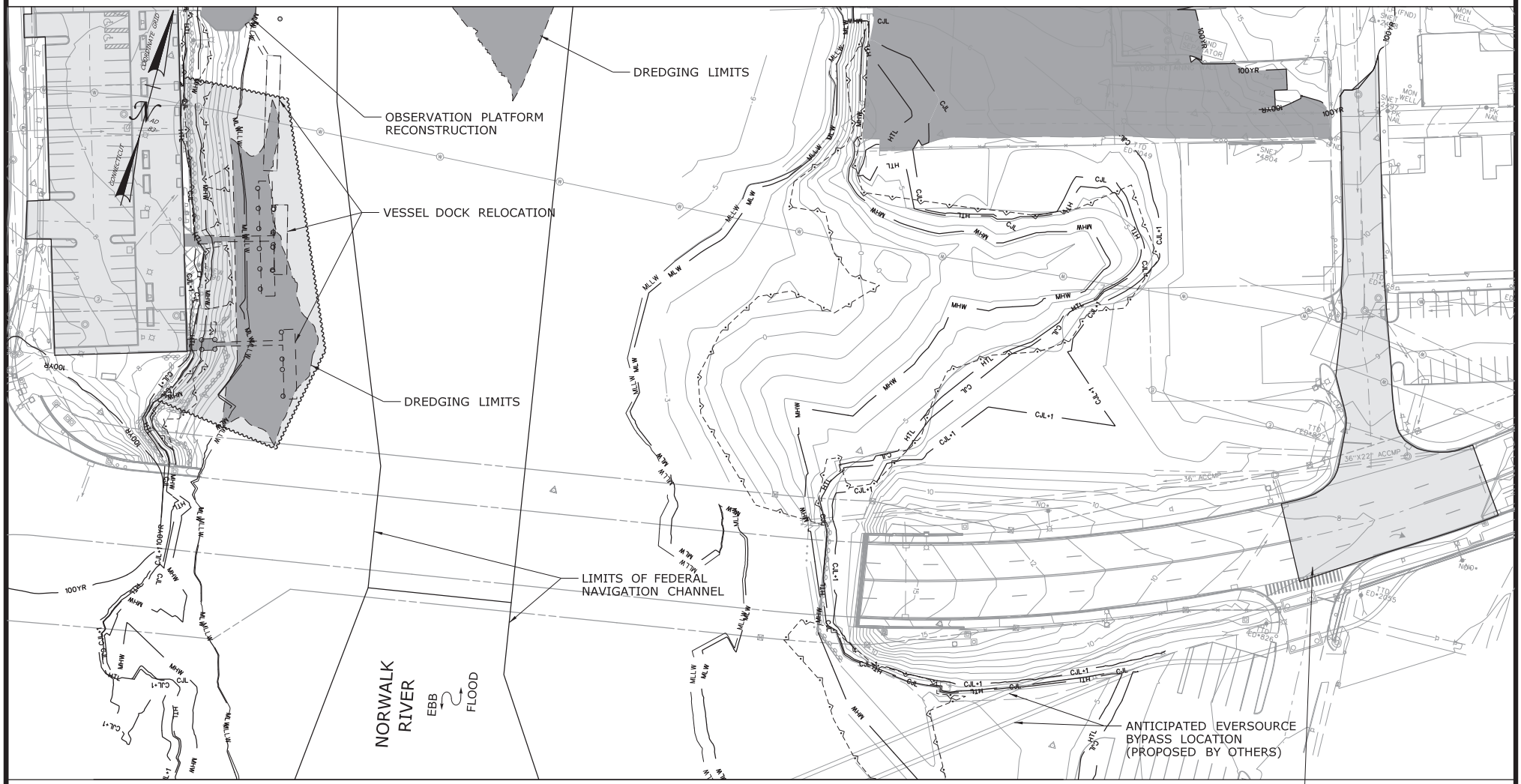
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 6 OF 11)**
DATE: **8-28-19**
DRAWING NO.: **FP-5**



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0
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

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

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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

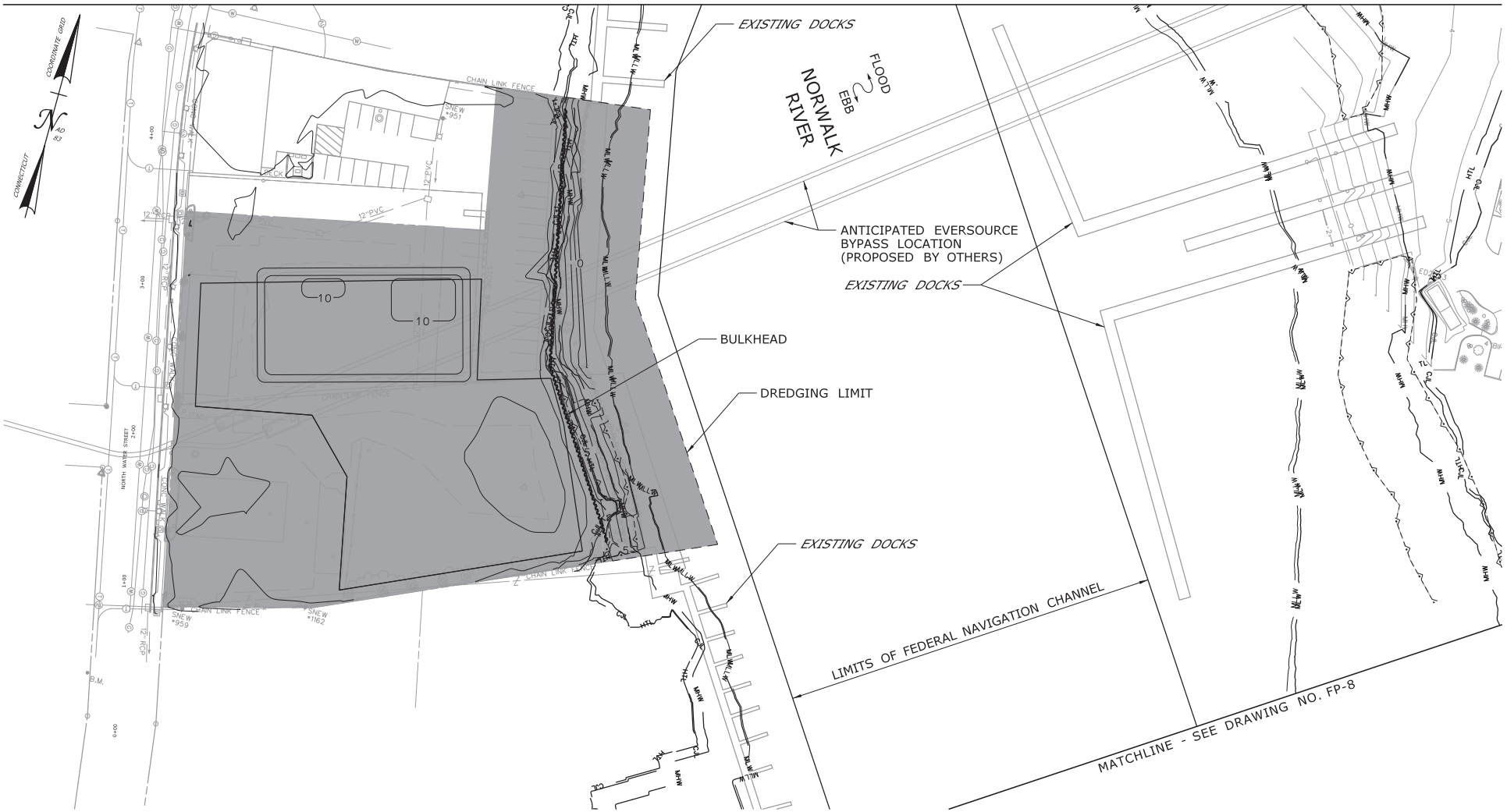
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 7 OF 11)**

DATE: **8-28-19**

DRAWING NO.: **FP-6**



ELEVATION TABLE		
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

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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: PLAN FLOODPLAIN IMPACTS (SHEET 8 OF 11)

DATE: 8-28-19

DRAWING NO.: FP-7

ELEVATION TABLE		
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

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

- PERMANENT IMPACT
- TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

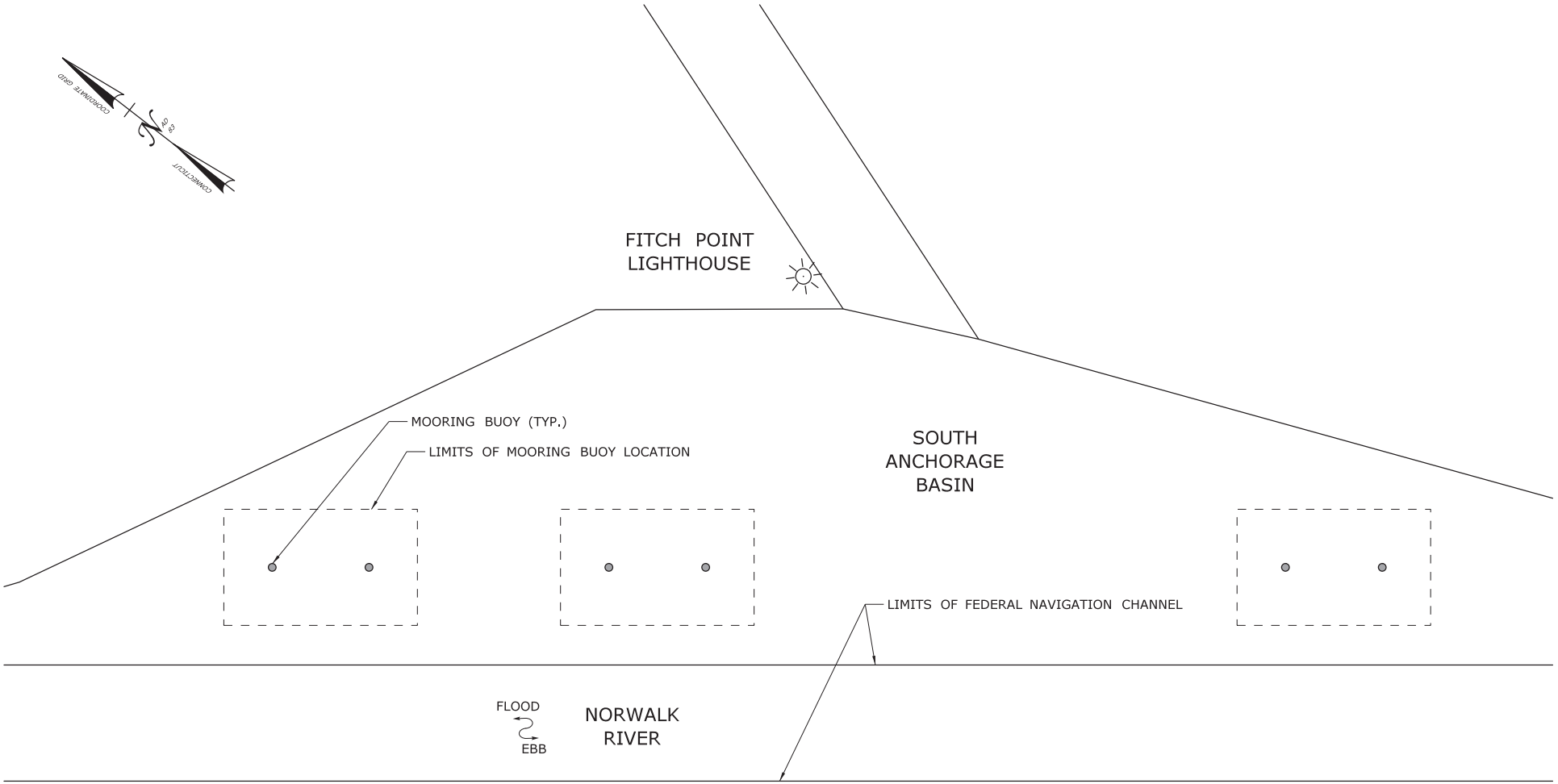
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 9 OF 11)**

DATE: **8-28-19**

DRAWING NO.: **FP-8**



ELEVATION TABLE		
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

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE:

SCALE 1" = 200'

0 100 200

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

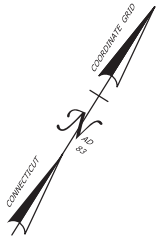
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 10 OF 11)**

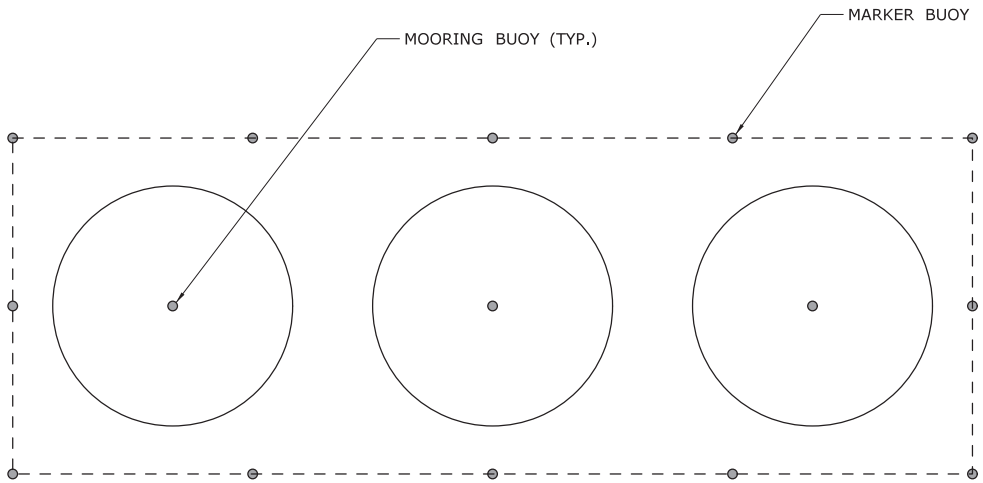
DATE: **8-28-19**

DRAWING NO.: **FP-9**



GREENS LEDGE LIGHTHOUSE

LONG ISLAND SOUND



ELEVATION TABLE		
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

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE:

SCALE 1" = 400'

0 200 400

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

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

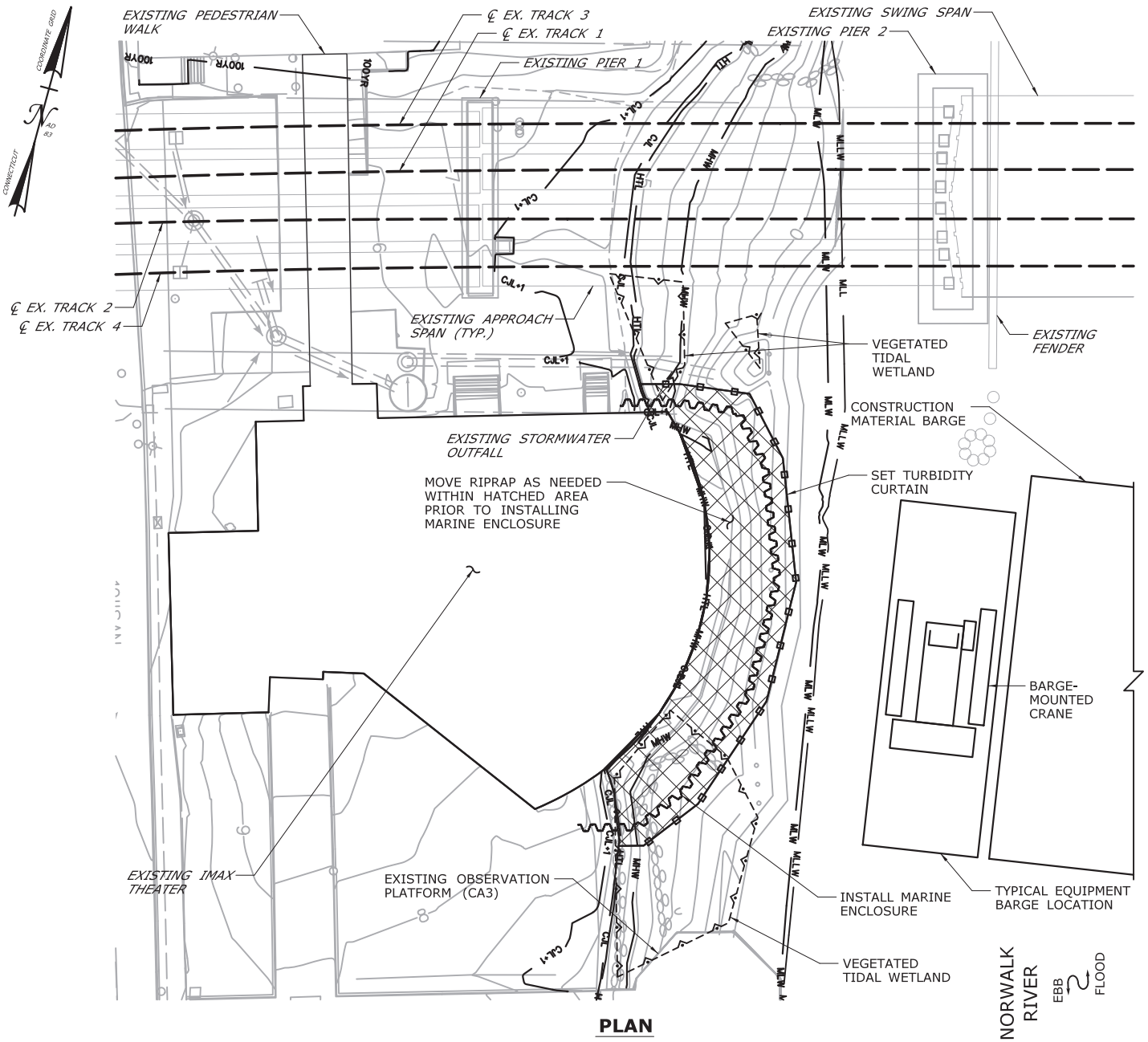
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 11 OF 11)**

DATE: **8-28-19**

DRAWING NO.: **FP-10**



PLAN

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
X	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
X	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE.
	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. 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. BARGES WILL BE MOORED TO SPUD PILES (36" MAX.) IN THE RIVER.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

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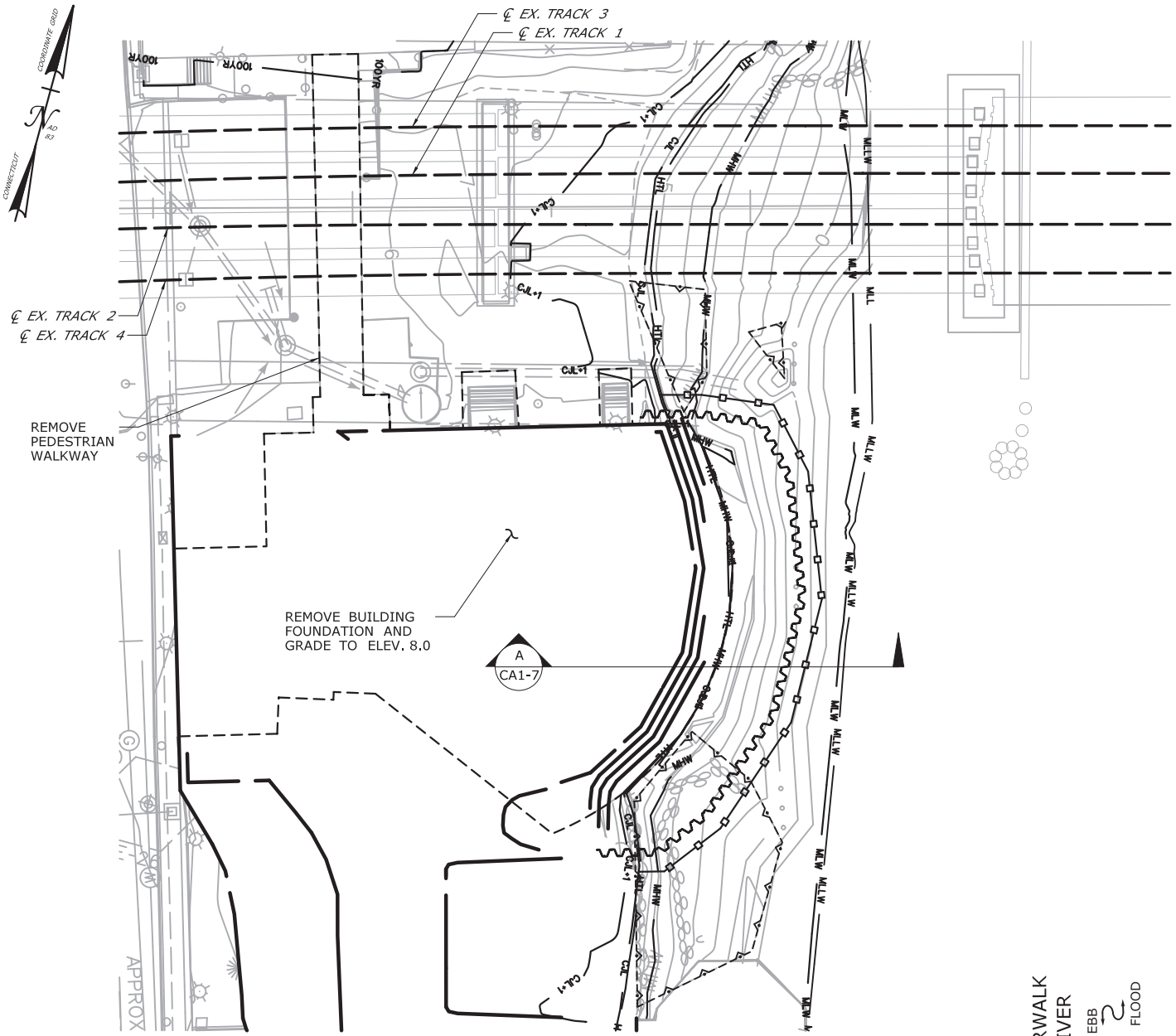
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 1 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-1**



PLAN

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	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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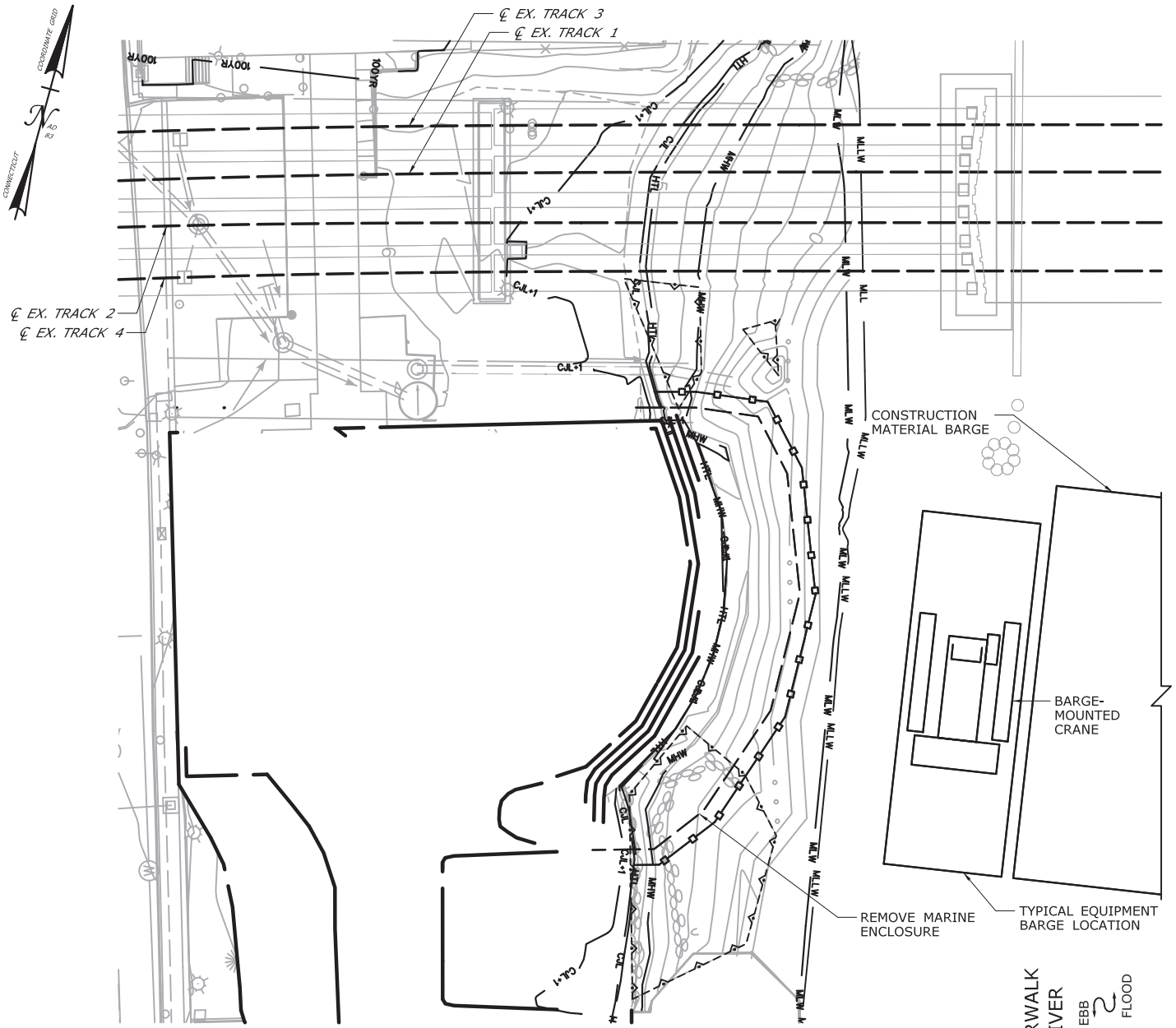
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 2 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-2**



PLAN

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.
X	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. SEE VESSEL BERTHING PLANS (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. BARGES WILL BE MOORED TO SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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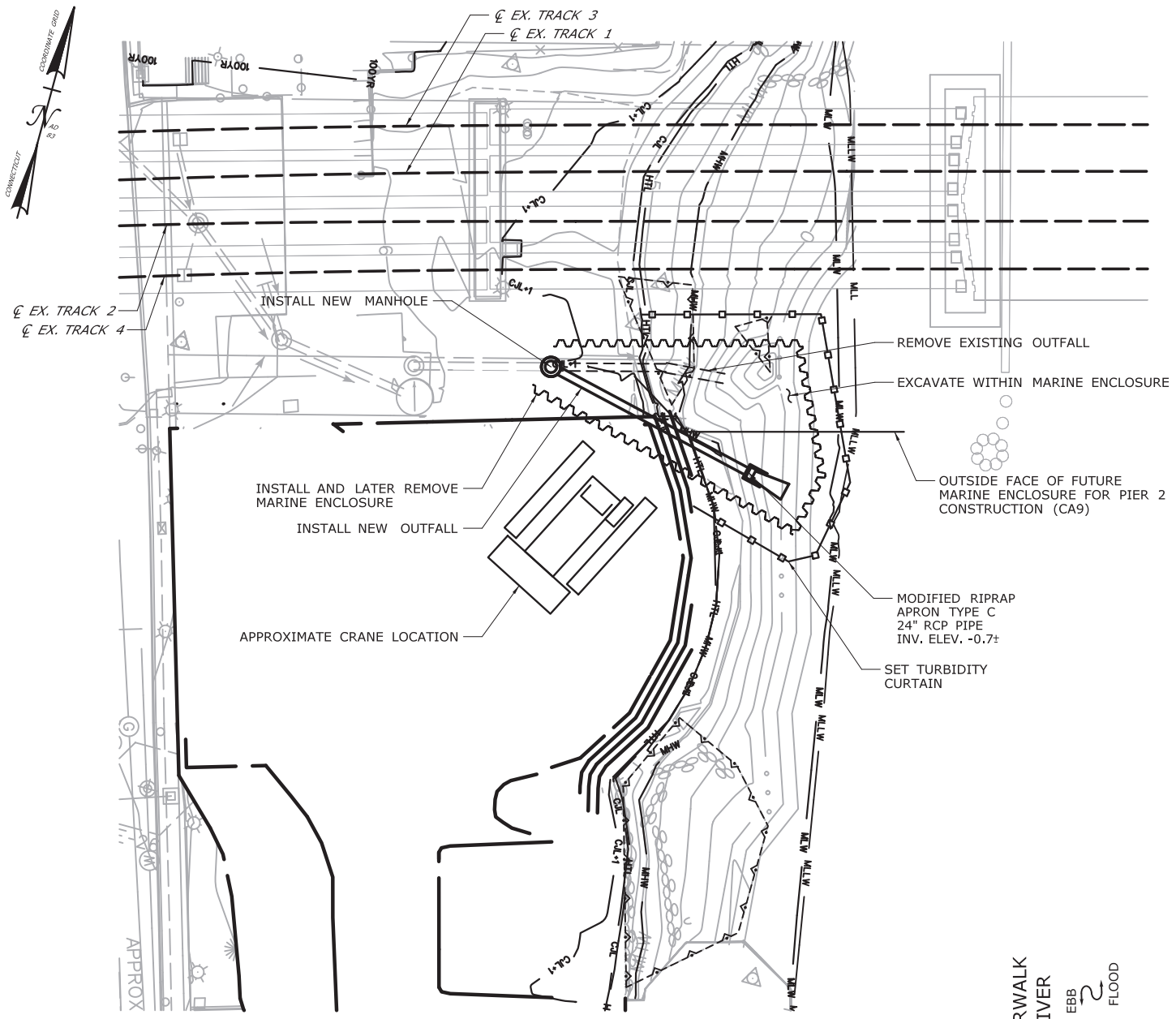
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 3 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-3**



PLAN

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	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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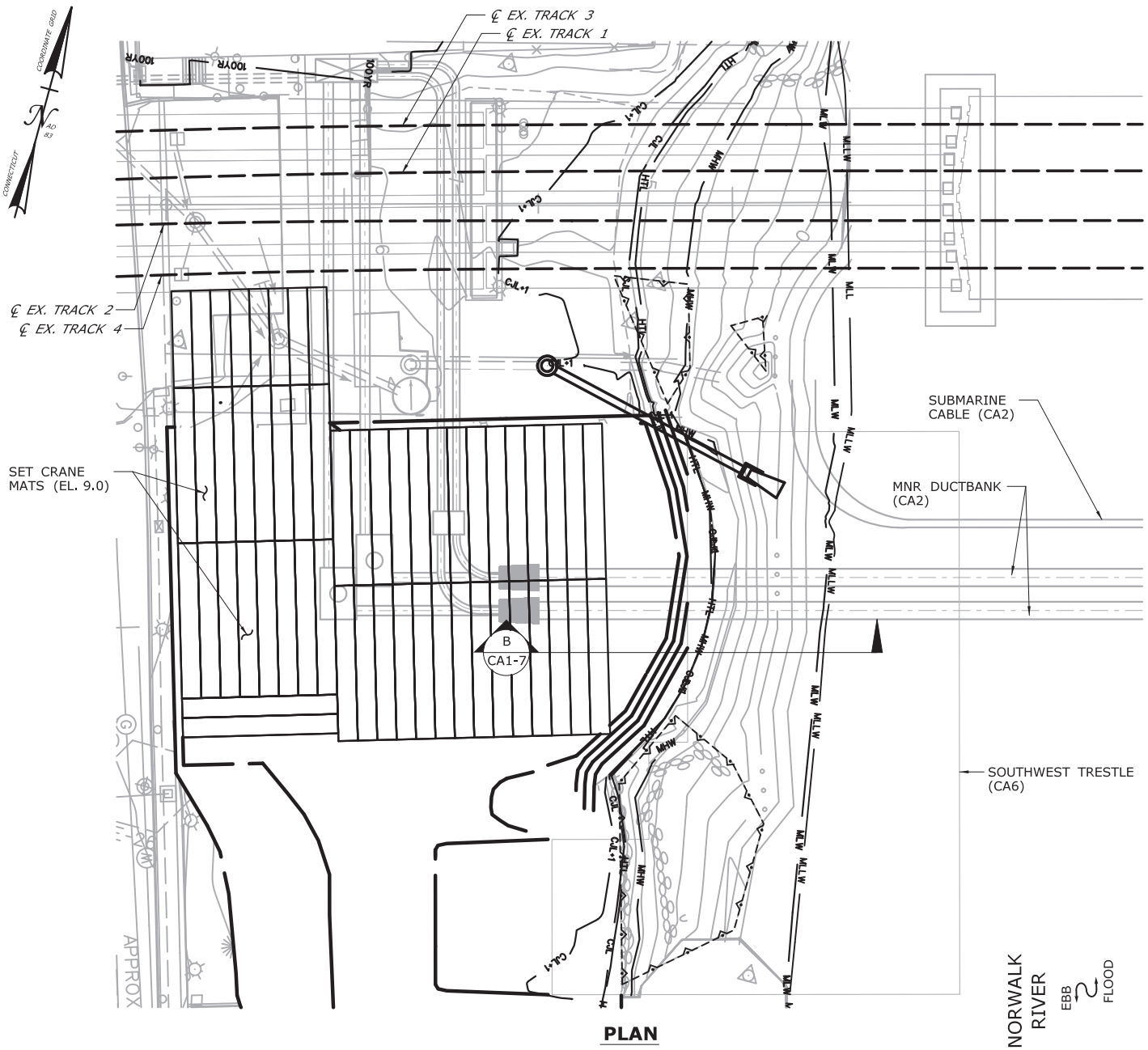
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 4 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-4**



PLAN

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.
	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.
X	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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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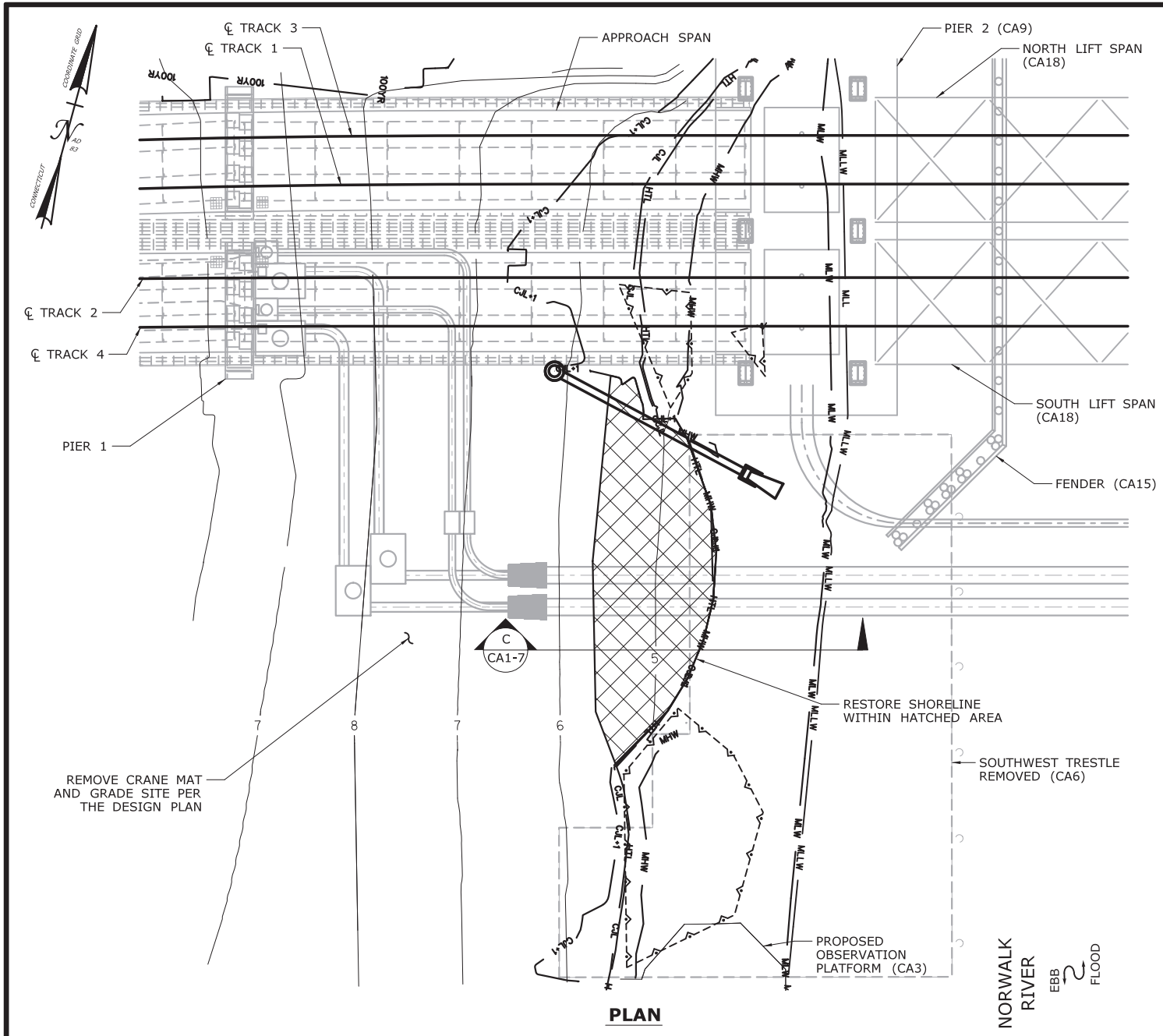
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 5 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-5**



PLAN

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.
	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.
X	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. SHORELINE RESTORATION TO MATCH EXISTING MATERIAL FOR EROSION CONTROL TO THE CJL ELEVATION. AREAS ABOVE THE CJL ELEVATION TO BE RESTORED WILL BE TREATED WITH APPROPRIATE FERTILIZER, SEED AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

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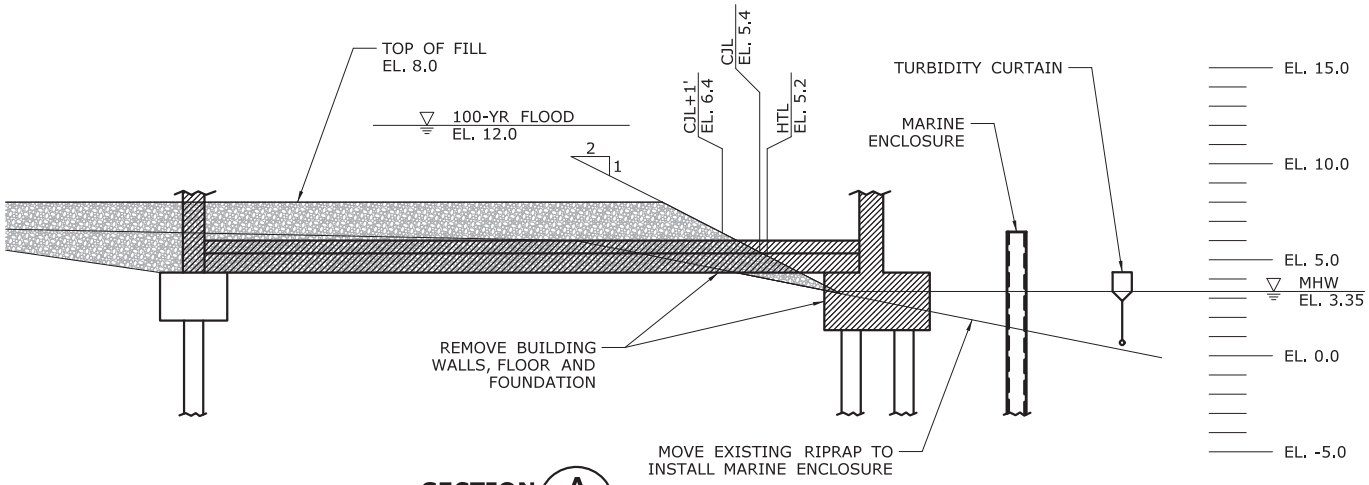
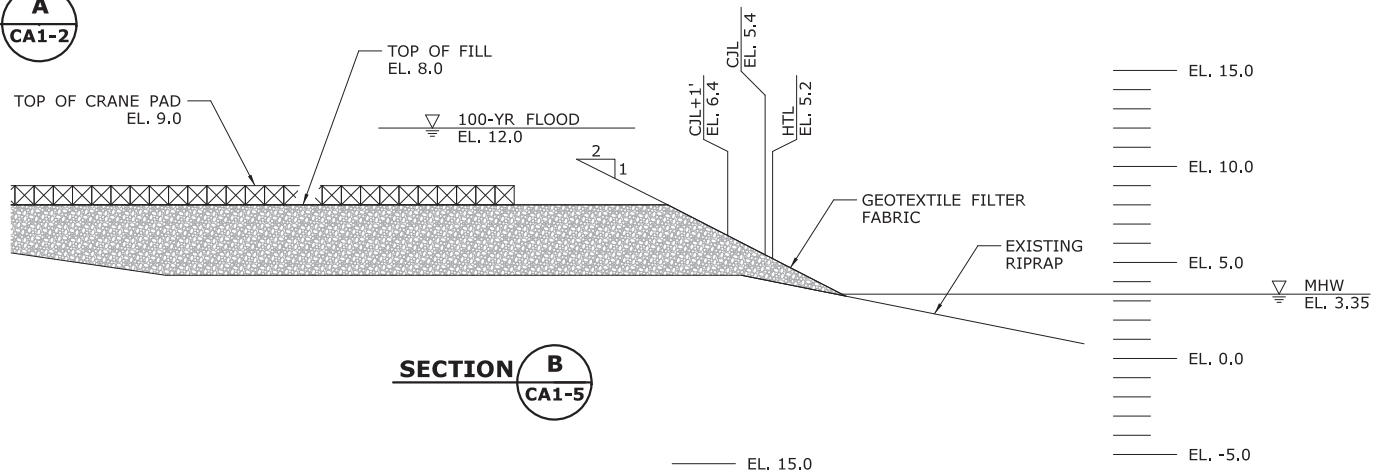
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

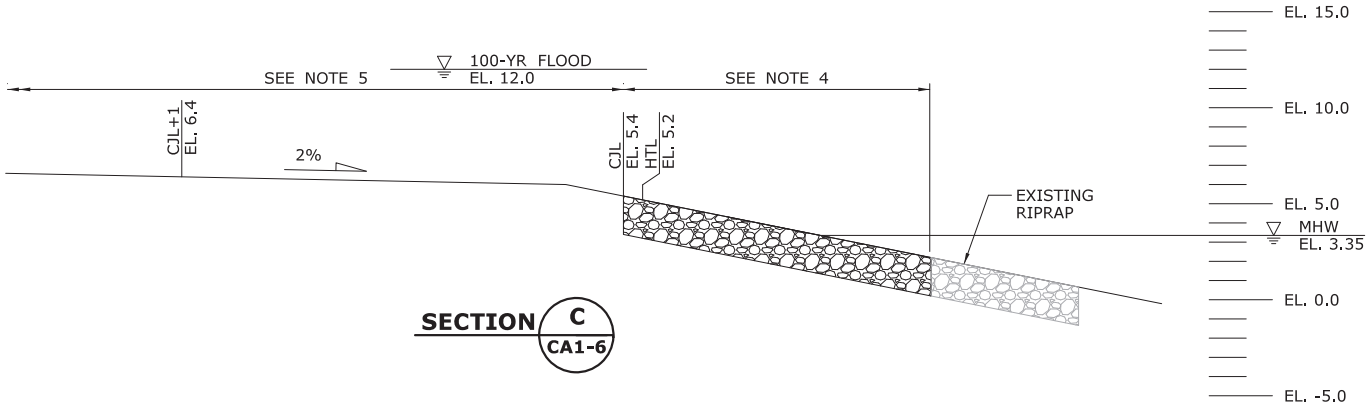
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 6 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-6**



SECTION A / CA1-2



SECTION B / CA1-5



SECTION C / CA1-6

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
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. MATCH EXISTING MATERIAL AND TREATMENT ALONG SHORELINE FOR EROSION CONTROL.
5. TREAT SLOPE WITH APPROPRIATE FERTILIZER, SEED AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
6. GEOTEXTILE FILTER FABRIC WILL BE USED IF FILL IS PLACED BELOW THE 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	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

SCALE:
SCALE IN FEET
0 5 10
SCALE 1"=10'

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 29695 · LICENSED PROFESSIONAL ENGINEER

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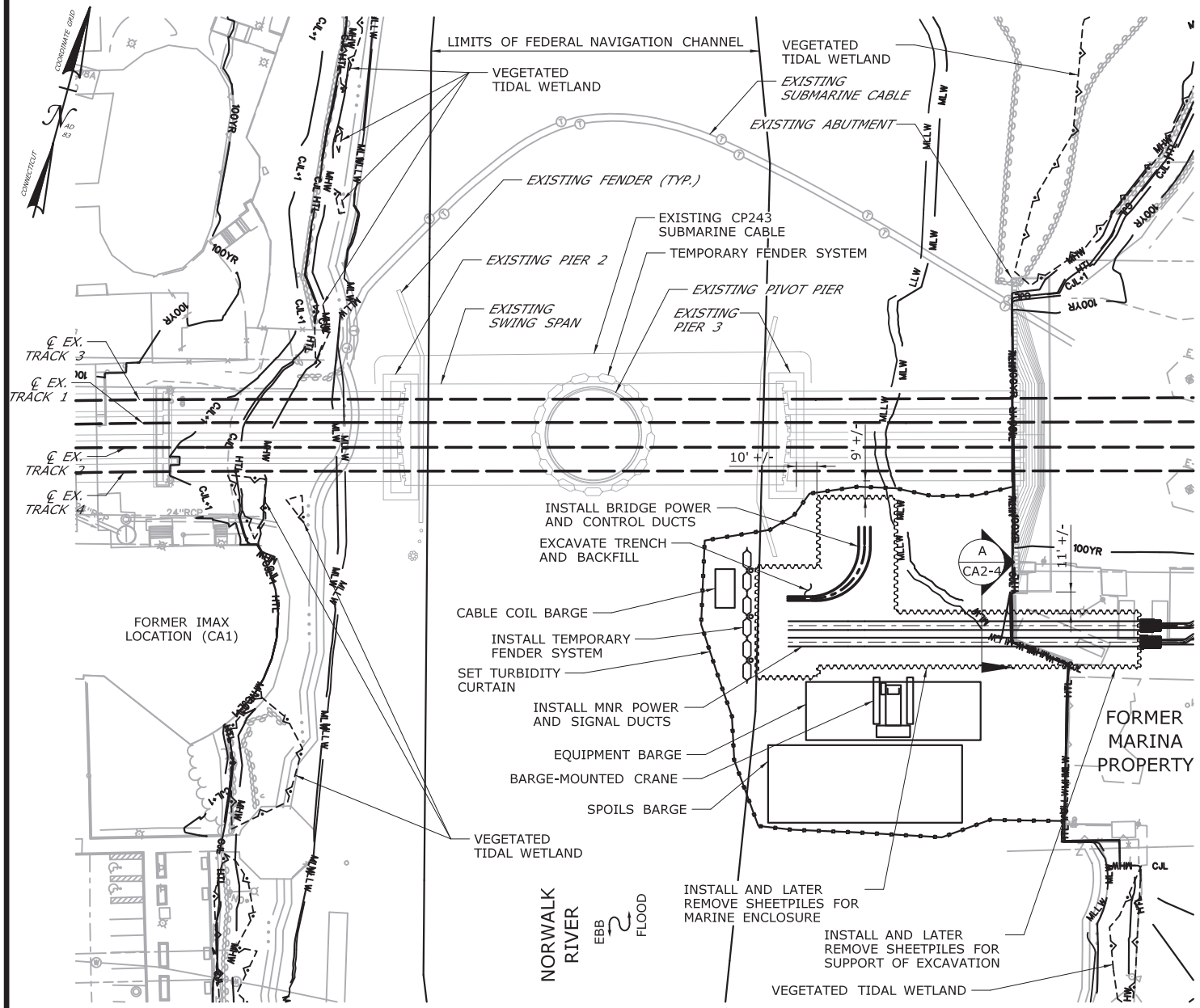
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 7 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA1-7**



PLAN

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.

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 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

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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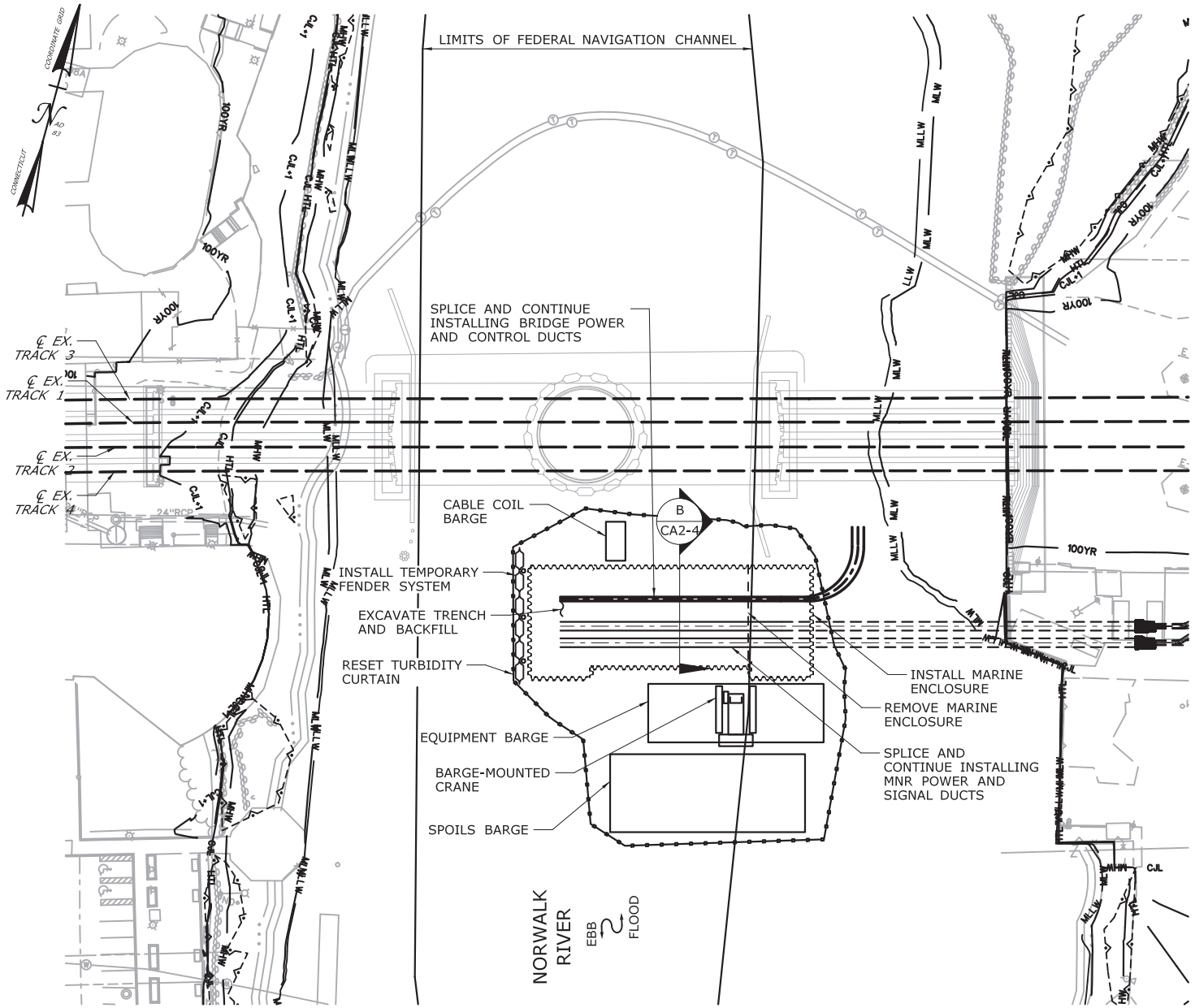
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: NORWALK
PROJECT NO.: 0301-0176
DRAWING TITLE: ACTIVITY 2 DUCTBANK INSTALLATION (1 OF 4)
DATE: 8-28-19
DRAWING NO.: CA2-1



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. 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	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

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

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

SIGNATURE BLOCK:
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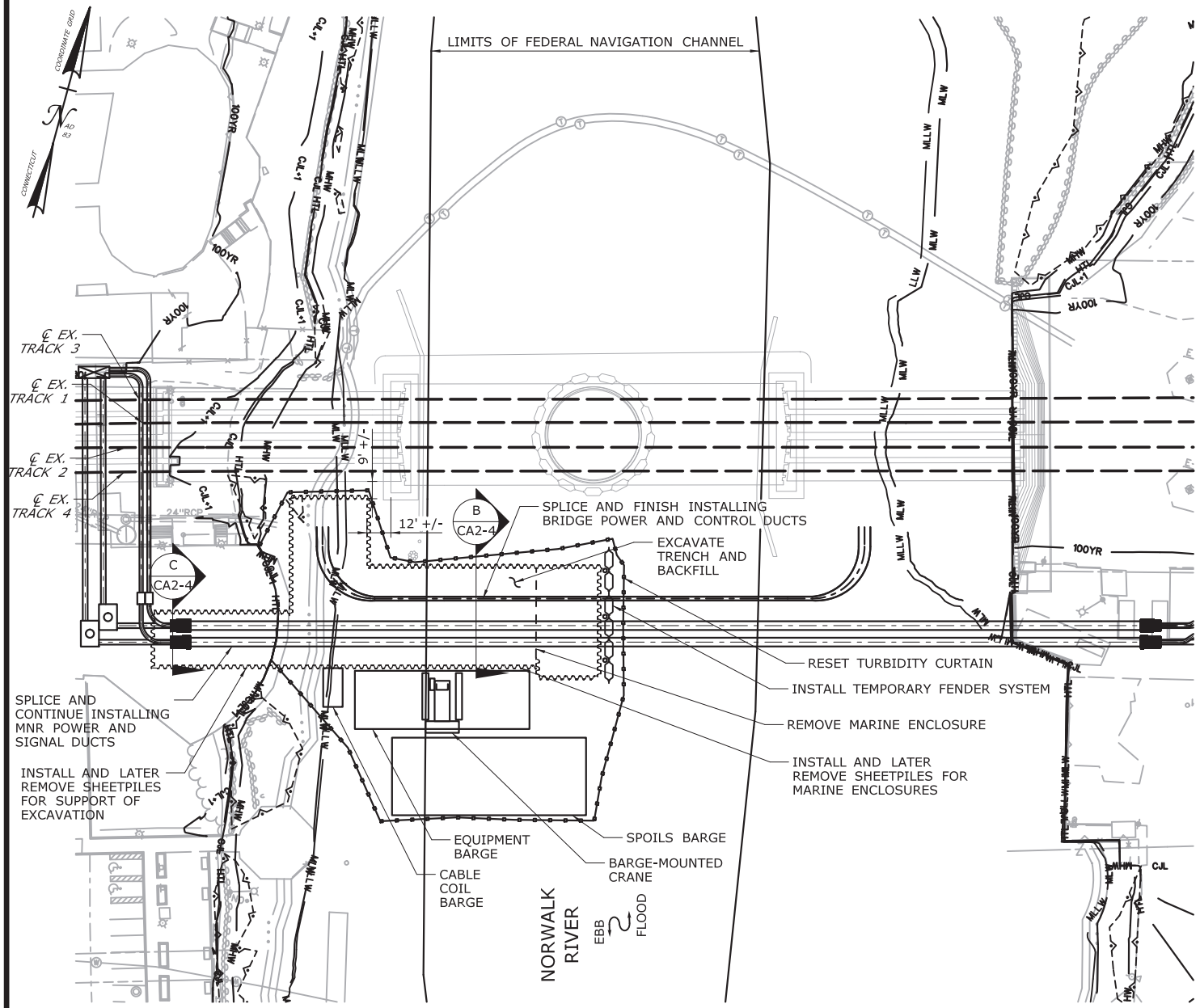
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (2 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA2-2**



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.
	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		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
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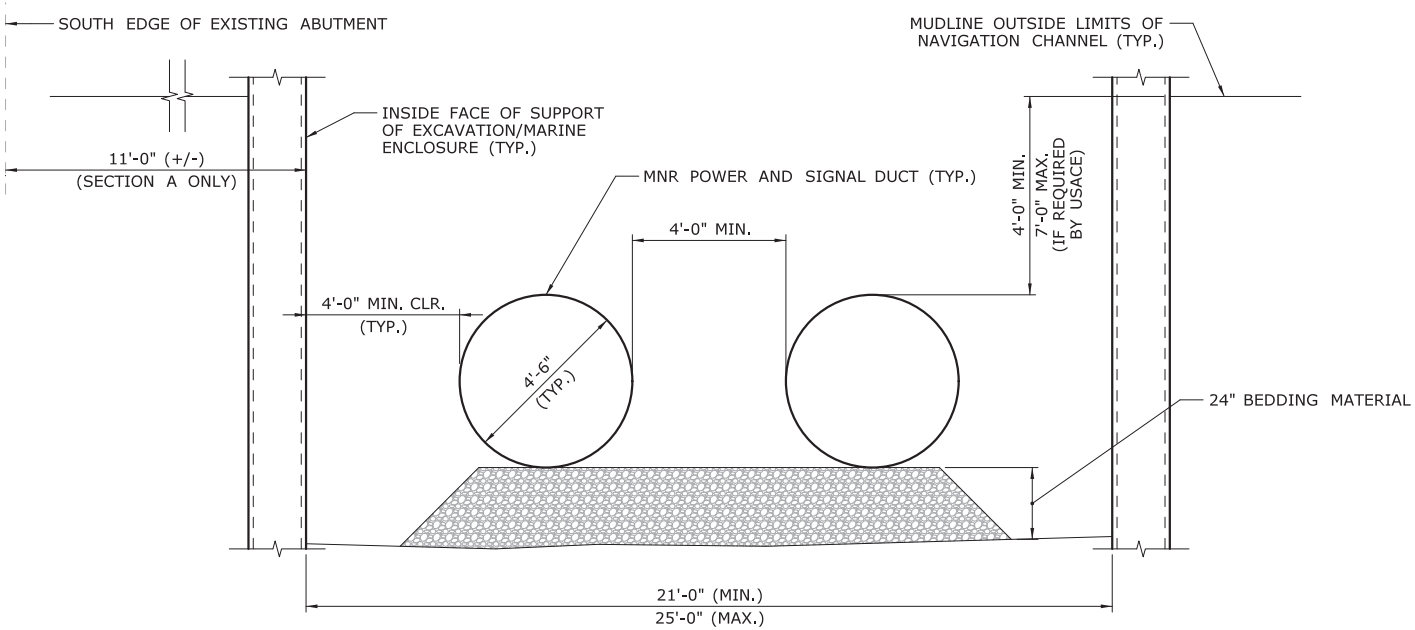
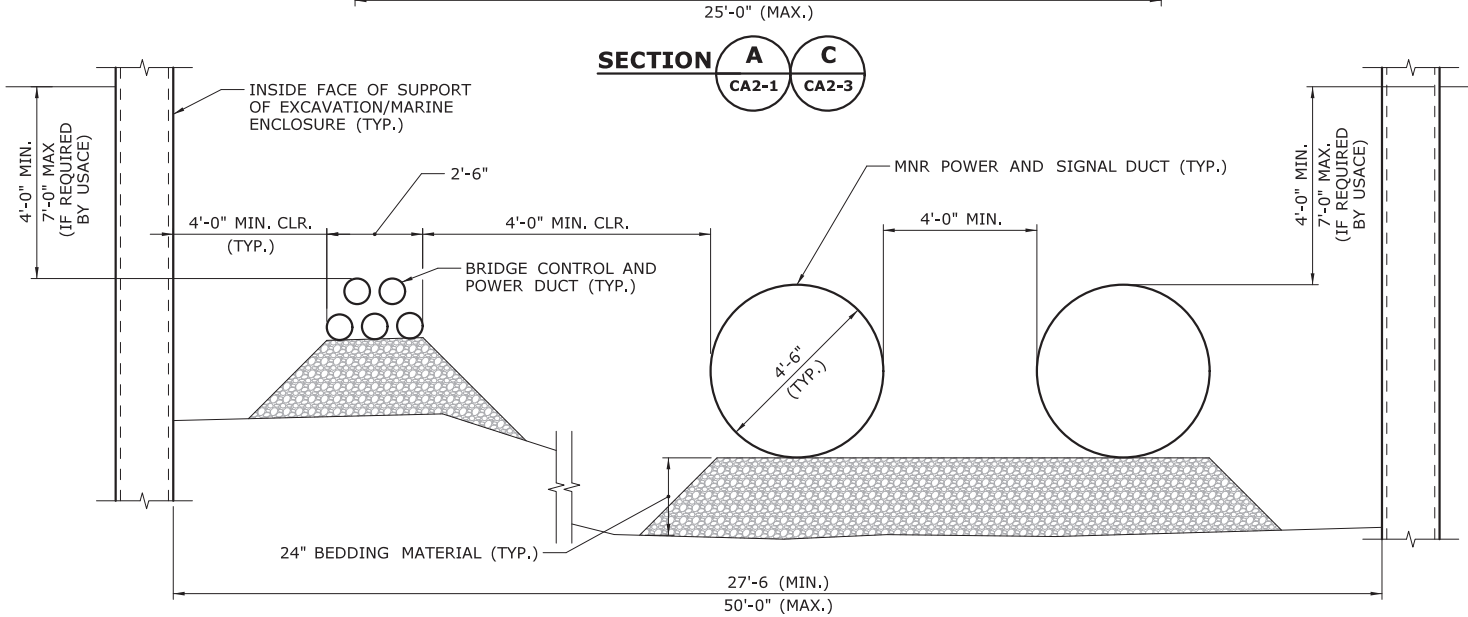
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (3 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA2-3**



SECTION A / CA2-1 — C / CA2-3



SECTION B / CA2-2 — B / CA2-3

NOTES:

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 CONSISTS 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	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

SCALE: NOT TO SCALE

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

SIGNATURE BLOCK:

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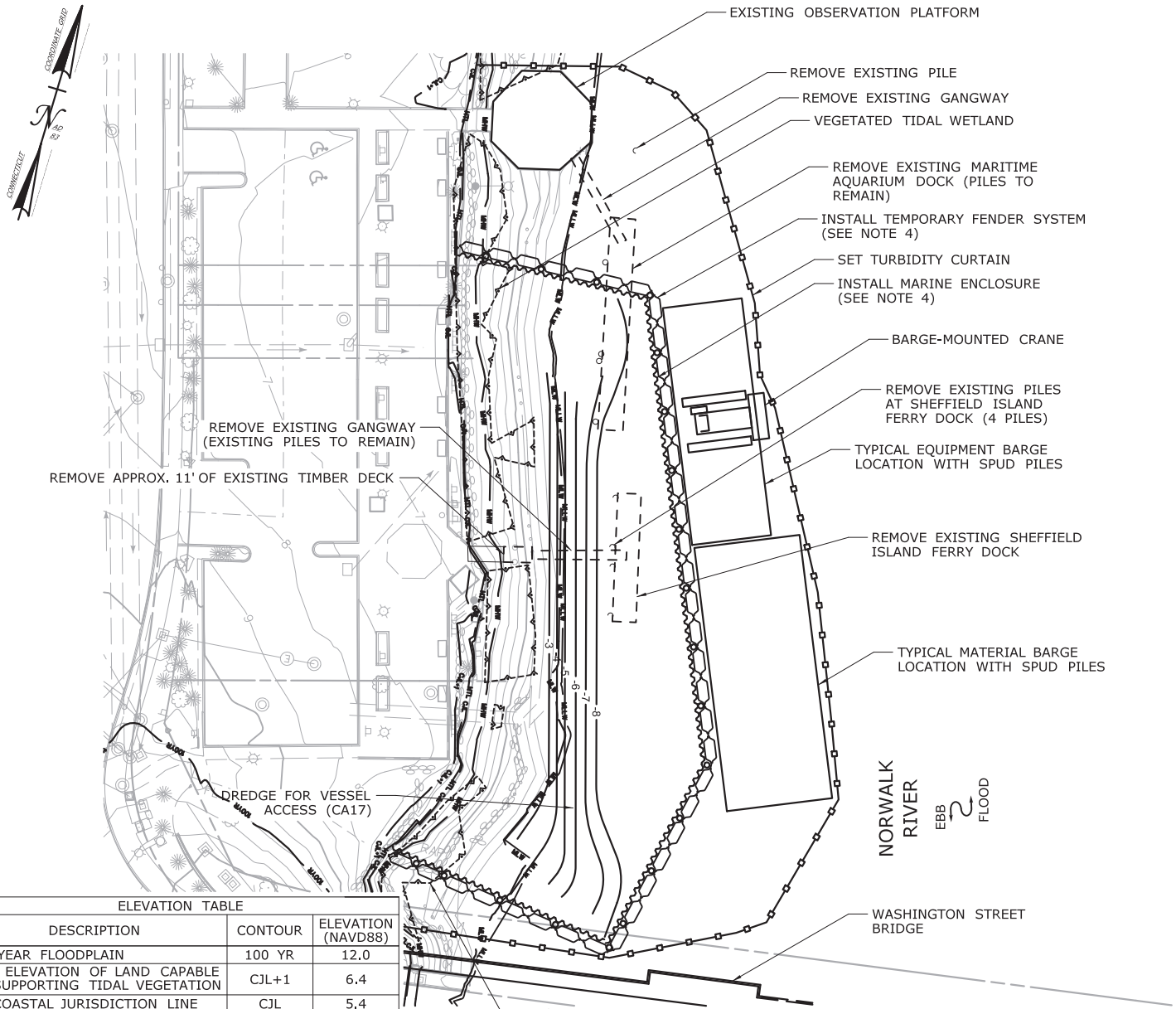
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (4 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA2-4**



PLAN

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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.

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

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

SIGNATURE BLOCK:
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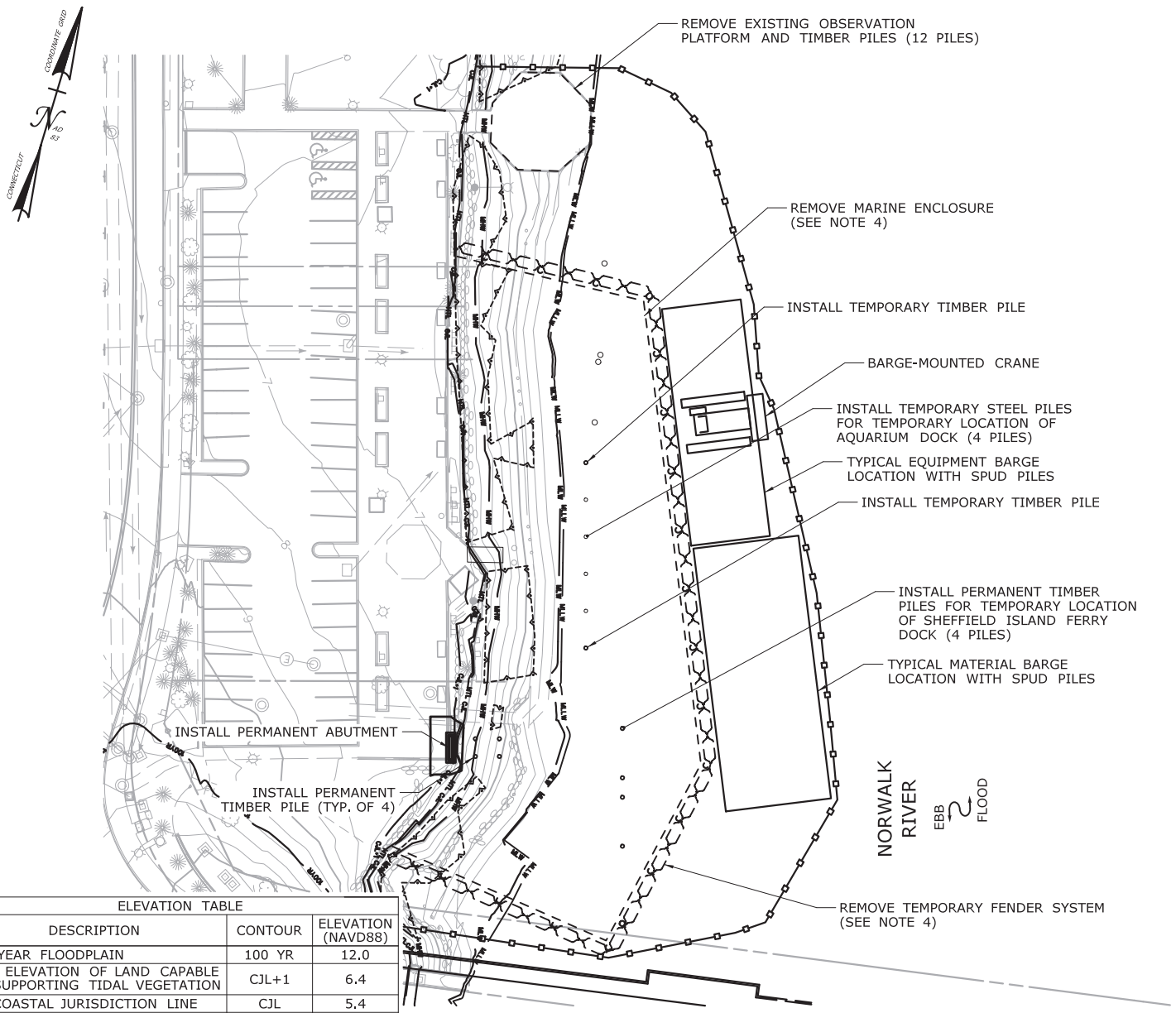
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 1 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA3-1**



PLAN

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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).
X	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.
X	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.

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

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

SIGNATURE BLOCK:
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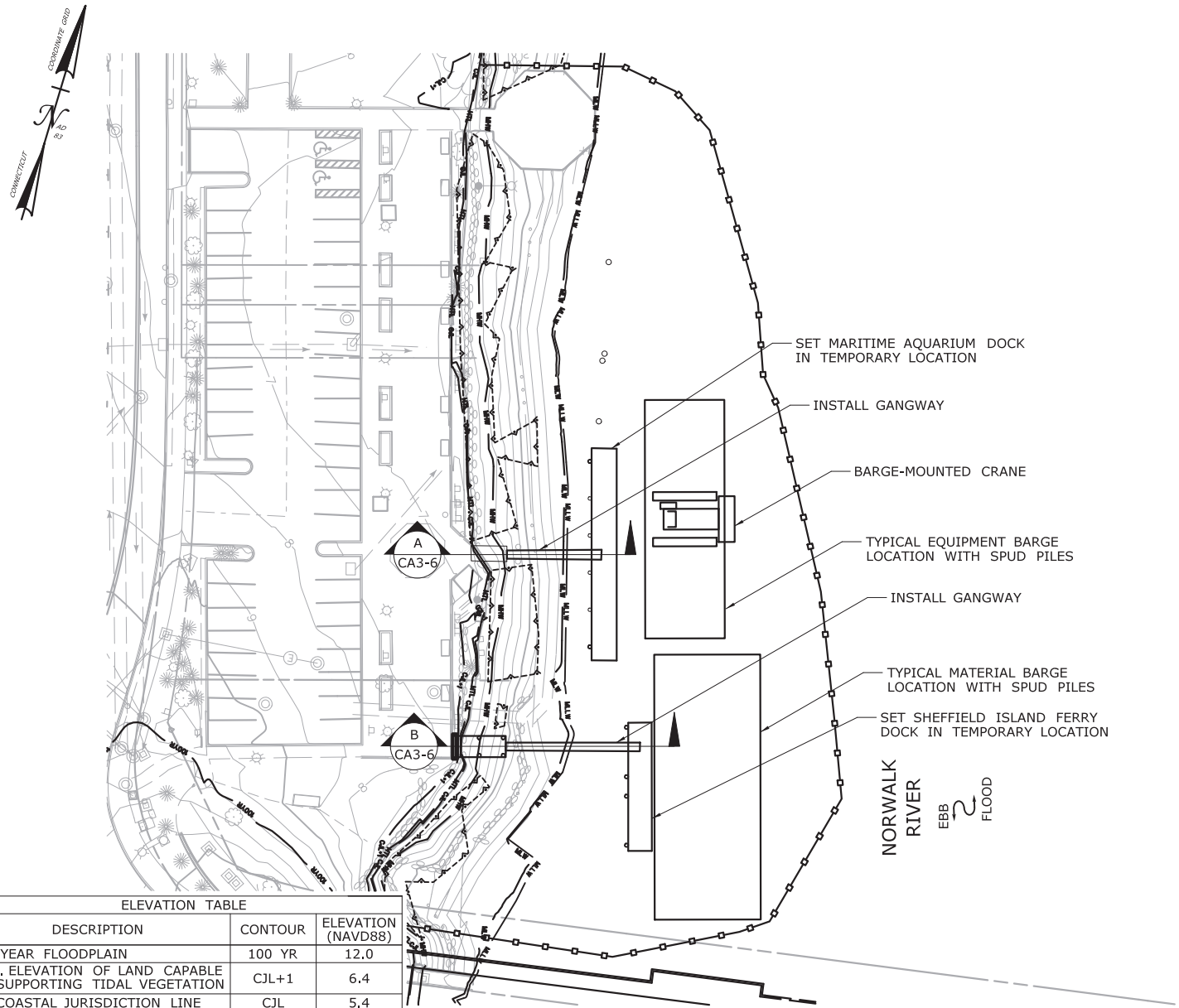
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 2 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA3-2**



PLAN

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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.
X	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.

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

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

SIGNATURE BLOCK:
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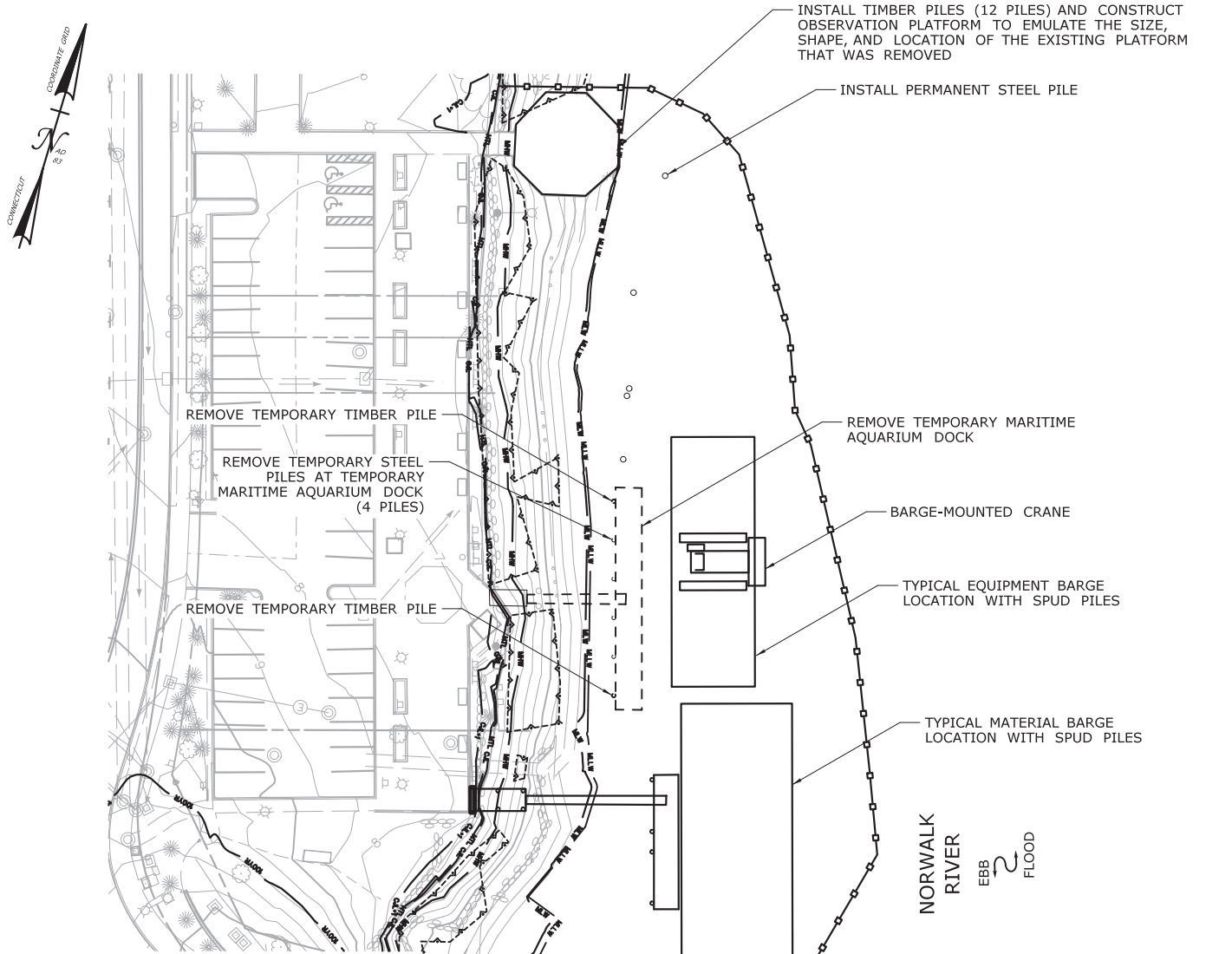
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 3 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA3-3**



PLAN

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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.
X	INSTALL PILES AND CONSTRUCT OBSERVATION PLATFORM.
X	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.

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

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

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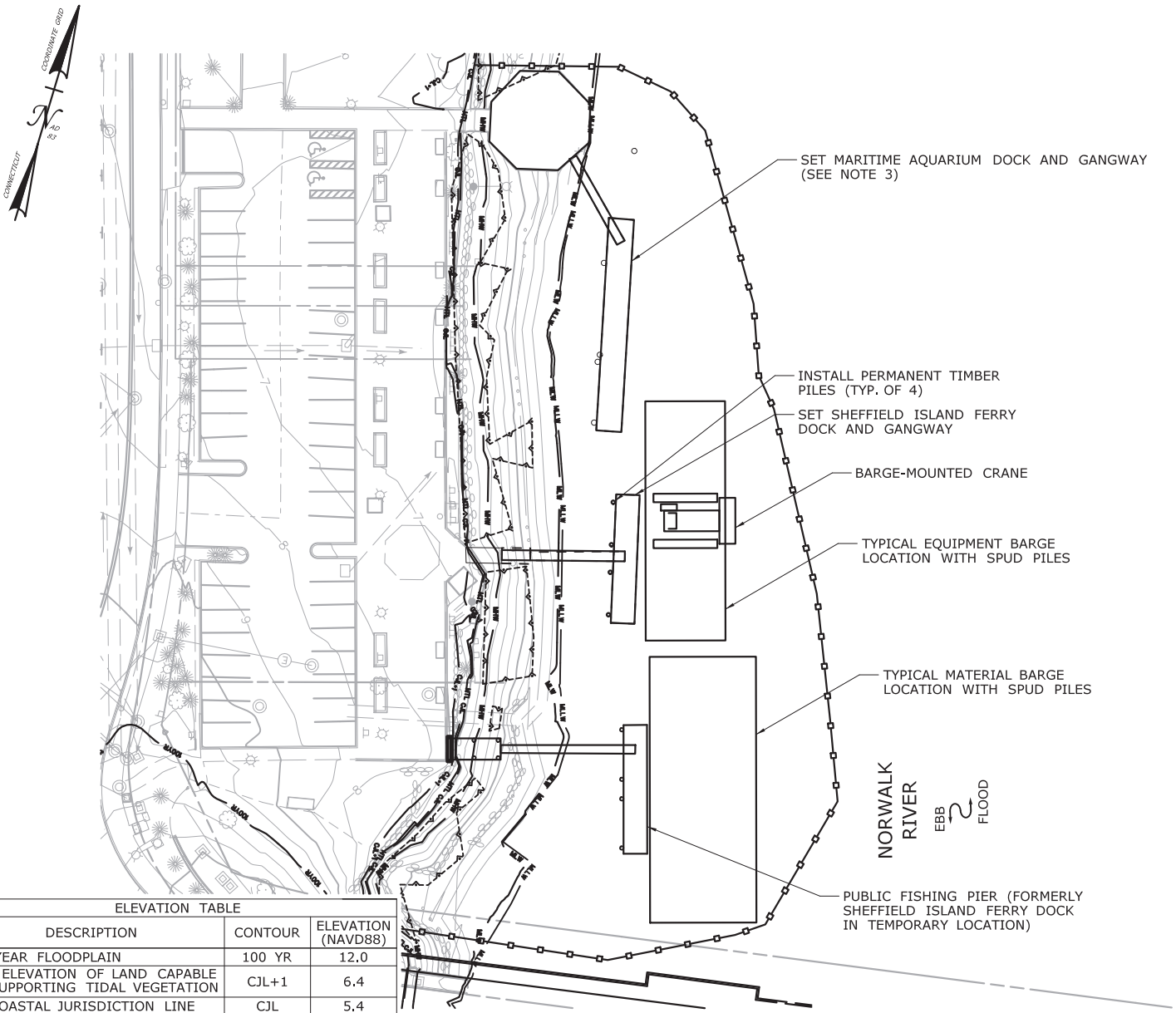
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 4 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA3-4**



PLAN

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

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

SIGNATURE BLOCK:
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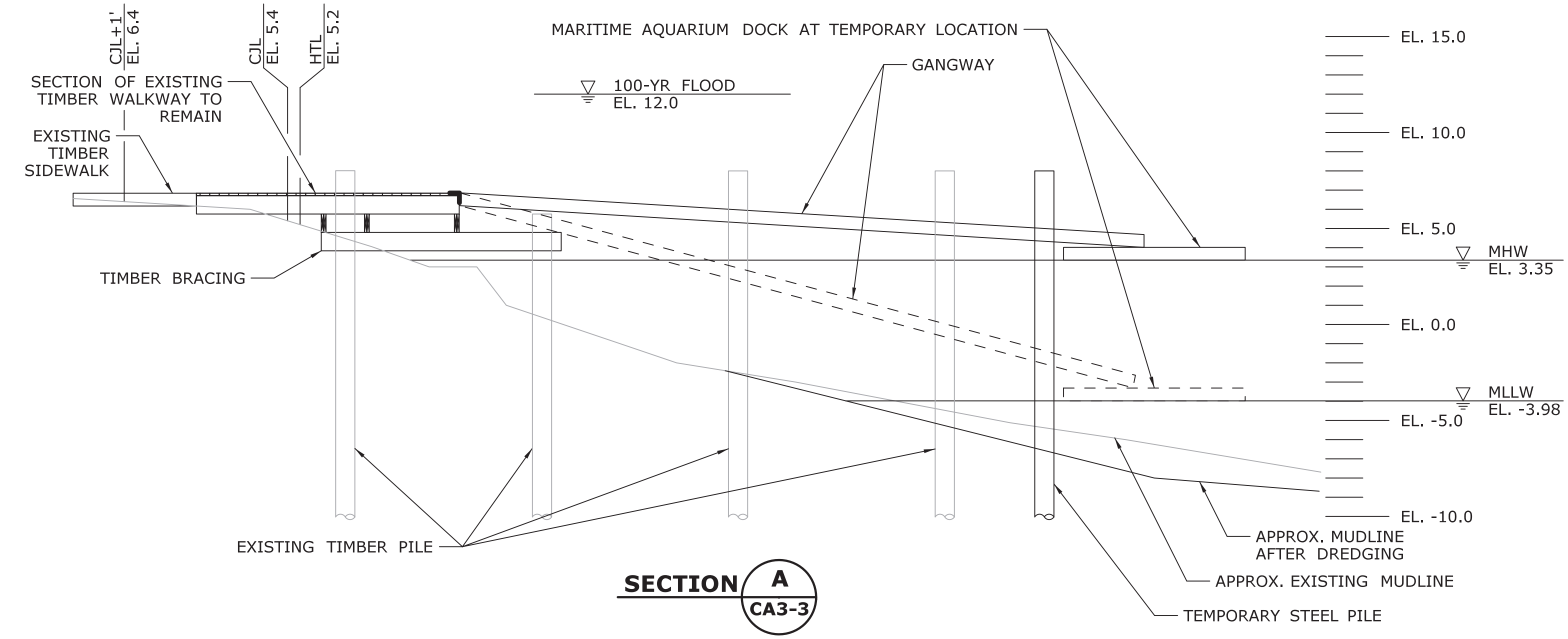
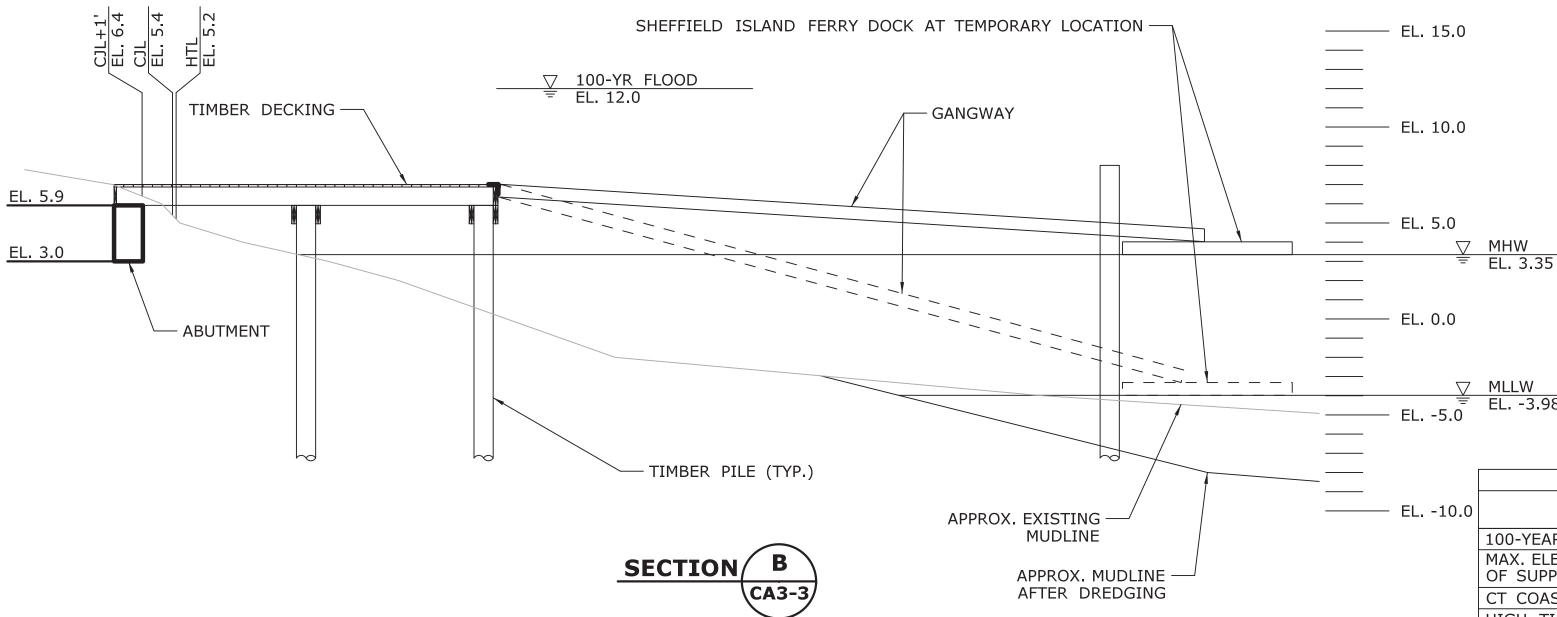
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 5 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA3-5**





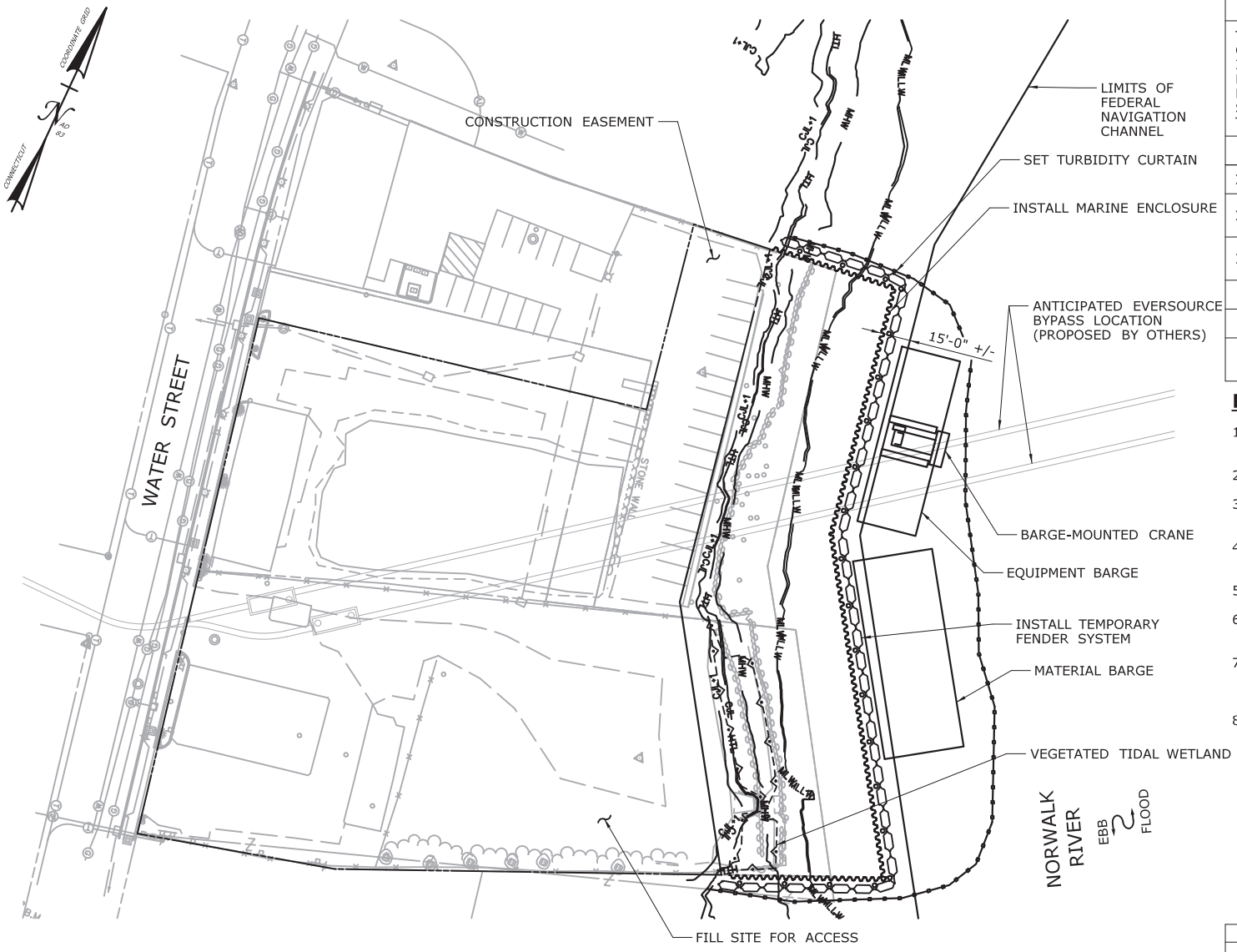
NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. SEE DWG. CA3-1 FOR ANTICIPATED PILE SIZES.
3. APPROXIMATE DREDGED RIVER BOTTOM AND SIDE SLOPES SHOWN. SEE ACTIVITY 17 FOR COMPLETE DREDGING LIMITS.
4. EXISTING PILES AT EXISTING SHEFFIELD ISLAND FERRY DOCK AND ALL TEMPORARY PILES WILL BE COMPLETELY REMOVED.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

SCALE: SCALE IN FEET 0 5 10 SCALE 1"=10'	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 3 VESSEL RELOCATION (SHEET 6 OF 6)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA3-6



PLAN

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. 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	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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — CHRISTOPHER J. BROWN — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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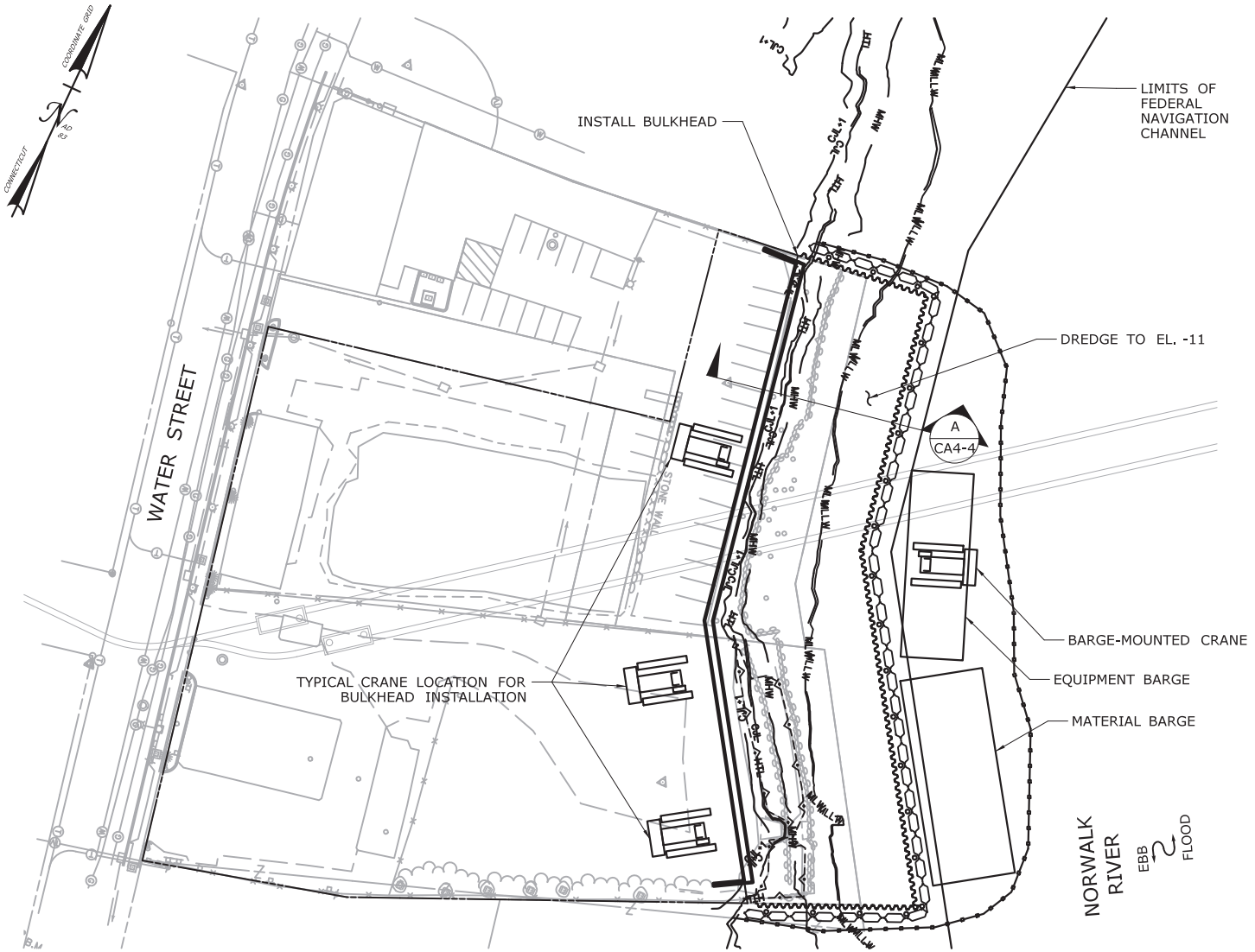
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 1 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA4-1**



PLAN

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	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

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

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

SIGNATURE BLOCK:
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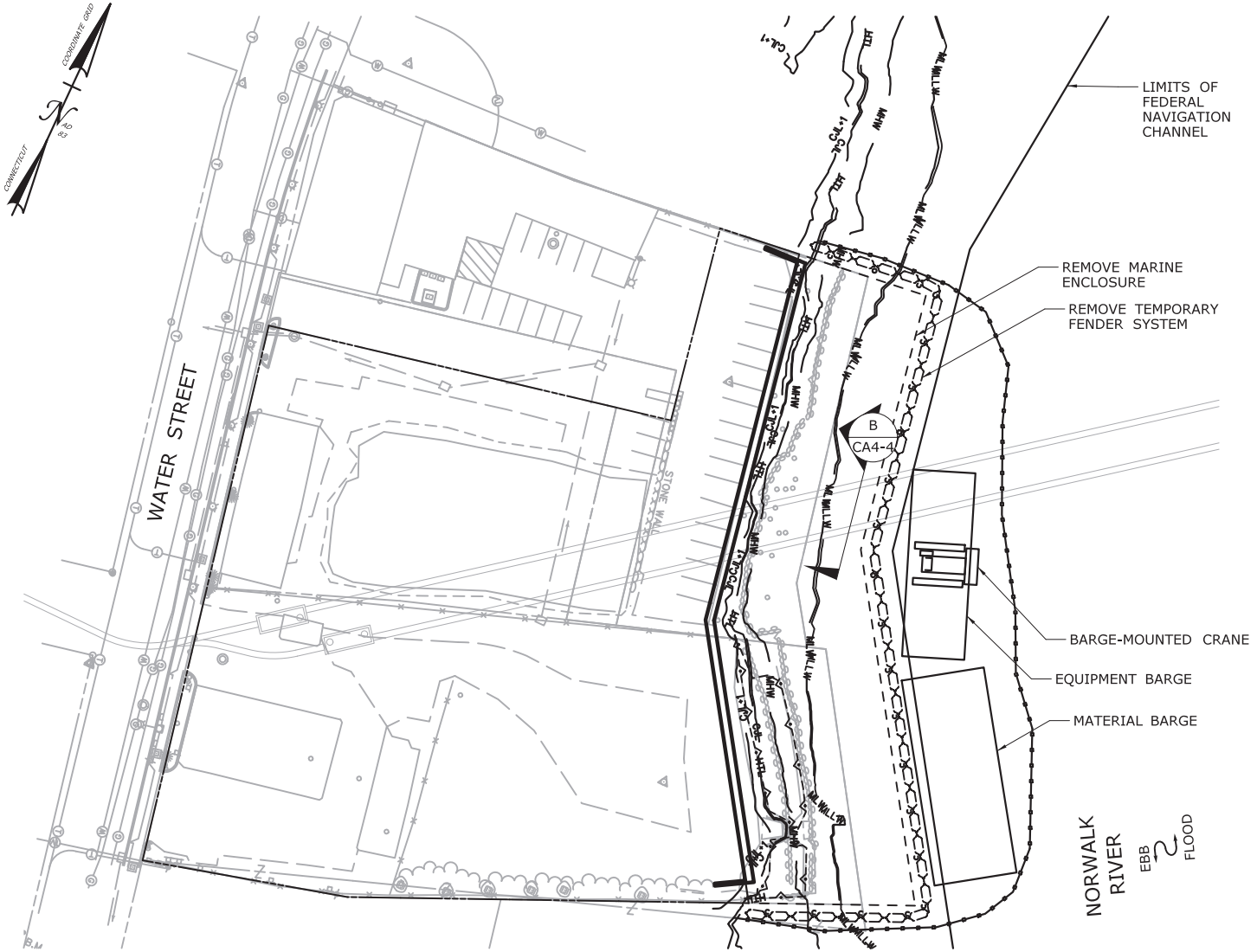
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 2 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA4-2**



PLAN

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.
	INSTALL BULKHEAD.
	DREDGE TO EL. -11 (SEE ACTIVITY 17).
X	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. BARGES WILL BE MOORED TO SPUD PILES (36" MAX.) IN THE RIVER.
5. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
6. 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	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

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

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

SIGNATURE BLOCK:
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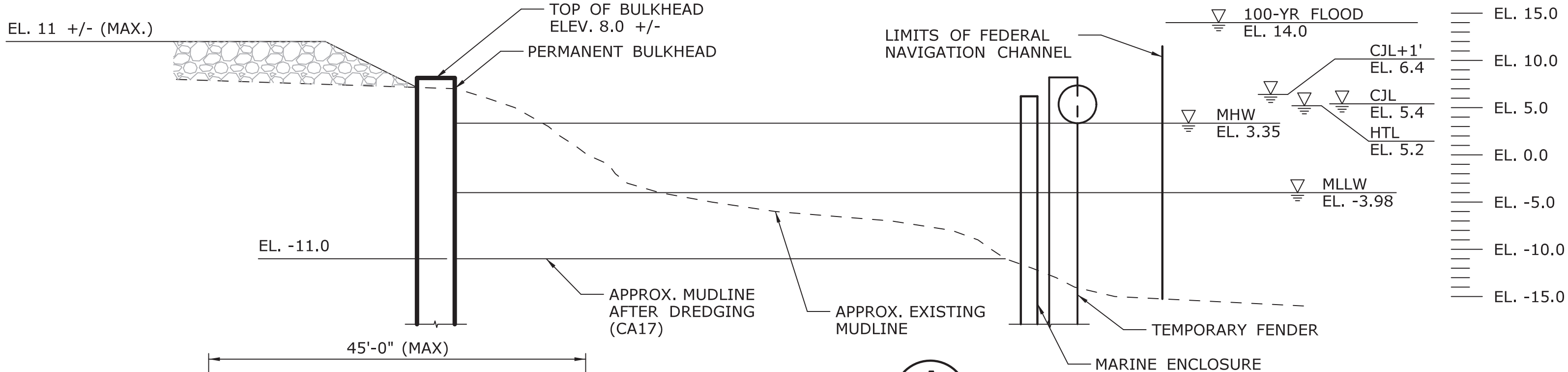
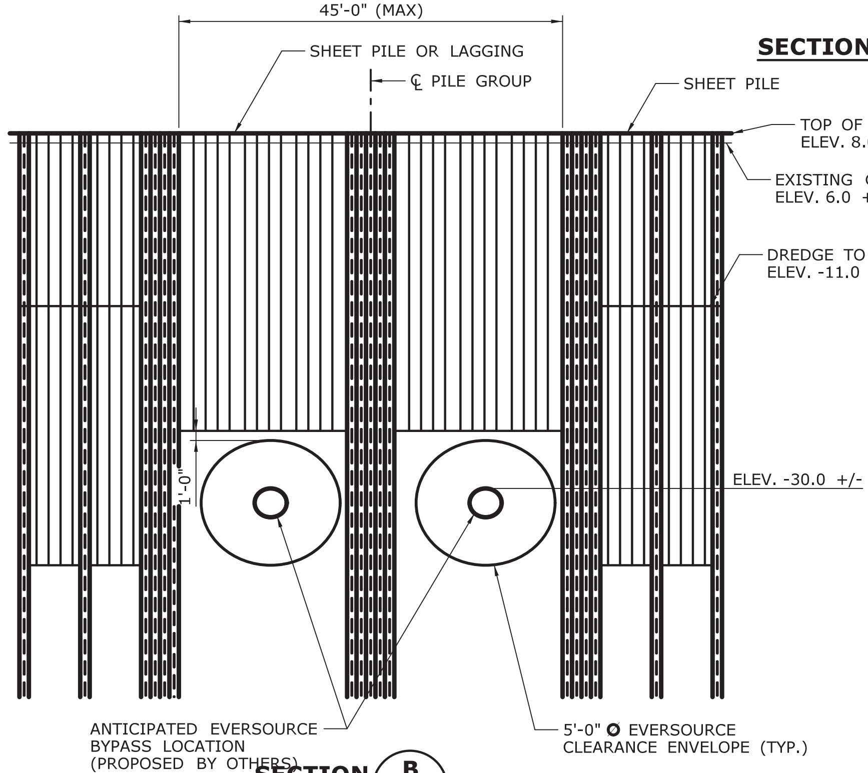
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

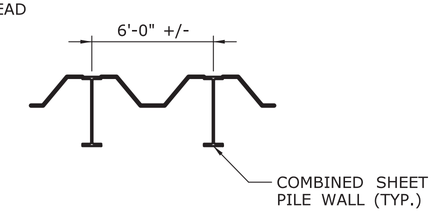
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 3 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA4-3**



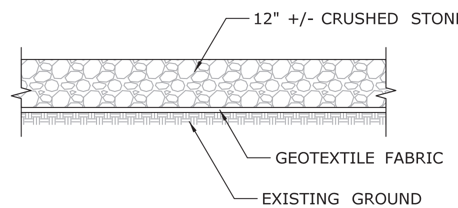
SECTION A (CA4-2)



SECTION B (CA4-3)



TYPICAL BULKHEAD SECTION
NOT TO SCALE



TYPICAL FILL SECTION
NOT TO SCALE

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88.
3. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
4. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
5. SITE TO BE RESTORED UPON COMPLETION. PERVIOUS SURFACES TO BE TREATED WITH APPROPRIATE FERTILIZERS AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
6. SEE ACTIVITY 17 FOR COMPLETE DREDGING LIMITS.

ELEVATION TABLE

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

SCALE:
SCALE IN FEET
0 10 20
SCALE 1"=20'
(EXCEPT AS NOTED)

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

SIGNATURE BLOCK:
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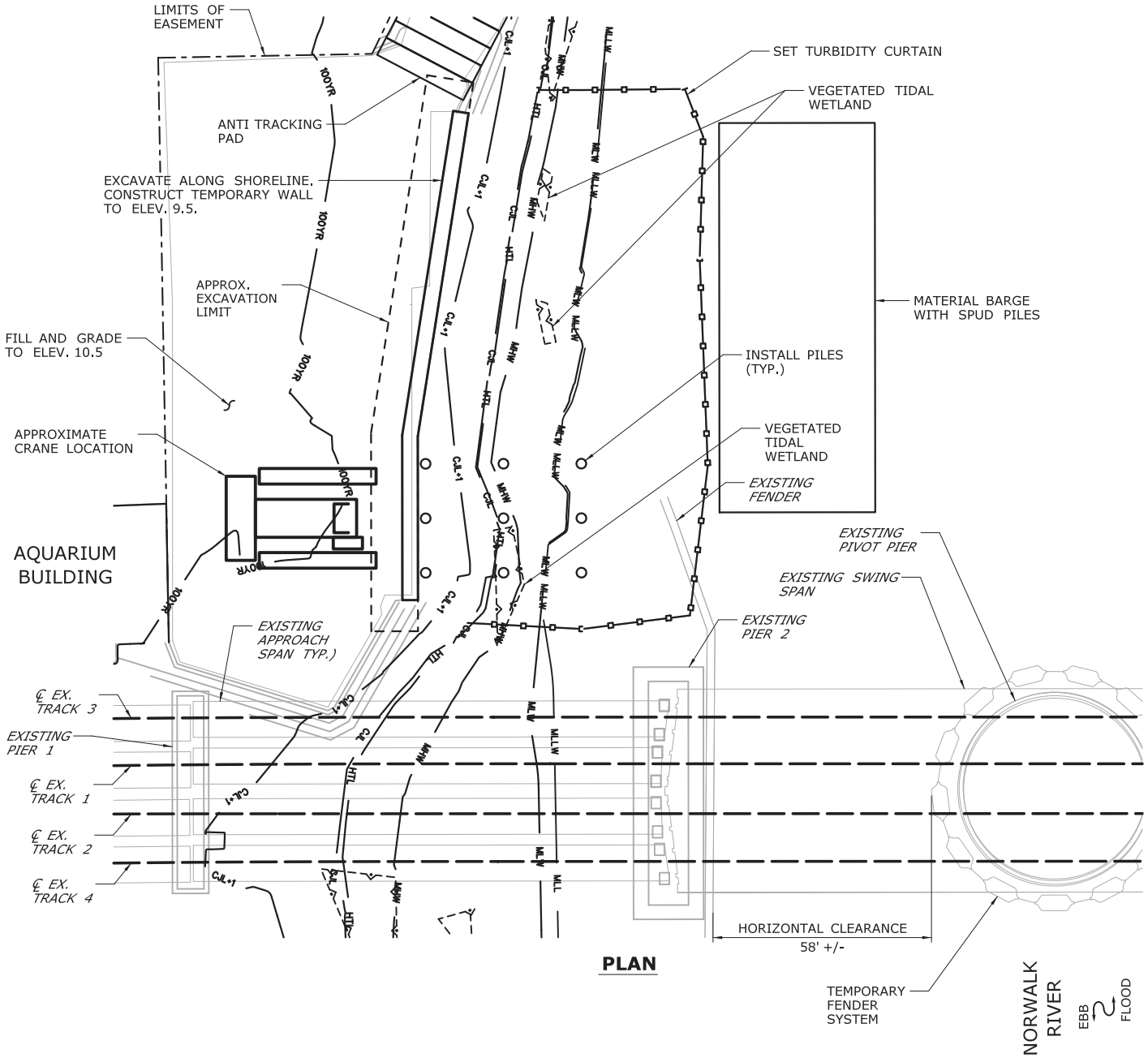
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: NORWALK

DRAWING TITLE:
ACTIVITY 4
MARINE STAGING YARD
(SHEET 4 OF 4)

PROJECT NO.: 0301-0176
DATE: 8-28-19
DRAWING NO.: CA4-4



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
X	SET TURBIDITY CURTAIN. EXCAVATE ALONG SHORELINE.
X	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
X	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	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.

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. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

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

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

SIGNATURE BLOCK:
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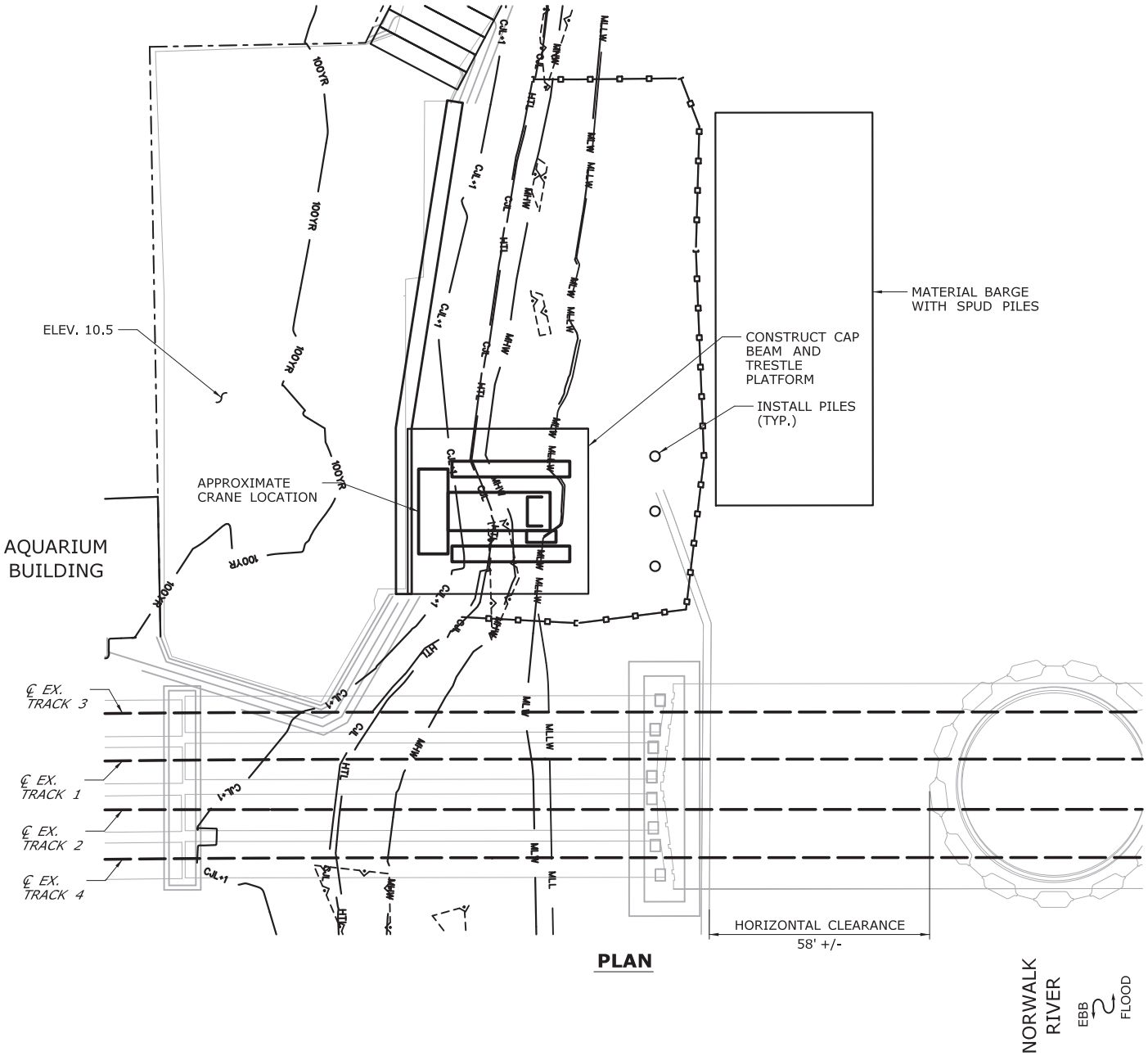
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 1 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA5-1**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. EXCAVATE ALONG SHORELINE.
	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
X	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.
	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.

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 IS ELEV. 10.5.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

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

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

SIGNATURE BLOCK:
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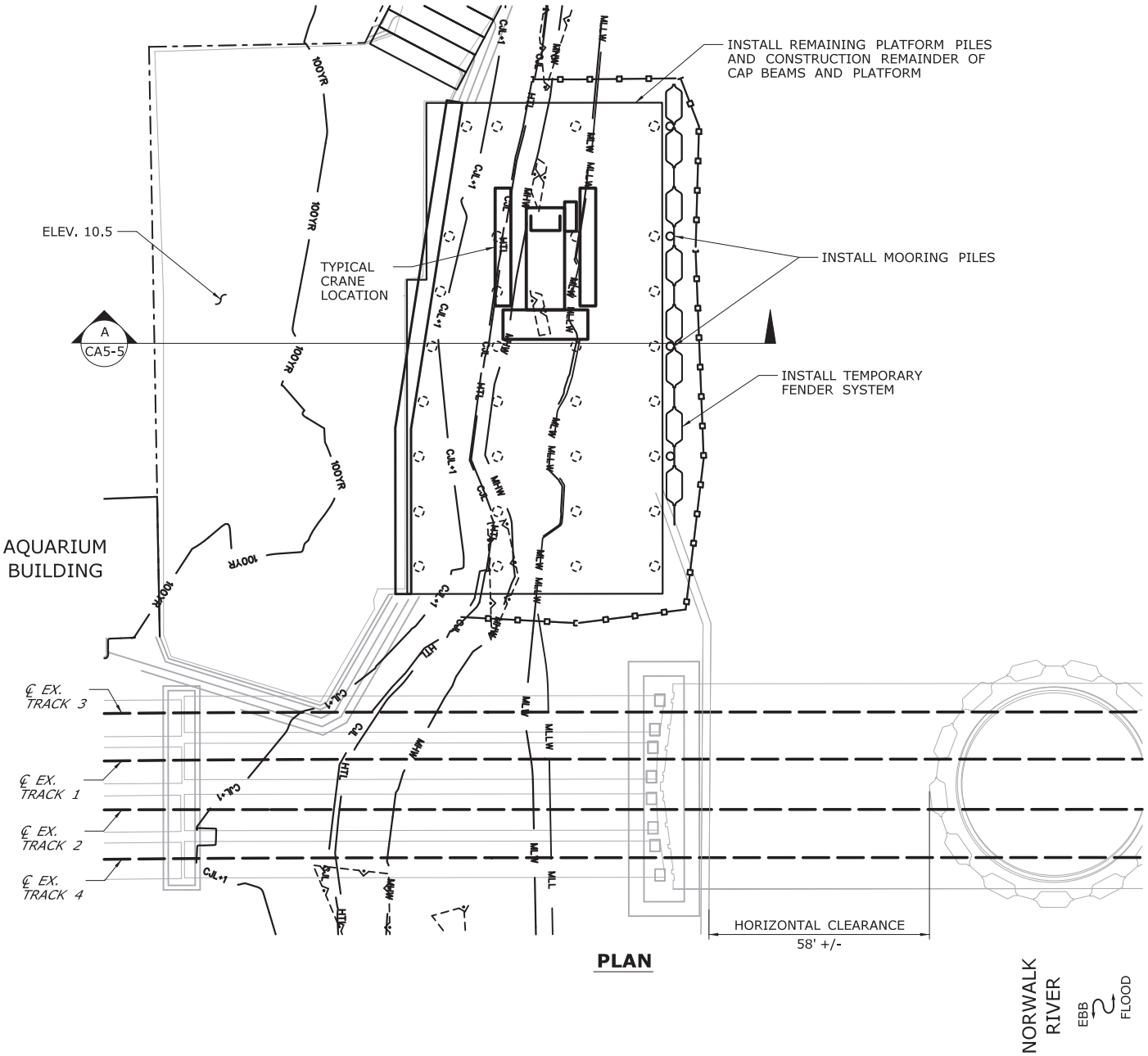
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 2 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA5-2**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	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.

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 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

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

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

SIGNATURE BLOCK:
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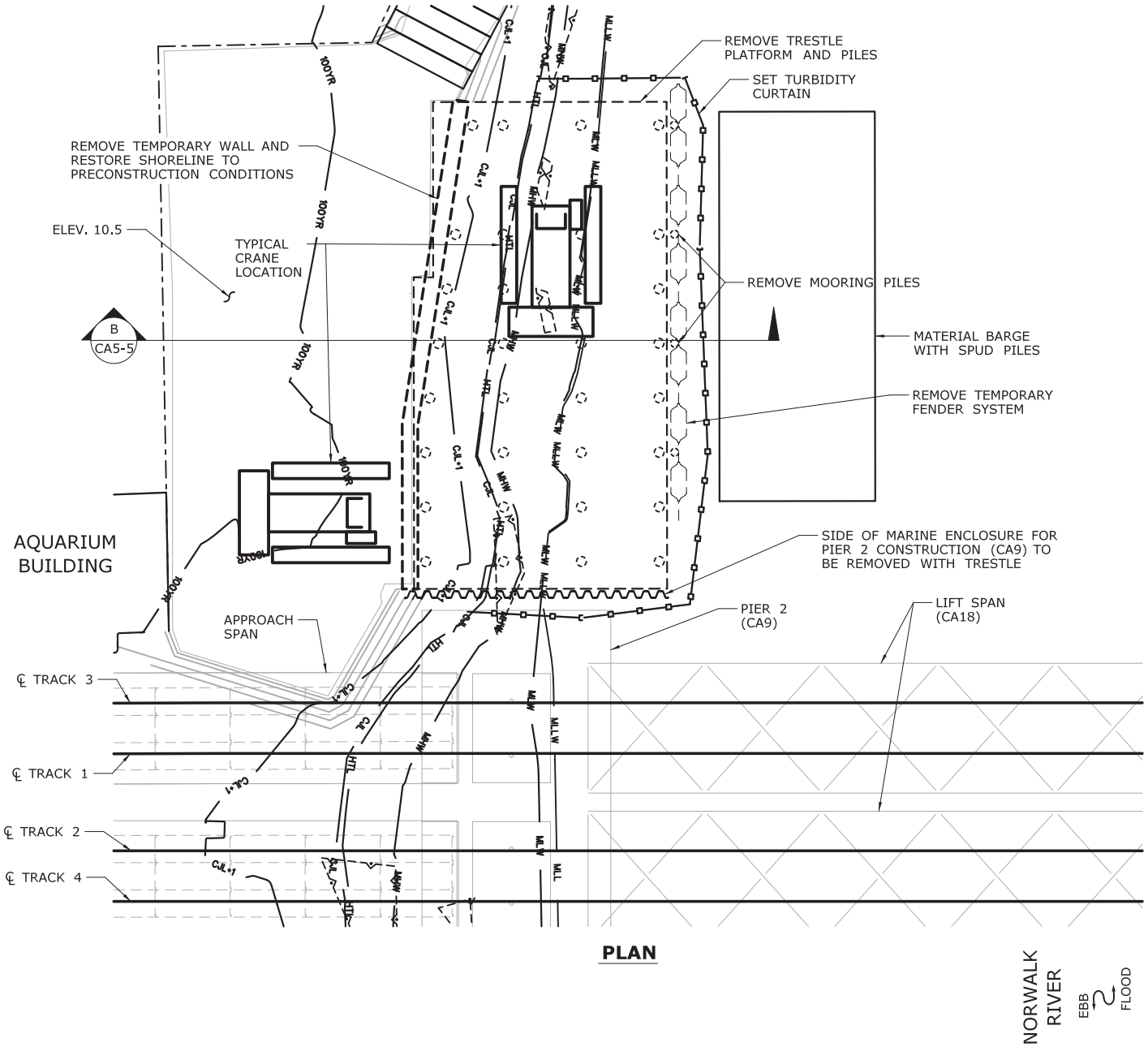
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 3 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA5-3**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	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.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
X	REMOVE TEMPORARY WALL. RESTORE SHORELINE TO PRECONSTRUCTION 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 IS ELEV. 10.5.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. SHORELINE RESTORATION TO MATCH EXISTING TREATMENT, SIDE-SLOPE, AND ELEVATION BASED ON PRE-CONSTRUCTION CONDITIONS AND ADJACENT SHORELINE NOT DISTURBED BY CONSTRUCTION ACTIVITY.

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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 29695 · LICENSED PROFESSIONAL ENGINEER

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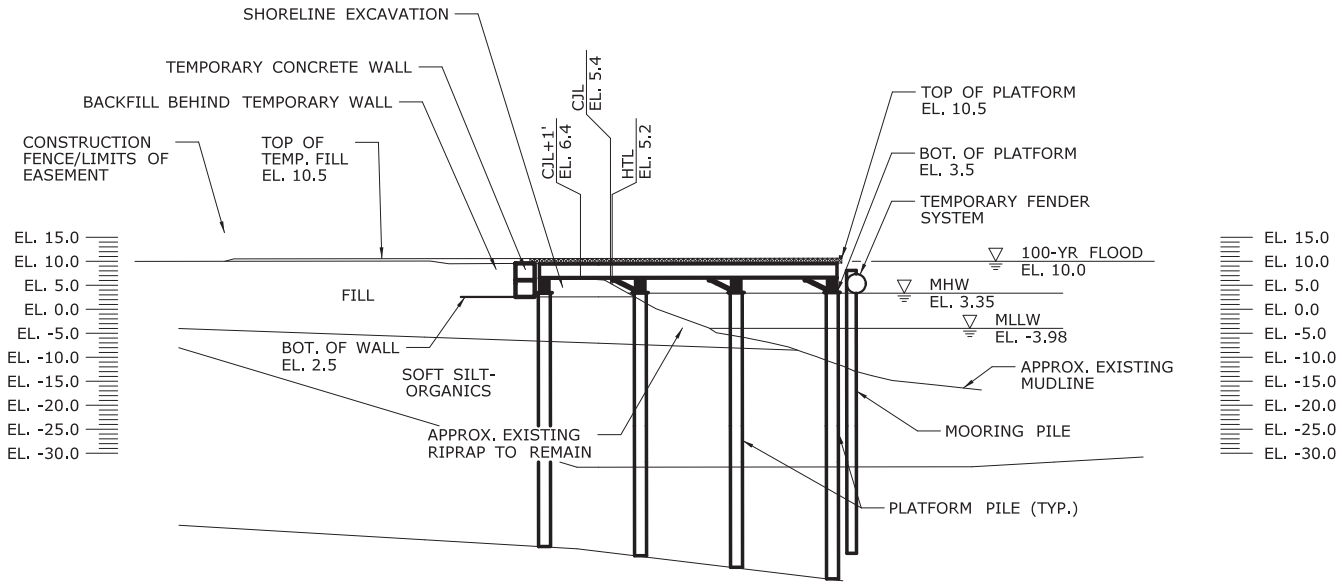
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

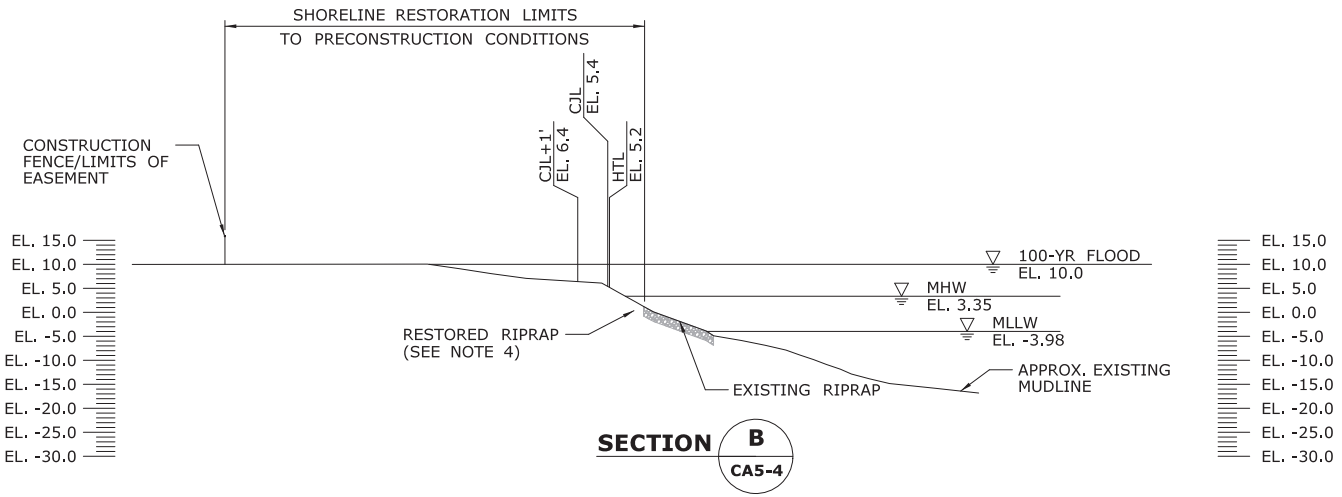
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 4 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA5-4**

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. WORKING SURFACE IS AT ELEVATION 10.5.
4. WHERE CONTRACTOR DISTURBS EXISTING RIPRAP ALONG THE SHORELINE, IT WILL BE RESTORED TO MATCH EXISTING UP TO THE HTL ELEVATION WITHIN THE LIMITS OF DISTURBANCE.



SECTION A / CA5-3



SECTION B / CA5-4

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

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

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK: STATE OF CONNECTICUT COMMISSION OF DESIGN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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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

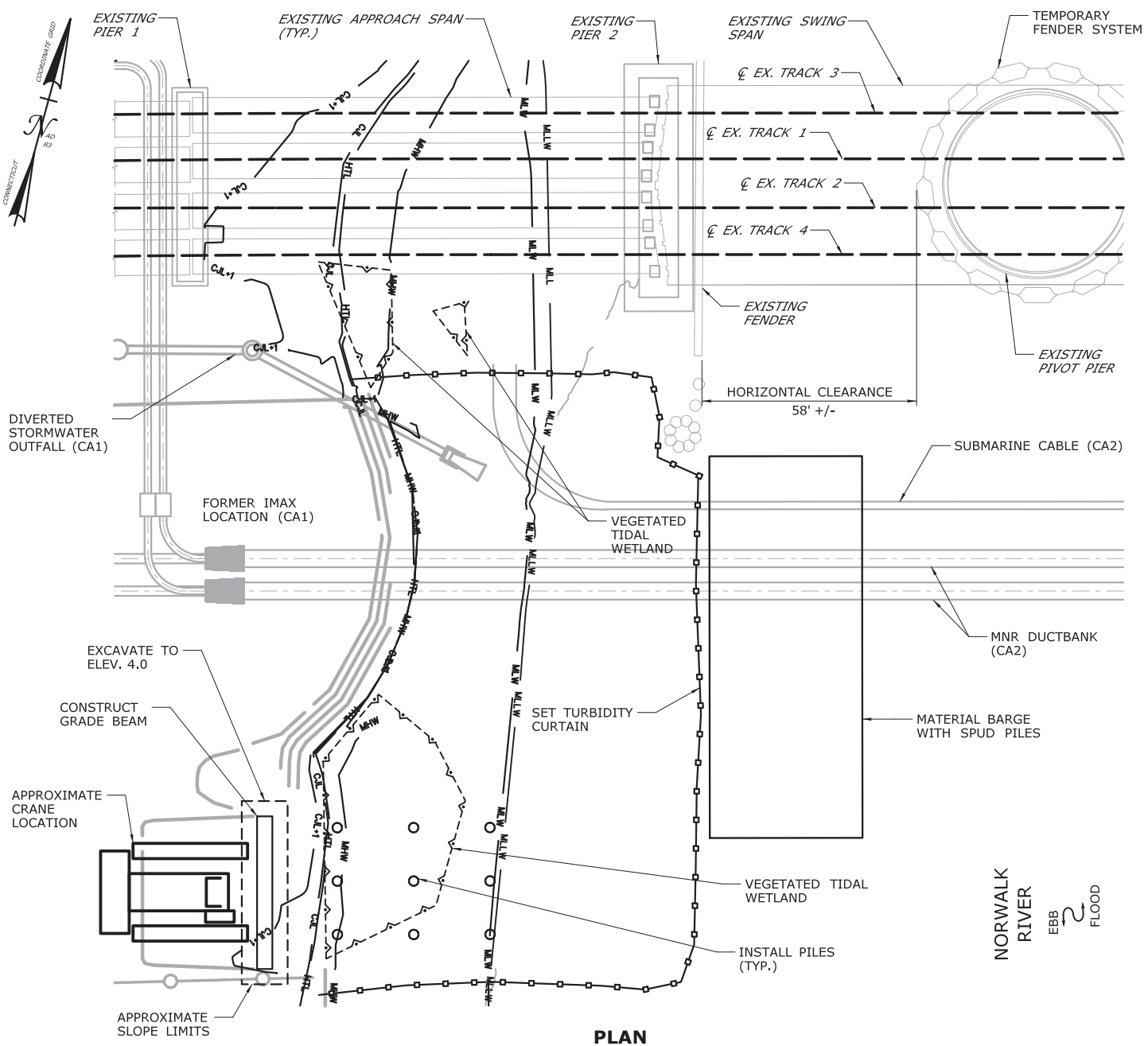
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 5 OF 5)**

DATE: **8-28-19**

DRAWING NO.: **CA5-5**



PLAN

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
X	SET TURBIDITY CURTAIN.
X	EXCAVATE SHORELINE AT PLATFORM RAMP.
X	CONSTRUCT GRADE BEAM AND INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	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:

1. SPUD PILES AND PLATFORM SUPPORT PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT COMMISSION OF BROWN LICENSED PROFESSIONAL ENGINEER NO. 29695

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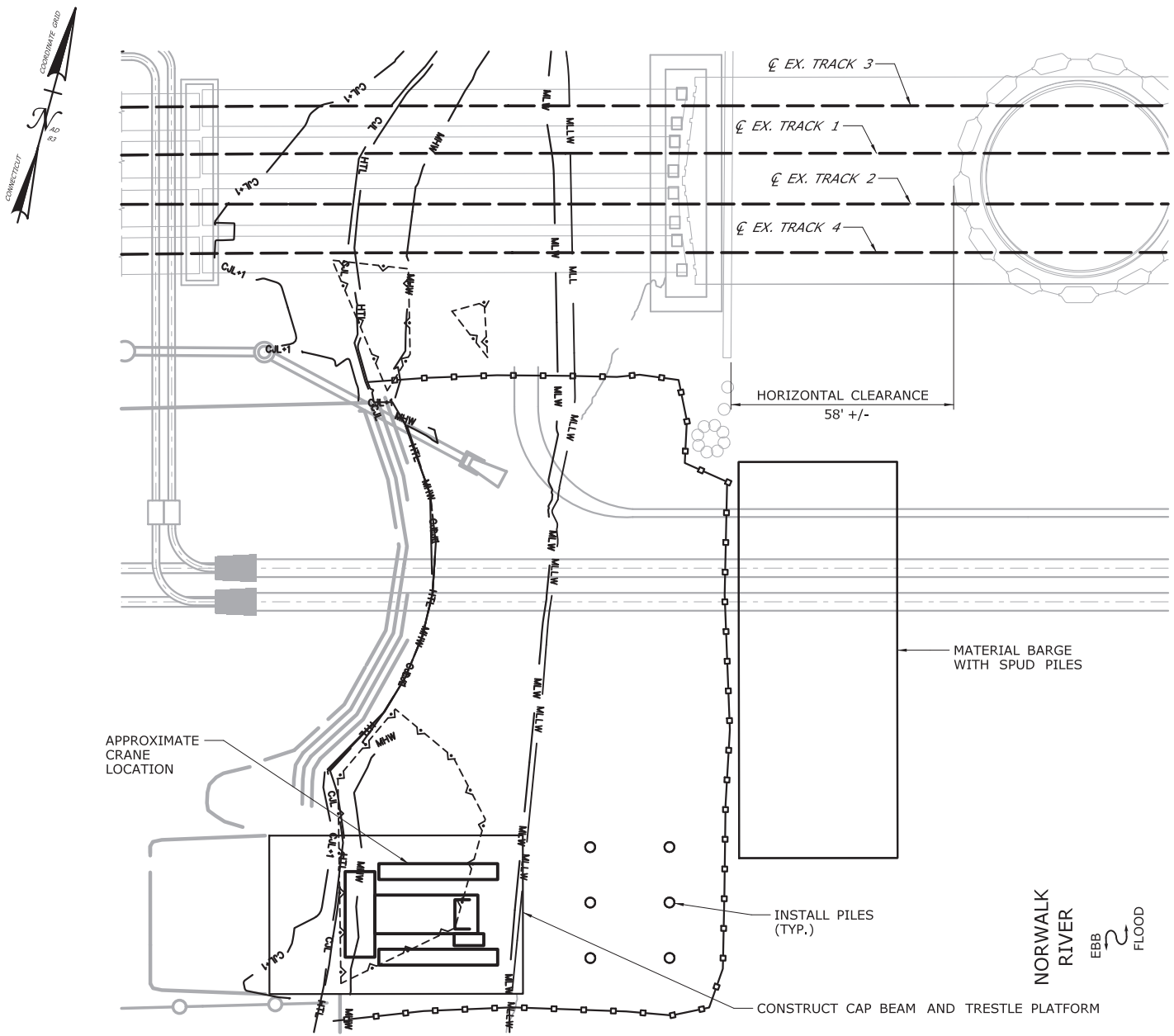
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 1 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA6-1**



PLAN

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.
X	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.
	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:

1. SPUD PILES AND PLATFORM SUPPORT PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. TOP OF PLATFORM IS AT ELEV. 10.5.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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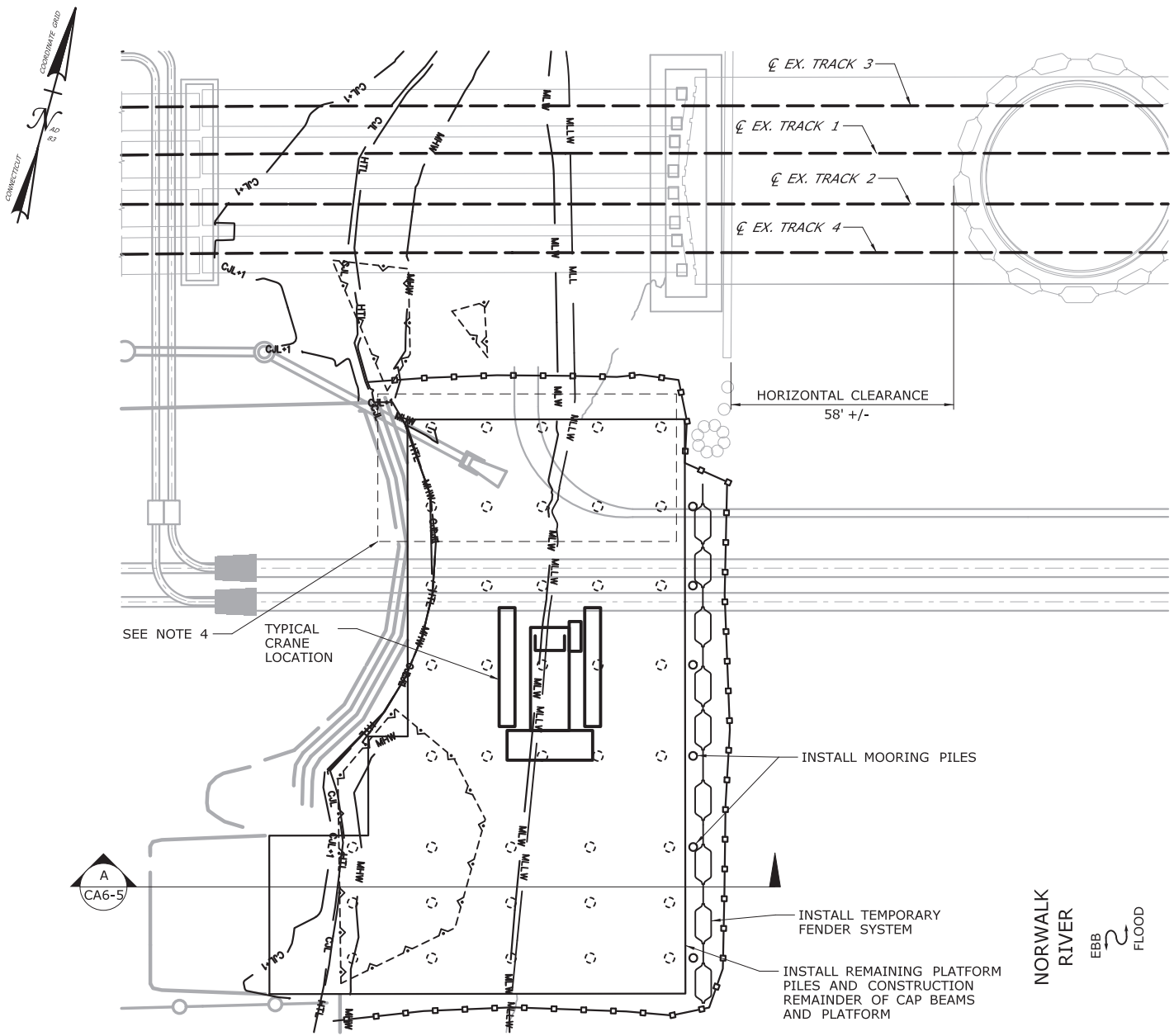
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 2 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA6-2**



PLAN

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:

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. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND STABILIZATION OF THE RIVER BOTTOM, THE TURBIDITY CURTAIN WILL BE REMOVED.
6. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
7. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
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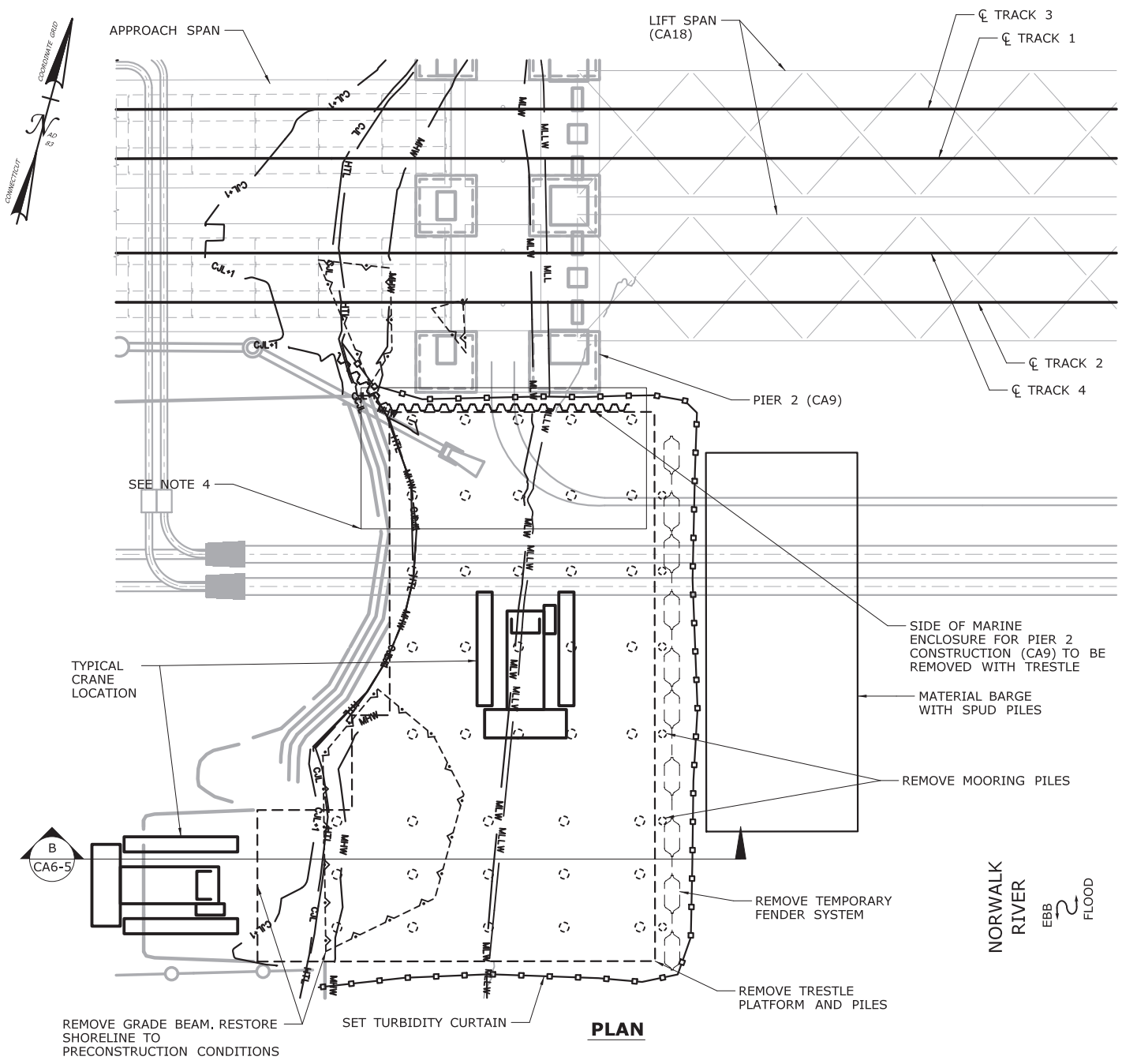
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 3 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA6-3**



PLAN

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.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
X	REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION 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. PILES NEAR THE MNR DUCTBANK (SEE ACTIVITY 2) MAY BE CUT OFF 2' BELOW THE MUDLINE IN LIEU OF REMOVAL WHERE EXTRACTION HAS POTENTIAL TO COMPROMISE THE DUCTBANK. SEE CUT-OFF PILE DETAIL (DWG. CA6-5).
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. SHORELINE RESTORATION TO BE CONSISTENT WITH IMAX REMOVAL RESTORATION (SEE ACTIVITY 1).
7. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:

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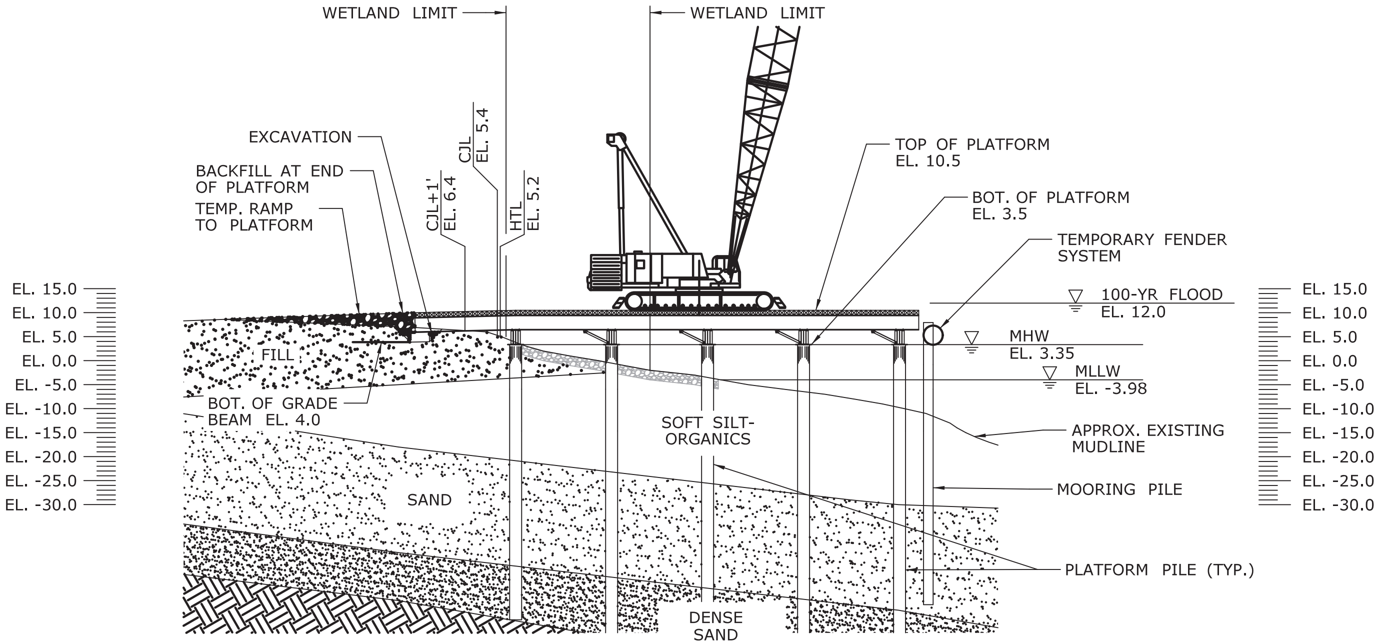
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

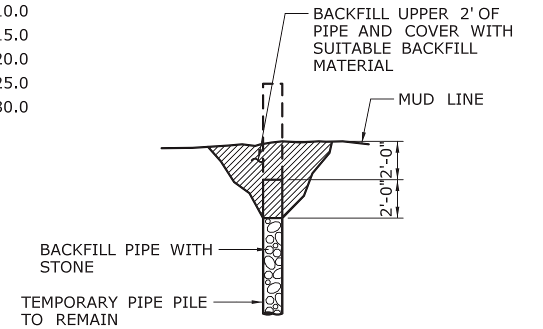
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 4 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA6-4**



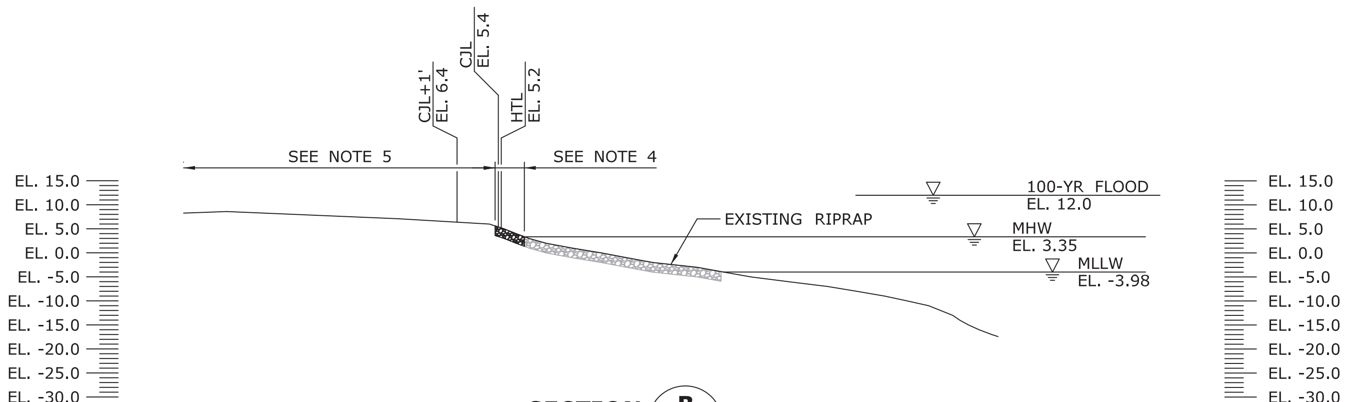
SECTION A
CA6-3

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. WORKING SURFACE IS AT ELEVATION 10.5.
4. MATCH EXISTING MATERIAL AND TREATMENT ALONG SHORELINE FOR EROSION CONTROL.
5. TREAT SLOPE WITH APPROPRIATE FERTILIZER, SEED, AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
6. GEOTEXTILE FILTER FABRIC WILL BE USED IF FILL IS PLACED BELOW THE HIGH TIDE LINE.
7. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.



CUT-OFF PILE DETAIL
N.T.S.



SECTION B
CA6-4

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'
(EXCEPT AS NOTED)

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

SIGNATURE BLOCK:

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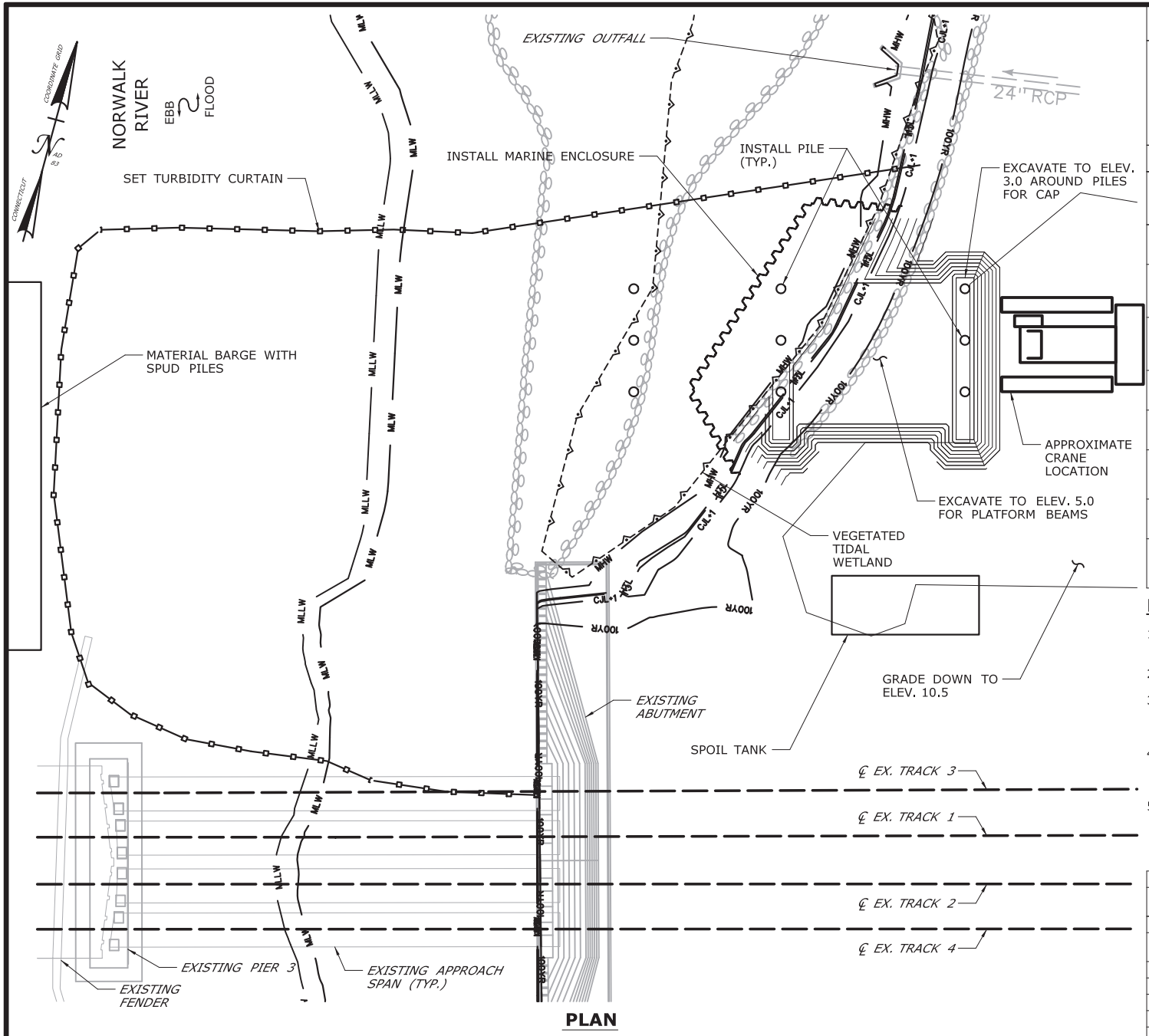
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: NORWALK
DRAWING TITLE:
ACTIVITY 6
SOUTHWEST TRESTLE
(SHEET 5 OF 5)

PROJECT NO.: 0301-0176
DATE: 8-28-19
DRAWING NO.: CA6-5



PLAN

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
X	SET TURBIDITY CURTAIN. INSTALL MARINE ENCLOSURE AND EXCAVATE FOR PLATFORM CONSTRUCTION. GRADE SITE TO PLATFORM ELEVATION.
X	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.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	MODIFY TURBIDITY CURTAIN. INSTALL RAMP TO MITIGATION SITE.
	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:

1. PLATFORM SUPPORT PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
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. SPOIL TANKS WILL BE USED FOR DEWATERING THE MATERIAL EXCAVATED FROM WITHIN THE MARINE ENCLOSURE.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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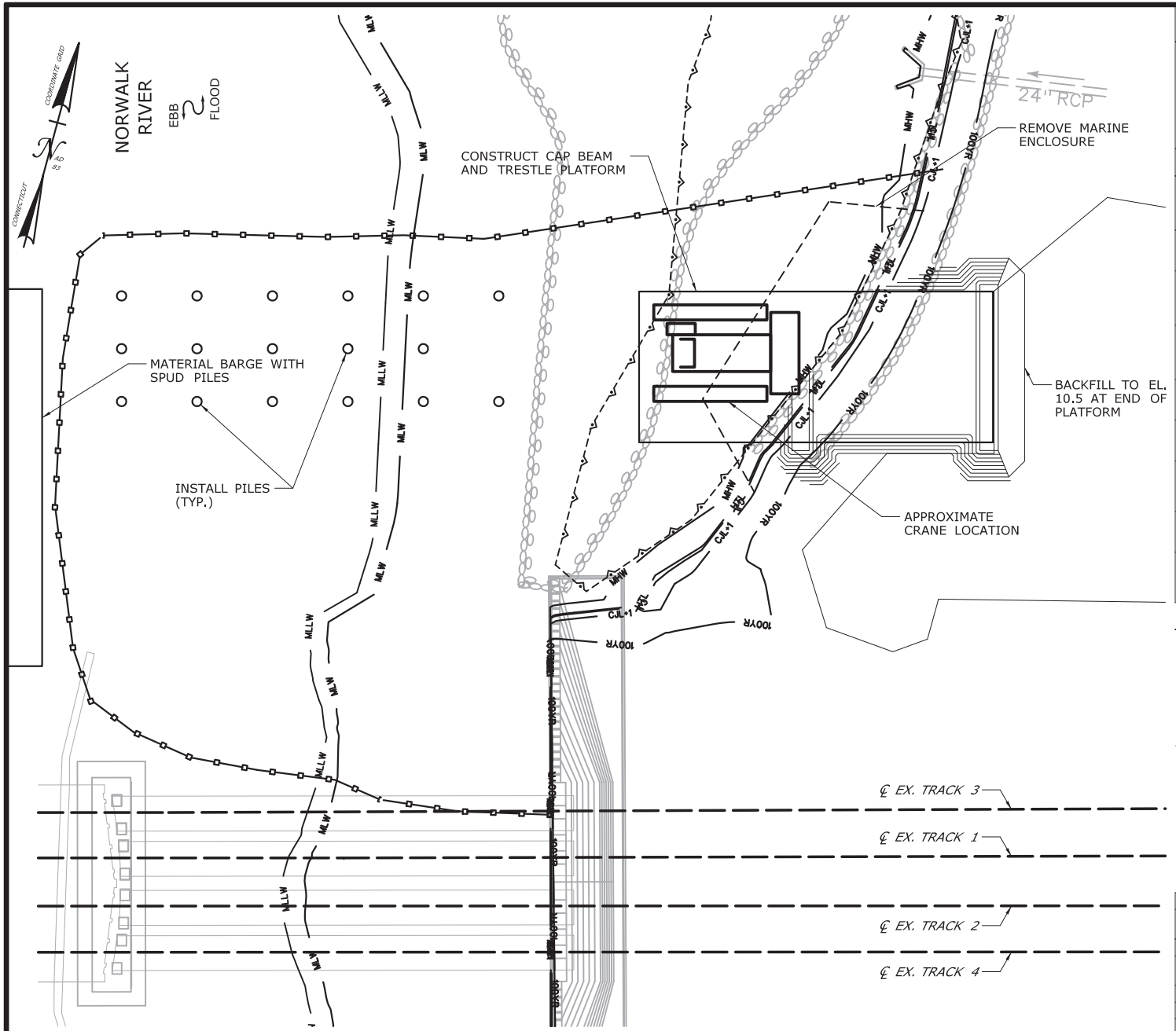
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 1 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA7-1**



PLAN

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.
X	REMOVE MARINE ENCLOSURE. CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE. BACKFILL AT END OF PLATFORM.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	MODIFY TURBIDITY CURTAIN. INSTALL RAMP TO MITIGATION SITE.
	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:

1. PLATFORM SUPPORT PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. TOP OF PLATFORM ELEV. 10.5.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER C. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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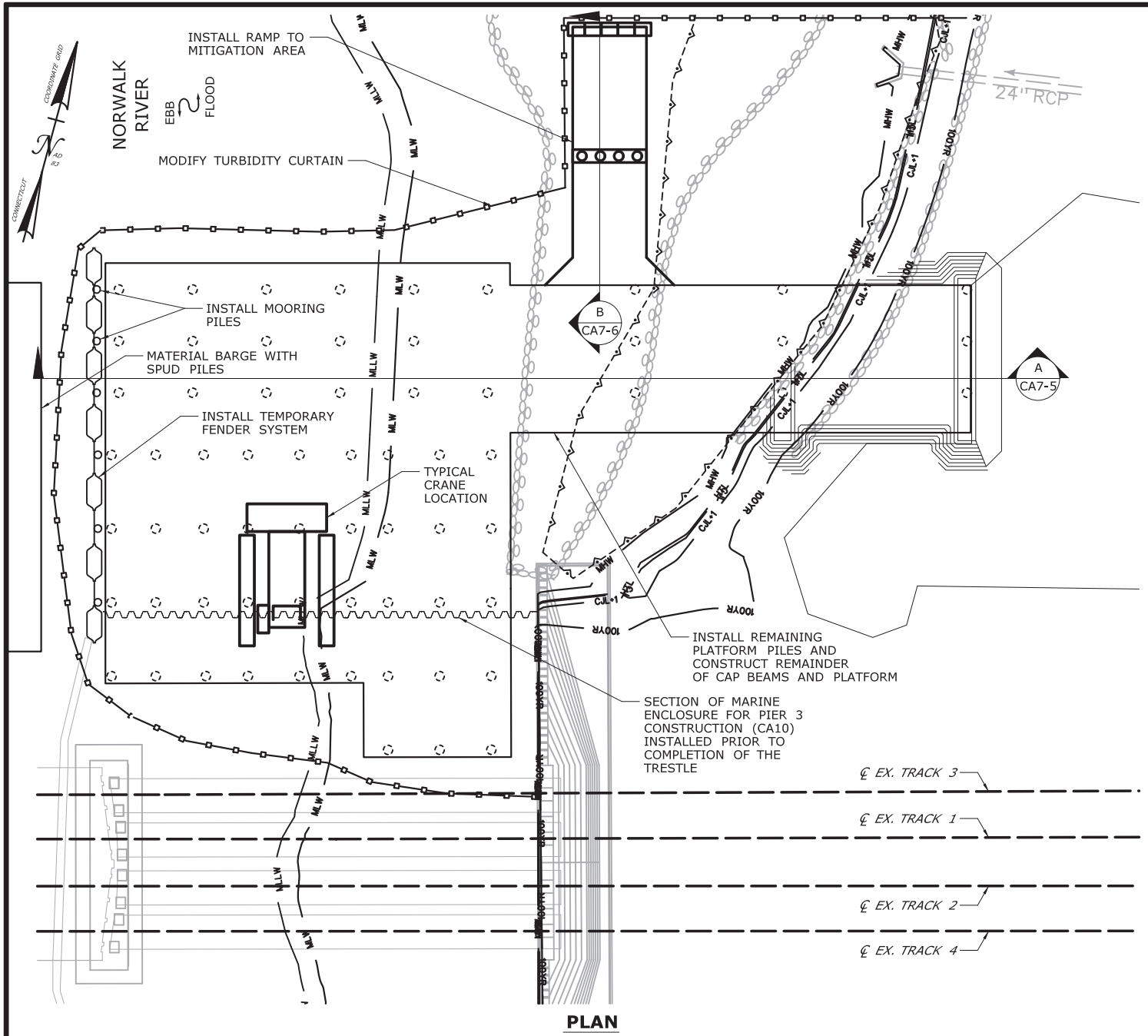
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 2 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA7-2**



PLAN

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.
X	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.
	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:

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. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
5. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND STABILIZATION OF THE RIVER BOTTOM, THE TURBIDITY CURTAIN WILL BE REMOVED.
6. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

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

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

SIGNATURE BLOCK:
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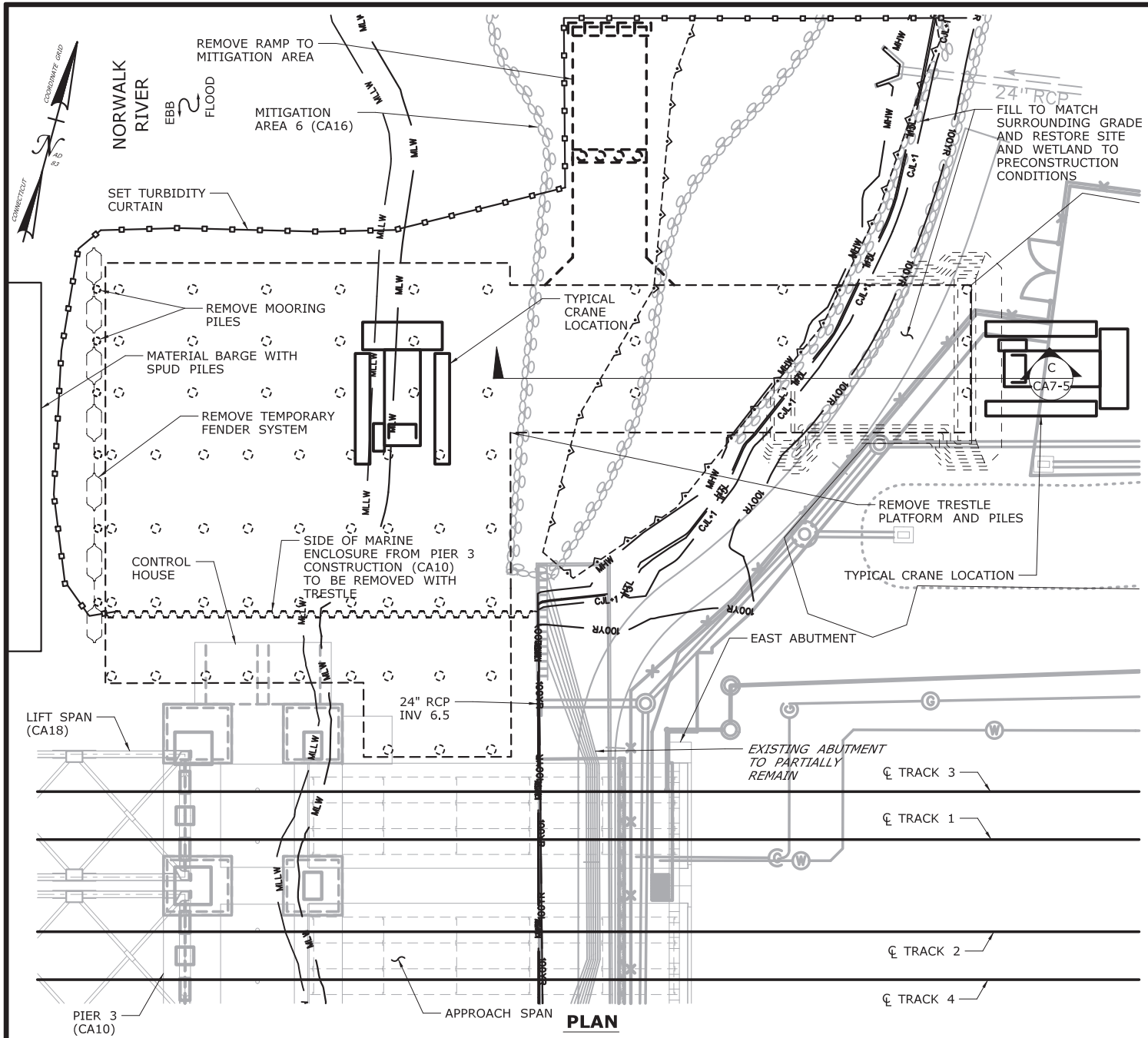
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 3 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA7-3**



PLAN

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.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	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.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
X	RESTORE SITE AND WETLAND AREA TO PRECONSTRUCTION CONDITIONS. SEE ALSO ACTIVITY 16 FOR MITIGATION.

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. SHORELINE RESTORATION TO MATCH EXISTING TREATMENT, SIDE SLOPE, AND ELEVATION BASED ON PRE-CONSTRUCTION CONDITIONS AND ADJACENT SHORELINE NOT DISTURBED BY CONSTRUCTION ACTIVITY.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

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

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

SIGNATURE BLOCK:
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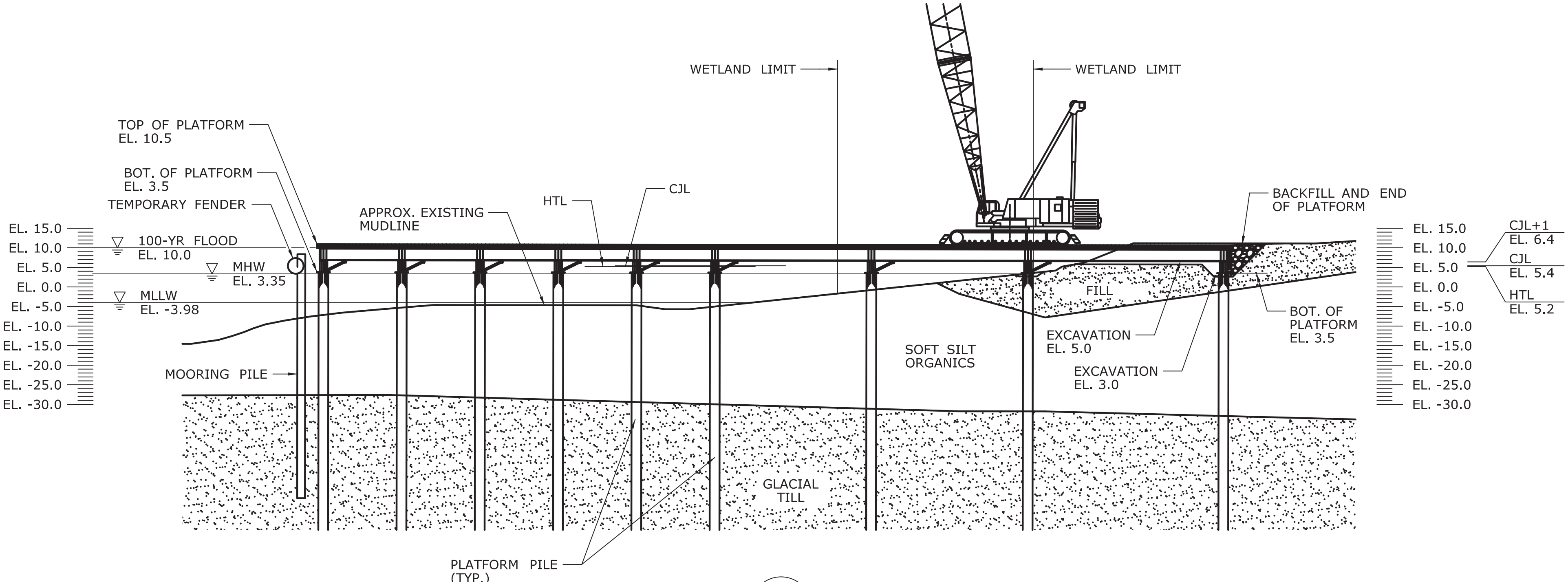
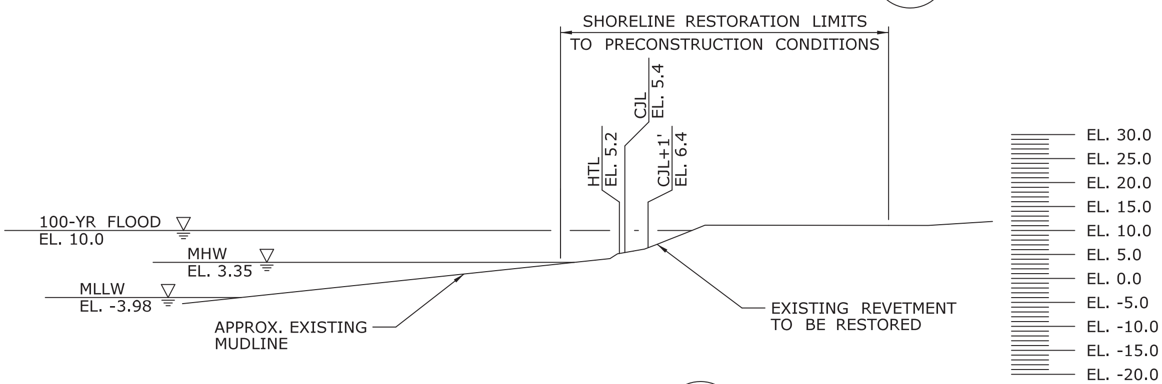
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 4 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA7-4**



SECTION A
CA7-3



SECTION C
CA7-4

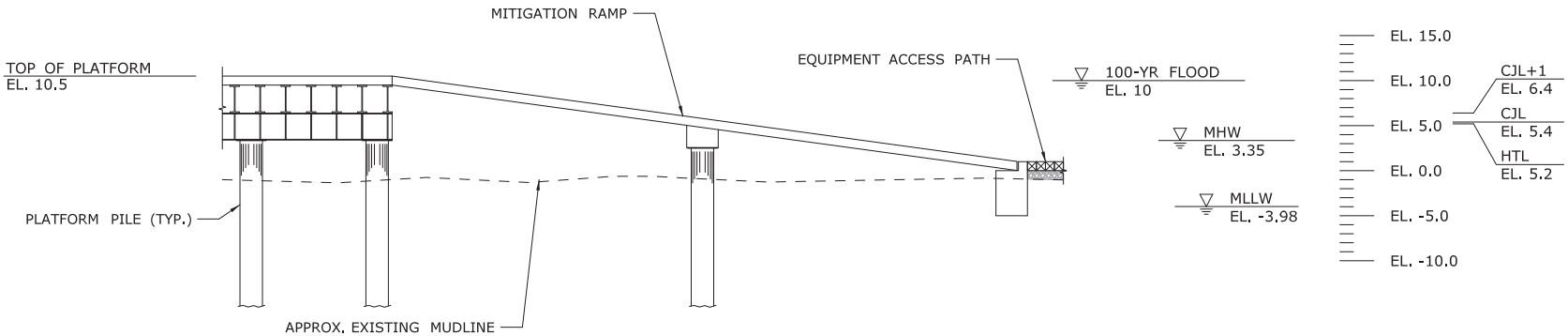
NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. WORKING SURFACE IS AT ELEVATION 10.5.
4. SHORELINE RESTORATION TO MATCH EXISTING TREATMENT, SIDE-SLOPE, AND ELEVATION BASED ON PREICONSTRUCTION CONDITIONS AND ADJACENT SHORELINE NOT DISTURBED BY CONSTRUCTION ACTIVITY.
5. GEOTEXTILE FILTER FABRIC WILL BE USED IF FILL IS PLACED BELOW THE HIGH TIDE LINE.

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

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 7 NORTHEAST TRESTLE (SHEET 5 OF 6)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA7-5



SECTION B / CA7-3

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.

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

SCALE: SCALE IN FEET 0 10 20 SCALE 1"=20'

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

SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 20695, LICENSED PROFESSIONAL ENGINEER

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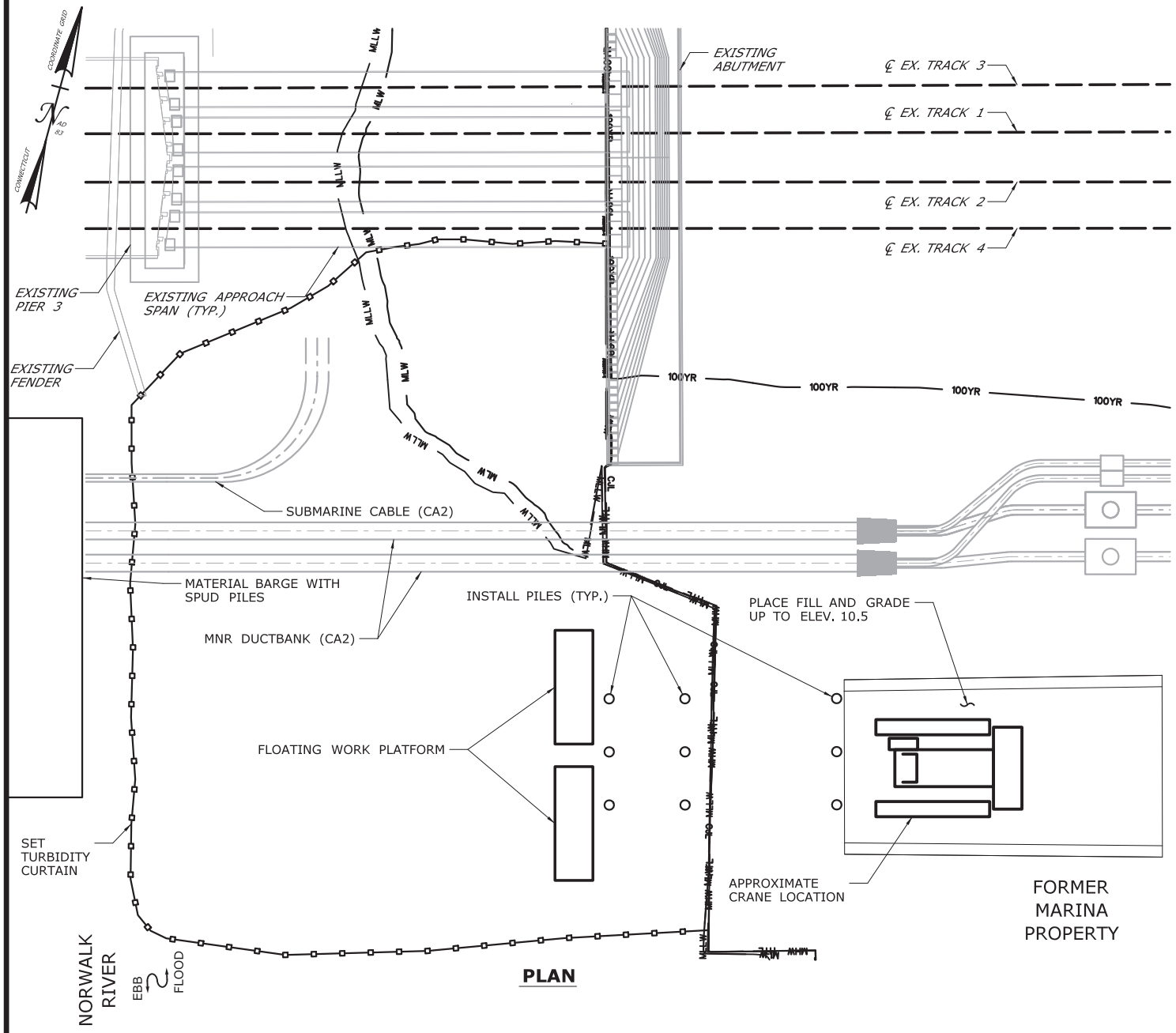
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 6 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA7-6**



PLAN

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
X	SET TURBIDITY CURTAIN.
X	PLACE FILL AND GRADE UP TO PLATFORM ELEVATION.
X	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	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. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 29695 · LICENSED PROFESSIONAL ENGINEER

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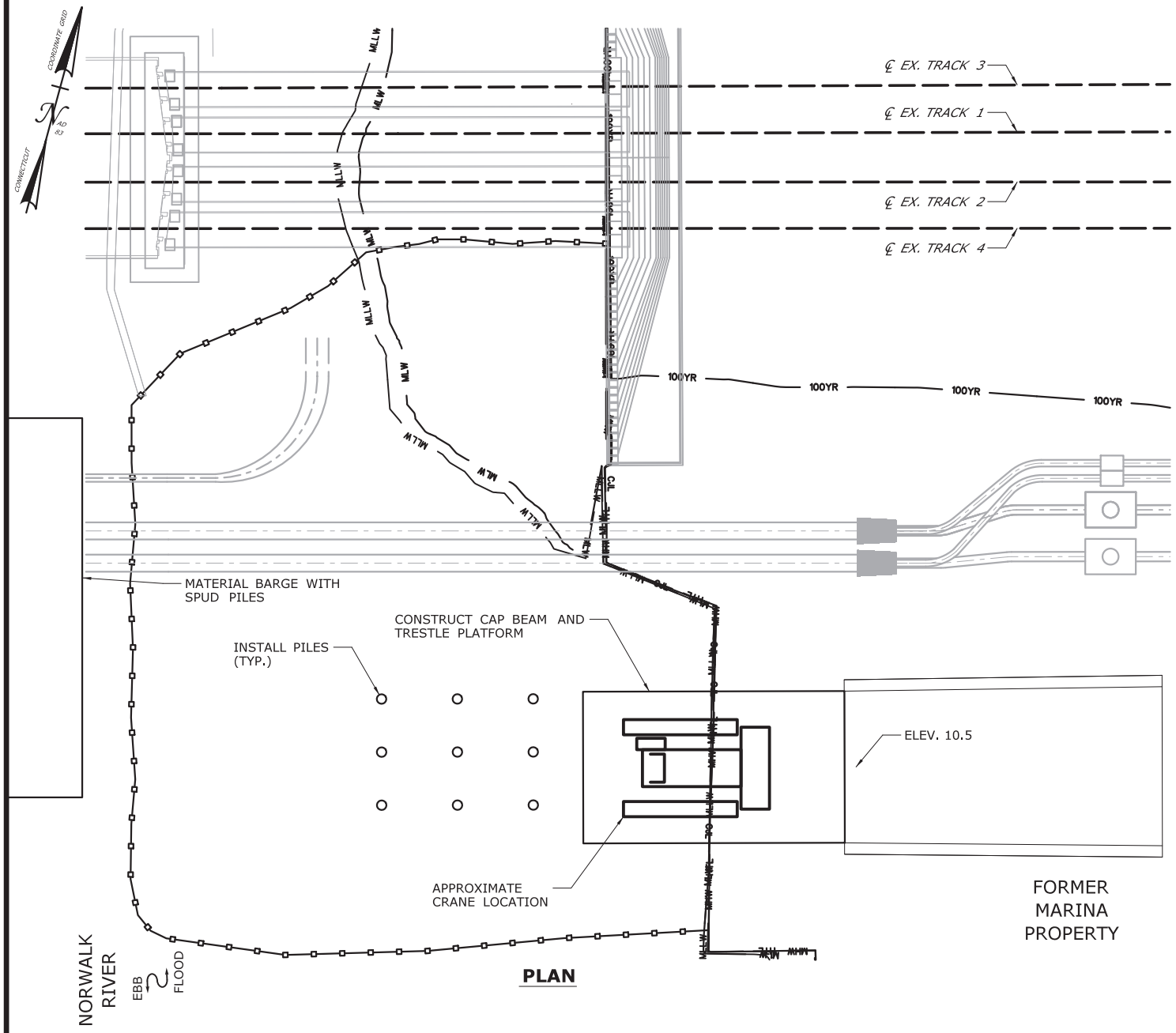
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 1 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA8-1**



PLAN

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.
X	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.
	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. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — CHRISTOPHER C. BROWN — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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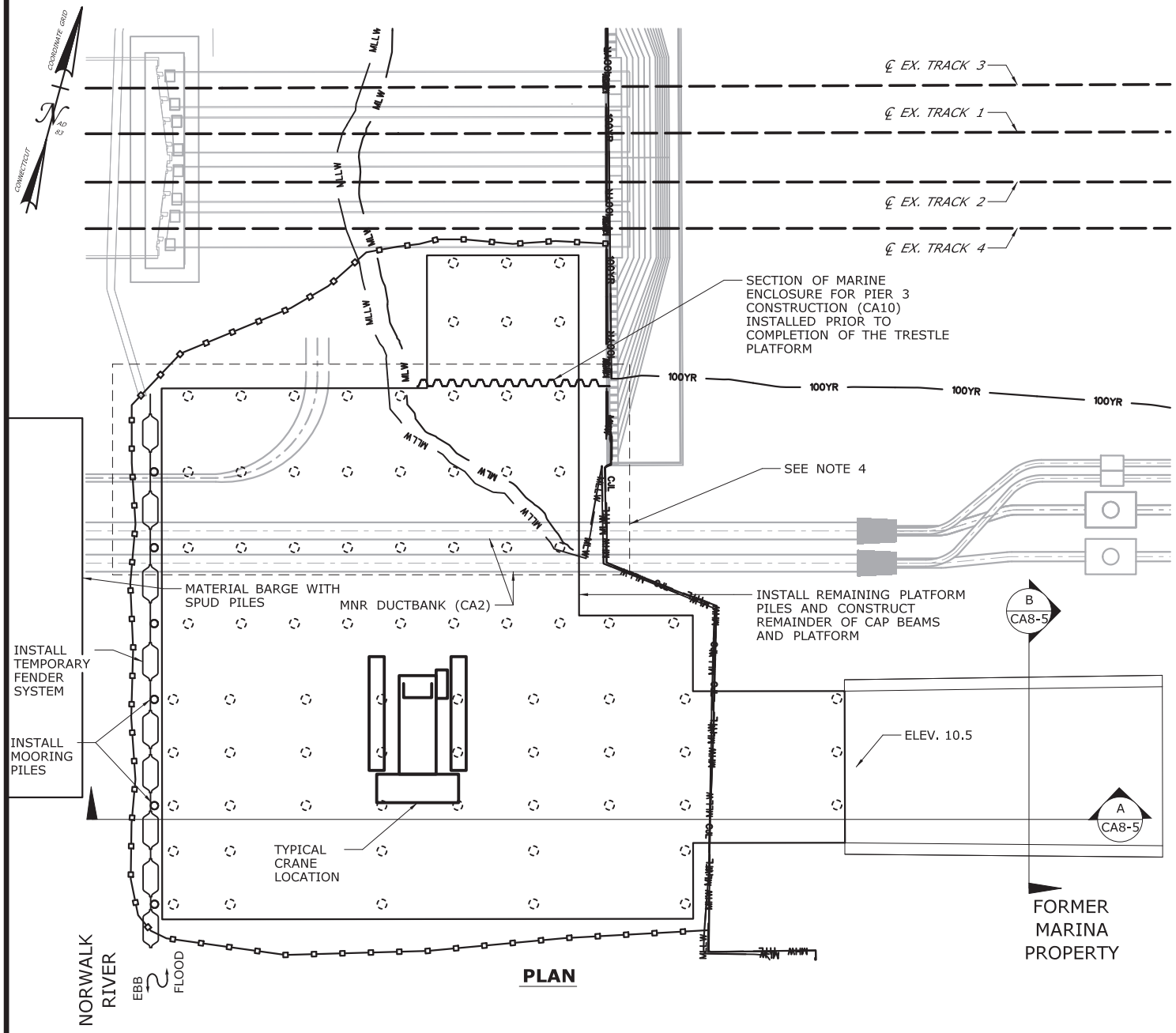
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 2 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA8-2**



PLAN

CONSTRUCTION SEQUENCE

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	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.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
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MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

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

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

SIGNATURE BLOCK:
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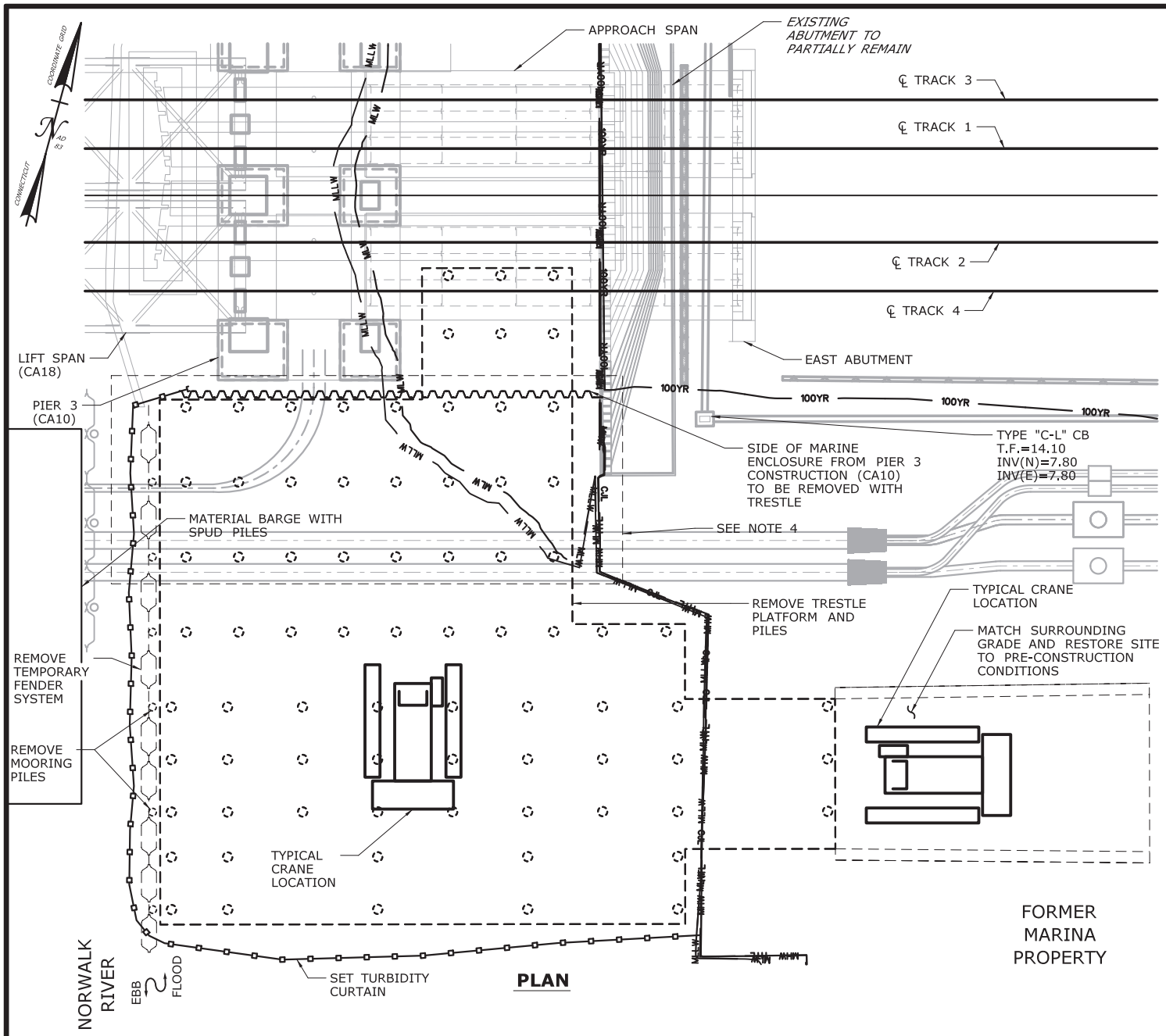
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 3 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA8-3**



PLAN

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.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
X	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. PILES NEAR THE MNR DUCTBANK (SEE ACTIVITY 2) MAY BE CUT OFF 2' BELOW THE MUDLINE IN LIEU OF REMOVAL WHERE EXTRACTION HAS POTENTIAL TO COMPROMISE THE DUCTBANK. SEE CUT-OFF PILE DETAIL (DWG. CA8-5).
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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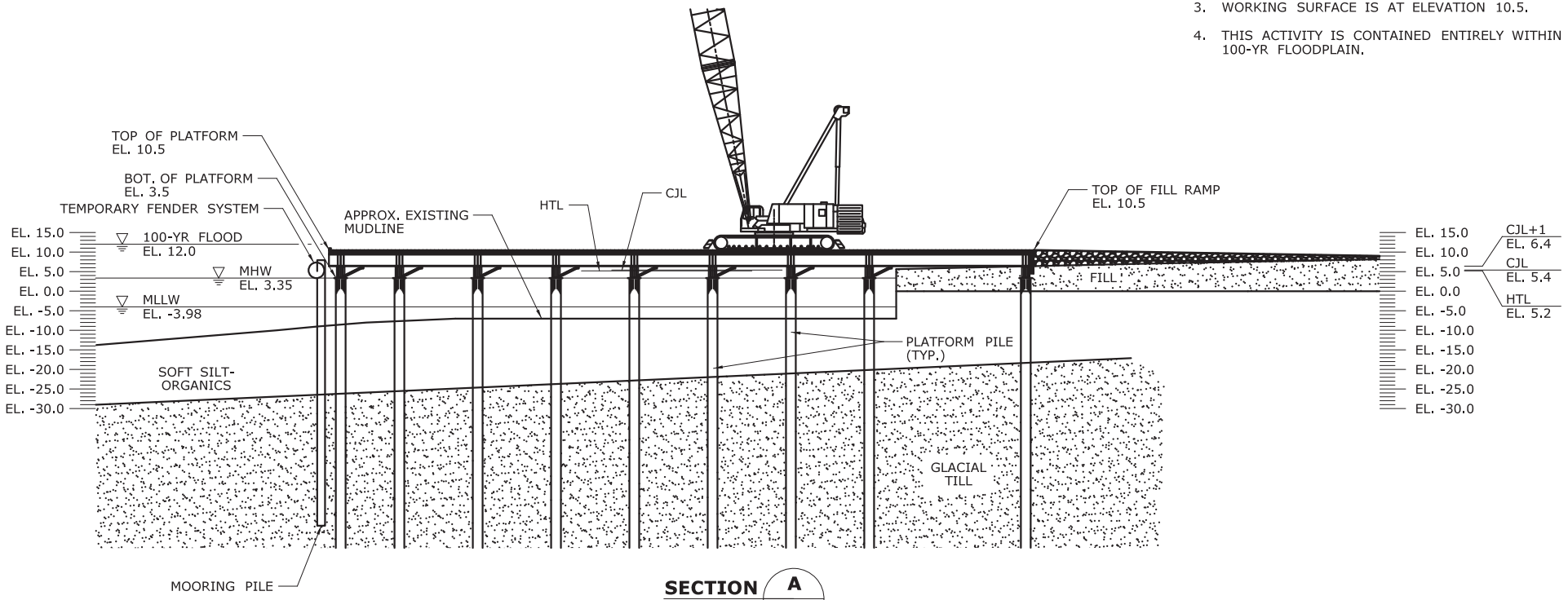
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

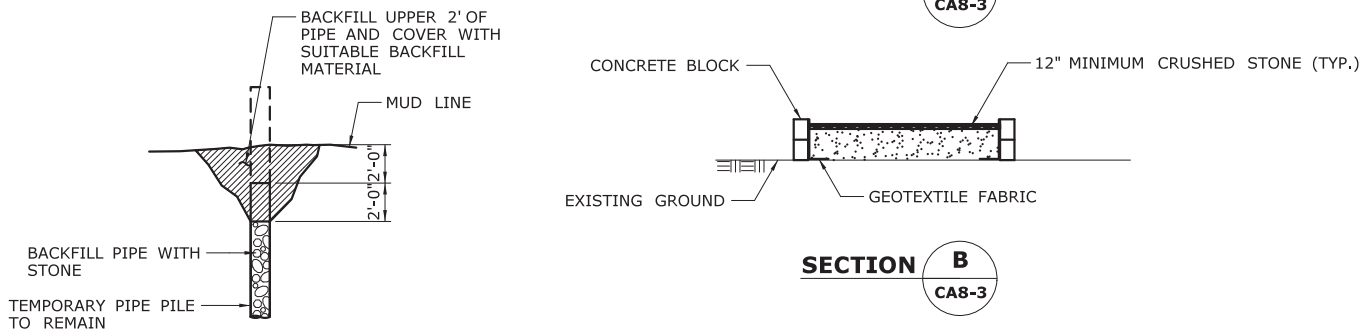
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 4 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA8-4**

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88.
3. WORKING SURFACE IS AT ELEVATION 10.5.
4. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.



SECTION A CA8-3



SECTION B CA8-3

CUT-OFF PILE DETAIL
N.T.S.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'
(EXCEPT AS NOTED)

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

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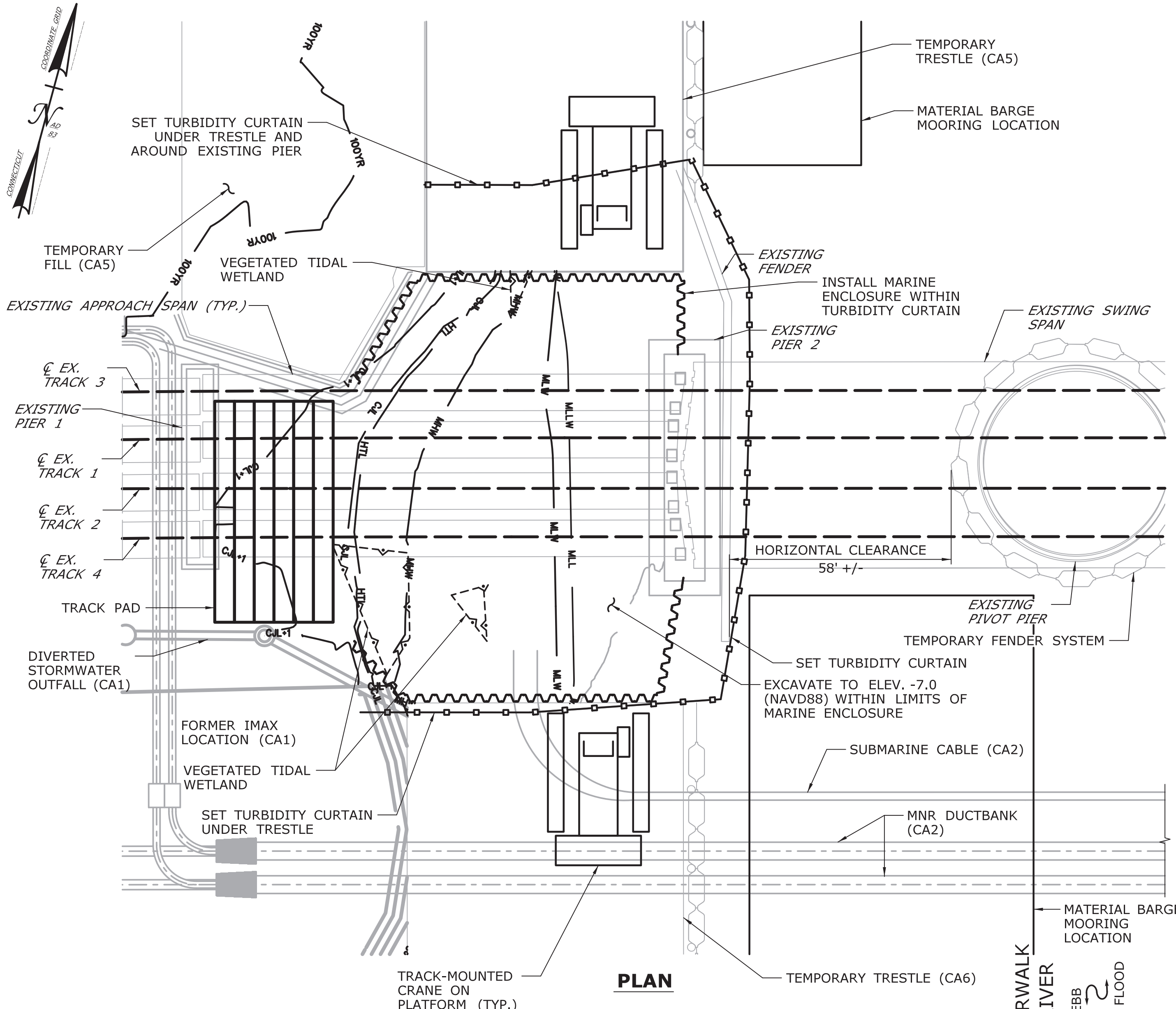
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 5 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA8-5**



PLAN

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).

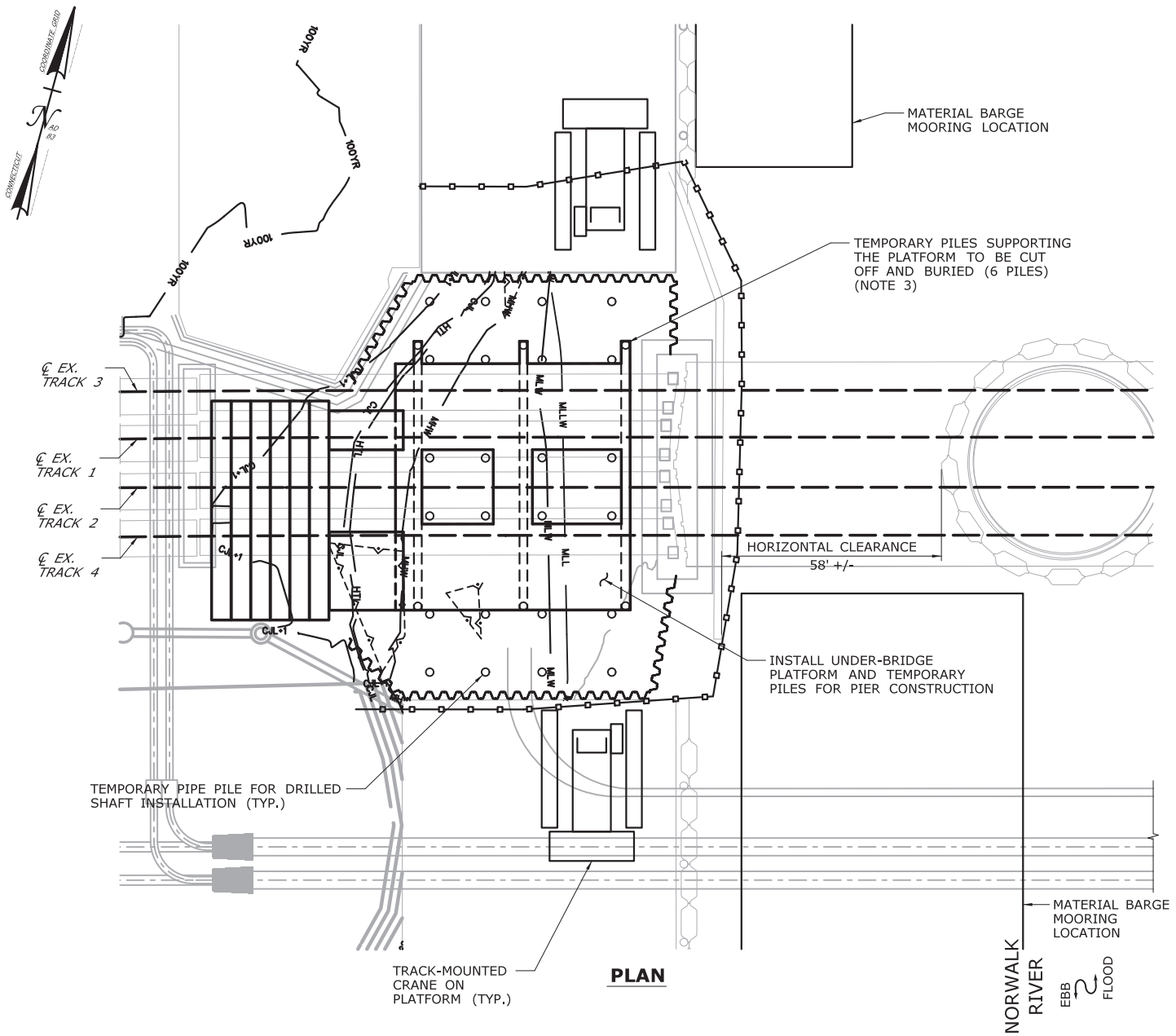
NOTES:

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.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE:	SCALE IN FEET 0 20 40 SCALE 1"=40'
DRAWN:	T. ADINOLFI
CHECKED:	V. ROBBINS
APPROVED:	C. BROWN
SIGNATURE BLOCK:	STATE OF CONNECTICUT CHRISTIAN J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER; HNTB HNTB Corporation 55 Capital Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-7377 Fax (860) 257-7394
	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
PROJECT TITLE:	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5
TOWN:	NORWALK
DRAWING TITLE:	ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 1 OF 7)
PROJECT NO.:	0301-0176
DATE:	8-28-19
DRAWING NO.:	CA9-1



PLAN

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
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
X	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:

1. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. ALL TEMPORARY PILES TO BE REMOVED, EXCEPT AS NOTED.
3. TEMPORARY PILES TO BE BACKFILLED WITH STONE FOLLOWING INSTALLATION. SEE CUT-OFF PILE DETAIL ON DWG. CA9-7.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT · CHRISTOPHER C. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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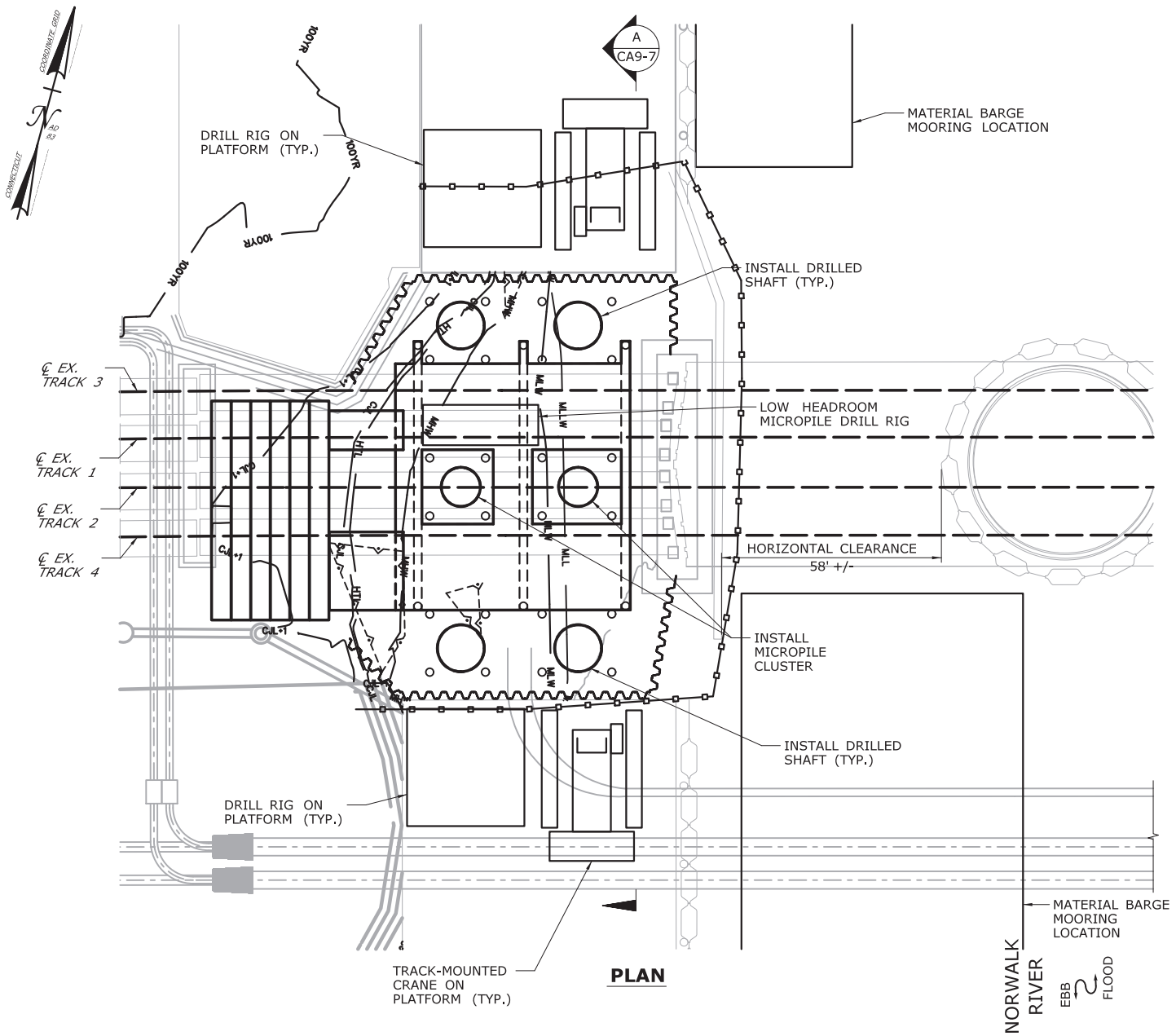
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 2 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA9-2**



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
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
X	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:

1. 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.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

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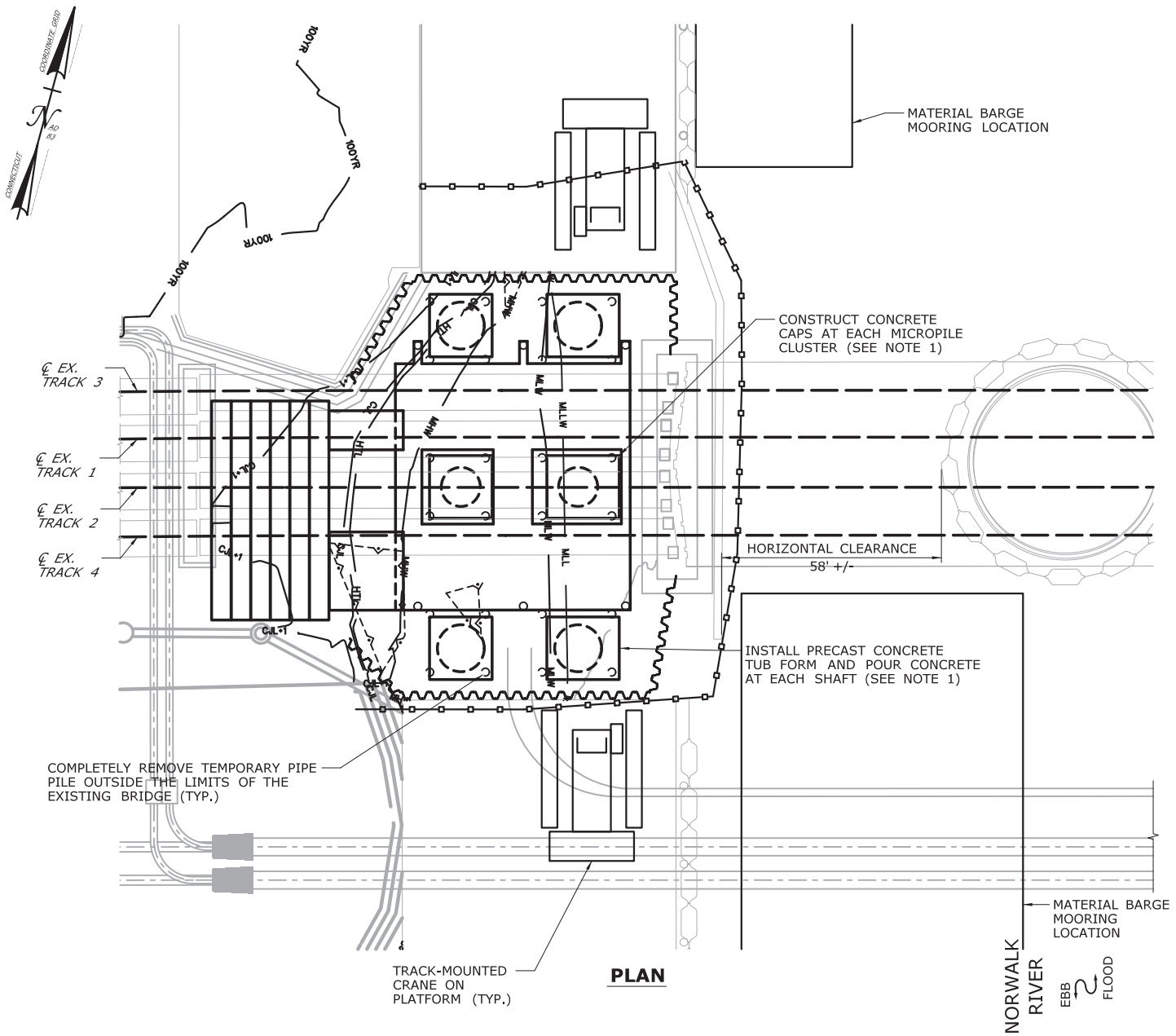
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 3 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA9-3**



PLAN

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
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	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.
X	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
X	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:

1. BOTTOM OF CAP ELEVATION IS EL. -5.0 (NAVD88).
2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
3. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

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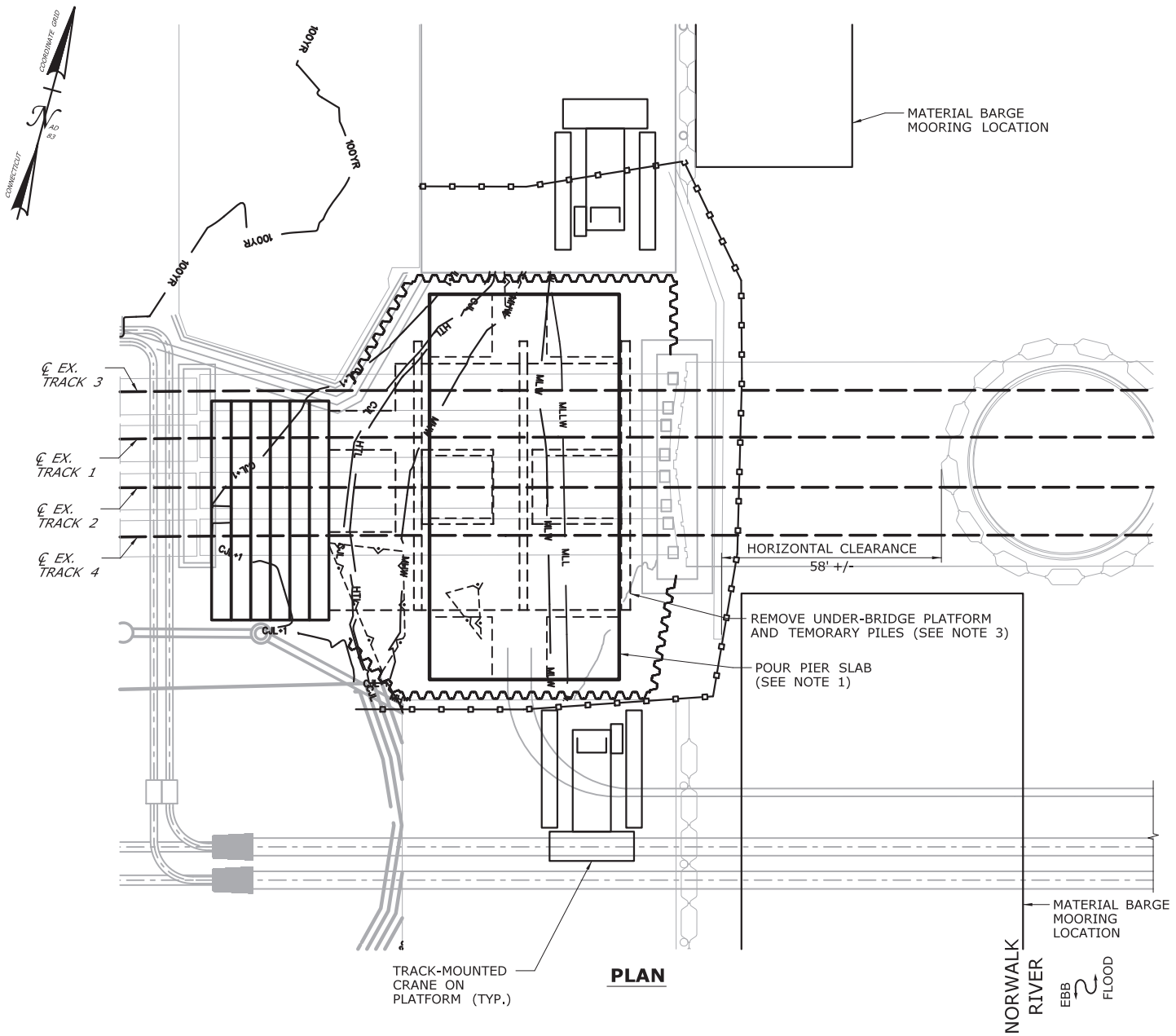
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 4 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA9-4**



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
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	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.
X	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
X	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:

1. BOTTOM OF SLAB ELEVATION IS EL. 10.0 (NAVD)
2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
3. TEMPORARY PILES SHALL BE CUT OFF 2 FEET BELOW MUDLINE. SEE CUT-OFF PILE DETAIL ON DWG. NO. CA9-7.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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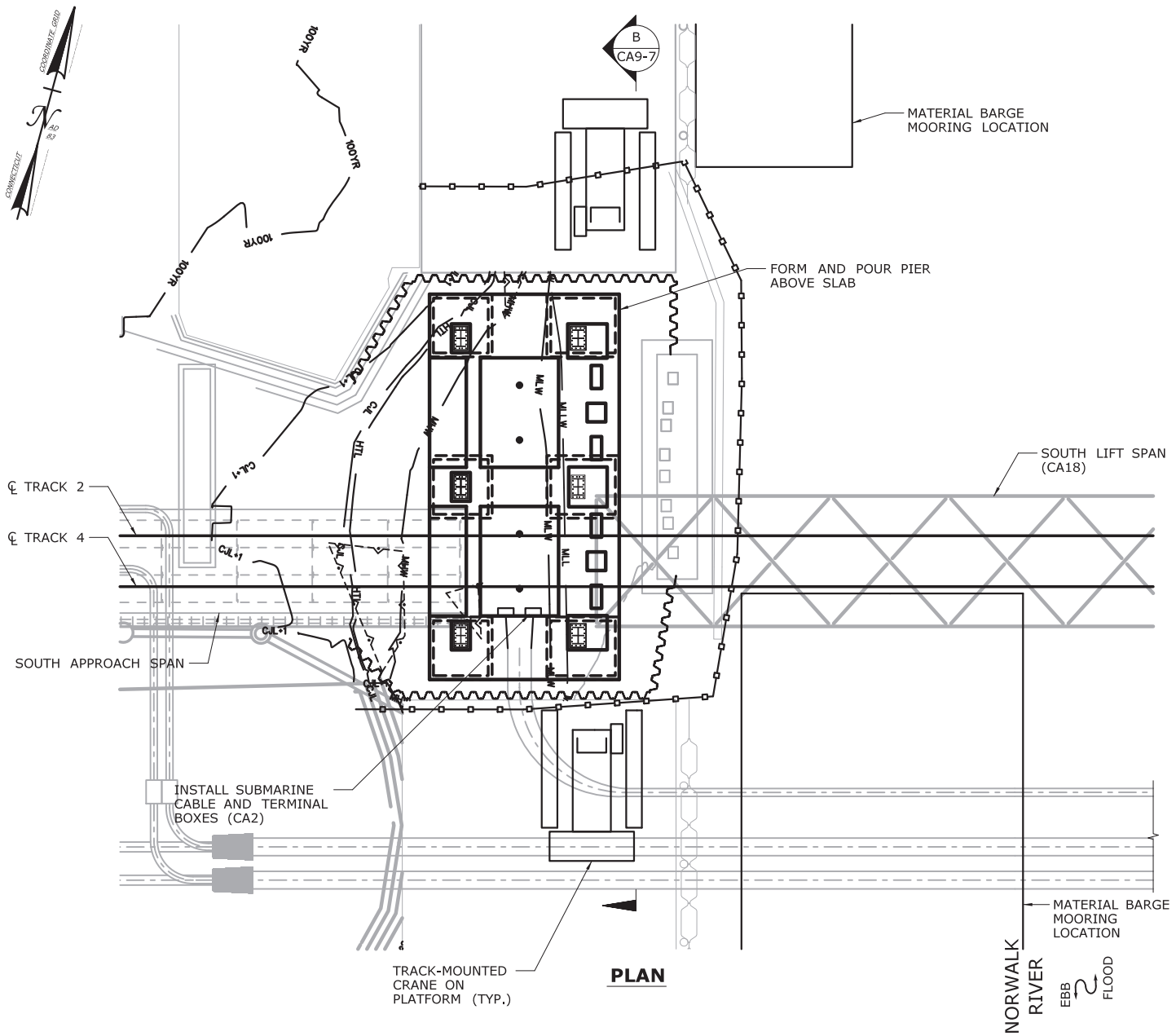
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 5 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA9-5**



PLAN

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
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	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.
X	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
X	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
2. FINAL CONCRETE POUR WILL TAKE PLACE FOLLOWING INSTALLATION OF THE SOUTH LIFT SPAN DURING A SERVICE OUTAGE ON TRACKS 1 AND 3.
3. THE MARINE ENCLOSURE WILL BE MODIFIED AS NEEDED TO INSTALL BRIDGE POWER AND CONTROL DUCTS.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THE MARINE ENCLOSURE WILL BE USED DURING EXISTING PIER REMOVAL AS PART OF ACTIVITY 14.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
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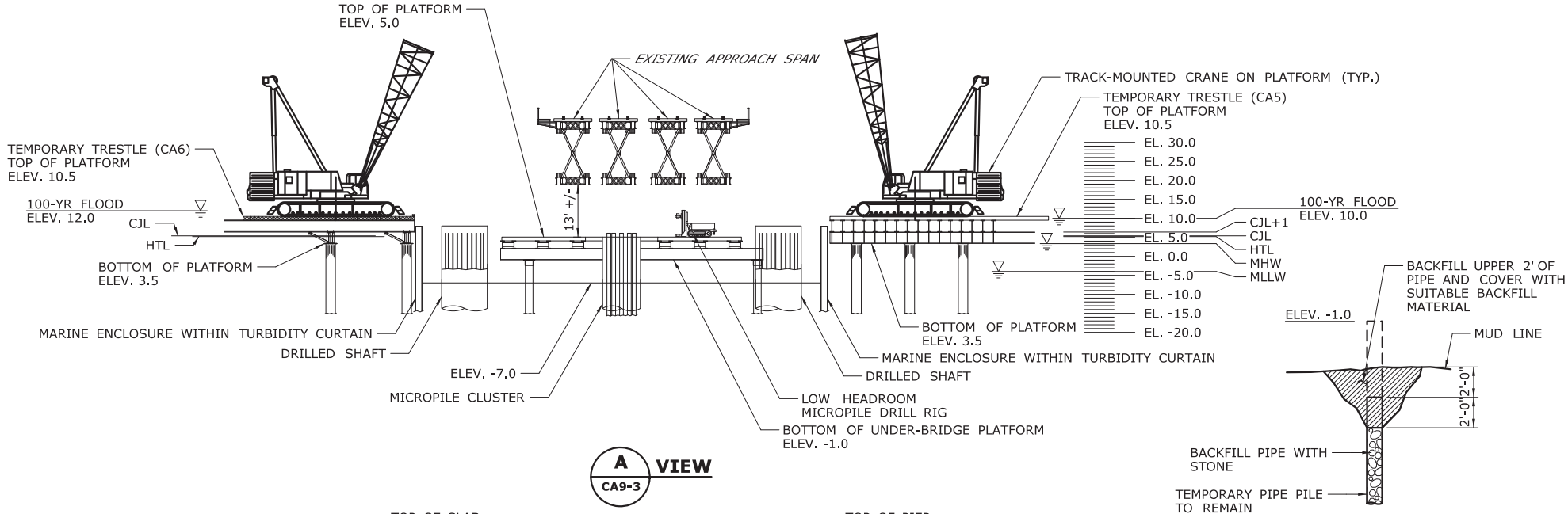
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

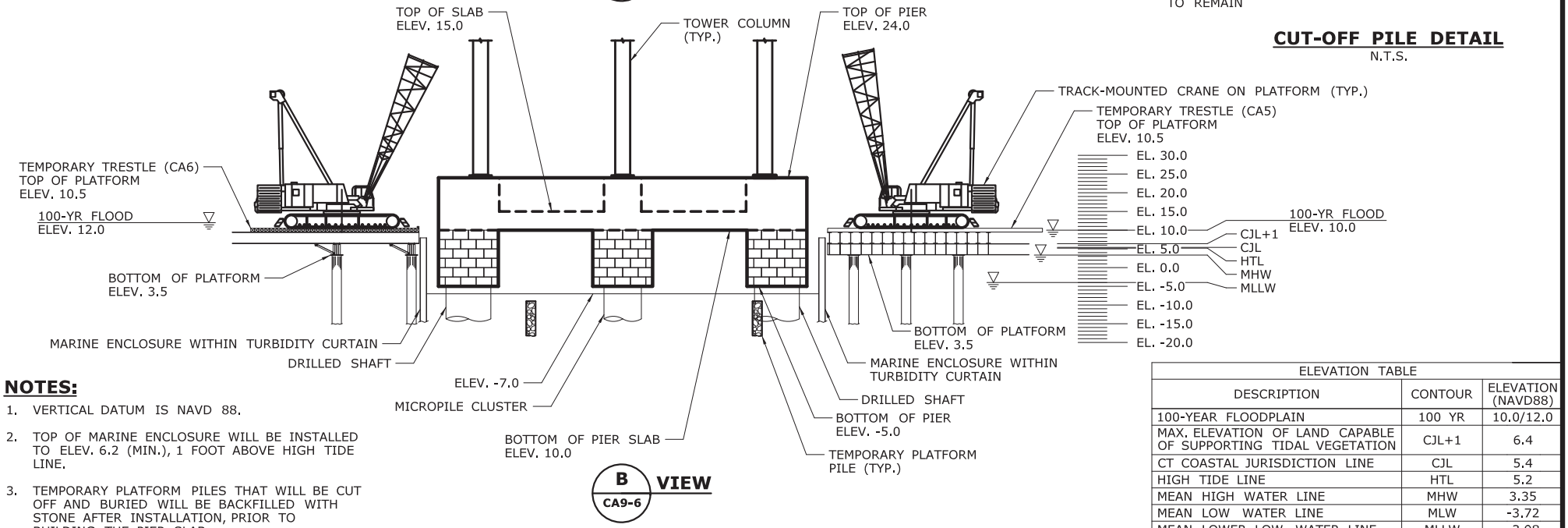
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 6 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA9-6**



A / **CA9-3** **VIEW**

CUT-OFF PILE DETAIL

N.T.S.



B / **CA9-6** **VIEW**

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
3. TEMPORARY PLATFORM PILES THAT WILL BE CUT OFF AND BURIED WILL BE BACKFILLED WITH STONE AFTER INSTALLATION, PRIOR TO BUILDING THE PIER SLAB.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'
(EXCEPT AS NOTED)

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — COMMISSION OF BRIDGES — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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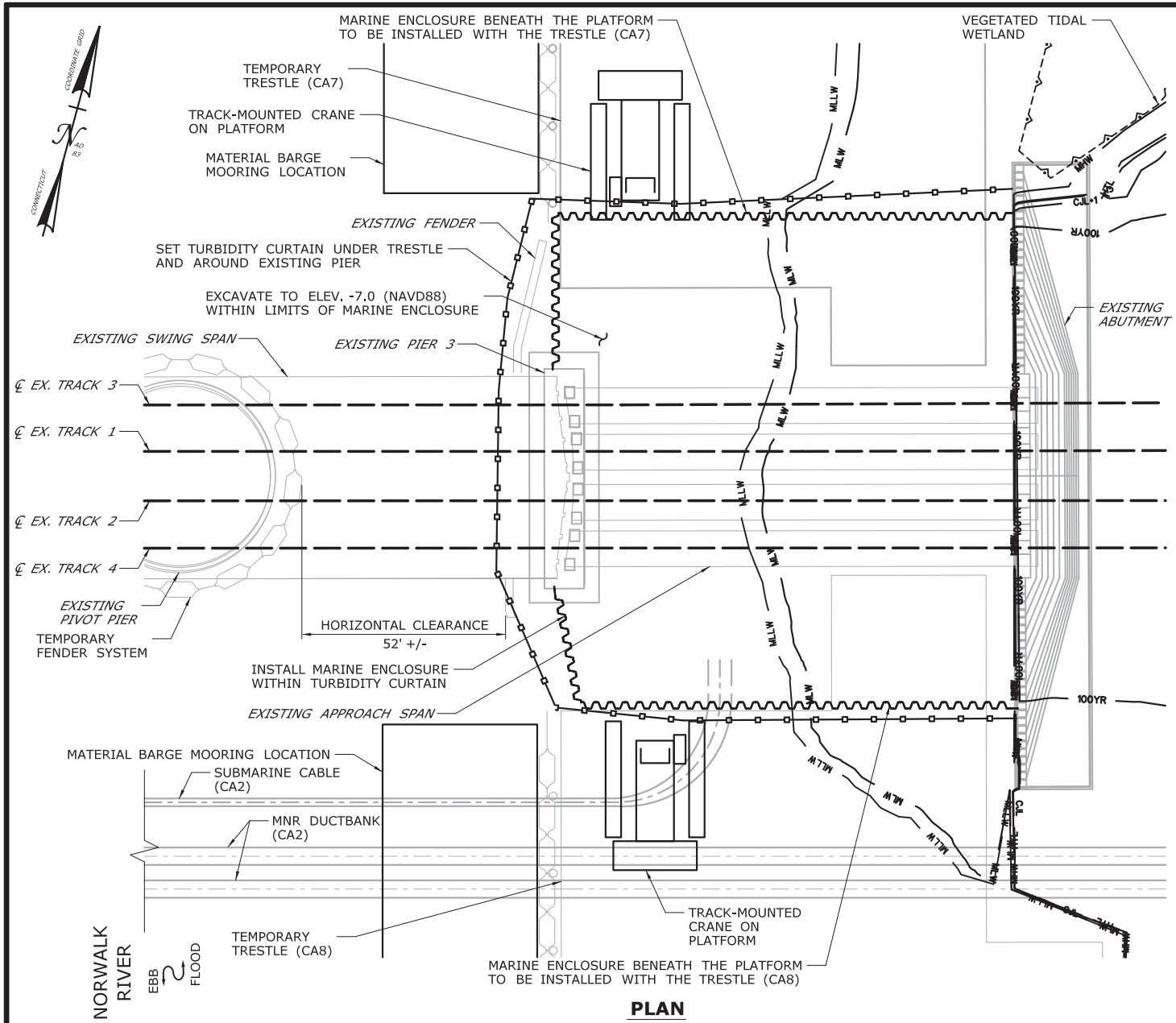
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 7 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA9-7**



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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

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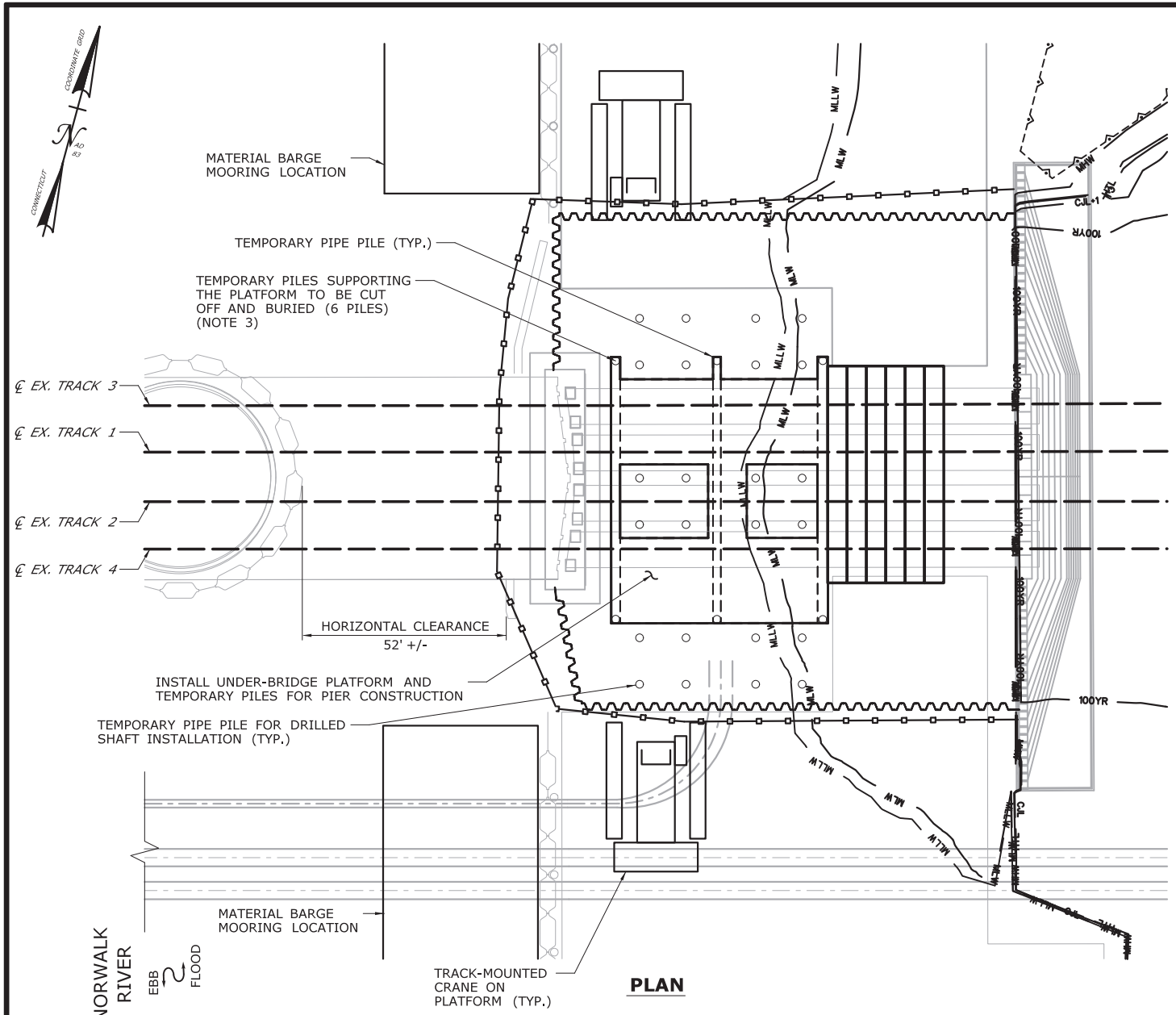
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 1 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA10-1**



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
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
X	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. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. ALL TEMPORARY PILES TO BE REMOVED, EXCEPT AS NOTED.
3. TEMPORARY PILES TO BE BACKFILLED WITH STONE FOLLOWING INSTALLATION. SEE CUT-OFF PILE DETAIL ON DWG. CA10-7.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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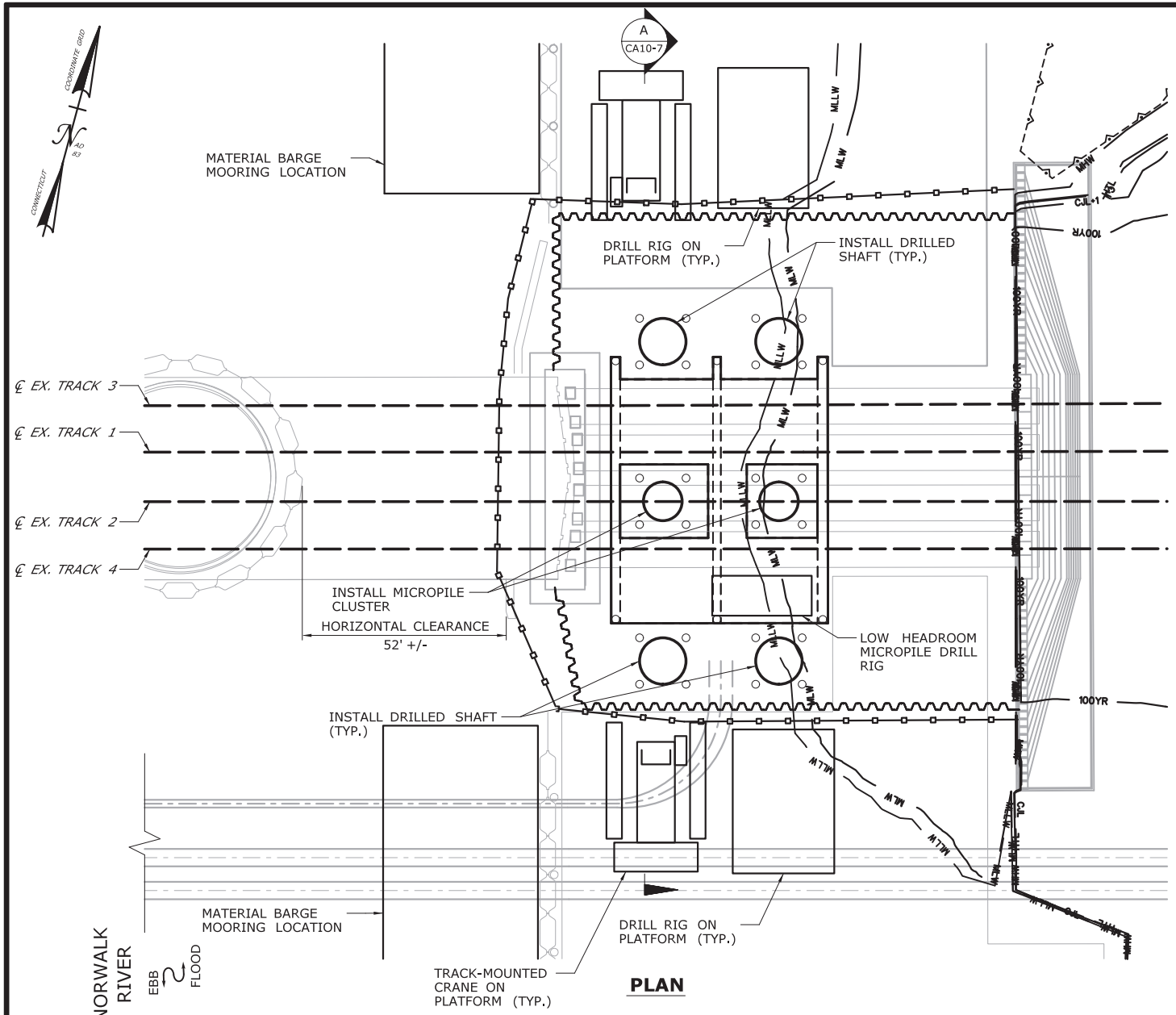
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 2 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA10-2**



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
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
X	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. 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.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

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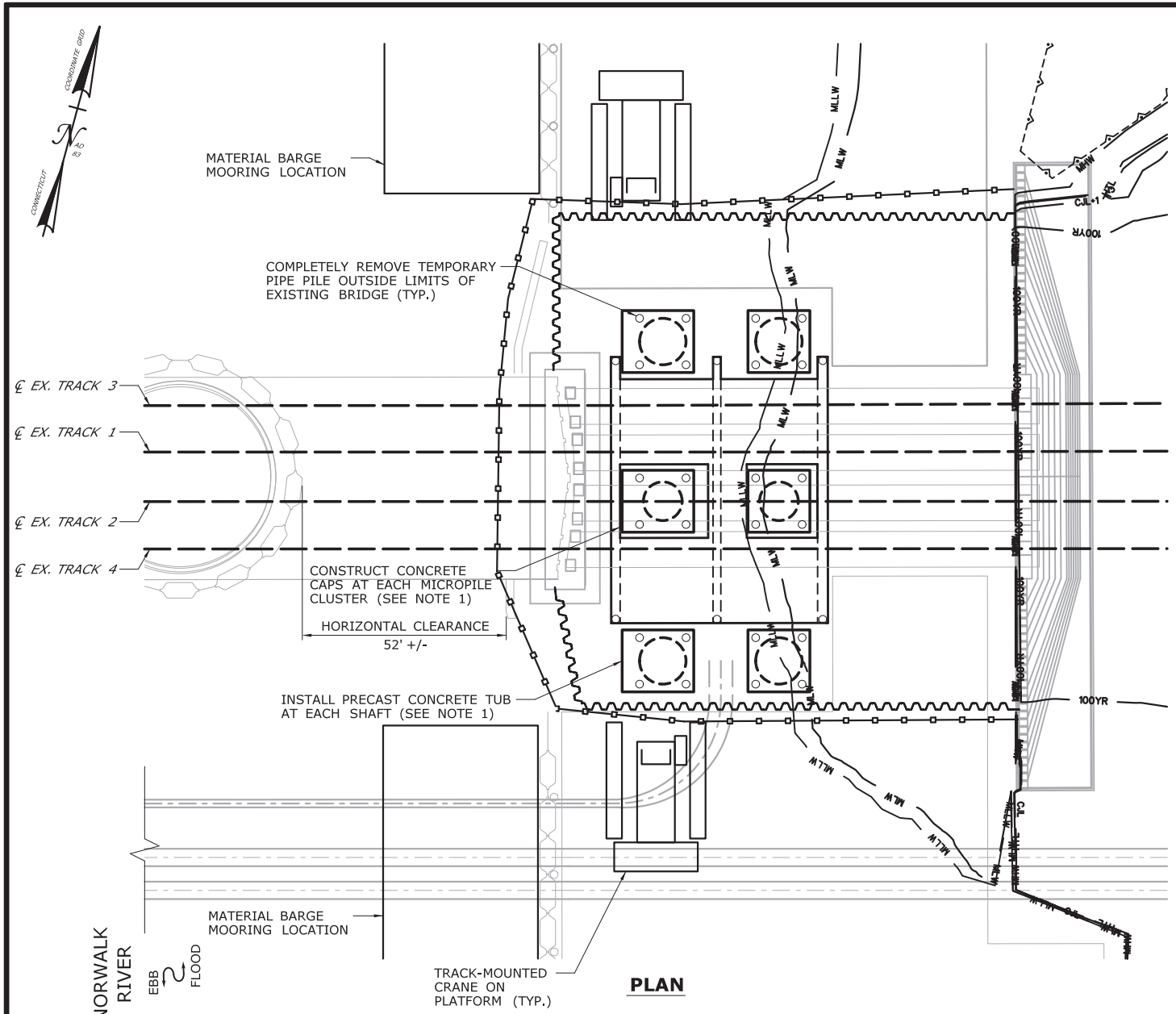
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 3 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA10-3**



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
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	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.
X	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
X	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. BOTTOM OF CAP ELEVATION IS EL. -5.0 (NAVD88).
2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
3. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
4. SEE VESSEL BERTHING PLAN FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT GREGORY J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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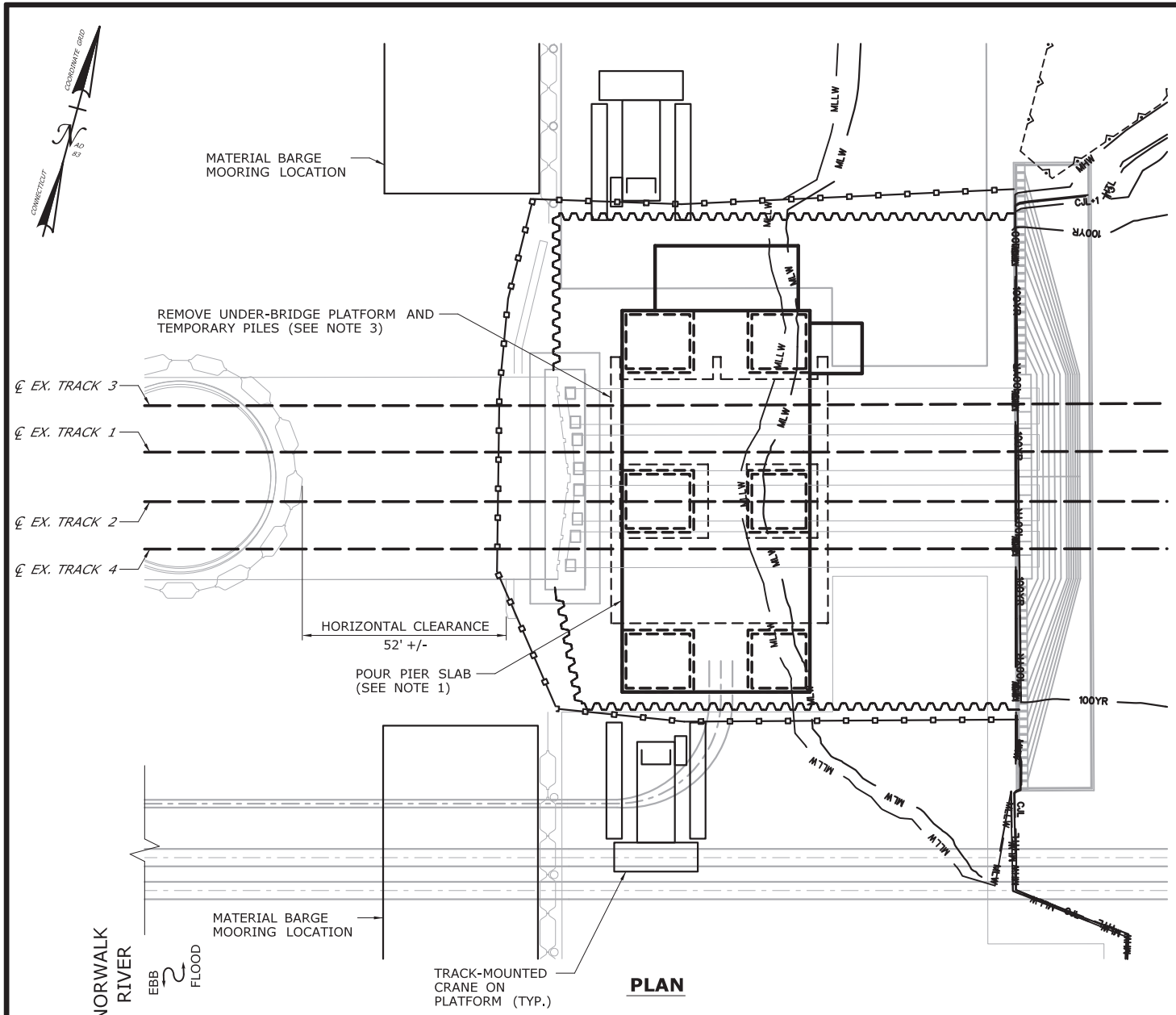
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: NORWALK
PROJECT NO.: 0301-0176
DRAWING TITLE: ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 4 OF 7)
DATE: 8-28-19
DRAWING NO.: CA10-4



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
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	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.
X	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
X	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. BOTTOM OF SLAB ELEVATION IS EL. 10.0 (NAVD)
2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
3. TEMPORARY PILES SHALL BE CUT OFF 2 FEET BELOW MUDLINE. SEE CUT-OFF PILE DETAIL ON DWG. NO. CA10-7.
4. SEE VESSEL BERTHING PLAN FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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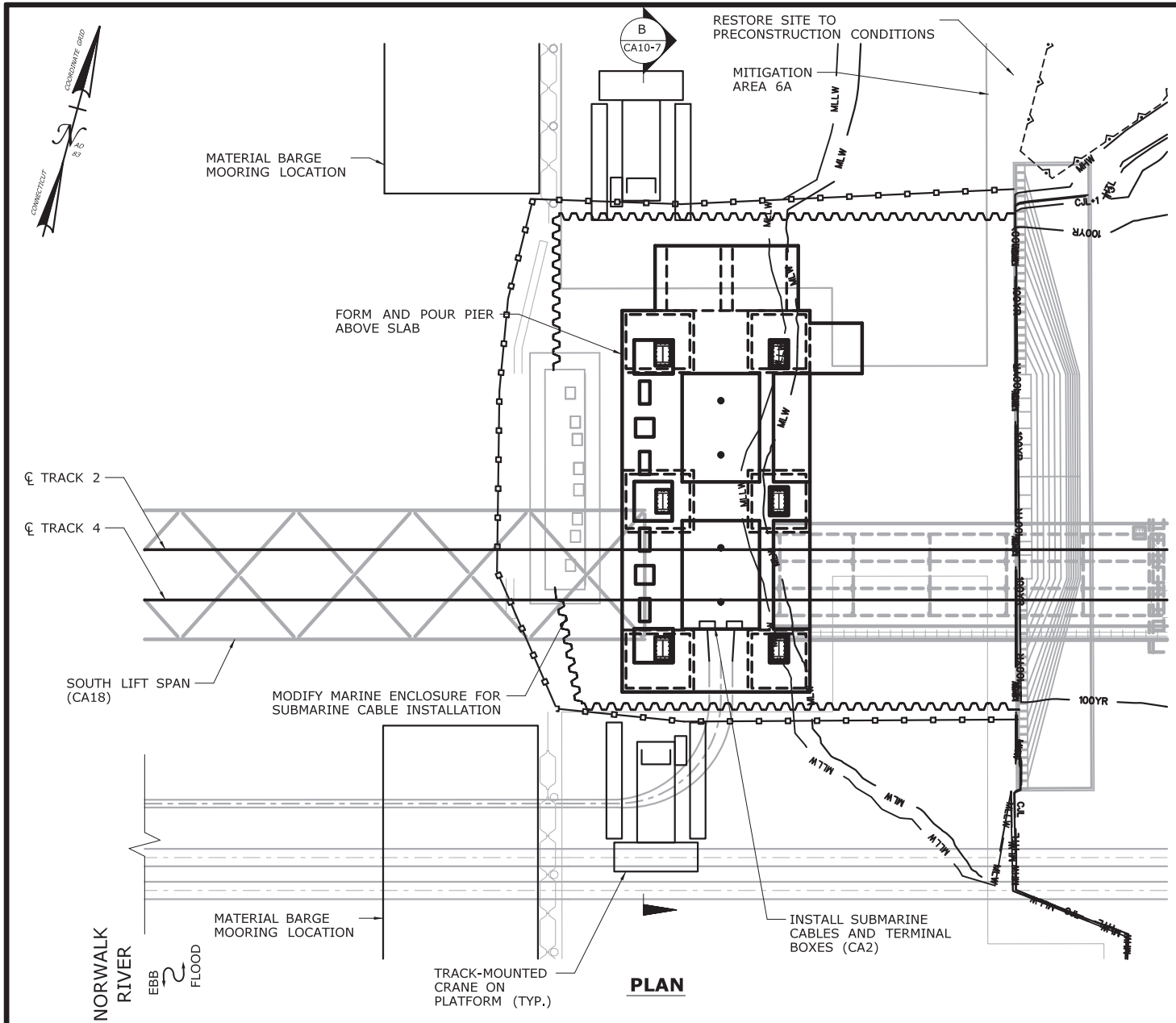
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 5 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA10-5**



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
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	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.
X	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
X	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
X	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. SEE NOTES 2 AND 4 ON DWG. NO. CA10-5.
2. FINAL CONCRETE POUR WILL TAKE PLACE FOLLOWING INSTALLATION OF THE SOUTH LIFT SPAN DURING A SERVICE OUTAGE ON TRACKS 1 AND 3.
3. THE MARINE ENCLOSURE WILL BE MODIFIED AS NEED TO INSTALL BRIDGE POWER AND CONTROL DUCTS.
4. THE MARINE ENCLOSURE WILL BE USED DURING EXISTING PIER REMOVAL AS PART OF ACTIVITY 14.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:

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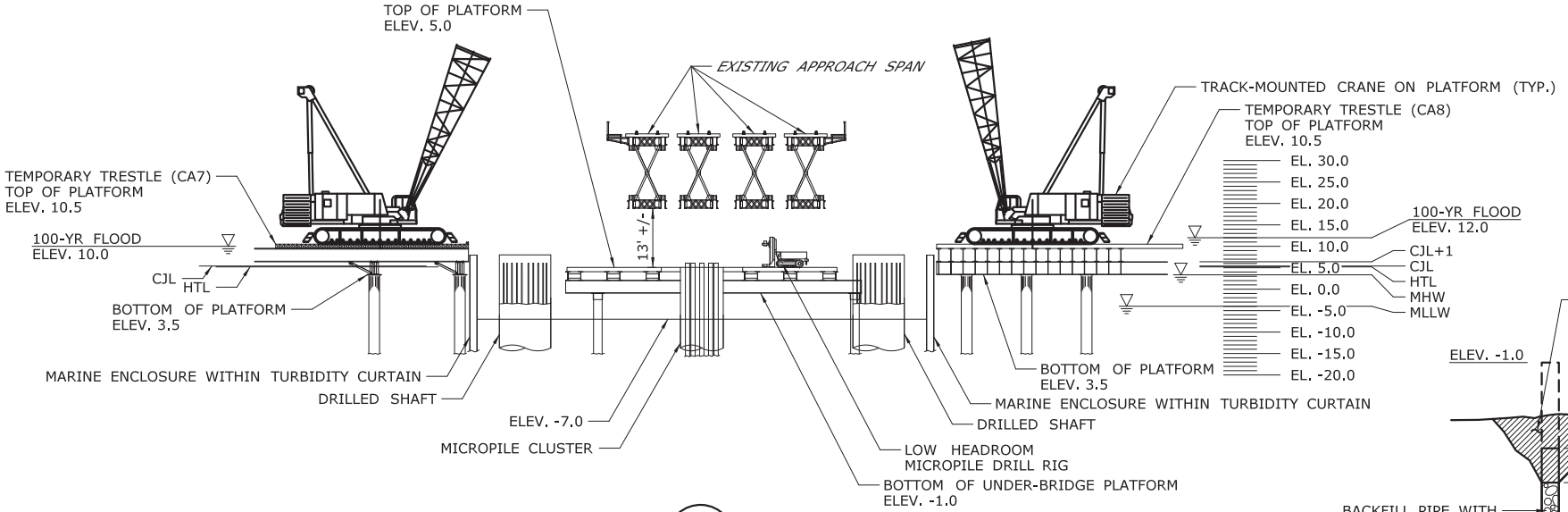
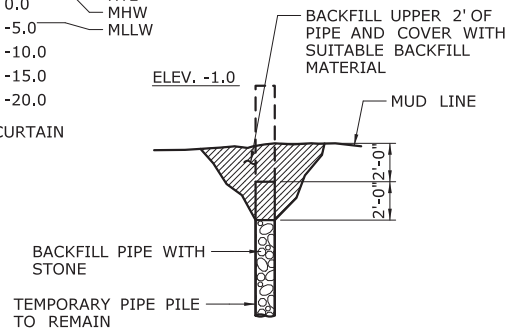
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

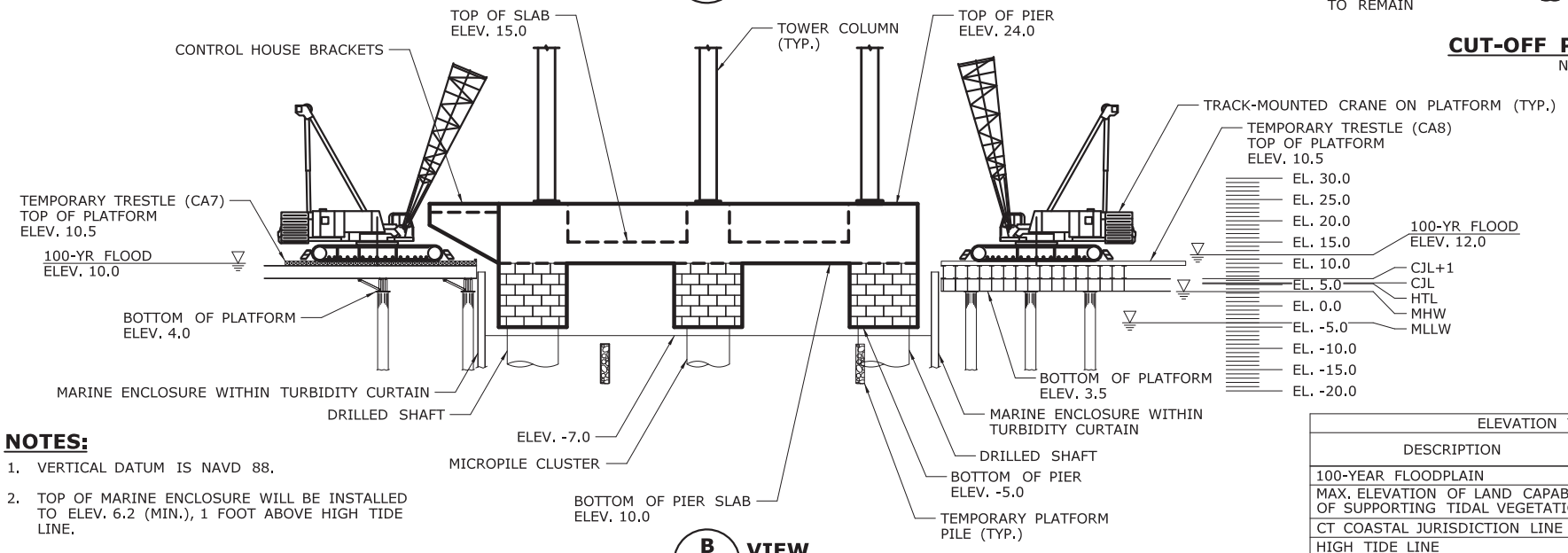
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 6 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA10-6**



A VIEW
CA10-3



CUT-OFF PILE DETAIL
N.T.S.



B VIEW
CA10-6

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE LINE.
3. TEMPORARY PLATFORM PILES THAT WILL BE CUT OFF AND BURIED WILL BE BACKFILLED WITH STONE AFTER INSTALLATION, PRIOR TO BUILDING THE PIER SLAB.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'
(EXCEPT AS NOTED)

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

SIGNATURE BLOCK:
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Tel (860) 257-7377
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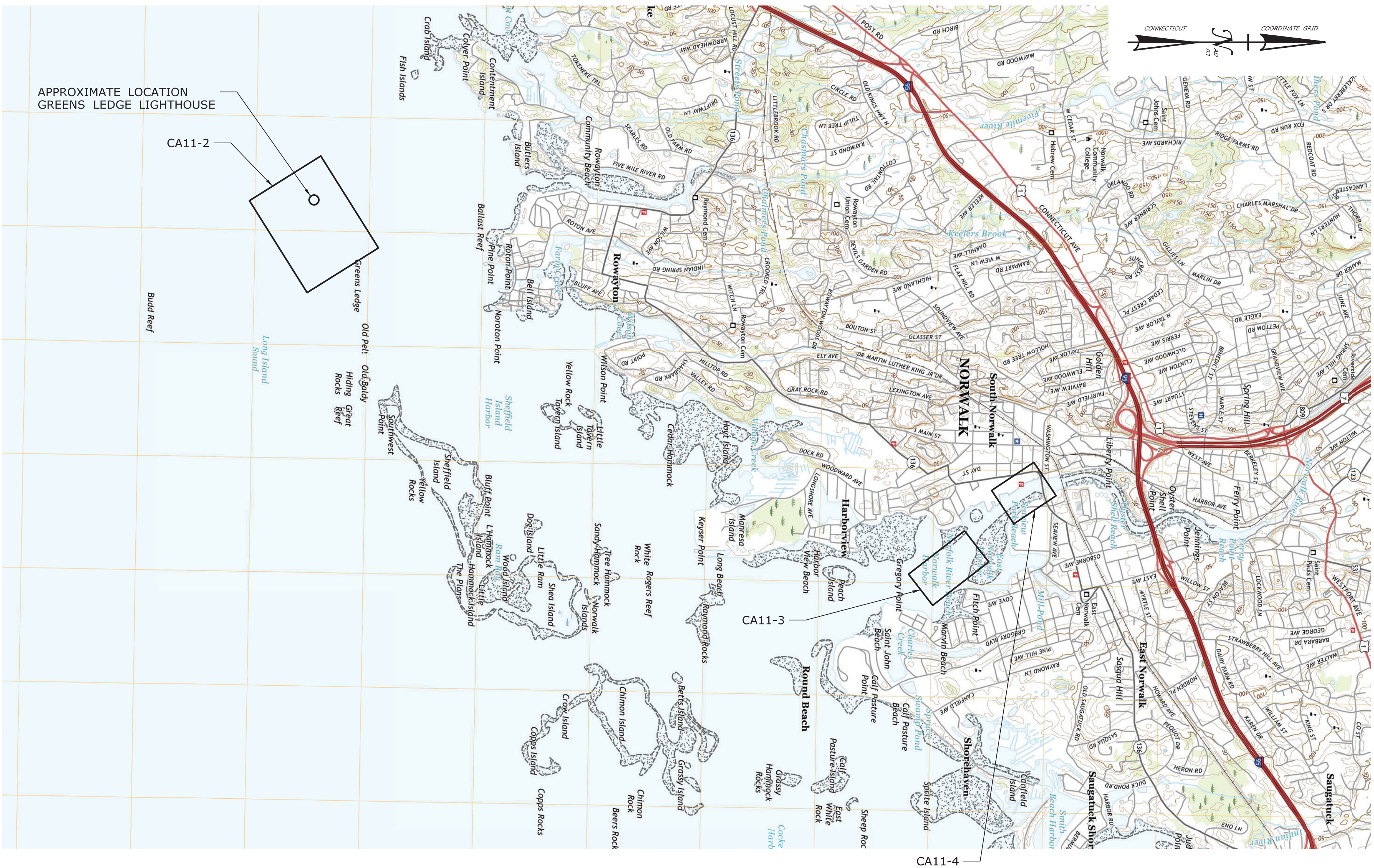
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

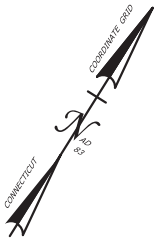
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 7 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA10-7**



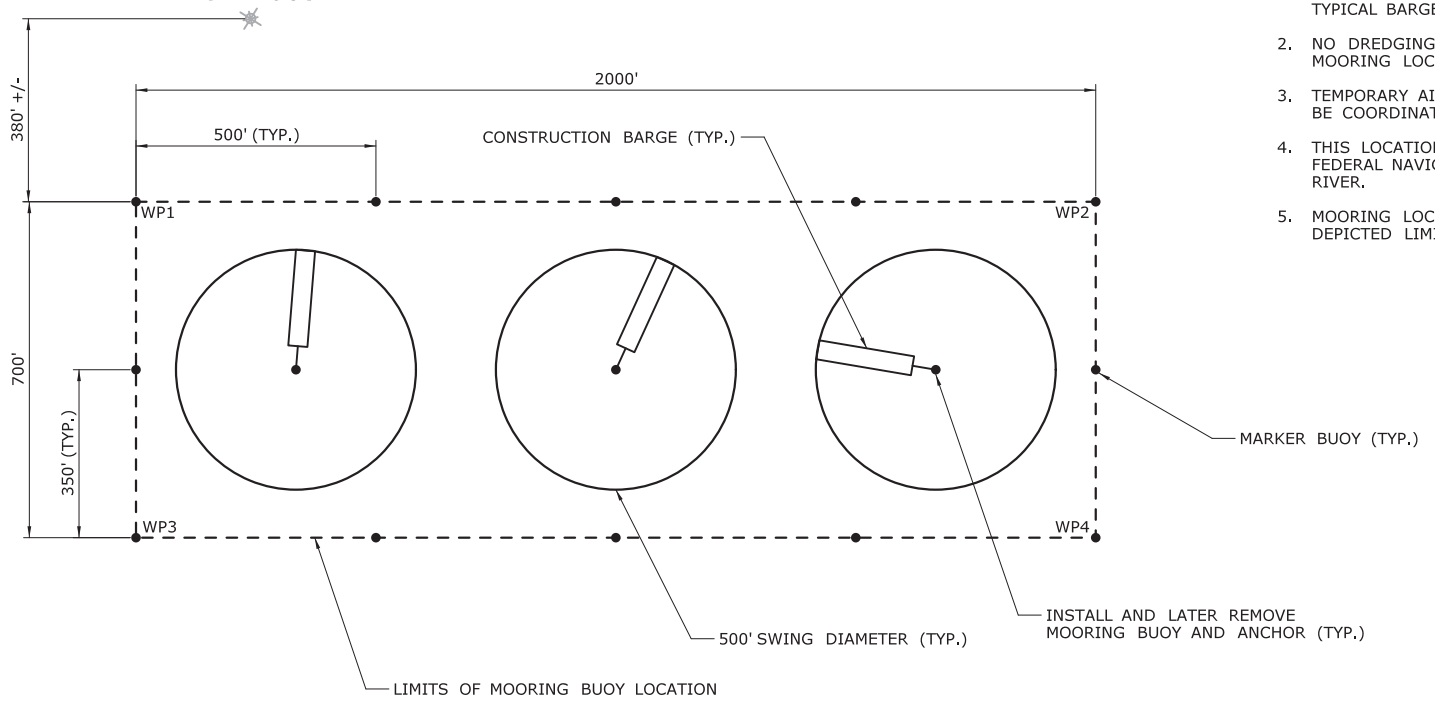
PLAN

SCALE: SCALE 1" = 4000' (0, 2000, 4000)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 11 BARGE MOORING (SHEET 1 OF 5)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA11-1



LONG ISLAND SOUND

GREENS LEDGE LIGHTHOUSE



PLAN

WORKING POINT	NORTHING	EASTING
WP1	576,219	808,590
WP2	577,280	810,286
WP3	575,626	808,962
WP4	576,687	810,657

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD BARGE MOORINGS 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	INSTALL MOORING BUOY AND ANCHOR.
X	REMOVE MOORING BUOY AND ANCHOR AT END OF CONSTRUCTION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. THIS LOCATION IS OUTSIDE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK RIVER.
5. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.

SCALE: SCALE 1" = 400' (0, 200, 400)

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

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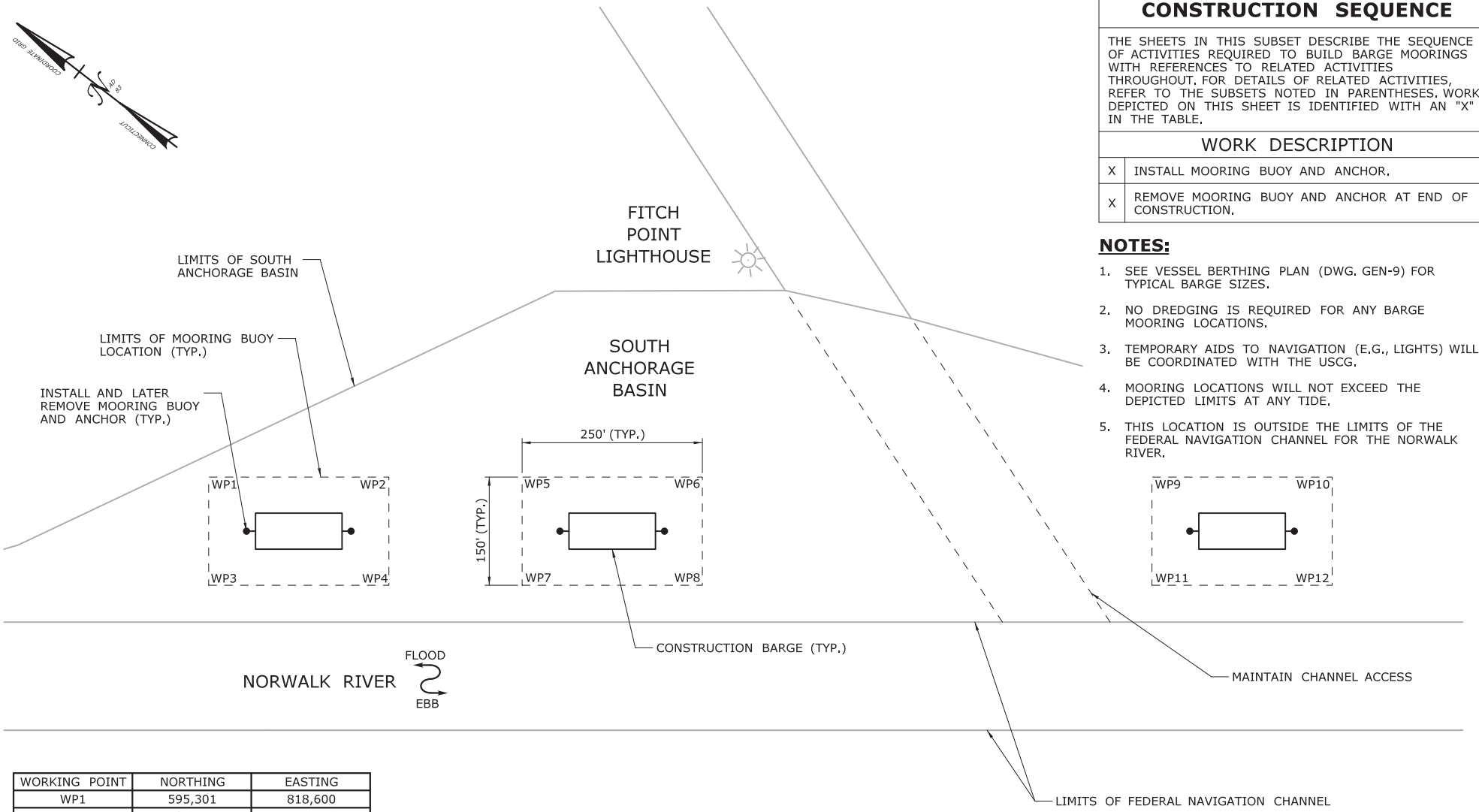
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 2 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA11-2**



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD BARGE MOORINGS 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	INSTALL MOORING BUOY AND ANCHOR.
X	REMOVE MOORING BUOY AND ANCHOR AT END OF CONSTRUCTION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.
5. THIS LOCATION IS OUTSIDE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK RIVER.

WORKING POINT	NORTHING	EASTING
WP1	595,301	818,600
WP2	595,104	818,753
WP3	595,209	818,481
WP4	595,012	818,634
WP5	594,958	818,866
WP6	594,760	819,019
WP7	594,866	818,747
WP8	594,668	818,901
WP9	594,267	819,401
WP10	594,070	819,554
WP11	594,175	819,283
WP12	593,978	819,436

PLAN

SCALE: SCALE 1" = 200' (0, 100, 200)

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

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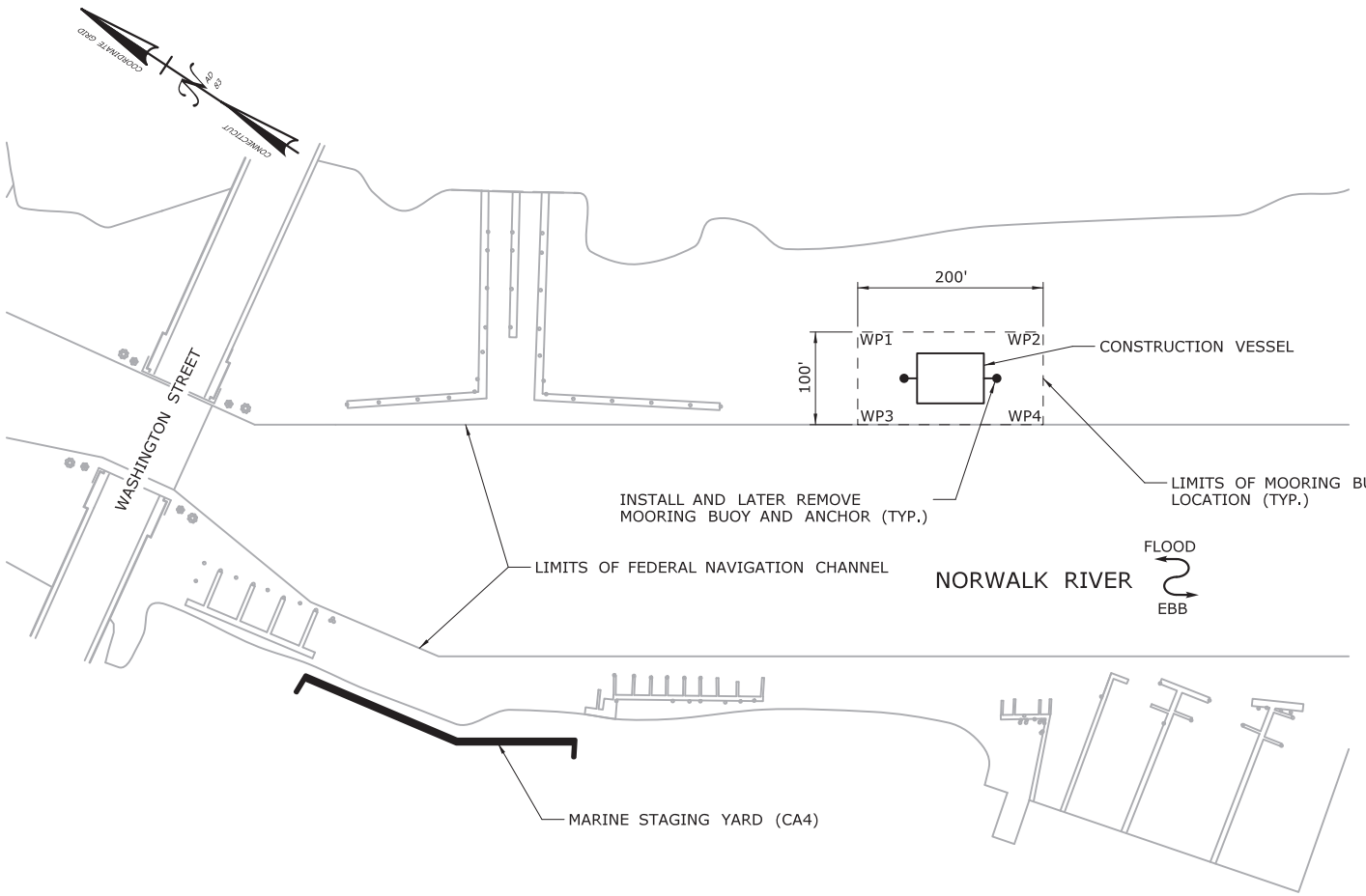
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 3 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA11-3**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	596,904	817,288
WP2	596,738	817,399
WP3	596,849	817,205
WP4	596,682	817,316

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD BARGE MOORINGS 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	INSTALL MOORING BUOY AND ANCHOR.
X	REMOVE MOORING BUOY AND ANCHOR AT END OF CONSTRUCTION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.
5. THIS LOCATION WILL BE USED TO MOOR SMALLER WORK BOATS AND CONSTRUCTION VESSELS.
6. THIS LOCATION IS OUTSIDE THE LIMITS FOR THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK RIVER.

SCALE: SCALE 1" = 200' (0, 100, 200)

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

SIGNATURE BLOCK:
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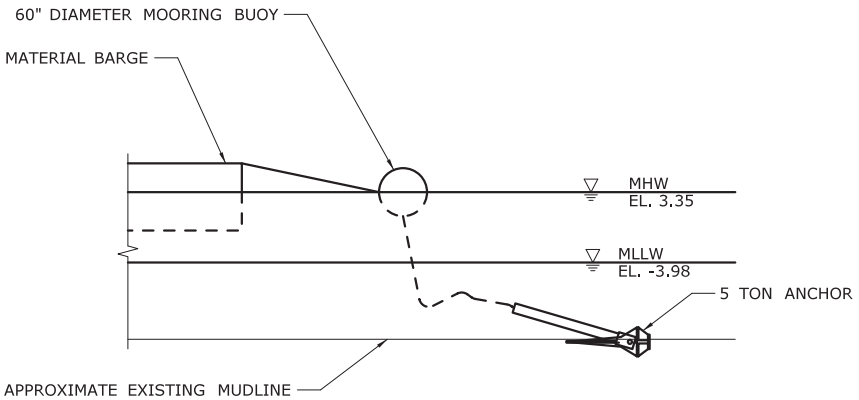
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 4 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA11-4**



MOORING BUOY DETAIL

ELEVATION TABLE		
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

SCALE:
SCALE 1" = 20'
0 10 20

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

SIGNATURE BLOCK:
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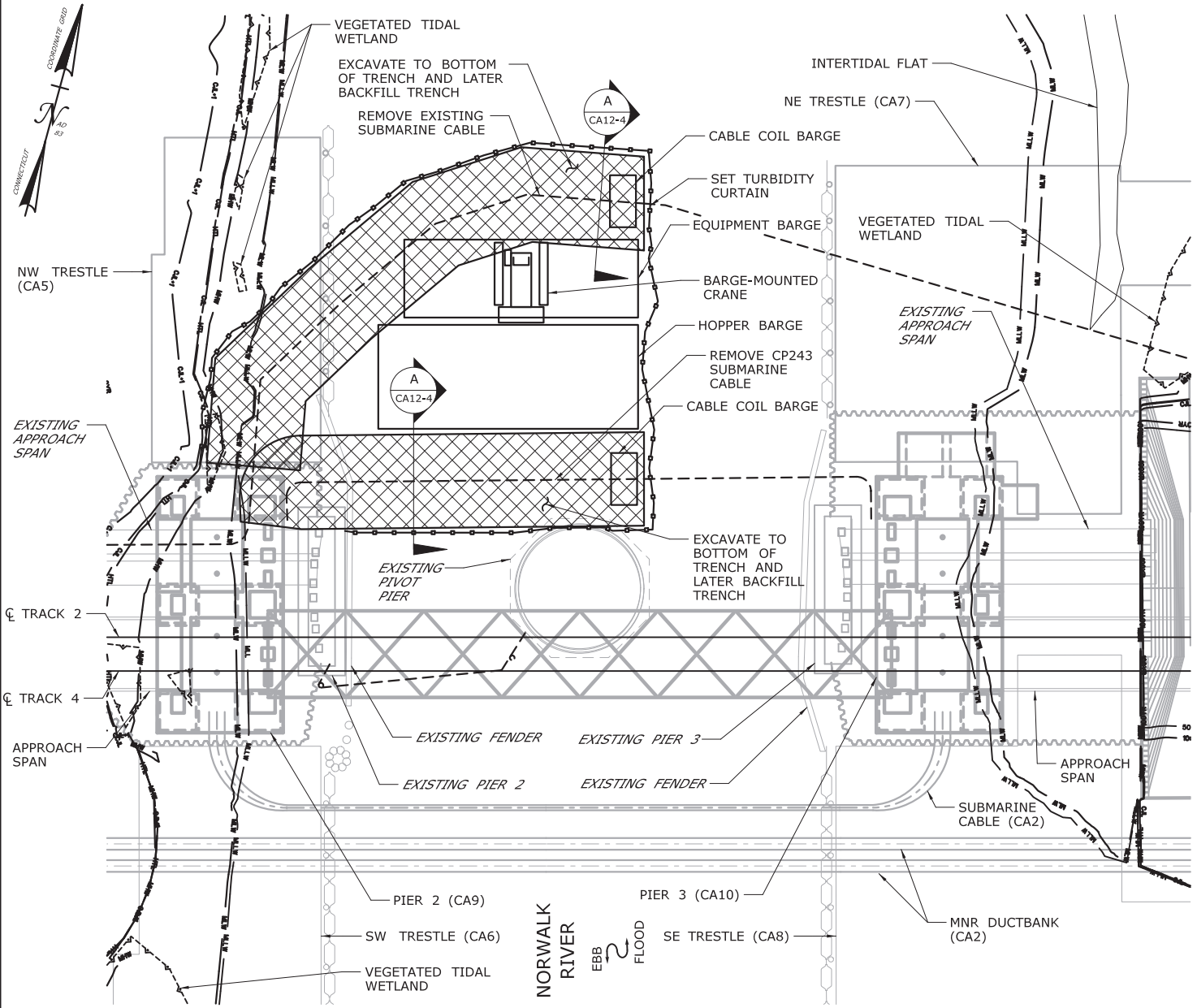
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 5 OF 5)**
DATE: **8-28-19**
DRAWING NO.: **CA11-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING 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	RESTRICT NAVIGATION TO ONE CHANNEL. MOBILIZE BARGES TO CLOSED CHANNEL.
X	SET TURBIDITY CURTAIN.
X	EXCAVATE TO BOTTOM OF TRENCH.
X	REMOVE EXISTING SUBMARINE CABLES WITHIN LIMITS OF EXCAVATION.
X	BACKFILL TRENCH.
	MOVE NAVIGATION RESTRICTION TO THE OTHER CHANNEL. MOBILIZE BARGES.
	SET TURBIDITY CURTAIN.
	EXCAVATE TO BOTTOM OF TRENCH.
	REMOVE REMAINDER OF EXISTING SUBMARINE CABLES.
	BACKFILL TRENCH.

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. WORK DEPICTED AS PROGRESSING FROM WEST CHANNEL TO EAST CHANNEL FOR ILLUSTRATION PURPOSES AND MAY BE REVERSED. IN EITHER CASE, ONLY ONE CHANNEL WILL BE OCCUPIED AT A TIME.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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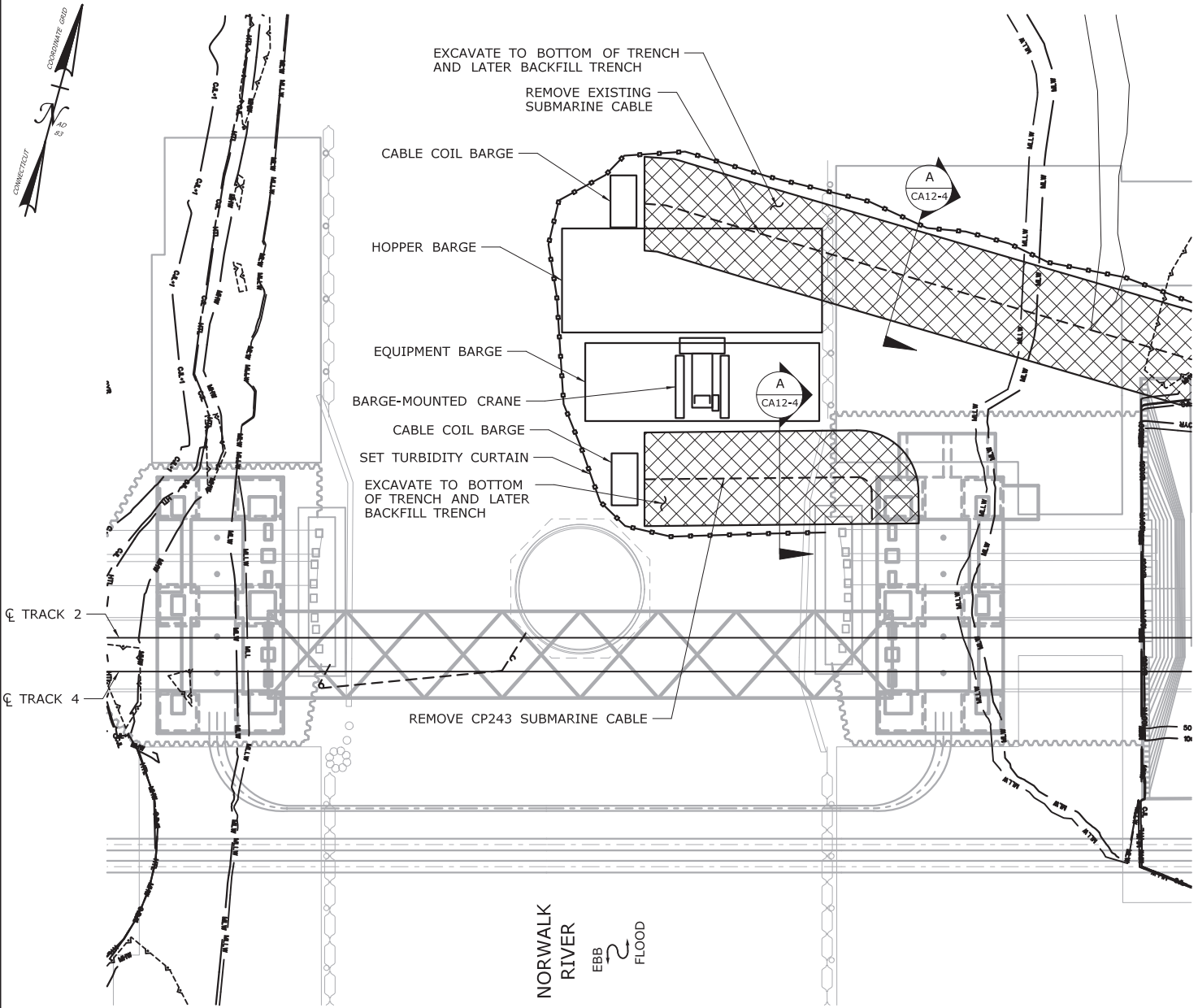
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (1 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA12-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING 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
	RESTRICT NAVIGATION TO ONE CHANNEL. MOBILIZE BARGES TO CLOSED CHANNEL.
	SET TURBIDITY CURTAIN.
	EXCAVATE TO BOTTOM OF TRENCH.
	REMOVE EXISTING SUBMARINE CABLES WITHIN LIMITS OF EXCAVATION.
	BACKFILL TRENCH.
X	MOVE NAVIGATION RESTRICTION TO THE OTHER CHANNEL. MOBILIZE BARGES.
X	SET TURBIDITY CURTAIN.
X	EXCAVATE TO BOTTOM OF TRENCH.
X	REMOVE REMAINDER OF EXISTING SUBMARINE CABLES.
X	BACKFILL TRENCH.

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. WORK DEPICTED AS PROGRESSING FROM WEST CHANNEL TO EAST CHANNEL FOR ILLUSTRATION PURPOSES AND MAY BE REVERSED. IN EITHER CASE, ONLY ONE CHANNEL WILL BE OCCUPIED AT A TIME.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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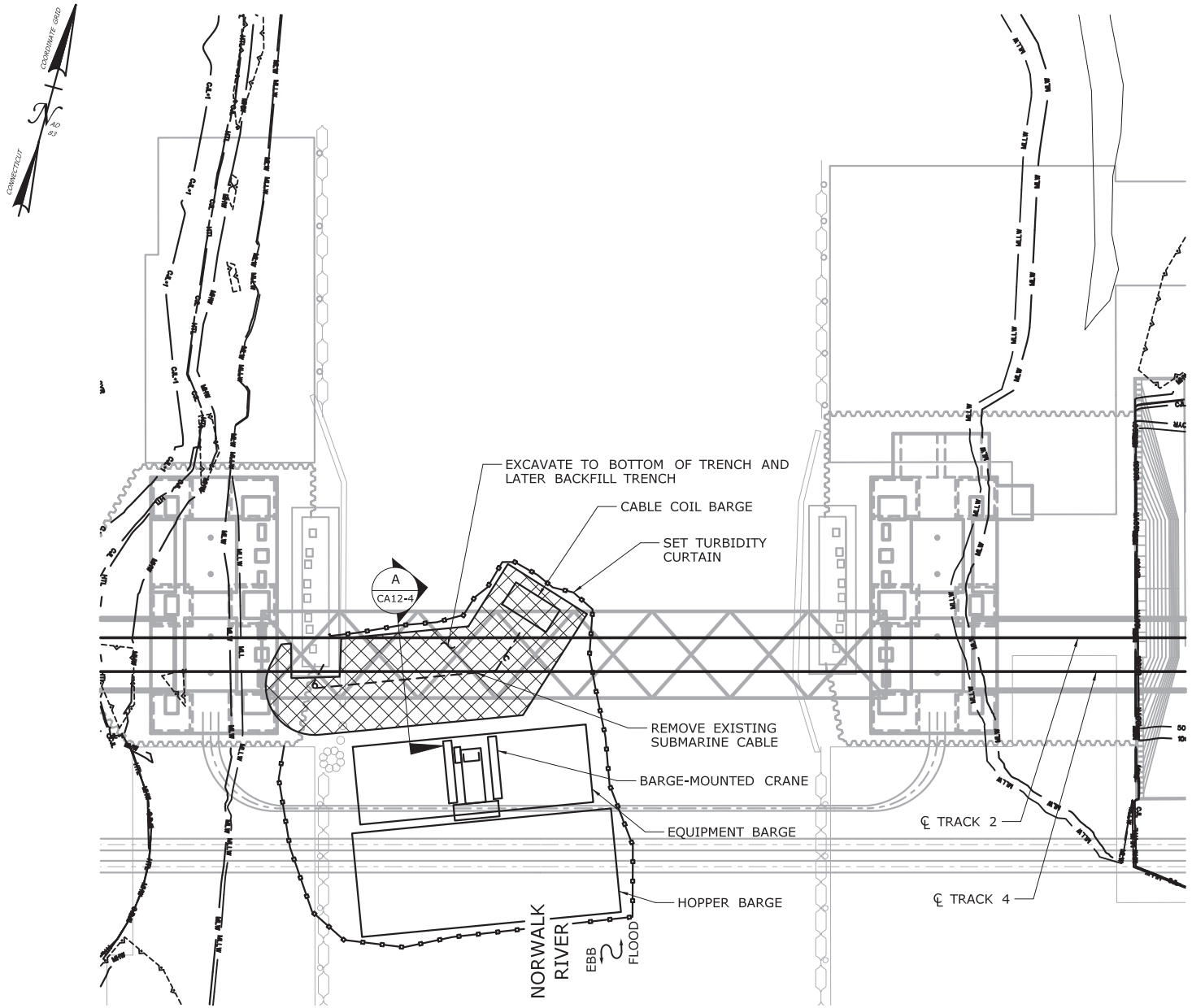
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (2 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA12-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING 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	RESTRICT NAVIGATION TO EAST CHANNEL. MOBILIZE BARGES TO WEST CHANNEL.
X	SET TURBIDITY CURTAIN.
X	EXCAVATE TO BOTTOM OF TRENCH.
X	REMOVE EXISTING SUBMARINE CABLE.
X	BACKFILL TRENCH.

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. 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. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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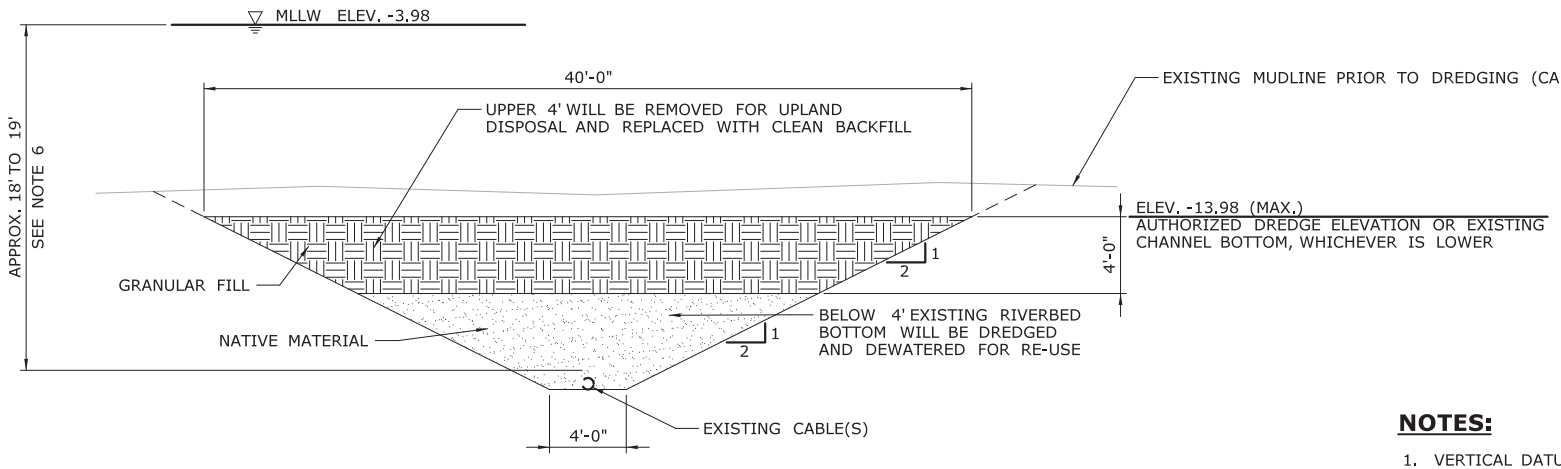
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (3 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA12-3**



SECTION A CA12-1 | A CA12-2 | A CA12-3

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. 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.
3. UPPER 4' OF EXCAVATED MATERIAL TO BE TREATED AS CONTAMINATED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION, REGARDLESS OF WHETHER DREDGING (SEE ACTIVITY 17) HAS OCCURRED AT THE EXCAVATION.
4. UPPER 4' OF EXCAVATED MATERIAL ALONG THE CP243 CABLE ROUTE WILL HAVE BEEN RECENTLY PLACED AND MAY BE TESTED FOR CONTAMINATION TO DETERMINE SUITABILITY FOR RE-USE AS BACKFILL.
5. IF MATERIAL BELOW 4' IS FOUND TO BE CONTAMINATED OR OTHERWISE DETERMINED UNSUITABLE FOR RE-USE, IT WILL BE REPLACED WITH CLEAN BACKFILL.
6. EXISTING CABLE DEPTH BELOW RIVER BOTTOM VARIES. AVAILABLE AS-BUILT INFORMATION INDICATES CABLE DEPTHS APPROXIMATELY 8' TO 9' BELOW THE AUTHORIZED DREDGE ELEVATION.
7. TRENCH DIMENSIONS SHOWN ARE BASED ON ASSUMED CABLE DEPTHS AND MAY VARY WITH ACTUALLY FIELD CONDITIONS.
8. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE IN FEET 0 5 10 SCALE 1"=10'

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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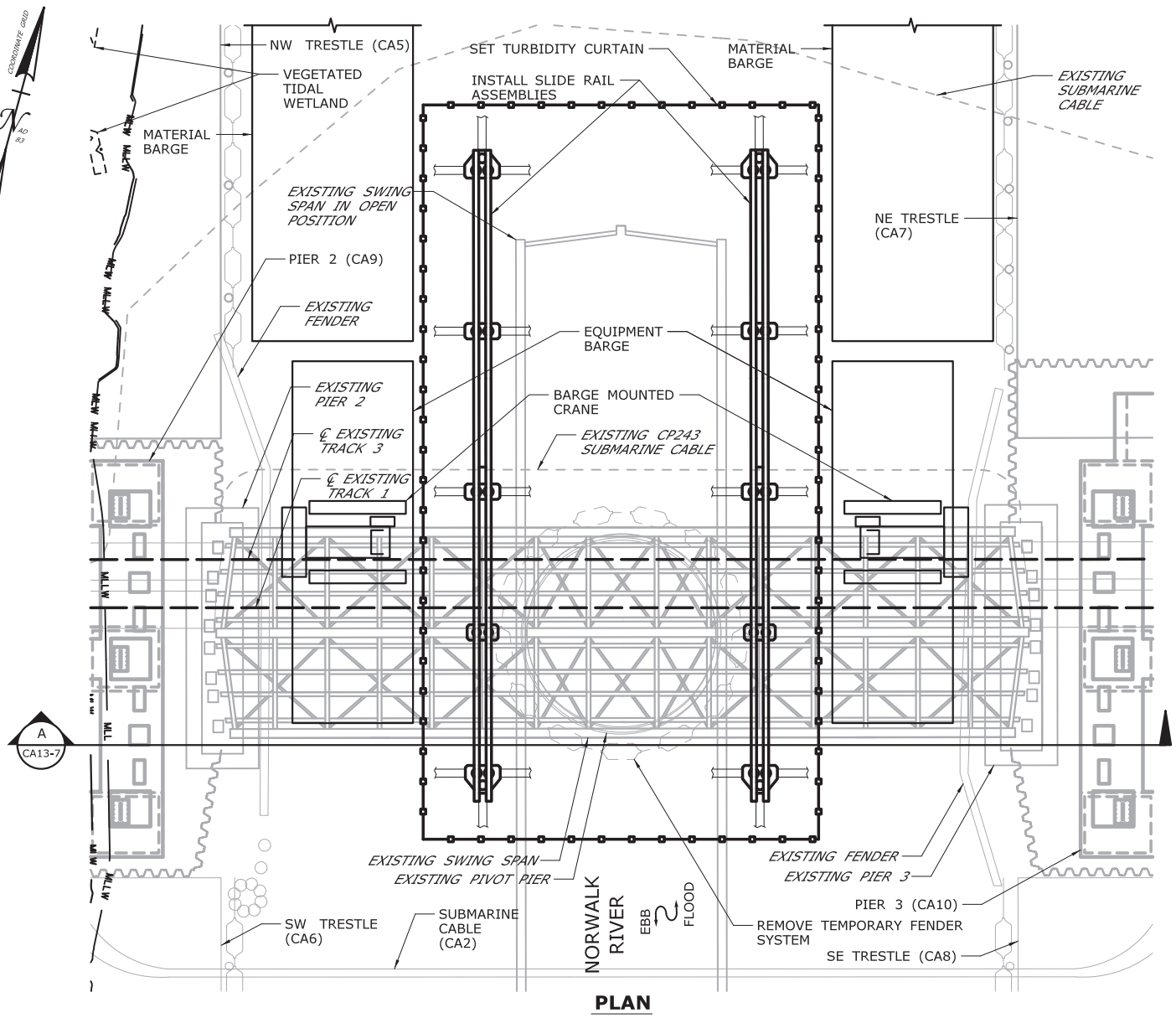
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (4 OF 4)**
DATE: **8-28-19**
DRAWING NO.: **CA12-4**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
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 TRESTLES.
	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.

NOTES:

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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:

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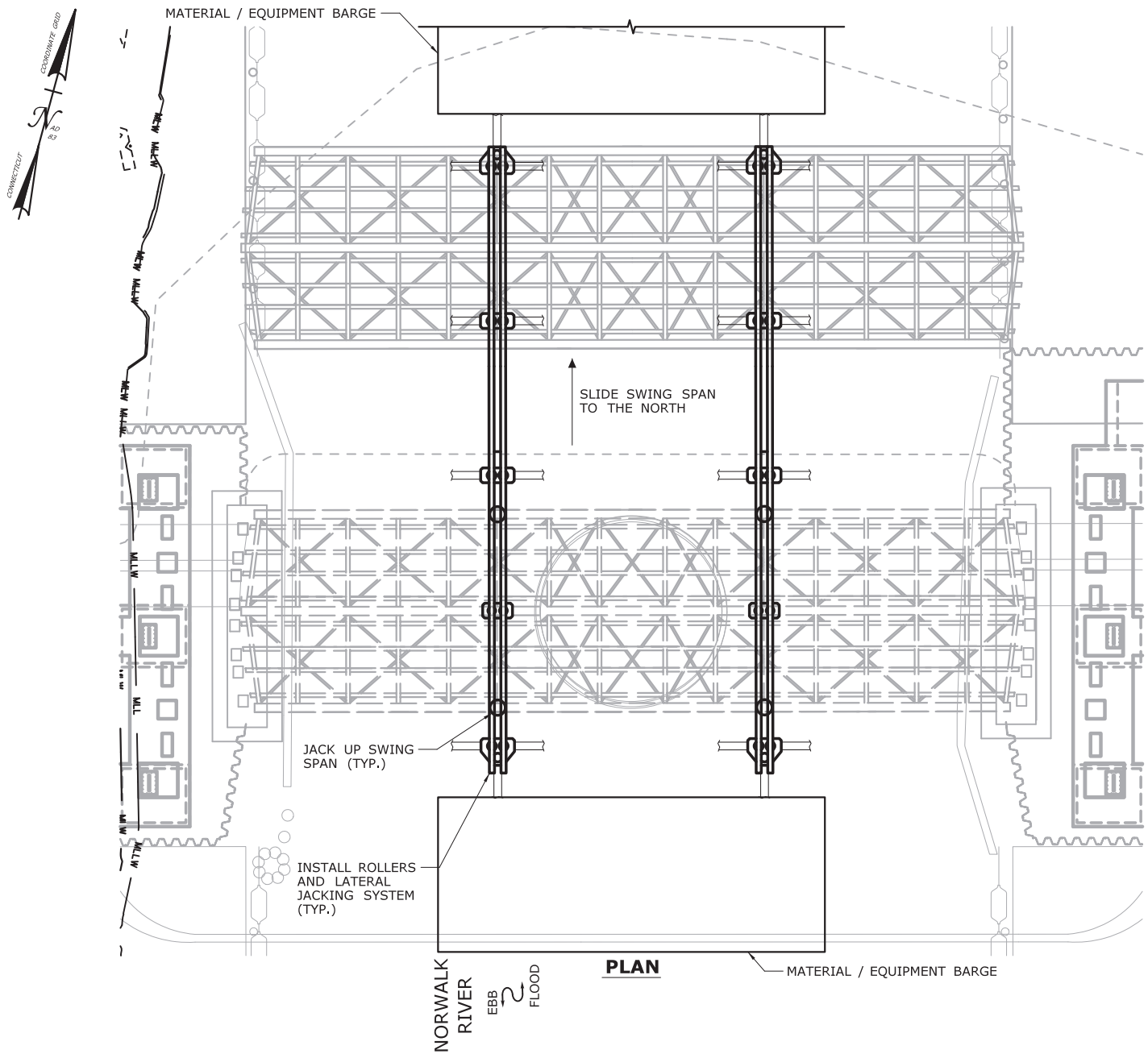
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 1 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-1**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
X	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 TRESTLES.
	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.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — CHRISTOPHER J. BROWN — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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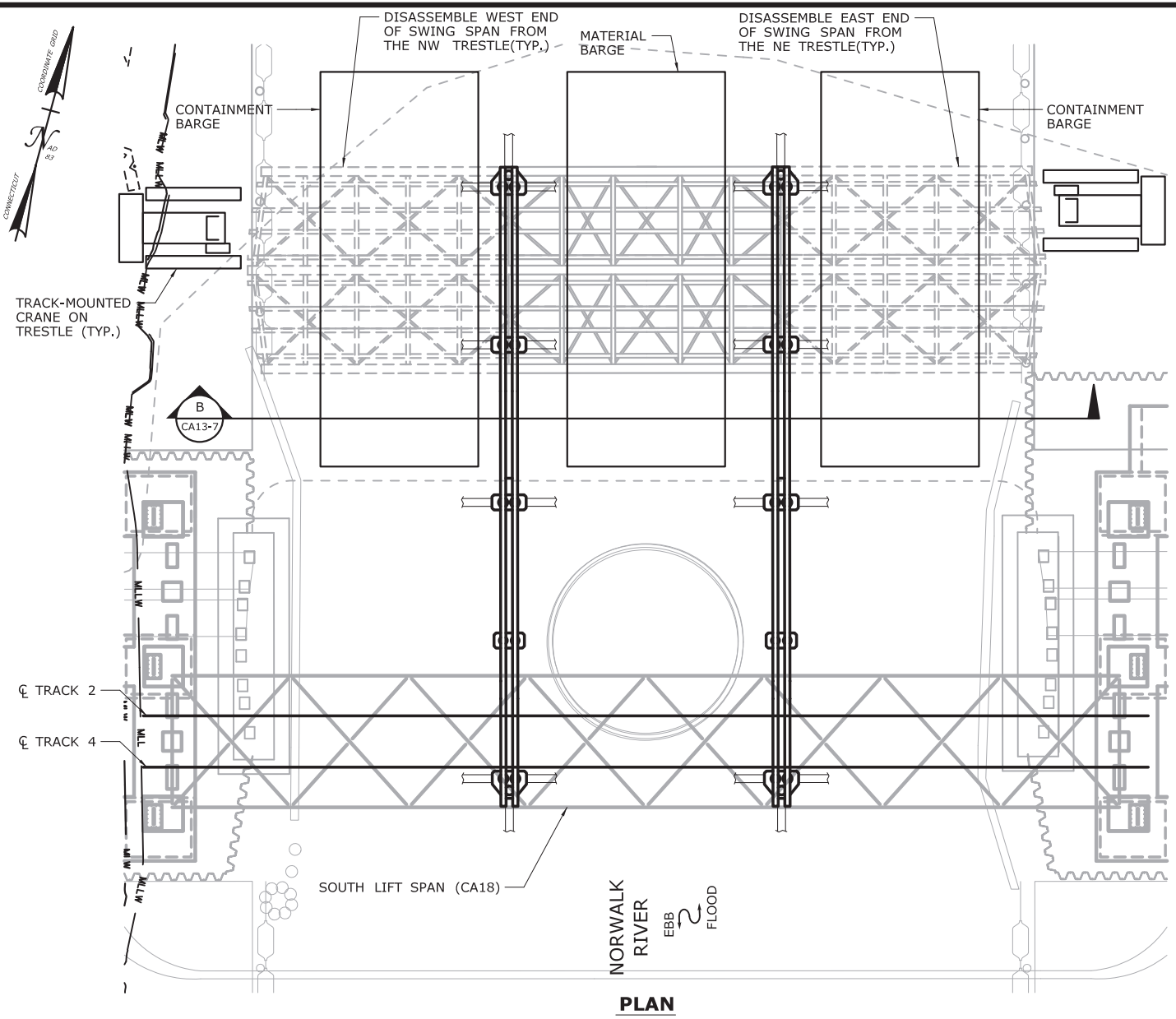
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 2 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-2**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	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.
X	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
	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.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
3. CONTAINMENT BARGES WILL BE USED TO PREVENT EQUIPMENT, MATERIALS DEBRIS AND OTHER PRODUCTS OF SWING SPAN DISASSEMBLY FROM FALLING INTO THE WATER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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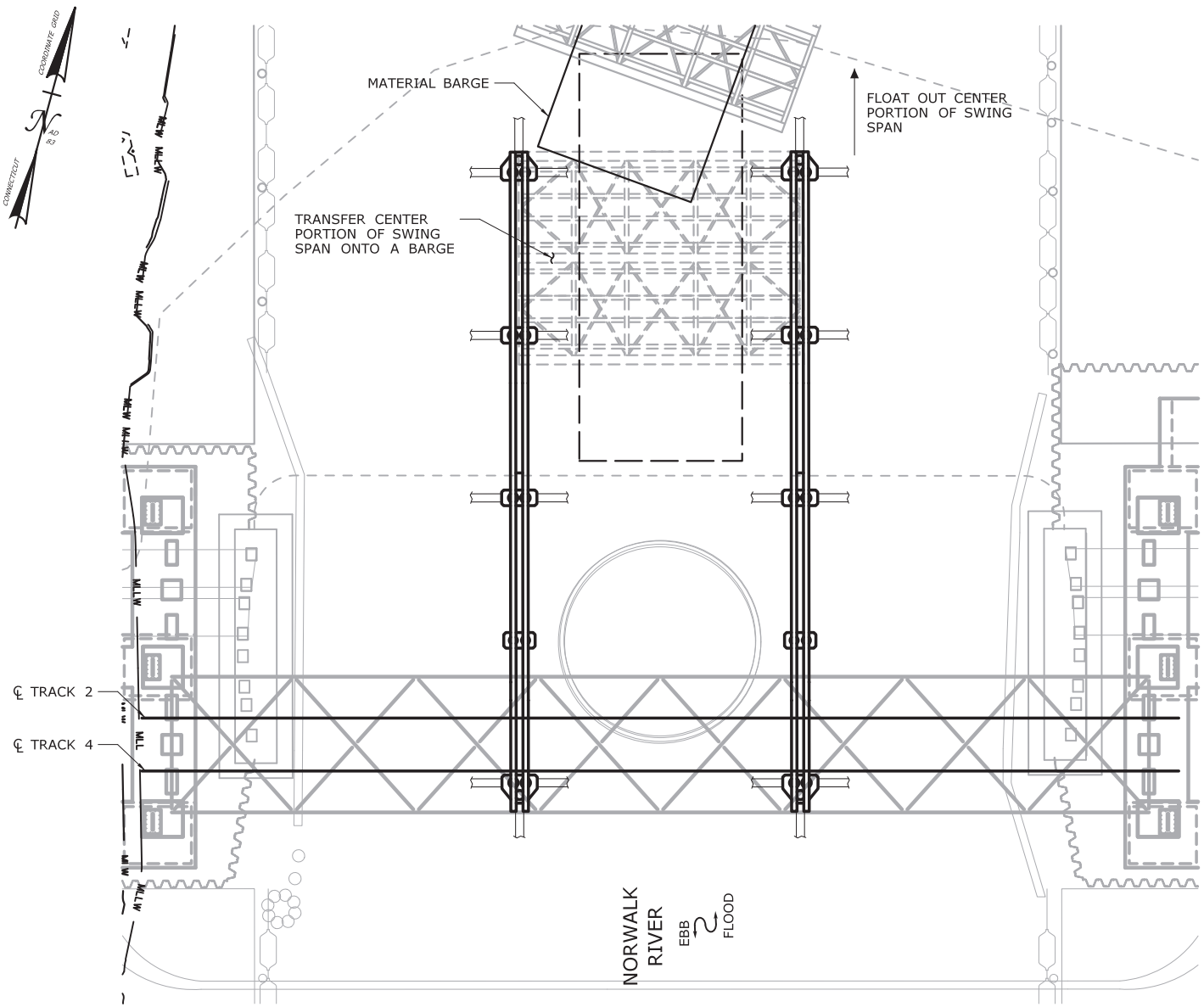
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 3 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-3**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	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 TRESTLES.
X	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.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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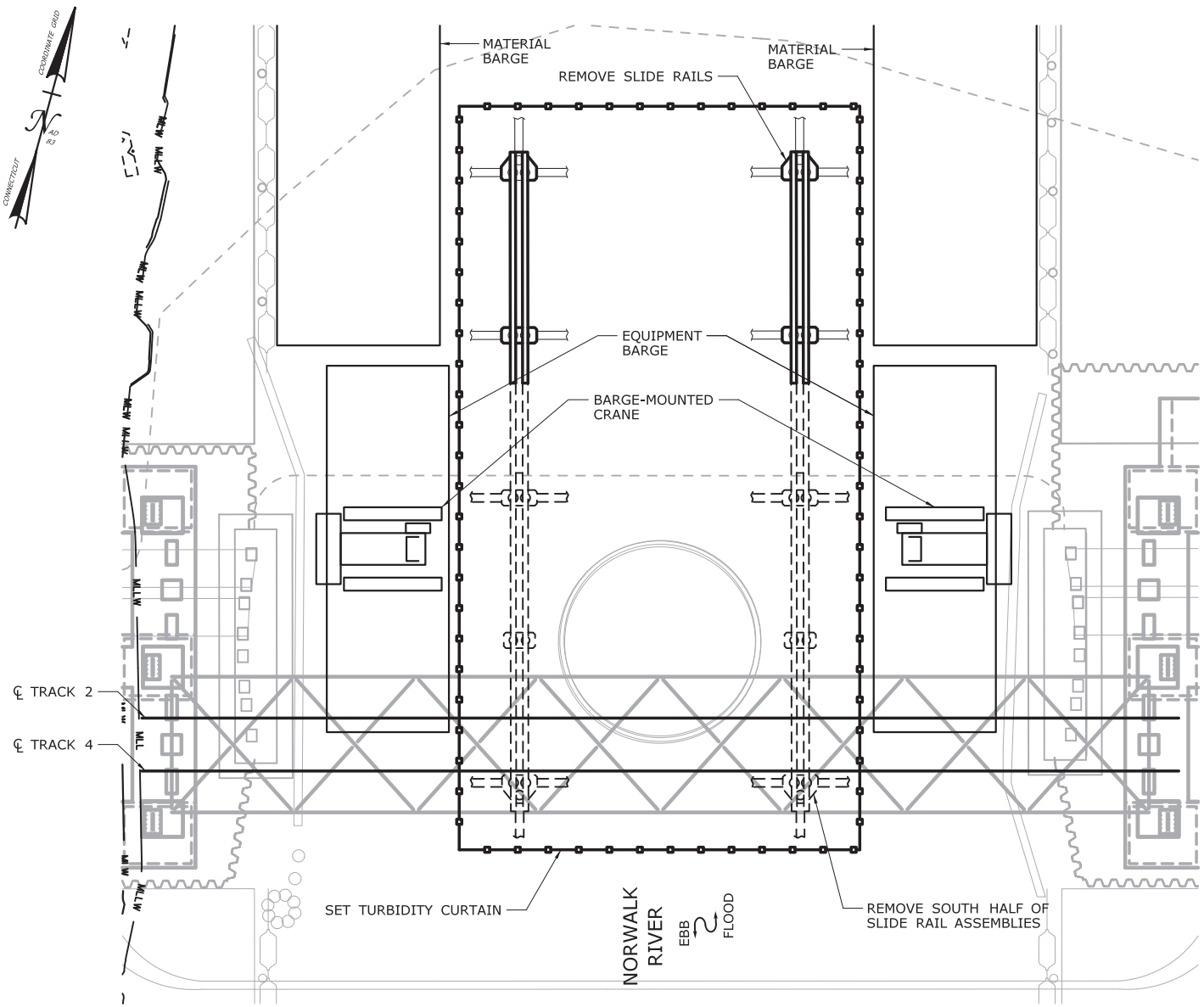
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 4 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-4**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	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 TRESTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
X	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. BARGES SHOWN DEPICT REPRESENTATIVE LOCATIONS IN THE NAVIGATION CHANNELS THAT WILL BE UTILIZED AS NEEDED THROUGHOUT THE COURSE OF THE WORK.
3. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
4. THE LIFT SPAN (ACTIVITY 18) WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE SLIDE RAIL ASSEMBLIES BENEATH THE BRIDGE.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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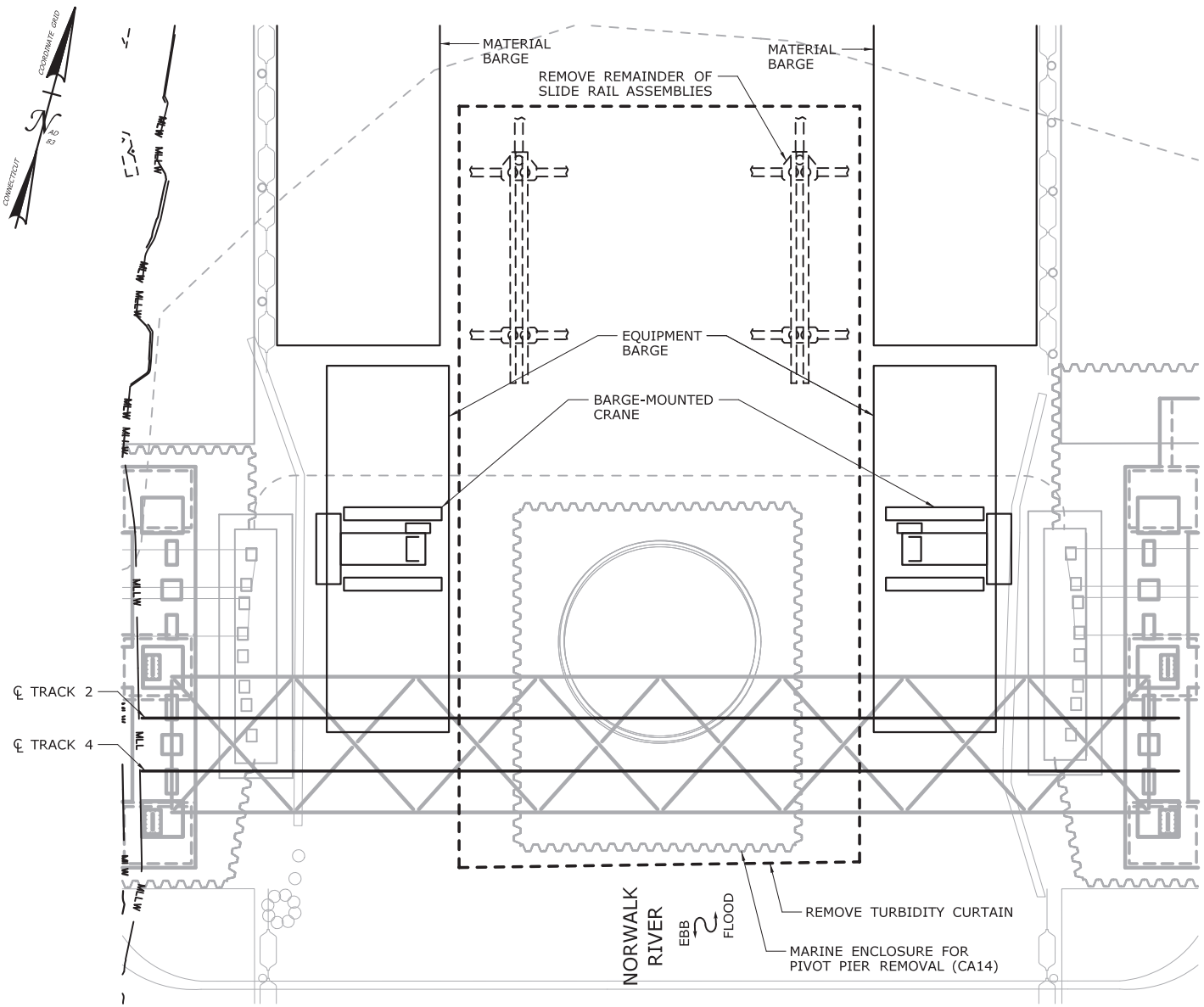
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 5 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-5**



PLAN

CONSTRUCTION SEQUENCE

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.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	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 TRESTLES.
	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.
X	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
X	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. BARGES SHOWN DEPICT REPRESENTATIVE LOCATIONS IN THE NAVIGATION CHANNELS THAT WILL BE UTILIZED AS NEEDED THROUGHOUT THE COURSE OF THE WORK.
3. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT CHRISTOPHER J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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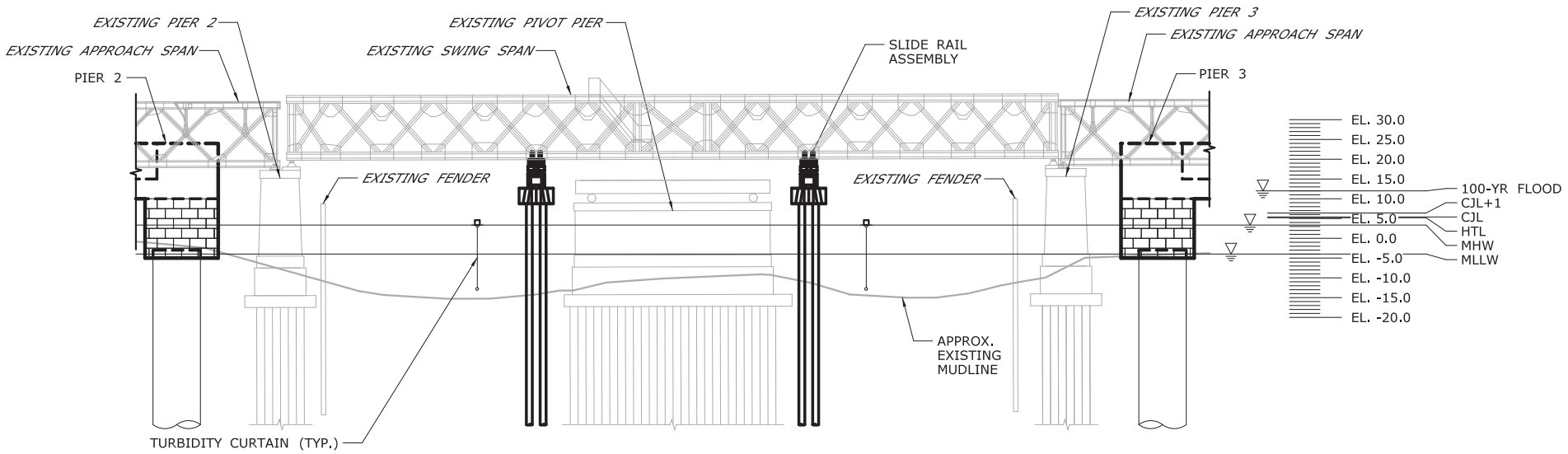
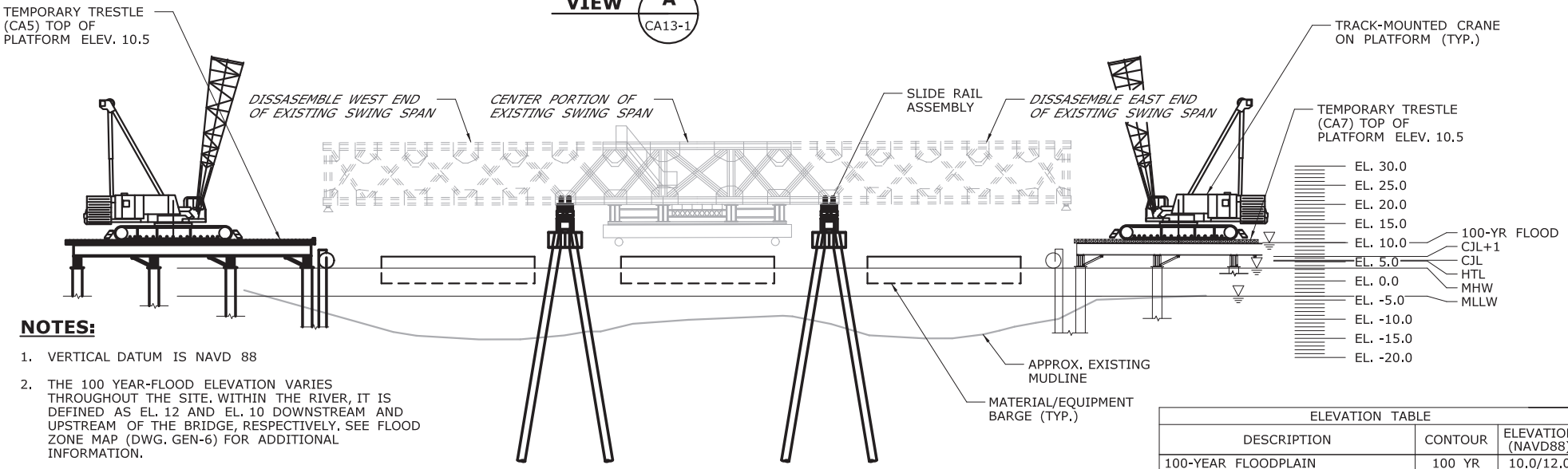
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 6 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-6**



VIEW A CA13-1



VIEW B CA13-3

NOTES:

1. VERTICAL DATUM IS NAVD 88
2. 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.
3. SLIDE RAIL ASSEMBLY PILES WILL BE COMPLETELY REMOVED.
4. THE CHANNEL WILL BE CLOSED TO NAVIGATION THROUGHOUT THE DURATION OF THIS WORK.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

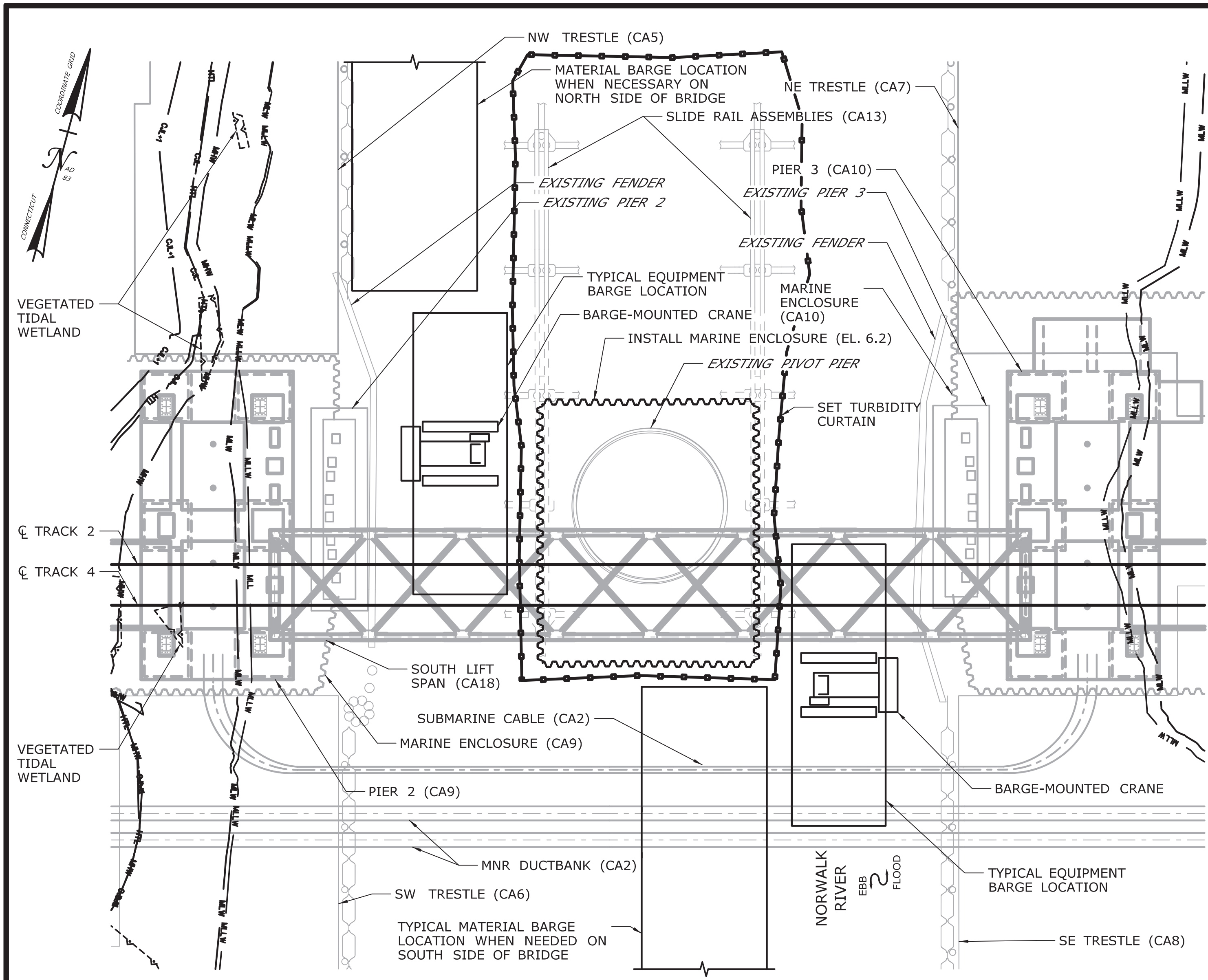
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394

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: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 7 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA13-7**



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

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.

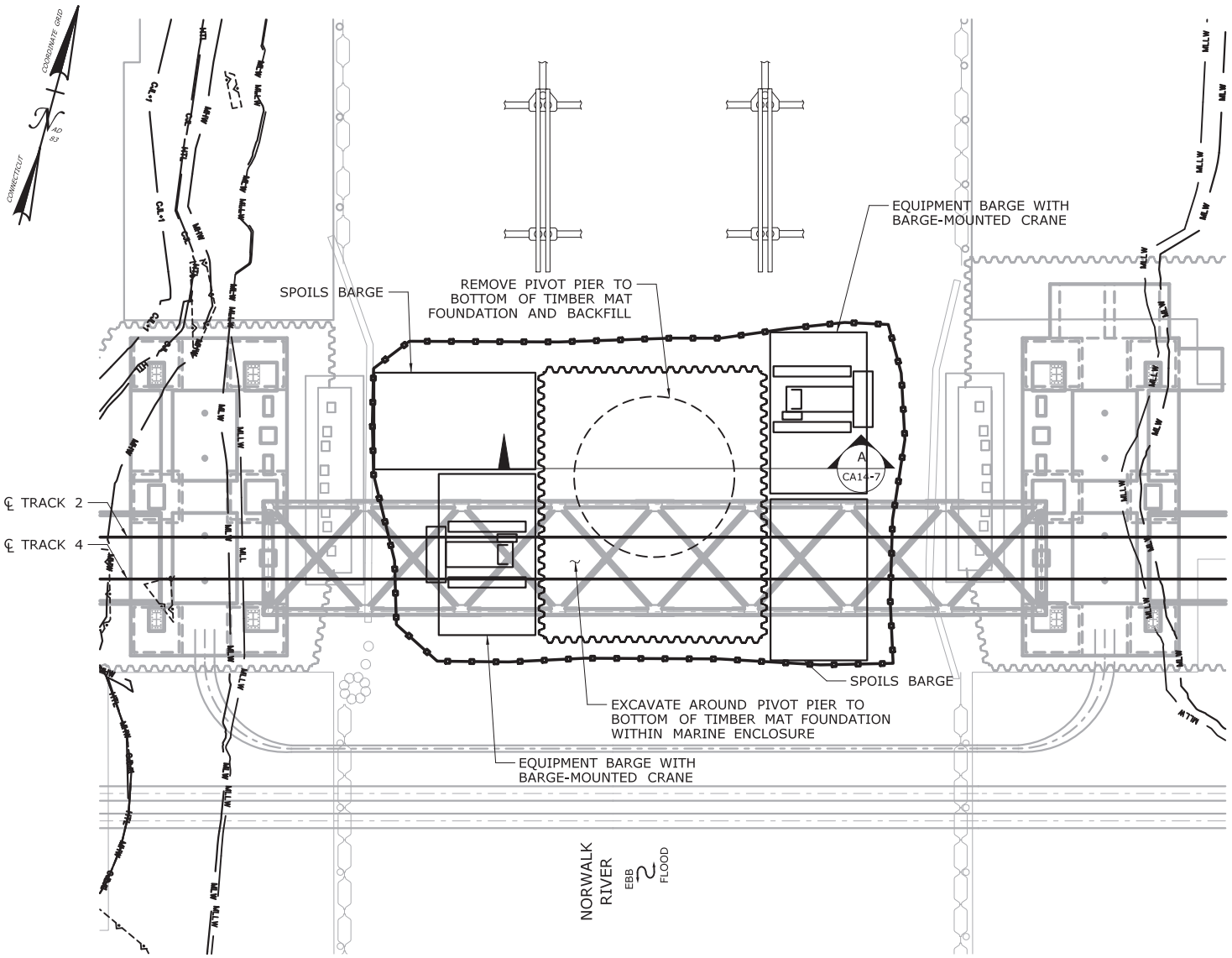
NOTES:

1. THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WHILE THE CHANNEL IS CLOSED TO NAVIGATION.
2. MARINE ENCLOSURE INSTALLATION WILL BE COORDINATED WITH REMOVAL OF THE SLIDE RAILS (ACTIVITY 13) TO TAKE ADVANTAGE OF THE NAVIGATION OUTAGE.
3. SINGLE-CHANNEL RESTRICTIONS MAY BE NEEDED UNTIL THE MARINE ENCLOSURE IS COMPLETE.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
5. THE LIFT SPAN WILL BE RAISED AS NEED TO INSTALL THE MARINE ENCLOSURE.
6. 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.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE IN FEET 0 25 50 SCALE 1"=50'	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 14 PIER REMOVAL (SHEET 1 OF 8)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA14-1



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.
X	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
X	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:

1. THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WHILE THE CHANNEL IS CLOSED TO NAVIGATION.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
4. SPOIL TANKS WILL BE USED FOR DEWATERING OF MATERIAL EXCAVATED FROM WITHIN THE MARINE ENCLOSURE.
5. PIER REMOVAL WORK ABOVE HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS). SPLASH FROM FALLING DEBRIS SHALL BE LIMITED TO THE AREA WITHIN TURBIDITY CURTAIN. PIER REMOVAL WORK BELOW HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING AN EXCAVATOR WITH A THUMB. BELOW THE HTL, HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS) AND EXPLOSIVES WILL NOT BE USED.
6. THE LIFT SPAN WILL BE RAISED AS NEEDED FOR EXCAVATION AND REMOVAL.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · COMMISSION OF BRIDGES · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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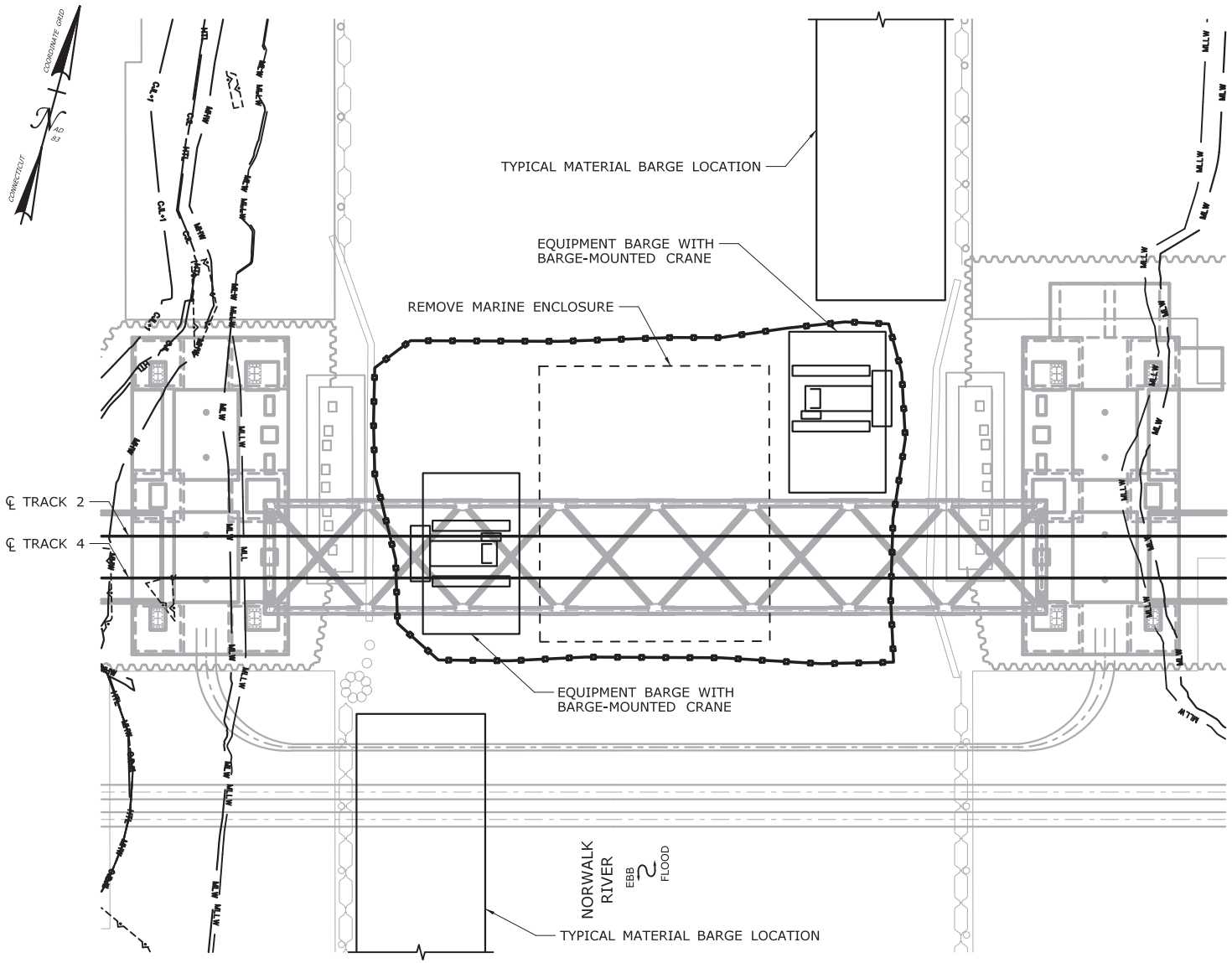
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 2 OF 8)**
DATE: **8-28-19**
DRAWING NO.: **CA14-2**



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.
X	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:

1. THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WILE THE CHANNEL IS CLOSED TO NAVIGATION.
2. THE LIFT SPAN WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE MARINE ENCLOSURE BENEATH THE BRIDGE.
3. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH CHANNELS WHILE THE CHANNEL IS OPEN.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
6. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT — CHRISTOPHER J. BROWN — NO. 20695 — LICENSED PROFESSIONAL ENGINEER

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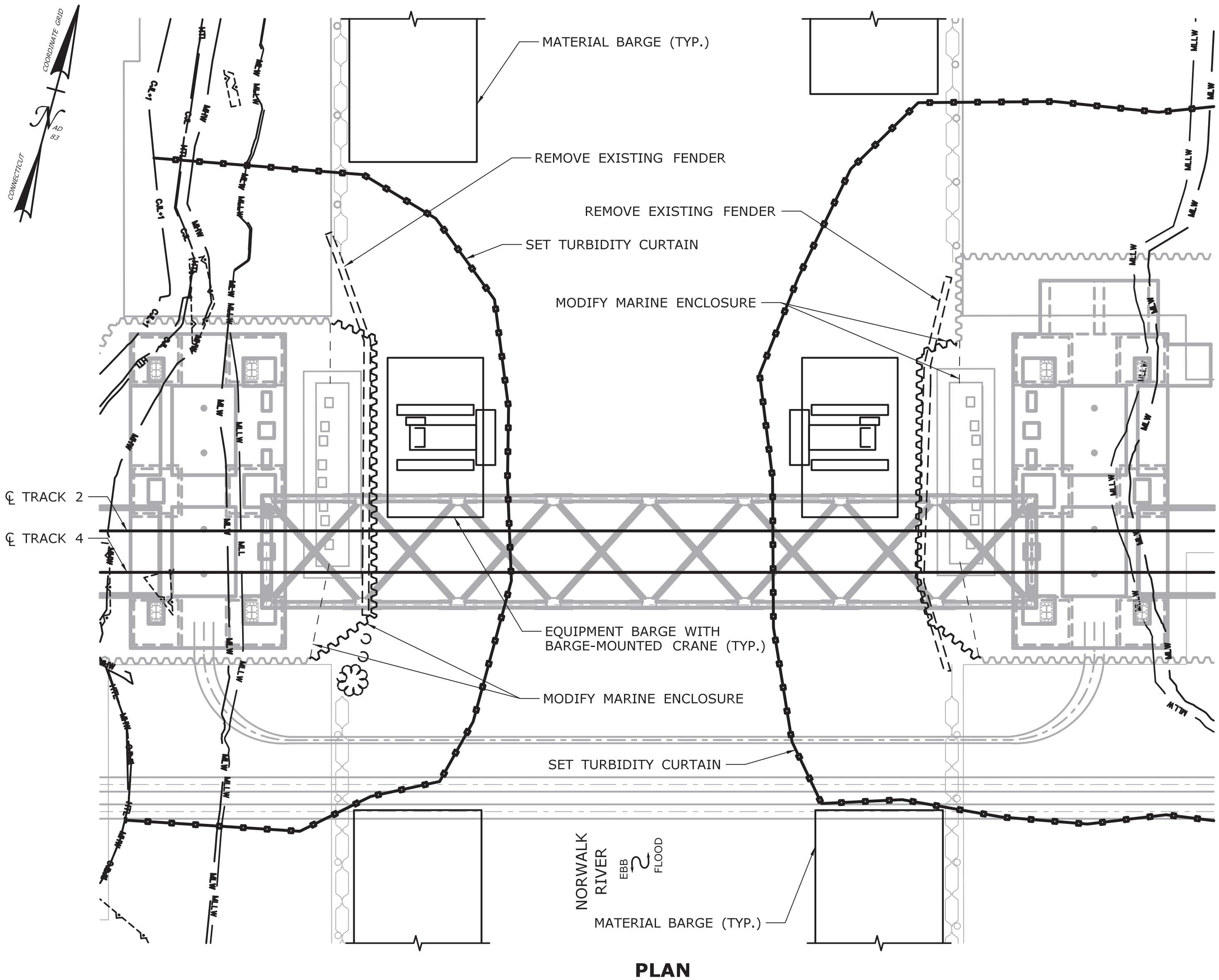
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 3 OF 8)**
DATE: **8-28-19**
DRAWING NO.: **CA14-3**



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:

1. THE LIFT SPAN WILL BE RAISED AS NEEDED TO MODIFY SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE.
2. WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS AFTER THE CHANNEL IS RE-OPENED.
3. 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.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067. Tel (860) 257-7377 Fax (860) 257-7394

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

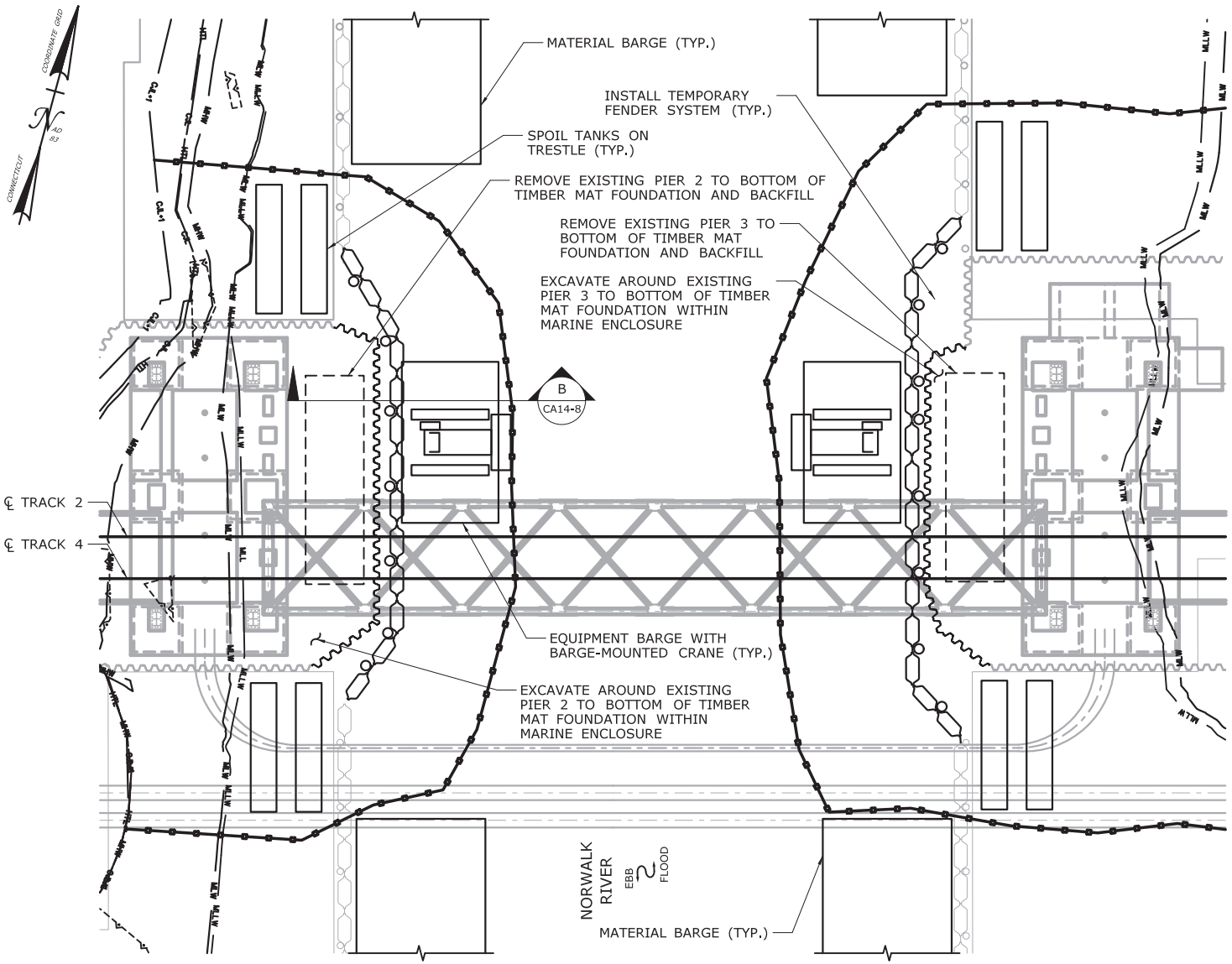
TOWN: NORWALK

DRAWING TITLE: ACTIVITY 14 PIER REMOVAL (SHEET 4 OF 8)

PROJECT NO.: 0301-0176

DATE: 8-28-19

DRAWING NO.: CA14-4



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.
	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
X	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
X	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:

1. WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS WHILE THE CHANNEL IS OPEN.
2. 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.
3. SPOIL TANKS WILL BE USED FOR DEWATERING OF MATERIAL EXCAVATED FROM WITHIN THE MARINE ENCLOSURE.
4. PIER REMOVAL WORK ABOVE HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS). SPLASH FROM FALLING DEBRIS SHALL BE LIMITED TO THE AREA WITHIN TURBIDITY CURTAIN. PIER REMOVAL WORK BELOW HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING AN EXCAVATOR WITH A THUMB. BELOW THE HTL, HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS) AND EXPLOSIVES WILL NOT BE USED.
5. THE LIFT SPAN WILL BE RAISED AS NEEDED FOR EXCAVATION AND REMOVAL.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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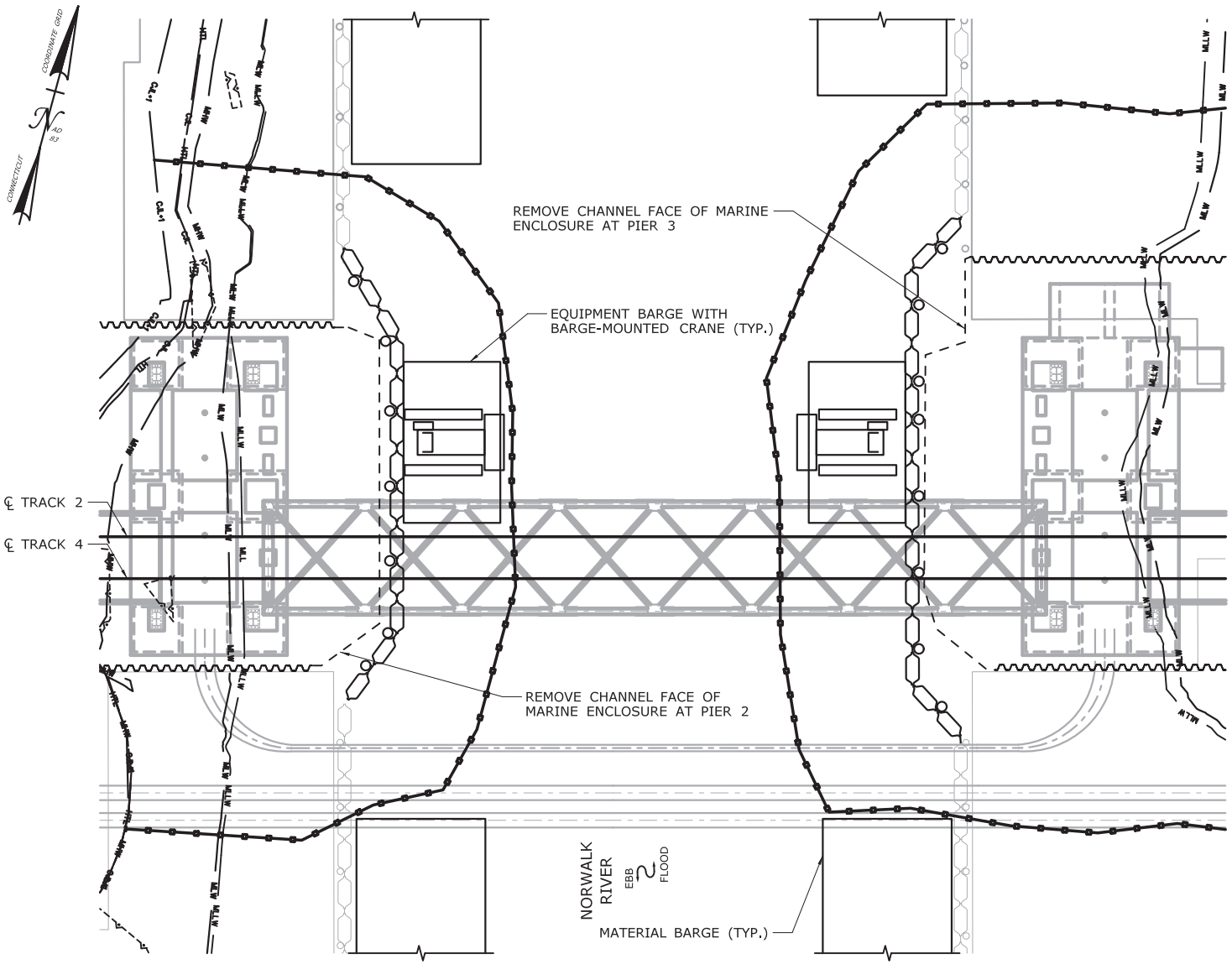
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 5 OF 8)**
DATE: **8-28-19**
DRAWING NO.: **CA14-5**



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.
	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.
X	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. THE LIFT SPAN WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE.
2. WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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55 Capital Boulevard, 4th Floor
Rocky Hill, CT 06067
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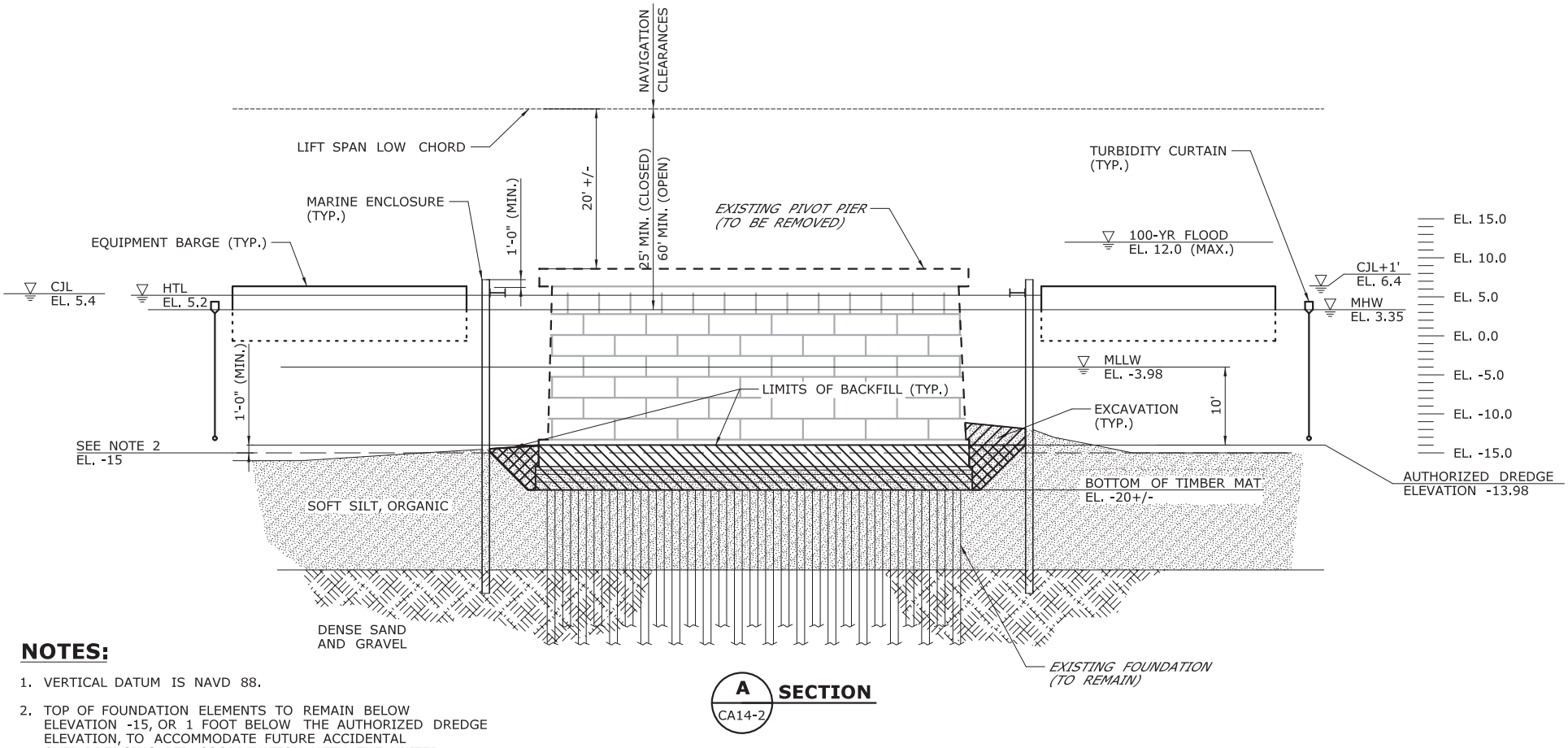
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 6 OF 8)**
DATE: **8-28-19**
DRAWING NO.: **CA14-6**



A CA14-2 **SECTION**

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. TOP OF FOUNDATION ELEMENTS TO REMAIN BELOW ELEVATION -15, OR 1 FOOT BELOW THE AUTHORIZED DREDGE ELEVATION, TO ACCOMMODATE FUTURE ACCIDENTAL OVER-DREDGING, PER COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS.
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.
4. THE WATER LEVEL WITHIN THE MARINE ENCLOSURE WILL BE MAINTAINED AT OR BELOW THE WATER ELEVATION IN THE RIVER.
5. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 1 FOOT ABOVE THE HIGH TIDE LINE.
6. 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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE IN FEET 0 10 20 SCALE 1"=20'

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

SIGNATURE BLOCK: STATE OF CONNECTICUT DIVISION OF ENGINEERING NO. 20695 LICENSED PROFESSIONAL ENGINEER

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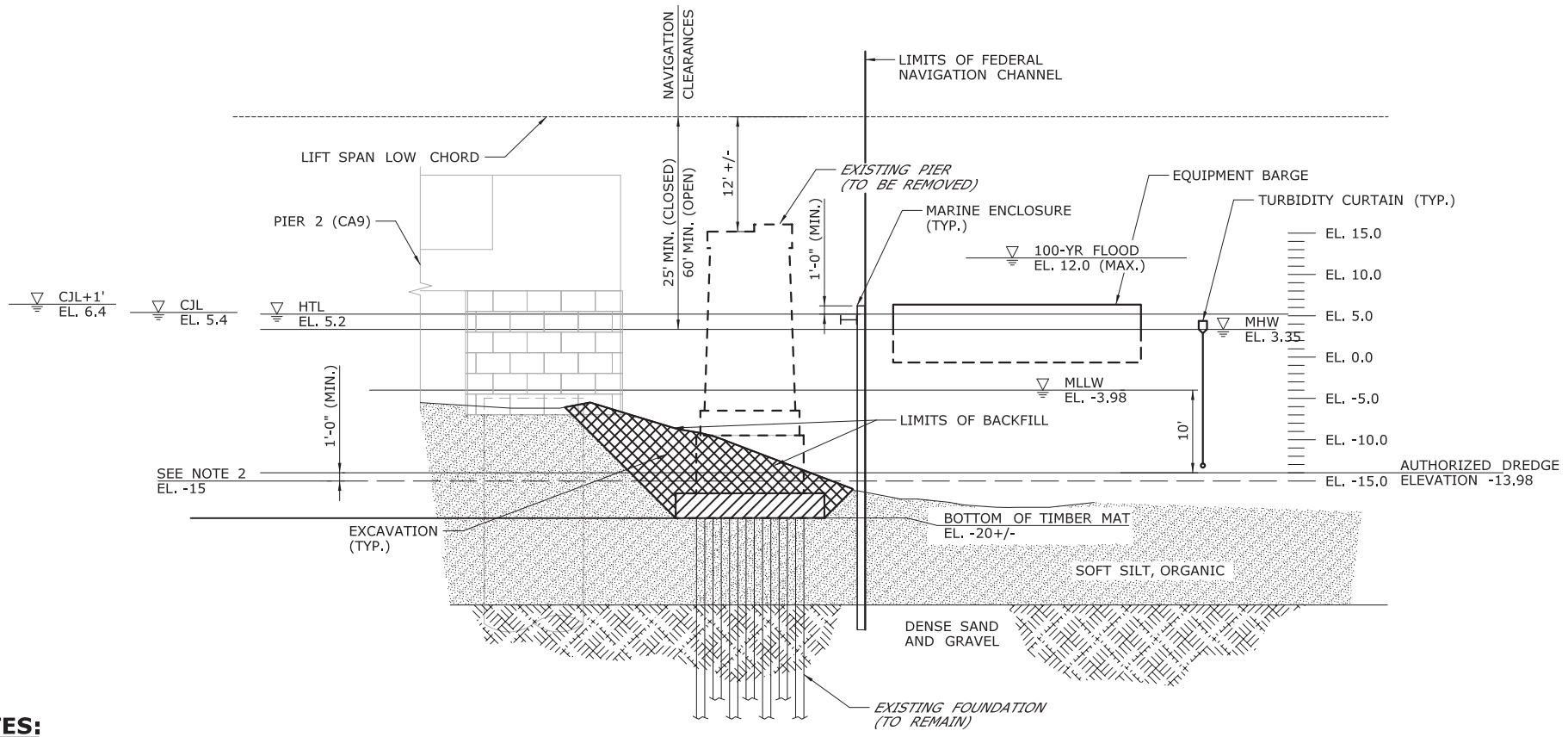
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 7 OF 8)**
DATE: **8-28-19**
DRAWING NO.: **CA14-7**



B / CA14-5 **SECTION**

(EXISTING PIER 2 SHOW, EXISTING PIER 3 SIMILAR)

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. TOP OF FOUNDATION ELEMENTS TO REMAIN BELOW ELEVATION -15, OR 1 FOOT BELOW THE AUTHORIZED DREDGE ELEVATION, TO ACCOMMODATE FUTURE ACCIDENTAL OVER-DREDGING, PER COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS.
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.
4. THE WATER LEVEL WITHIN THE MARINE ENCLOSURE WILL BE MAINTAINED AT OR BELOW THE WATER ELEVATION IN THE RIVER.
5. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 1 FOOT ABOVE THE HIGH TIDE LINE.
6. 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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE IN FEET 0 10 20 SCALE 1"=20'

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

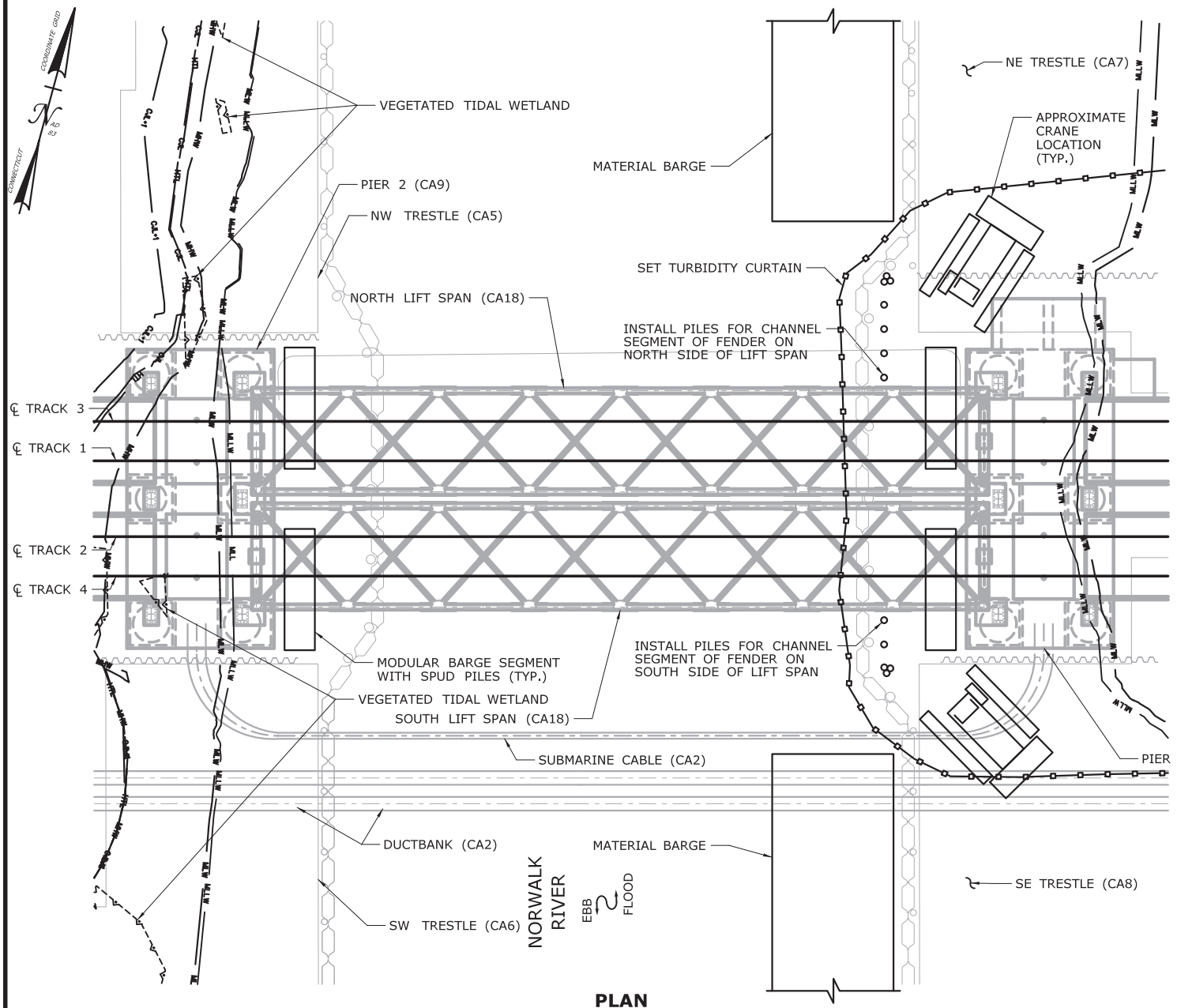
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 8 OF 8)**

DATE: **8-28-19**

DRAWING NO.: **CA14-8**



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
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:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. 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.
3. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. PILE LOCATIONS ON THE SOUTH SIDE OF THE LIFT SPAN WILL BE COORDINATED WITH THE AS-BUILT DUCTBANK (ACTIVITY 2).
5. 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	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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 20695 · LICENSED PROFESSIONAL ENGINEER

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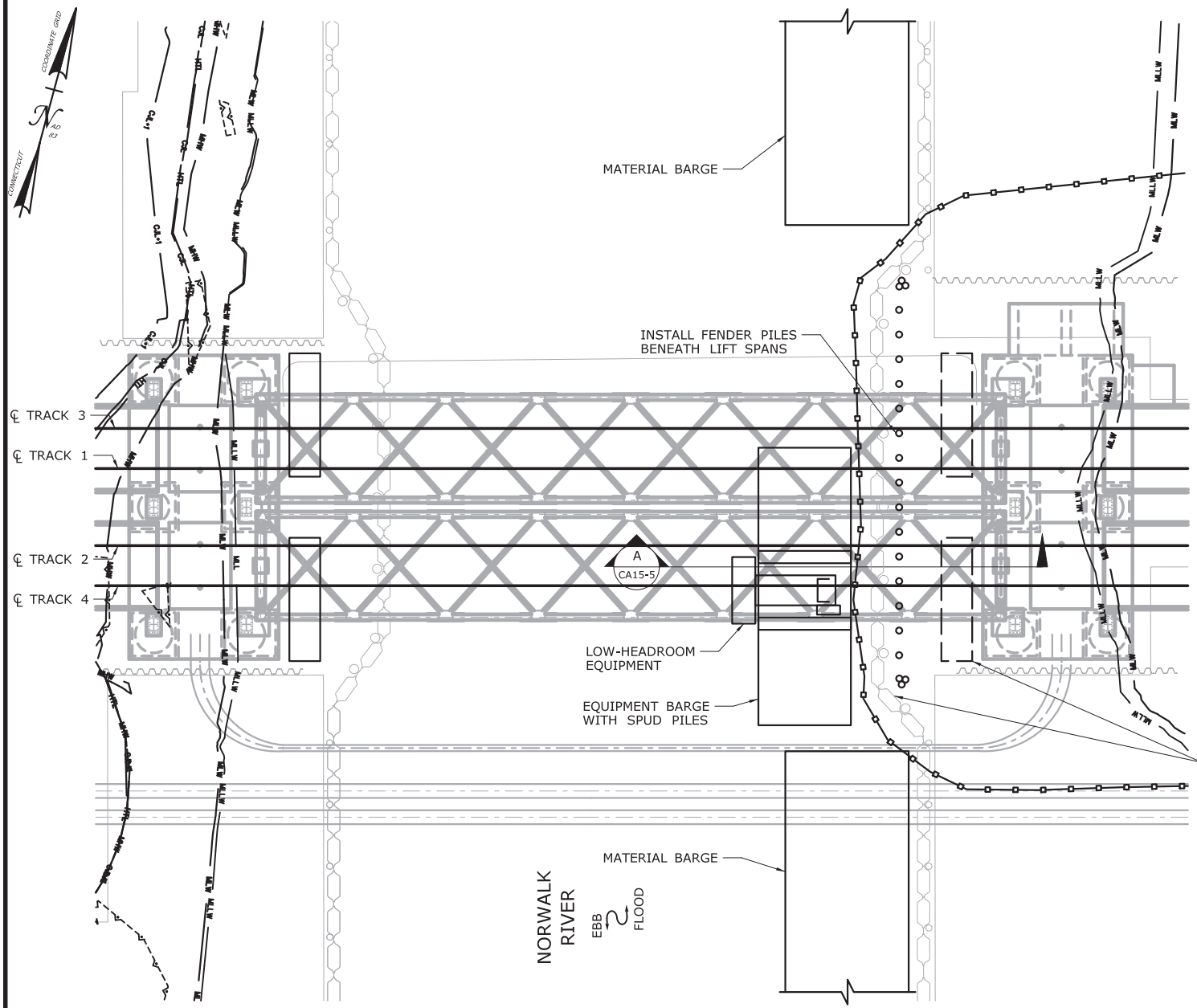
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 1 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA15-1**



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.
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:

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

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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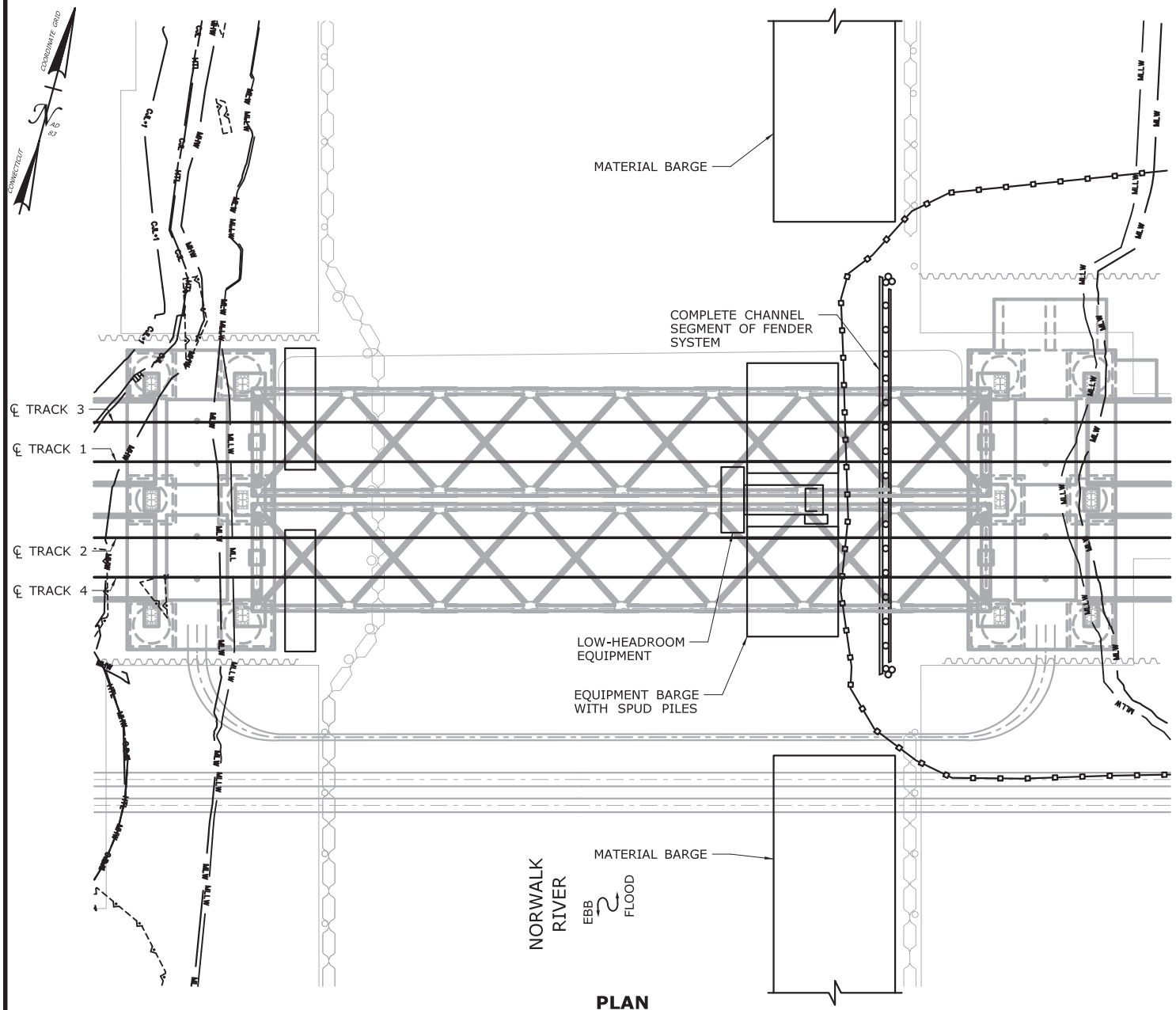
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 2 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA15-2**



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 TRESTLES.
	INSTALL PILES BENEATH LIFT SPANS.
X	COMPLETE CHANNEL SEGMENT OF FENDER SYSTEM.
	FOLLOWING TRESTLE 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 WALERS, 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

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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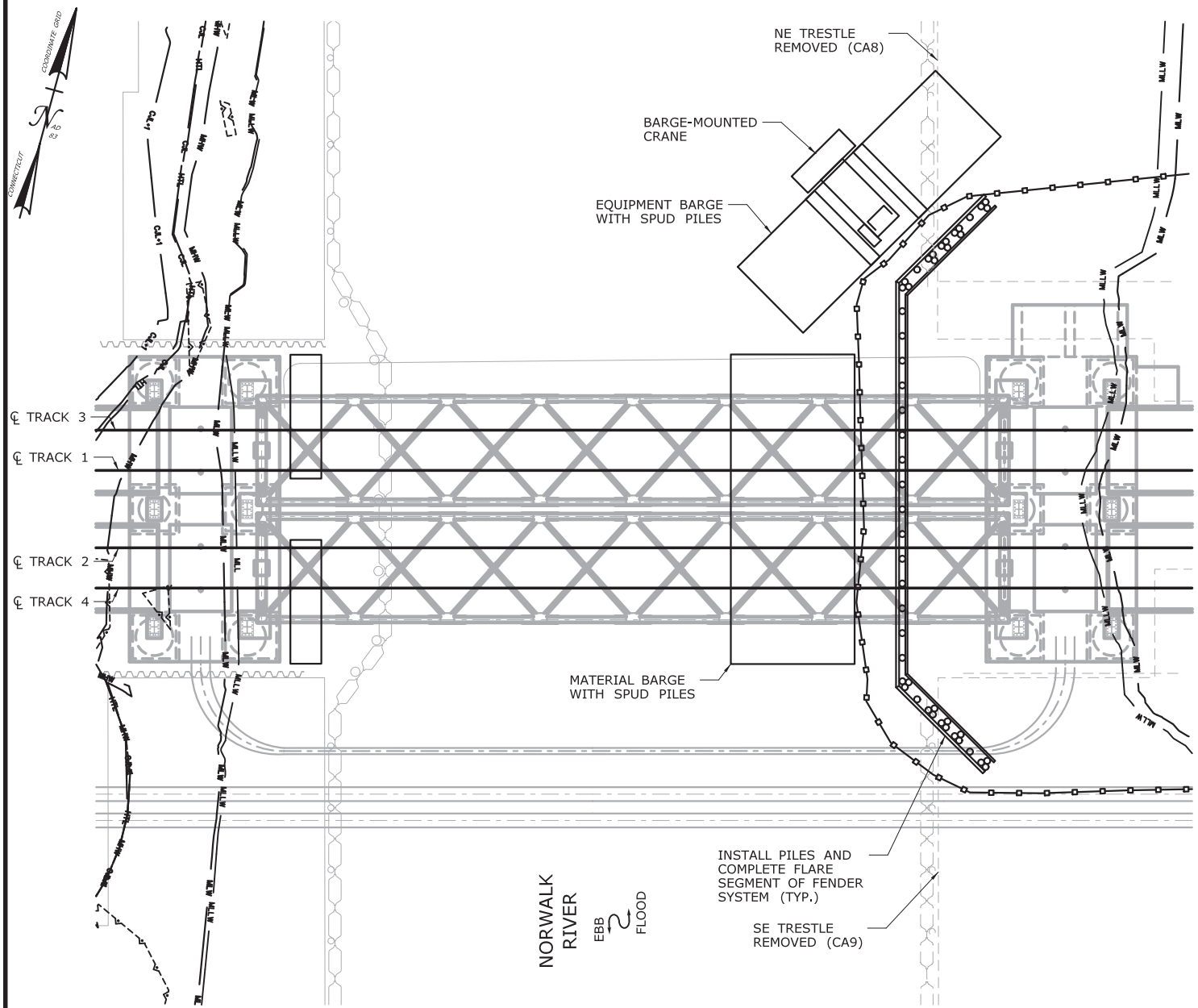
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 3 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA15-3**



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 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 WALERS, 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).

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT GREGORY V. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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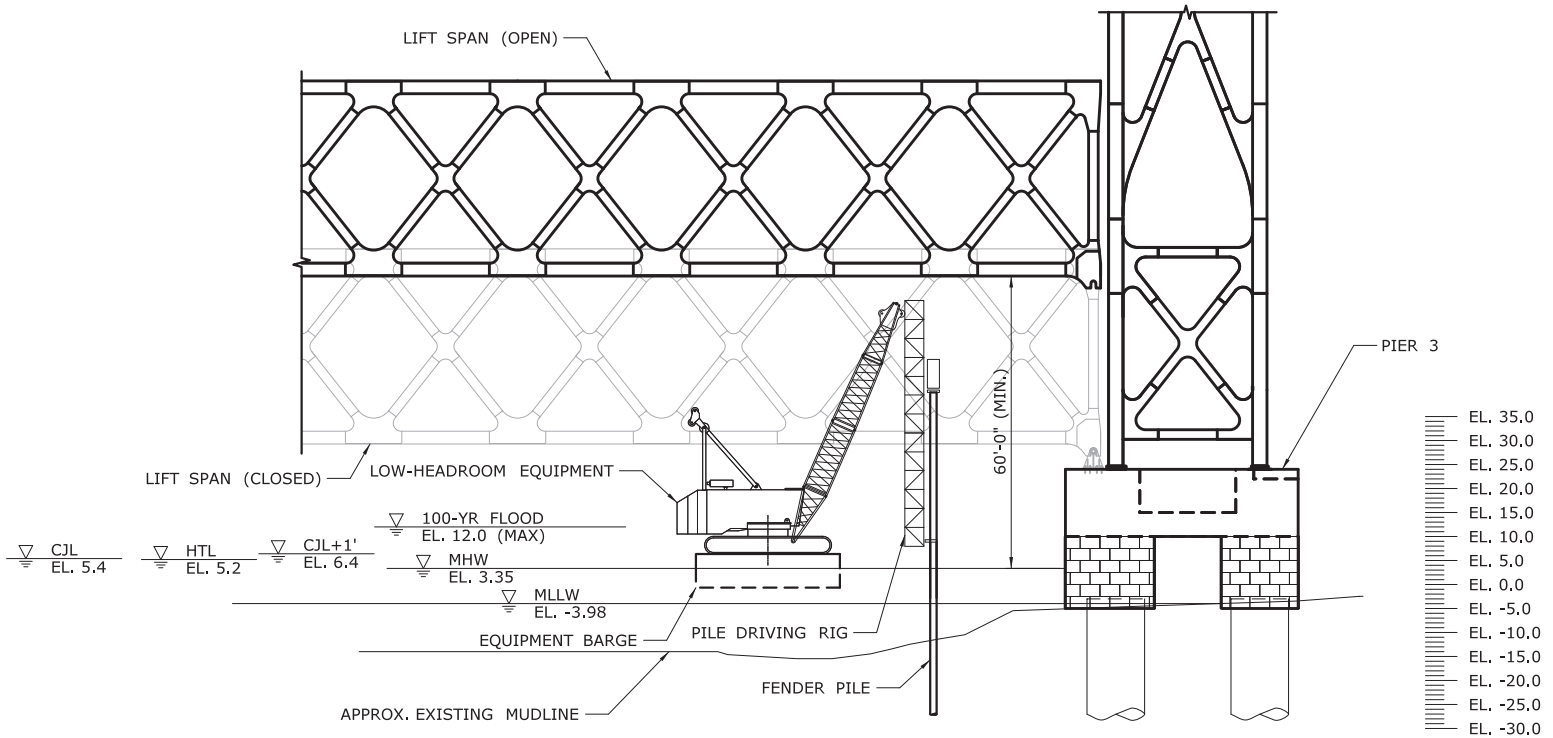
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 4 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA15-4**



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	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

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

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

SIGNATURE BLOCK:

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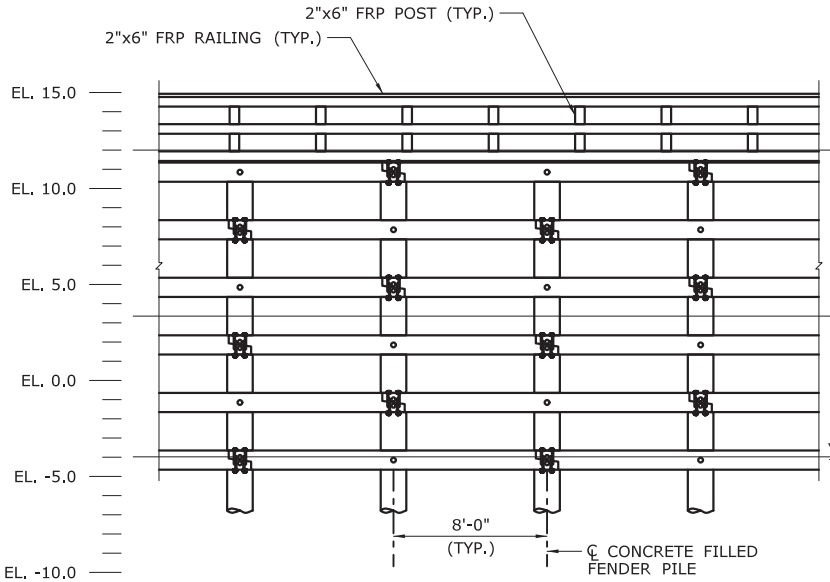
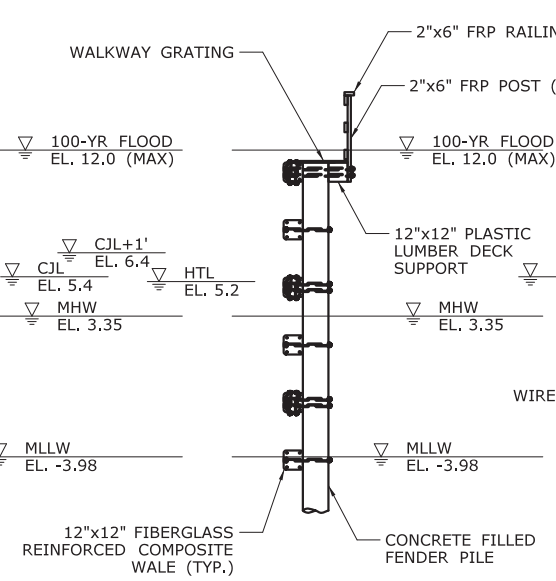
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

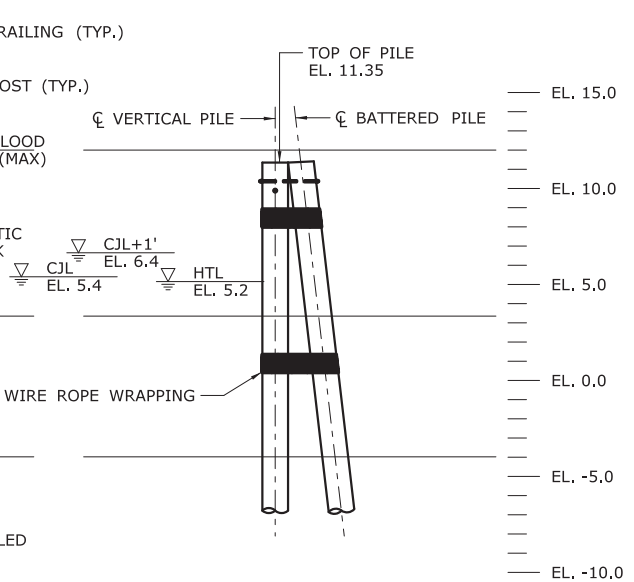
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 5 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA15-5**



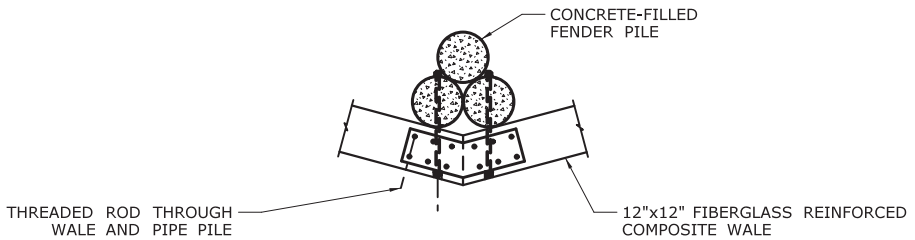
TYPICAL FENDER SYSTEM ELEVATION



TYPICAL SECTION



TYPICAL PILE CLUSTER ELEVATION



TYPICAL CORNER DETAIL
SCALE: 1/4" = 1'-0"

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	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

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

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

SIGNATURE BLOCK: STATE OF CONNECTICUT COMMISSION OF DESIGN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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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: **ACTIVITY 15 FENDER INSTALLATION (SHEET 6 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA15-6**

ACTIVITY 16 - WETLAND MITIGATION
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
MIT-001	DRAWING INDEX
MIT-002	MITIGATION INDEX PLAN
MIT-003	MITIGATION AREA 1 PHRAGMITES TREATMENT
MIT-004	MITIGATION AREA 2 GRADING PLAN
MIT-005	MITIGATION AREA 2 GRADING SECTIONS 1
MIT-006	MITIGATION AREA 2 GRADING SECTIONS 2
MIT-007	MITIGATION AREA 2 PLANTING PLAN
MIT-008	MITIGATION AREA 2 PLANTING SECTIONS 1
MIT-009	MITIGATION AREA 2 PLANTING SECTIONS 2
MIT-010	MITIGATION AREA 3 PHRAGMITES TREATMENT
MIT-011	MITIGATION AREA 4 PHRAGMITES TREATMENT
MIT-012	MITIGATION AREA 4 PLANTING PLAN
MIT-013	MITIGATION AREA 5 PHRAGMITES TREATMENT
MIT-014	MITIGATION AREA 5 PLANTING PLAN
MIT-015	MITIGATION AREA 6 GRADING PLAN
MIT-016	MITIGATION AREA 6 GRADING SECTIONS 1
MIT-017	MITIGATION AREA 6 GRADING SECTIONS 2
MIT-018	MITIGATION AREA 6 PLANTING PLAN
MIT-019	MITIGATION AREA 6 PLANTING SECTIONS 1
MIT-020	MITIGATION AREA 6 PLANTING SECTIONS 2

DATE: 06/26/2019

SCALE:

DRAWN: V. ROBBINS

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

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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

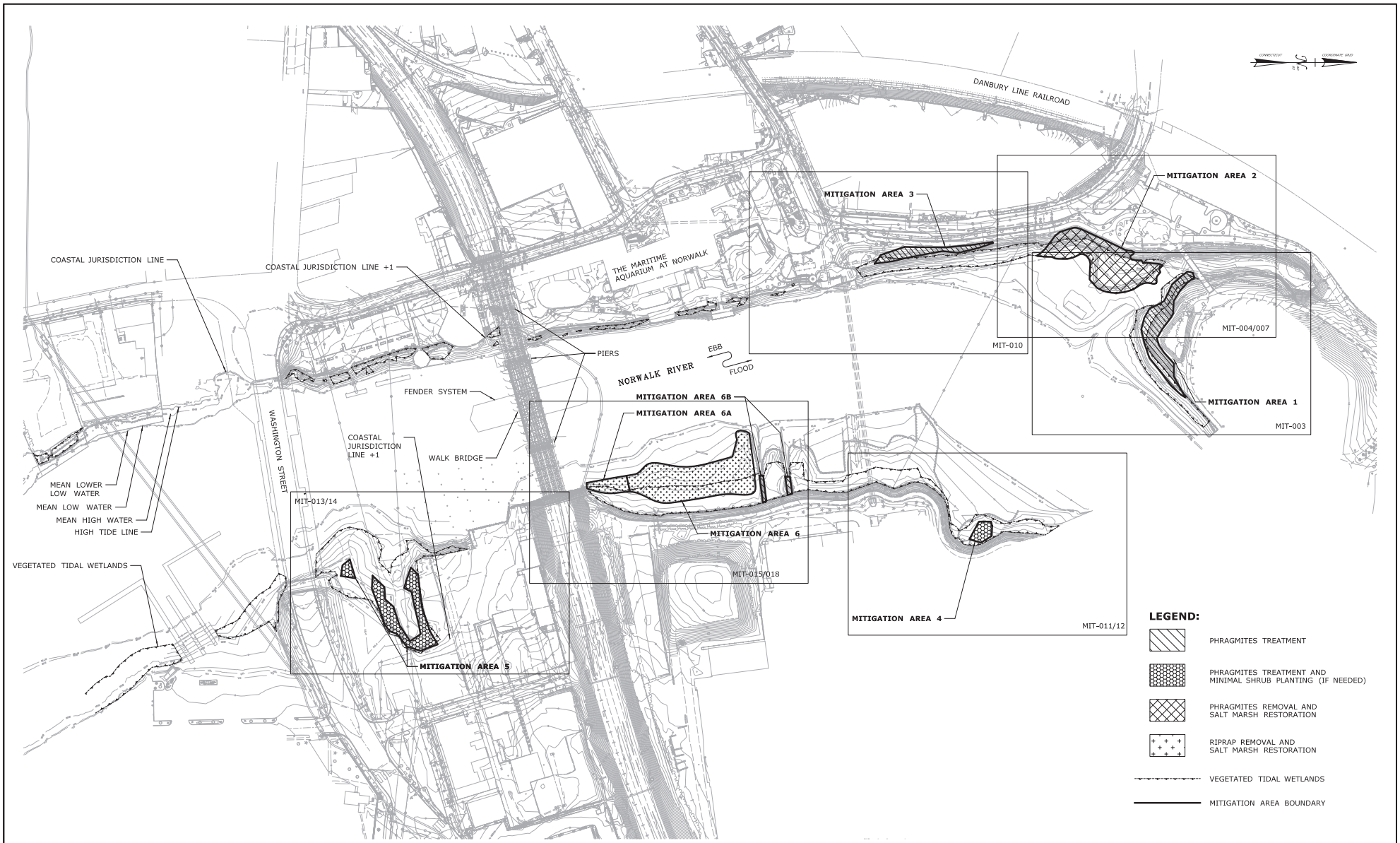
TOWN: NORWALK

PROJECT NO.: 0301-0176

DRAWING TITLE:
ACTIVITY 16
WETLAND MITIGATION
(MIT-001)

DATE: 8-28-19

DRAWING NO.: CA16-1



SCALE:
SCALE IN FEET
100 50 0 100
SCALE: 1"=200'

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

SIGNATURE BLOCK:

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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

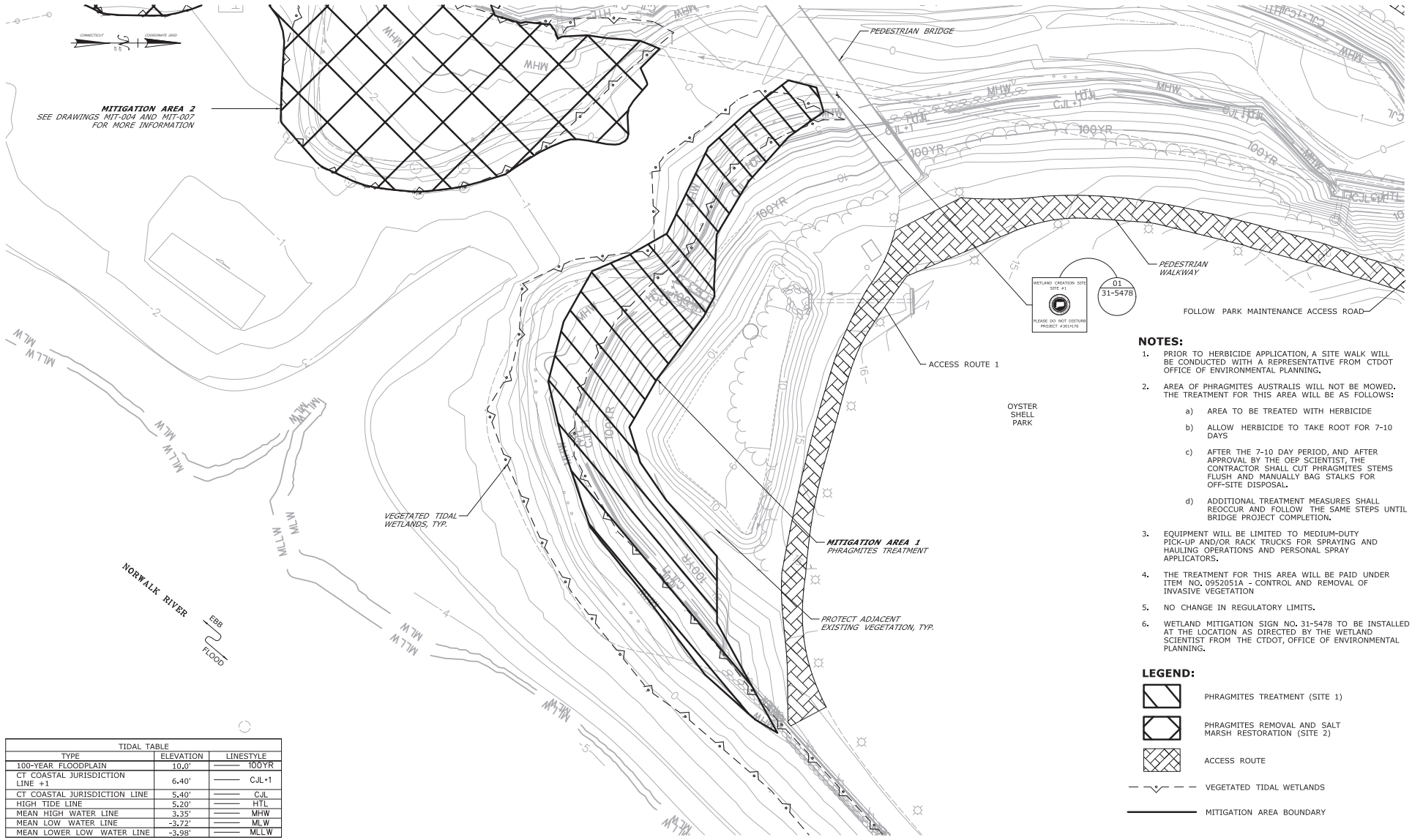
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-002)

DATE: **8-28-19**

DRAWING NO.: **CA16-2**



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR SPRAYING AND HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
5. NO CHANGE IN REGULATORY LIMITS.
6. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

LEGEND:

- PHRAGMITES TREATMENT (SITE 1)
- PHRAGMITES REMOVAL AND SALT MARSH RESTORATION (SITE 2)
- ACCESS ROUTE
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY

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

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

SIGNATURE BLOCK:

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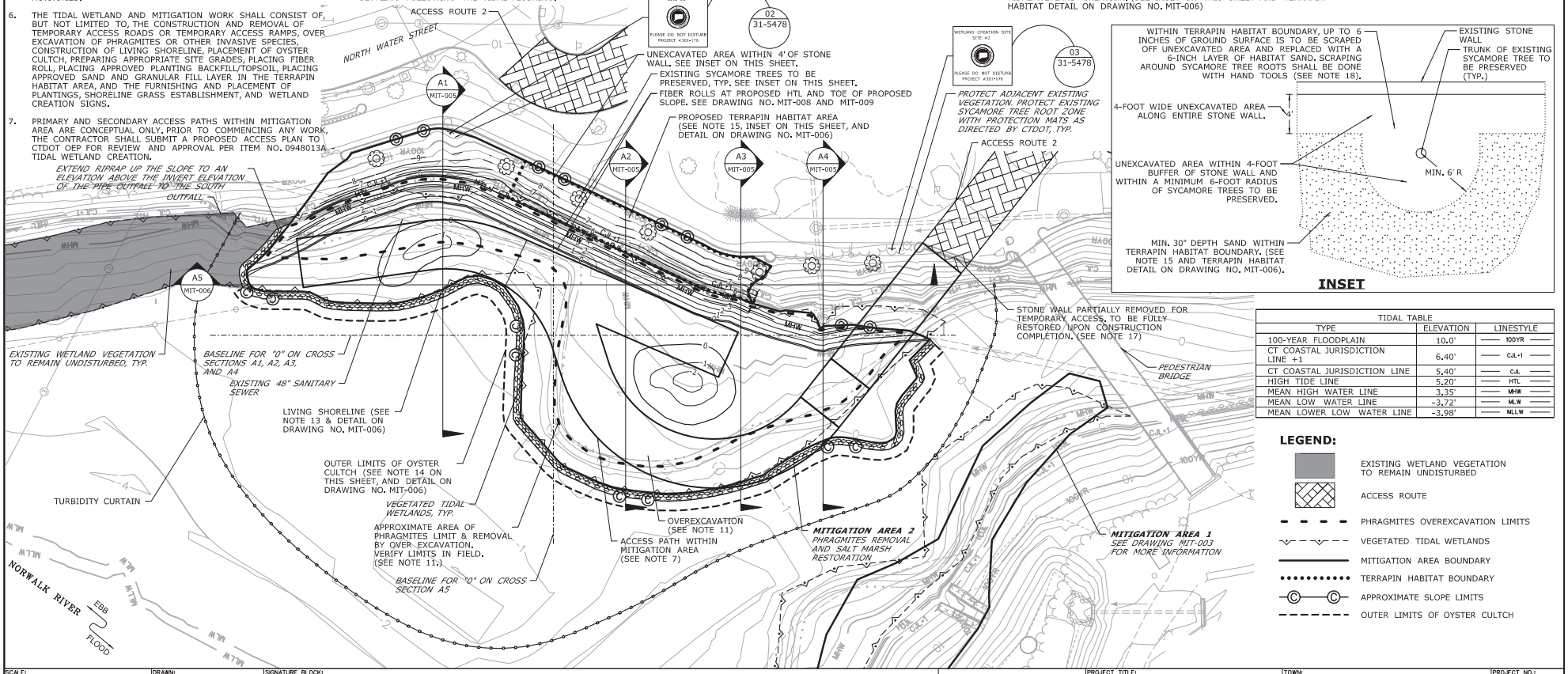
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-003)**
DATE: **8-28-19**
DRAWING NO.: **CA16-3**

NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK ASSOCIATED WITH THE MITIGATION AREA, THE CONTRACTOR SHALL SUBMIT TO CTDOT OFFICE OF ENVIRONMENTAL PLANNING (OEP) FOR REVIEW AND APPROVAL, A WORK PLAN THAT INCLUDES A CONSTRUCTION SCHEDULE AND AN OUTLINE OF CONSTRUCTION METHODOLOGIES FOR PERFORMING THE REQUIRED WORK, IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION, AND IN ACCORDANCE WITH OTHER ITEMS LISTED BELOW.
2. PRIOR TO ANY EARTH WORK, THE SITE WILL BE TREATED FOR INVASIVE SPECIES UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION. EXCAVATION SHALL COMMENCE FOLLOWING 10 DAYS OF HERBICIDE SET.
3. EXCAVATION TO PERFORM GRADING TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0202000 - EARTH EXCAVATION. THE FORMATION OF SUBGRADE, FINAL GRADE, AND PLACEMENT OF BACKFILL AND SUBSTRATE TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION.
4. SEE DRAWING NO. MIT-007 FOR LIMITS OF SHORELINE GRASS ESTABLISHMENT AND PLANTINGS IN TIDAL MITIGATION AREA.
5. A WETLAND SCIENTIST FROM CTDOT, OEP WILL BE ON-SITE TO MONITOR AND DIRECT CONSTRUCTION OF THE TIDAL MITIGATION AREA, AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR A MEETING WITH THE OEP WETLAND SCIENTIST OR ENVIRONMENTAL INSPECTOR TO REVIEW THE PLANNED WORK ACTIVITIES.
6. THE TIDAL WETLAND AND MITIGATION WORK SHALL CONSIST OF, BUT NOT LIMITED TO, THE CONSTRUCTION AND REMOVAL OF TEMPORARY ACCESS ROADS OR TEMPORARY ACCESS RAMPS, OVER EXCAVATION OF PHRAGMITES OR OTHER INVASIVE SPECIES, CONSTRUCTION OF LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH, PREPARING APPROPRIATE SITE GRADES, PLACING FIBER ROLL, PLACING APPROVED PLANTING BACKFILL/TOPSOIL, PLACING APPROVED SAND AND GRANULAR FILL LAYER IN THE TERRAPIN HABITAT AREA, AND THE FURNISHING AND PLACEMENT OF PLANTINGS, SHORELINE GRASS ESTABLISHMENT, AND WETLAND CREATION SIGNS.
7. PRIMARY AND SECONDARY ACCESS PATHS WITHIN MITIGATION AREA ARE CONCEPTUAL ONLY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED ACCESS PLAN TO CTDOT OEP FOR REVIEW AND APPROVAL PER ITEM NO. 0948013A - TIDAL WETLAND CREATION.
8. ALL EXCAVATED MATERIAL STRIPPED FROM THE TIDAL MITIGATION AREA SHALL NOT BE REUSED BUT SHALL BE REMOVED FROM THE AREA AND PROPERLY DISPOSED OF AT AN APPROVED UPLAND LOCATION.
9. AFTER THE EXCAVATION IS COMPLETED, THE LIVING SHORELINE SHALL BE INSTALLED IN THE LOCATION SHOWN ON THE PLANS. THE TIDAL MITIGATION AREA SHALL BE BACKFILLED TO PROPOSED SUBGRADE WHERE NEEDED. THE FINAL GRADE SHALL CONSIST OF PLANTING/TOPSOIL EXCEPT FOR THE TERRAPIN HABITAT AREA WHICH SHALL CONSIST OF SAND PER CTDOT OEP. COMPACTION SHALL BE PERFORMED ON BACKFILL AND TOPSOIL AS DIRECTED BY THE CTDOT OEP WETLAND SCIENTIST.
10. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OEP.
11. OVEREXCAVATION OF PHRAGMITES AREA TO BE A MINIMUM OF 3'-0" BELOW EXISTING GRADE OR TO A LESSER DEPTH AT WHICH THE ENTIRE ROOT/RHIZOME LAYER IS REMOVED, AS DETERMINED BY THE WETLAND SCIENTIST.
12. A 14" DEEP LAYER OF WETLAND PLANTING SOIL/TOPSOIL SHALL BE PLACED ON THE PROPOSED SUBGRADE, WHERE NEEDED TO MEET PROPOSED FINAL GRADE. THIS ACCOUNTS FOR COMPACTION AND SETTLING FOLLOWING THE TIDAL FLUSHING.
12. (CONTINUED): IN AREAS NOT REQUIRING OVEREXCAVATION, BETWEEN THE WATERWARD PHRAGMITES EDGE AND THE LIVING SHORELINE RIPRAP, PLANTING SOIL/TOPSOIL SHALL BE PLACED ON THE UNEXCAVATED GRADE, WHERE NEEDED TO MEET PROPOSED FINAL GRADE, AND COMPACTED. IF THE EXCAVATION FOR PHRAGMITES REMOVAL, OR OTHER INVASIVE SPECIES REMOVAL MEETS THE PROPOSED FINAL GRADE ON SUITABLE SOIL, NO OVEREXCAVATION FOR TOPSOIL PLACEMENT IS NEEDED.
13. THE LIVING SHORELINE SHALL CONSIST OF 24" TO 30" DIAMETER STANDARD RIPRAP, AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION, AND PLACED UNDER THE DIRECTION OF A WETLAND SCIENTIST FROM CTDOT OEP. THE ROCK RIPRAP SHALL BE PLACED IN A CONFIGURATION THAT IS A MINIMUM WIDTH OF 3'-0" AT THE BASE AND SHALL BE EMBEDDED IN EXISTING SOIL, OR IN PLACED TOPSOIL, IN A SHALLOW TRENCH 6" TO 12" MAXIMUM DEPTH, OR PRESSED INTO THE SOIL TO A DEPTH OF 6" TO 12" MAXIMUM, TO PLACE THE TOP OF THE RIPRAP AT THE PROPOSED FINISHED GRADE ELEVATION OR SLIGHTLY ABOVE PROPOSED FINISHED GRADE. ON THE LANDWARD SIDE OF THE RIPRAP, VOIDS SHALL BE FILLED WITH GRANULAR MATERIAL TO PREVENT THE TOPSOIL FROM WASHING THROUGH THE VOIDS. GRANULAR FILL SHALL BE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.
14. OYSTER CULTCH SHALL BE PLACED ON THE BOTTOM ¼ OF THE WATERWARD SIDE OF THE LIVING SHORELINE RIPRAP AND A 6" DEEP LAYER SHALL EXTEND OUT 4'TO 5'FROM BASE, ON EXISTING GRADE, AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.
15. THE TERRAPIN HABITAT AREA SHALL CONSIST OF A MINIMUM 30" DEEP LAYER OF SAND ON TOP OF A 6" DEEP LAYER OF GRANULAR FILL ON PROPOSED SUBGRADE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.
16. EQUIPMENT WILL NOT BE PERMITTED ON FINAL GRADE WITHIN THE MITIGATION AREA.
17. ACCESS TO THE MITIGATION SITE AND ASSOCIATED CONSTRUCTION ACTIVITIES AND STAGING WILL RESULT IN TEMPORARY IMPACTS AND TEMPORARY OCCUPANCY OF THE PARK, WITH POSSIBLE FULL CLOSURE OR PARTIAL CLOSURE. WHEN CONSTRUCTION IS COMPLETE, THE PARK FACILITIES, AMENITIES, AND SURFACE MATERIALS SHALL BE FULLY RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITIONS. CTDOT HAS CONSULTED WITH THE CITY AND WILL CONTINUE TO COORDINATE TEMPORARY ACCESS AND CONSTRUCTION ACTIVITIES WITH THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
18. WITHIN A 4-FOOT BUFFER FROM THE EAST SIDE OF THE EXISTING STONE WALL AND WITHIN A MINIMUM 6-FOOT RADIUS FROM THE SYCAMORE TREES TO BE PRESERVED, THE AREA SHALL REMAIN UNEXCAVATED AND SELECTIVE CLEARING AND INVASIVE SPECIES CONTROL MEASURES SHALL BE CONDUCTED UNDER THE DIRECTION OF AN OEP ENVIRONMENTAL SCIENTIST. IN THESE UNEXCAVATED AREAS THAT ARE LOCATED WITHIN THE TERRAPIN HABITAT BOUNDARY, UP TO 6 INCHES OF THE GROUND SURFACE SHALL BE SCRAPED OFF AND REPLACED WITH A 6-INCH LAYER OF TURTLE NESTING BEACH SAND. SCRAPING AROUND SYCAMORE TREE ROOTS THAT ARE TO BE PRESERVED SHALL BE DONE WITH HAND TOOLS TO AVOID ROOT DAMAGE. SAND SHALL BE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION. (SEE INSET ON THIS SHEET AND TERRAPIN HABITAT DETAIL ON DRAWING NO. MIT-006)



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- EXISTING WETLAND VEGETATION TO REMAIN UNDISTURBED
- ACCESS ROUTE
- PHRAGMITES OVEREXCAVATION LIMITS
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY
- TERRAPIN HABITAT BOUNDARY
- APPROXIMATE SLOPE LIMITS
- OUTER LIMITS OF OYSTER CULTCH

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

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

SIGNATURE BLOCK:

HNTB Corporation
55 Capitol Boulevard, 4th Floor
Rocky Hill, CT 06067
Tel (860) 257-7377
Fax (860) 257-7384

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: **ACTIVITY 16 WETLAND MITIGATION (MIT-004)**
DATE: **8-28-19**
DRAWING NO.: **CA16-4**

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

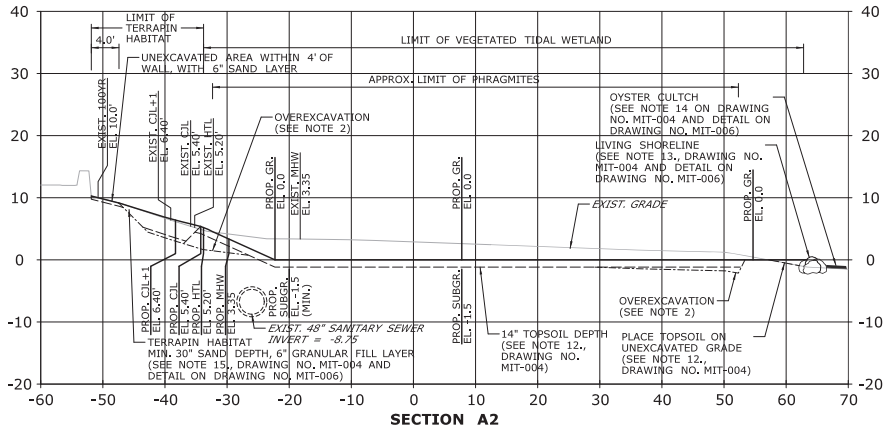
2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

   i. EXCAVATE PHRAGMITES AREA TO A MINIMUM OF 3'-0" BELOW EXISTING GRADE OR TO A LESSER DEPTH AT WHICH THE ENTIRE ROOT/ RHIZOME LAYER IS REMOVED, AS DETERMINED BY THE DEP WETLAND SCIENTIST.

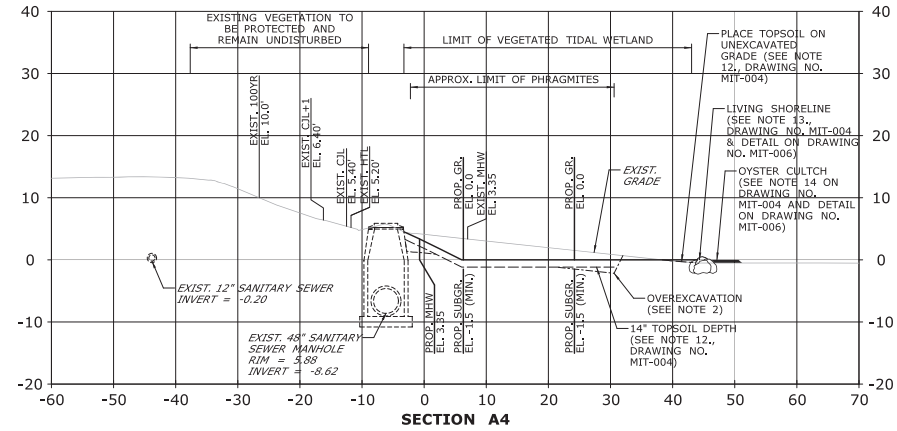
   ii. GRADE MITIGATION AREA 2 TO MATCH PROPOSED GRADE.

LEGEND:

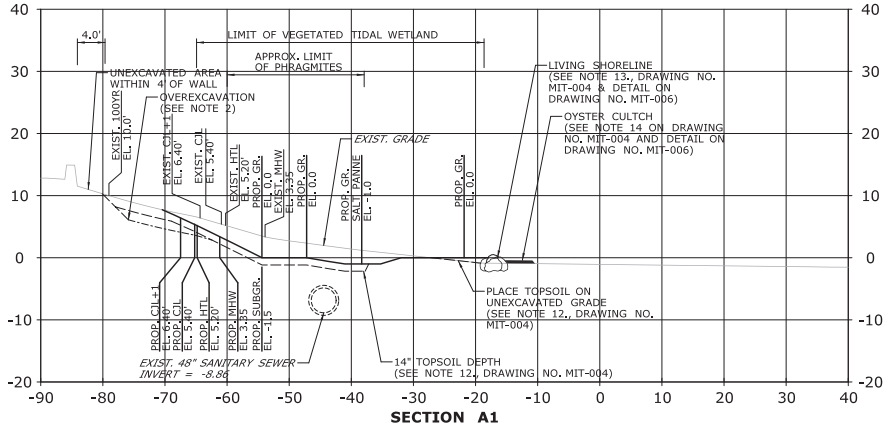
CJL+1 = CT COASTAL JURISDICTION LINE +1
CJL = CT COASTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
EXIST. = EXISTING
PROP. = PROPOSED
YR = YEAR
GR. = GRADE
SUBGR. = SUBGRADE
MIN. = MINIMUM
MAX. = MAXIMUM



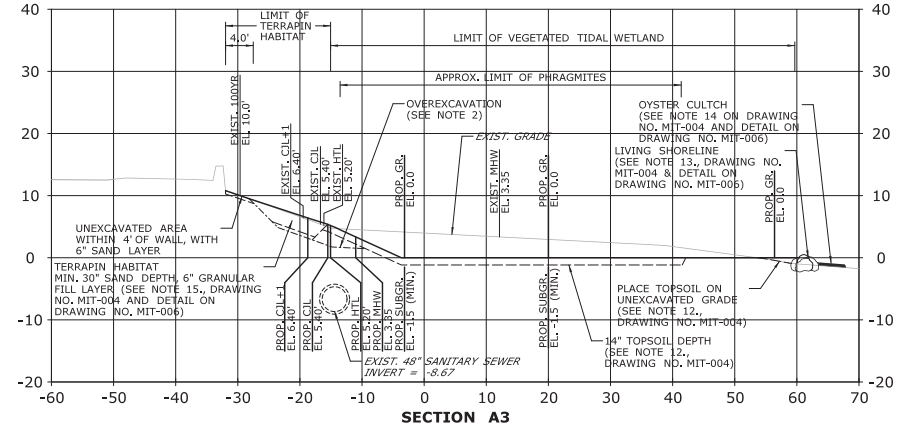
SECTION A2



SECTION A4



SECTION A1



SECTION A3

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation 55 Capitol Boulevard, 4th Floor Rocky Hill, CT 06067 Tel (860) 257-4727 Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-005)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-5

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

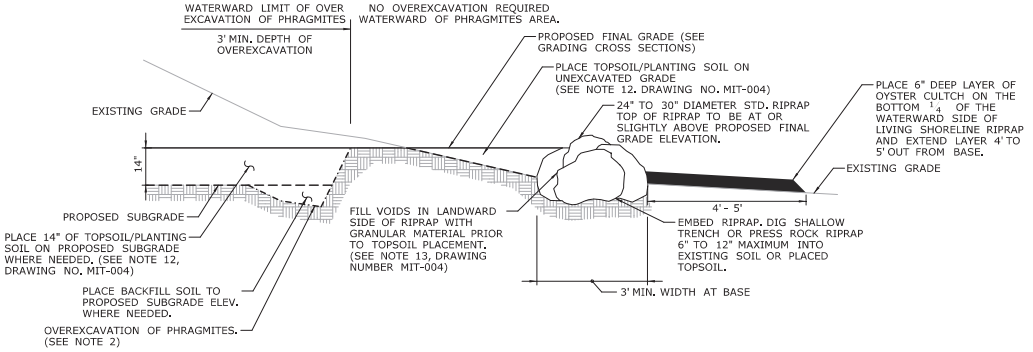
2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

   I. EXCAVATE PHRAGMITES AREA TO A MINIMUM OF 3'-0" BELOW EXISTING GRADE OR TO A LESSER DEPTH AT WHICH THE ENTIRE ROOT/RHIZOME LAYER IS REMOVED, AS DETERMINED BY THE OEP WETLAND SCIENTIST.

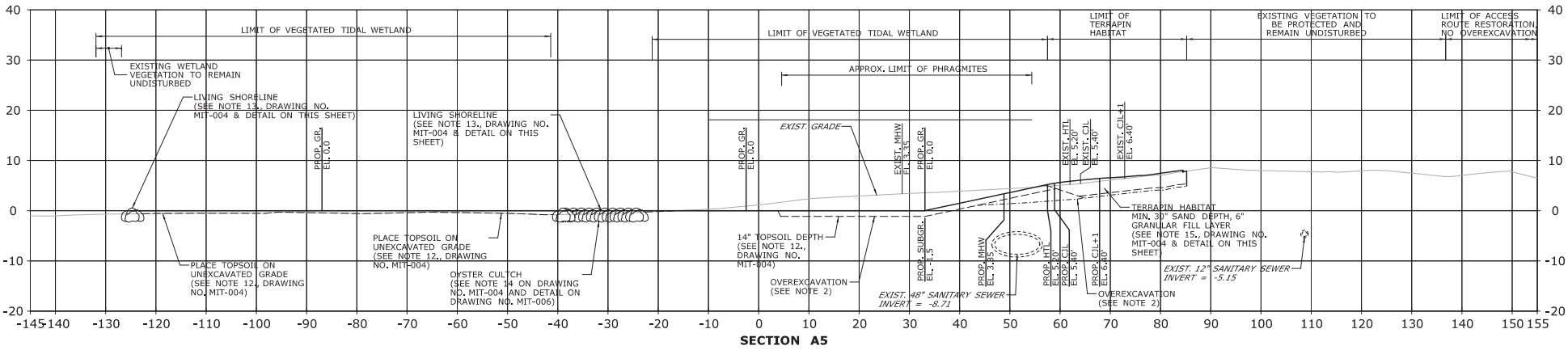
   II. GRADE MITIGATION AREA 2 TO MATCH PROPOSED GRADE.

LEGEND:

CJL+1 = CT COASTAL JURISDICTION LINE +1
CJL = CT COASTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
EXIST. = EXISTING
PROP. = PROPOSED
YR = YEAR
GR. = GRADE
SUBGR. = SUBGRADE
MIN. = MINIMUM
MAX. = MAXIMUM



LIVING SHORELINE DETAIL



TERRAPIN HABITAT DETAIL

SECTION A5

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-4777, Fax (860) 257-7384	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-006)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-6

NOTES:

1. SLOPE SEEDING AREA MIX BASED ON ITEM NO. 0950202A - SHORELINE GRASS ESTABLISHMENT.
2. BEFORE ANY WORK IS TO PROCEED IN THE WETLAND MITIGATION AREAS THE CONTRACTOR SHALL ARRANGE THROUGH THE ENGINEER FOR A MEETING WITH AN ENVIRONMENTAL INSPECTOR FROM THE CONNDOT OFFICE OF ENVIRONMENTAL PLANNING (CTDOT OEP). THIS MEETING WILL BE SCHEDULED AT LEAST 10 DAYS PRIOR TO COMMENCEMENT OF WORK ACTIVITY DESCRIBED IN THE SPECIAL PROVISION "TIDAL WETLAND CREATION".
3. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-004 FOR PROPOSED GRADING IN THE WETLAND CREATION SITE.
4. AFTER COMPLETION OF FINAL GRADE, A 7-14 DAY TIDAL FLOW CYCLE SHALL OCCUR PRIOR TO PLANTING. PLANTING IN THE WETLAND CREATION SITES SHALL BE DONE BETWEEN APRIL 15 AND OCTOBER 15.
5. SEEDING FOR SHORELINE GRASS ESTABLISHMENT SHALL COMMENCE UPON COMPLETION OF GRADING AND PLACEMENT OF PLANTING SUBSTRATE/TOPSOIL, AND AFTER INITIAL INSTALLATION OF ALL PLANTS. THE GRADING AND SEEDING MUST BE PERFORMED WITHIN THE SAME CONSTRUCTION SEASON WITH NO SCHEDULED INACTIVE PERIOD OF MORE THAN 10 WORKDAYS. SEED SHALL BE APPLIED BY BROADCAST SPREADING.
6. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE WETLAND CREATION SITES PRIOR TO PLANTING TO DETERMINE THE SITES ARE SUITABLE FOR PLANTING. THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANT LAYOUT FROM THE PLANTING PLAN IF AS-BUILT CONDITIONS POSE A THREAT TO THE SURVIVAL OF PLANTINGS.
7. AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT, DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.
8. PAYMENT FOR THE WORK OF CONSTRUCTING WETLAND MITIGATION AREAS WILL BE MADE UNDER THE FOLLOWING ITEMS:

   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   EXCAVATION TO PERFORM GRADING WILL BE PAID UNDER ITEM #0202000 - EARTH EXCAVATION.

   FURNISHING, PLACING, MAINTAINING AND REMOVING SEDIMENTATION CONTROL SYSTEMS WILL BE PAID UNDER ITEM #0219001 - SEDIMENTATION CONTROL SYSTEM.

   REMOVAL OF INVASIVE PLANT SPECIES WILL BE PAID UNDER #0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION.

8. (CONTINUED):

   FORMATION OF SUBGRADE IN WETLAND CREATION SITES AND TERRAPIN HABITAT AREA, PROVIDING AND PLACING PLANTING SUBSTRATE/TOPSOIL, PROVIDING AND PLACING SAND AND GRANULAR FILL IN THE TERRAPIN HABITAT AREA, FURNISHING AND PLACING RIPRAP AND GRANULAR FILL FOR THE LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH AND FINISH GRADING WILL BE PAID UNDER ITEM #0948013A - TIDAL WETLAND CREATION.

   FURNISHING, PLACING AND ESTABLISHING SHORELINE GRASS WILL BE PAID UNDER ITEM #0950202A - SHORELINE GRASS ESTABLISHMENT.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS. REPLACEMENT OF PLANTINGS IN MITIGATION AREA 2 SHALL BE INCLUDED IN THIS ITEM.

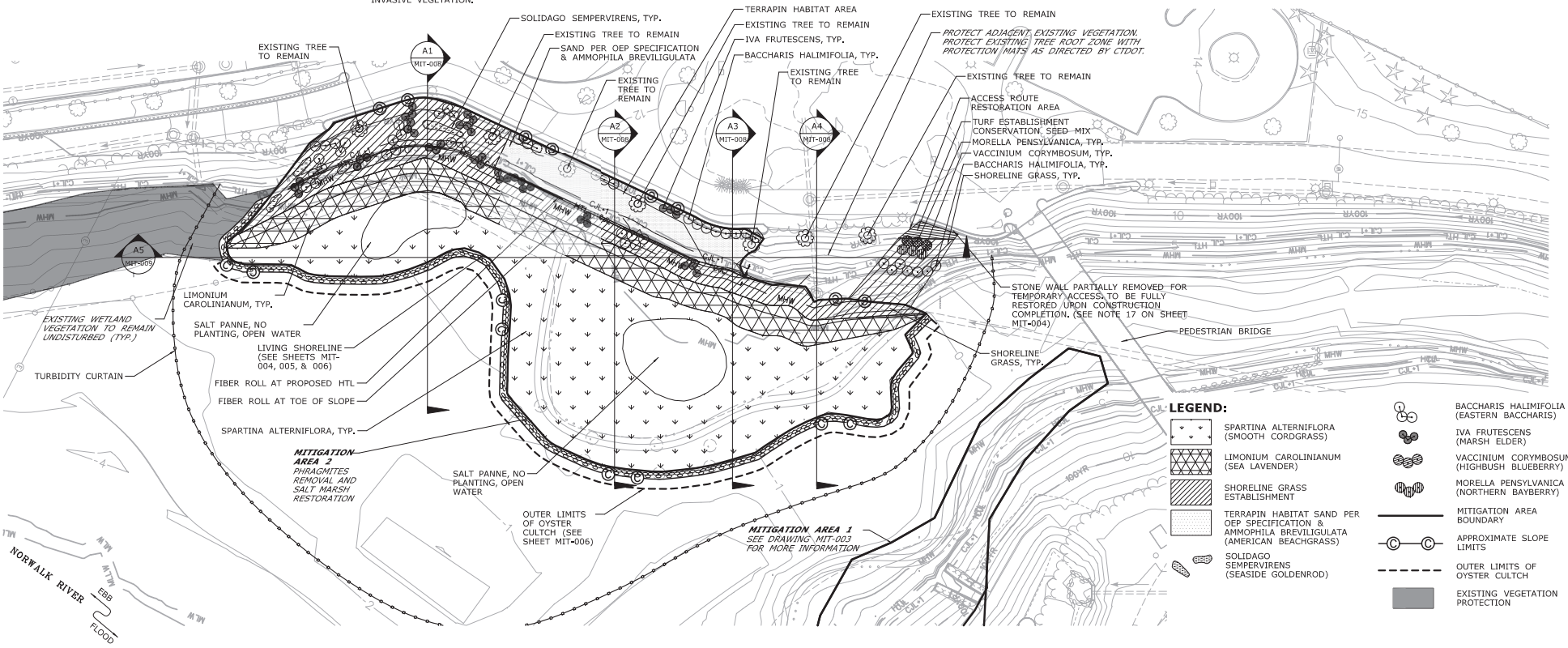
   FIBER ROLL SHALL BE PAID FOR UNDER ITEM #0949315A - FIBER ROLL.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

PLANTING SCHEDULE						
CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
SA	4,666	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	PLUG	18" O.C.	
LC	1,600	LIMONIUM CAROLINIANUM	SEA LAVENDER	PLUG	18" O.C.	
BH	47	BACCHARIS HALIMIFOLIA	EASTERN BACCHARIS	2 GAL.	48" O.C.	
IF	39	IVA FRUTESCENS	MARSH ELDER	2 GAL.	36" O.C.	
SS	95	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	1 GAL.	12" O.C.	
AB	920	AMMOPHILA BREVILIGULATA	AMERICAN BEACHGRASS	PLUG	18" O.C.	
MP	3	MORELLA PENSYLVANICA	NORTHERN BAYBERRY	2 GAL.	48" O.C.	2 FEMALE PLANTS NEAR PATH, 1 MALE PLANT BEHIND
VC	3	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	2 GAL.	48" O.C.	

NOTES: GAL. = GALLON; O.C. = ON CENTER

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW



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

DRAWN: V. ROBBINS

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

HNTB Corporation
55 Capital Boulevard, 4th Floor
Rocky Hill, CT 06067
Tel (860) 257-4777
Fax (860) 257-4799

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-007)

PROJECT NO.: 0301-0176

DATE: 8-28-19

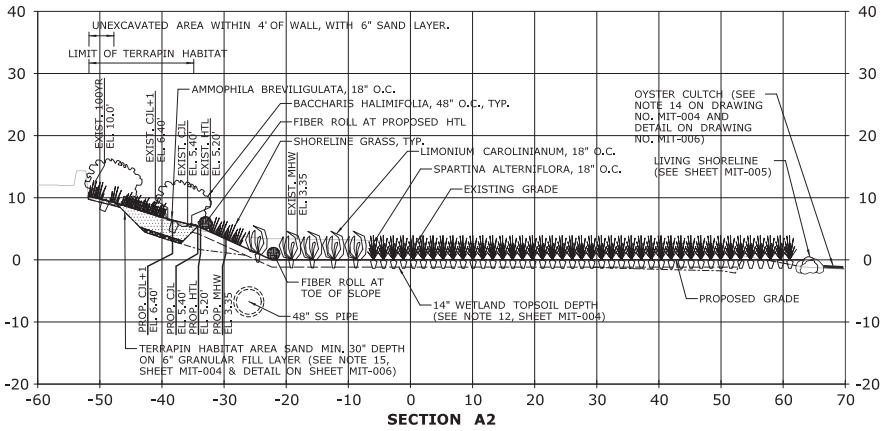
DRAWING NO.: CA16-7

NOTES:

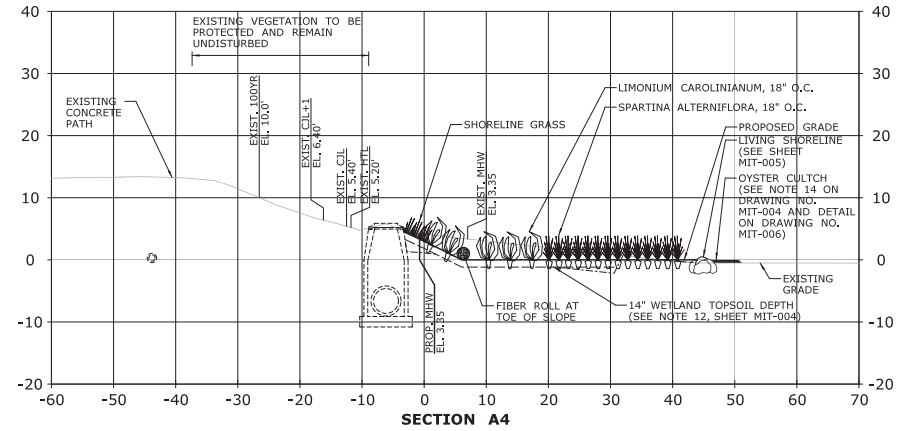
1. SEE MIT-007 MITIGATION AREA 2 PLANTING PLAN FOR LAYOUT OF IVA FRUTESCENS, BACCHARIS HALIMIFOLIA, SPARTINA ALTERNIFLORA, LIMONIUM CAROLINIANUM AND SOLIDAGO SEMPERVIRENS.
2. SEE GRADING DRAWING (MIT-004) AND SECTIONS (MIT-005 & 006) FOR OVEREXCAVATION DEPTHS AND LIMITS.
3. SEE GRADING DRAWING (MIT-004) FOR SECTION BASELINE.

LEGEND:

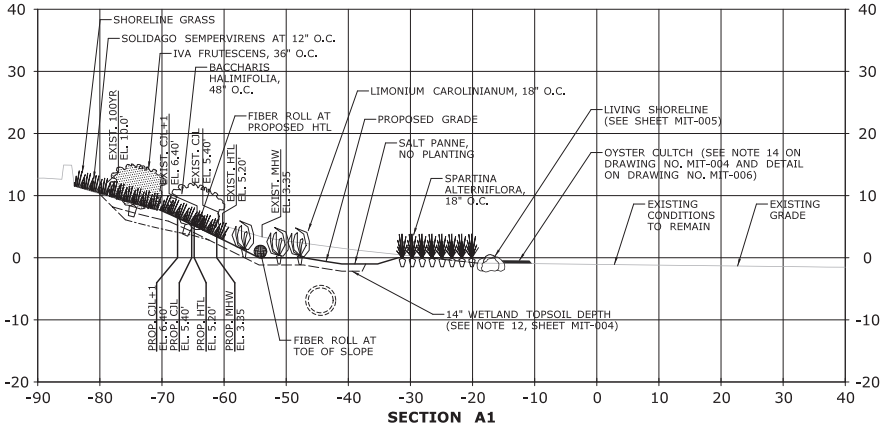
CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COSTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
O.C. = ON CENTER
YR = YEAR



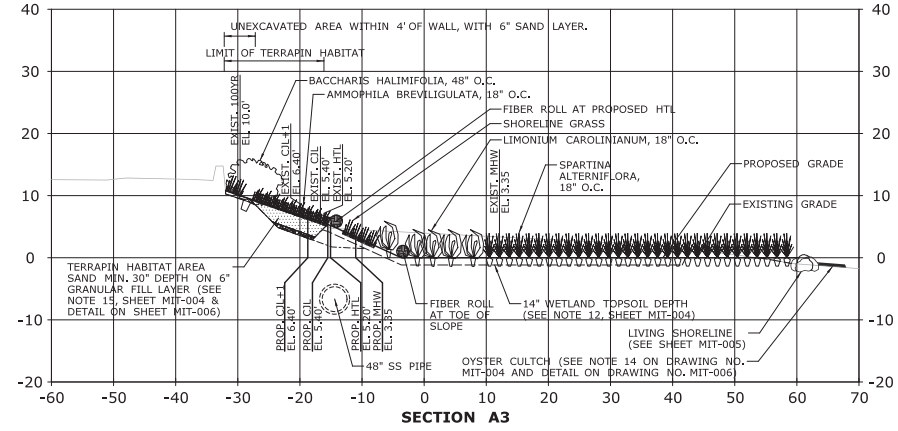
SECTION A2



SECTION A4



SECTION A1



SECTION A3

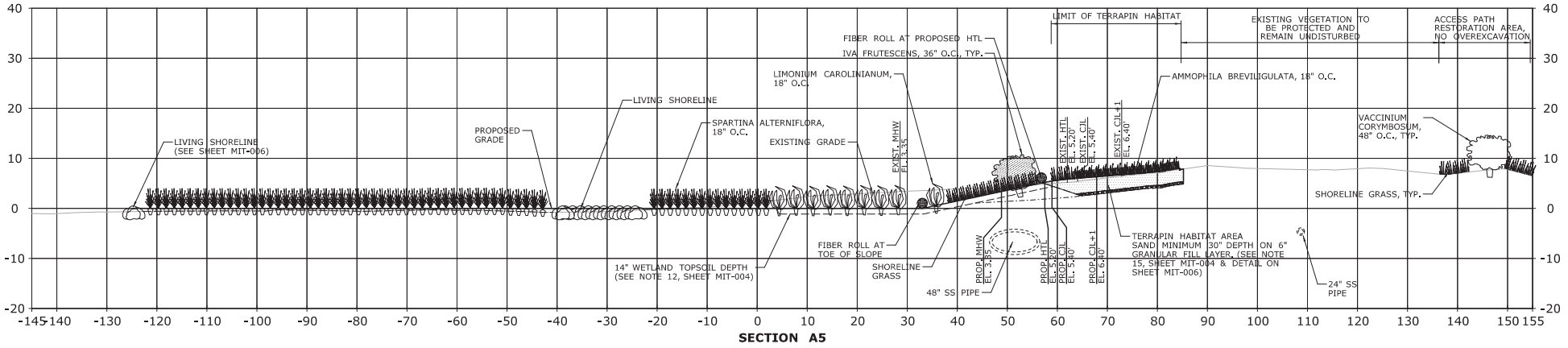
SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capitol Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel:(860) 257-4727, Fax:(860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-008)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-8

NOTES:

1. SEE MIT-007 MITIGATION AREA 2 PLANTING PLAN FOR LAYOUT OF IVA FRUTESCENS, BACCHARIS HALIMIFOLIA, MORELLA PENSYLVANICA, SPARTINA ALTERNIFLORA, LIMONIUM CAROLINIANUM, VACCINIUM CORYMBOSUM, AND SOLIDAGO SEMPERVIRENS.
2. SEE GRADING DRAWING (MIT-004) AND SECTIONS (MIT-005 & 006) FOR OVEREXCAVATION DEPTHS AND LIMITS.
3. SEE GRADING DRAWING (MIT-004) FOR SECTION BASELINE.

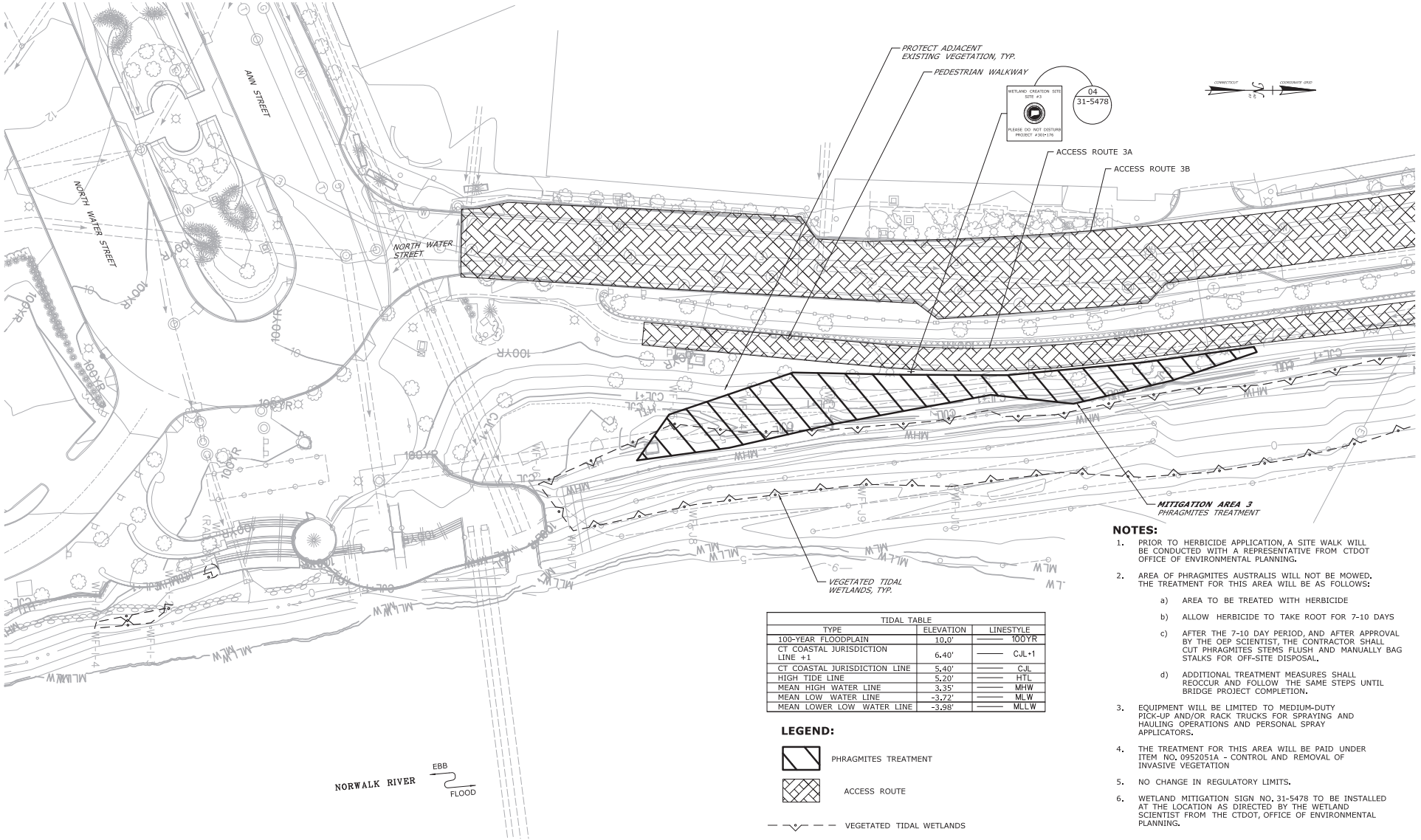
LEGEND:

CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COSTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
O.C. = ON CENTER
YR = YEAR



SECTION A5

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7364	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-009)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-9



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- PHRAGMITES TREATMENT
- ACCESS ROUTE
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR SPRAYING AND HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
5. NO CHANGE IN REGULATORY LIMITS.
6. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

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

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

SIGNATURE BLOCK:

HNTB Corporation
55 Capitol Boulevard, 4th Floor
Rocky Hill, CT 06067
Tel (860) 257-4727
Fax (860) 257-7384

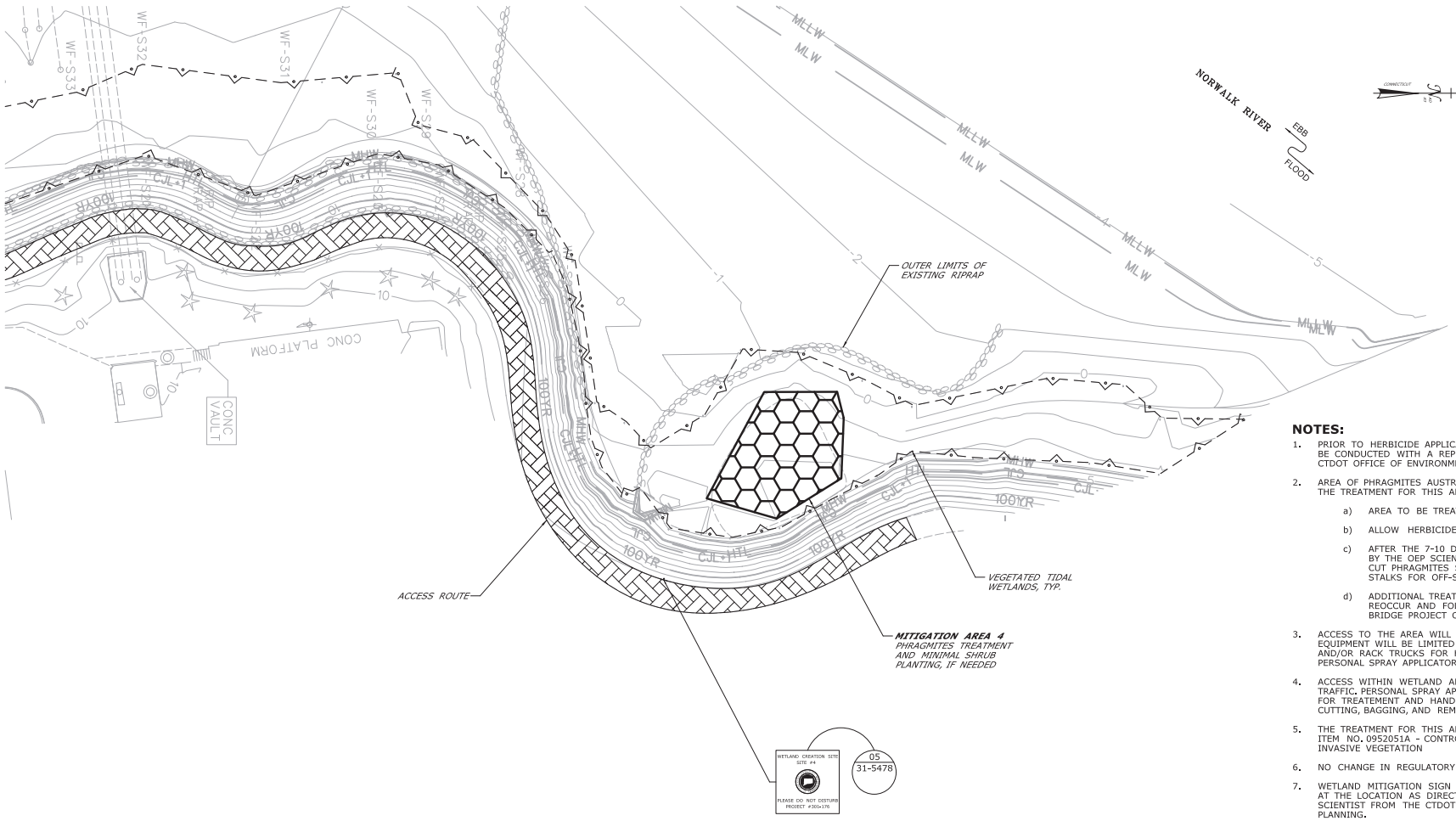
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-010)

PROJECT NO.: **0301-0176**
DATE: **8-28-19**
DRAWING NO.: **CA16-10**



NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. ACCESS TO THE AREA WILL BE ALONG EXISTING TRAIL AND EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. ACCESS WITHIN WETLAND AREA WILL BE LIMITED TO FOOT TRAFFIC. PERSONAL SPRAY APPLICATORS SHALL BE USED FOR TREATEMENT AND HAND LABOR SHALL BE USED FOR CUTTING, BAGGING, AND REMOVING VEGETATION.
5. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
6. NO CHANGE IN REGULATORY LIMITS.
7. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

VEGETATED TIDAL WETLANDS

MITIGATION AREA BOUNDARY

PHRAGMITES TREATMENT AND MINIMAL SHRUB PLANTING (IF NEEDED)

ACCESS ROUTE

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

DRAWN: V. ROBBINS

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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

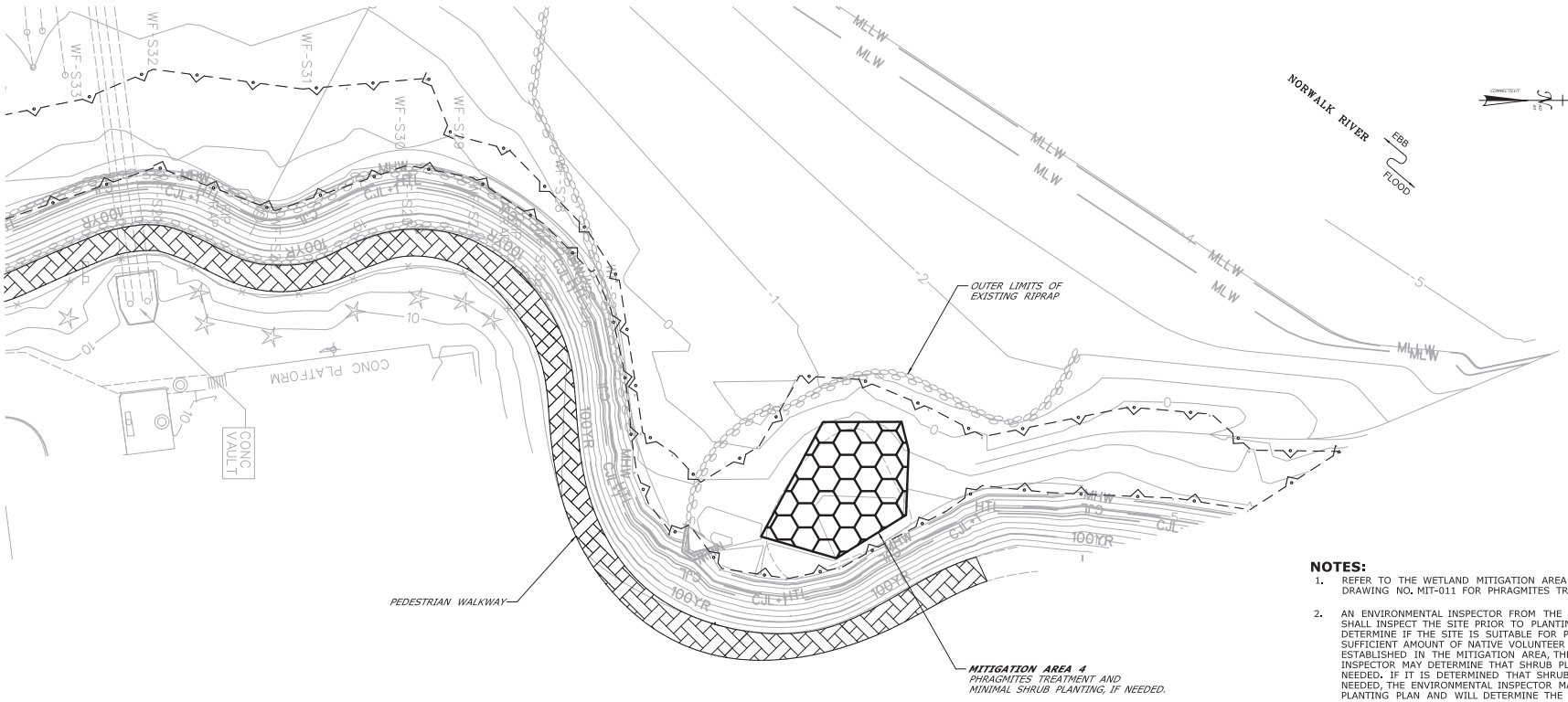
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-011)

DATE: **8-28-19**

DRAWING NO.: **CA16-11**



PLANTING SCHEDULE (AS NEEDED SEE NOTE 2)						
CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
BH	13	BACCHARIS HALIMIFOLIA	EASTERN BACCHARIS	2 GAL.	36" O.C.	
IF	12	IVA FRUTESCENS	MARSH ELDER	2 GAL.	36" O.C.	

LEGEND:

MITIGATION AREA BOUNDARY

ACCESS ROUTE

SHRUB PLANTING (IF NEEDED)

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	13.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

NOTES:

1. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-011 FOR PHRAGMITES TREATMENT.

2. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE SITE PRIOR TO PLANTING TO DETERMINE IF THE SITE IS SUITABLE FOR PLANTING. IF A SUFFICIENT AMOUNT OF NATIVE VOLUNTEER PLANTS HAS ESTABLISHED IN THE MITIGATION AREA, THE ENVIRONMENTAL INSPECTOR MAY DETERMINE THAT SHRUB PLANTING IS NOT NEEDED. IF IT IS DETERMINED THAT SHRUB PLANTING IS NEEDED, THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANTING PLAN AND WILL DETERMINE THE LOCATIONS FOR PLANTING.

2A. PLANTING SHALL BE DONE DURING THE FINAL YEAR OF BRIDGE CONSTRUCTION, IF NEEDED.

3. IF SHRUB PLANTING IS NEEDED, AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.

4. PAYMENT FOR THE WORK WILL BE MADE UNDER THE FOLLOWING ITEMS:
   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

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

DRAWN: V. ROBBINS

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

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Rocky Hill, CT 06067
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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

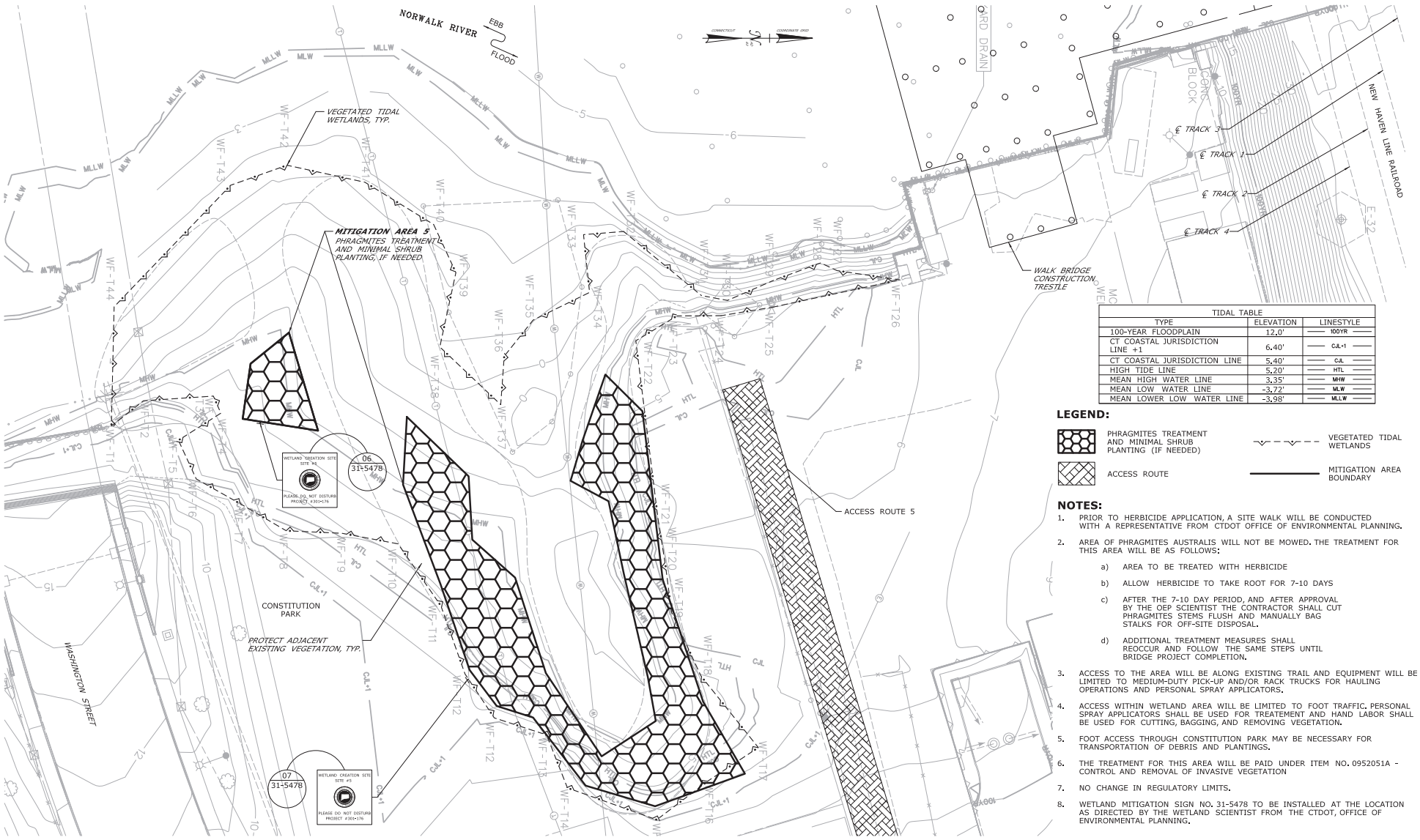
TOWN: **NORWALK**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-012)

PROJECT NO.: **0301-0176**

DATE: **8-28-19**

DRAWING NO.: **CA16-12**



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	12.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

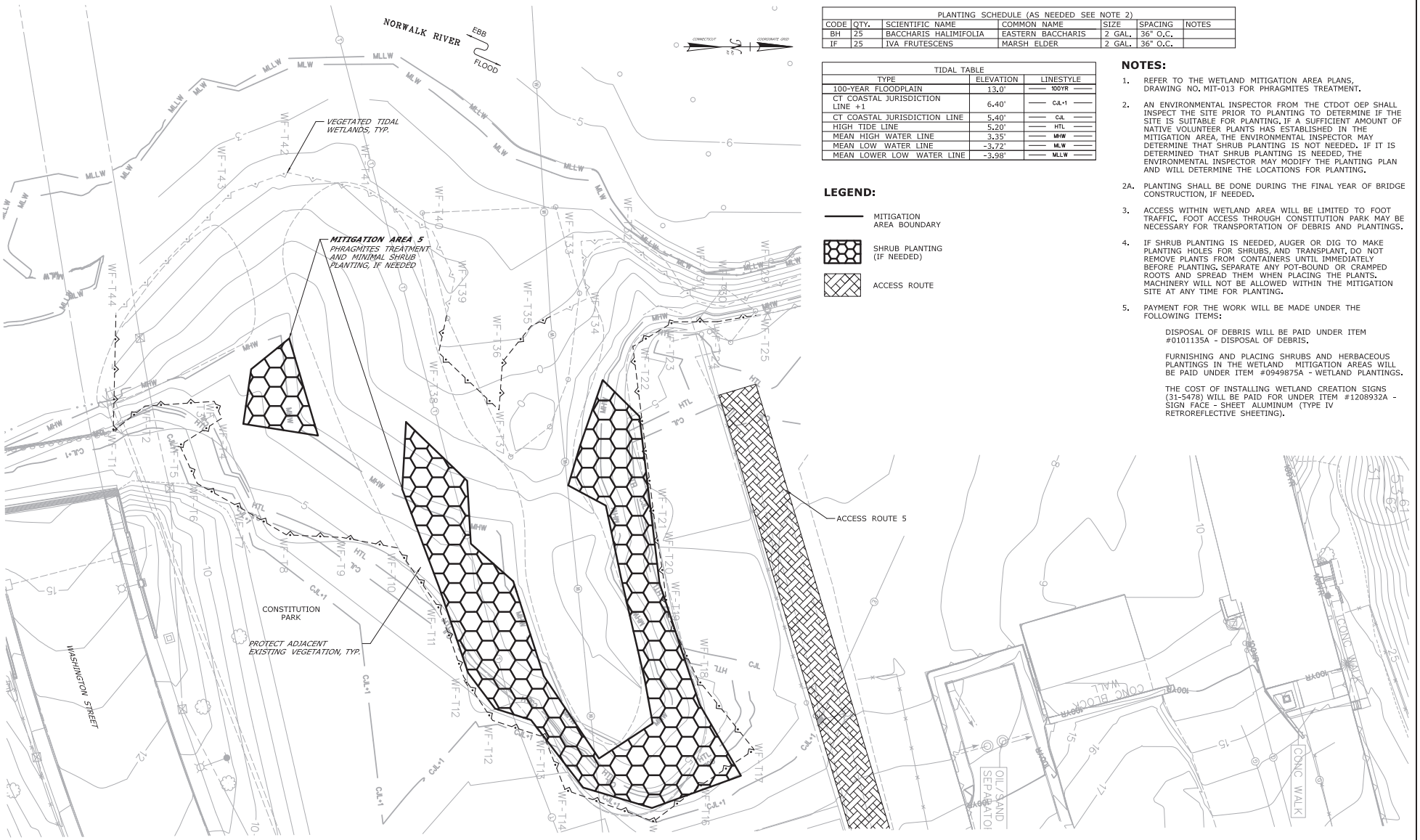
LEGEND:

- PHRAGMITES TREATMENT AND MINIMAL SHRUB PLANTING (IF NEEDED)
- VEGETATED TIDAL WETLANDS
- ACCESS ROUTE
- MITIGATION AREA BOUNDARY

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. ACCESS TO THE AREA WILL BE ALONG EXISTING TRAIL AND EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. ACCESS WITHIN WETLAND AREA WILL BE LIMITED TO FOOT TRAFFIC. PERSONAL SPRAY APPLICATORS SHALL BE USED FOR TREATEMENT AND HAND LABOR SHALL BE USED FOR CUTTING, BAGGING, AND REMOVING VEGETATION.
5. FOOT ACCESS THROUGH CONSTITUTION PARK MAY BE NECESSARY FOR TRANSPORTATION OF DEBRIS AND PLANTINGS.
6. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
7. NO CHANGE IN REGULATORY LIMITS.
8. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

SCALE: SCALE IN FEET 0 20 40 SCALE 1" = 40'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-4727, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-013)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-13



PLANTING SCHEDULE (AS NEEDED SEE NOTE 2)						
CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
BH	25	BACCHARIS HALIMIFOLIA	EASTERN BACCHARIS	2 GAL.	36" O.C.	
IF	25	IVA FRUTESCENS	MARSH ELDER	2 GAL.	36" O.C.	

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	13.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- MITIGATION AREA BOUNDARY
- SHRUB PLANTING (IF NEEDED)
- ACCESS ROUTE

NOTES:

1. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-013 FOR PHRAGMITES TREATMENT.
2. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE SITE PRIOR TO PLANTING TO DETERMINE IF THE SITE IS SUITABLE FOR PLANTING. IF A SUFFICIENT AMOUNT OF NATIVE VOLUNTEER PLANTS HAS ESTABLISHED IN THE MITIGATION AREA, THE ENVIRONMENTAL INSPECTOR MAY DETERMINE THAT SHRUB PLANTING IS NOT NEEDED. IF IT IS DETERMINED THAT SHRUB PLANTING IS NEEDED, THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANTING PLAN AND WILL DETERMINE THE LOCATIONS FOR PLANTING.

2A. PLANTING SHALL BE DONE DURING THE FINAL YEAR OF BRIDGE CONSTRUCTION, IF NEEDED.

3. ACCESS WITHIN WETLAND AREA WILL BE LIMITED TO FOOT TRAFFIC. FOOT ACCESS THROUGH CONSTITUTION PARK MAY BE NECESSARY FOR TRANSPORTATION OF DEBRIS AND PLANTINGS.
4. IF SHRUB PLANTING IS NEEDED, AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.
5. PAYMENT FOR THE WORK WILL BE MADE UNDER THE FOLLOWING ITEMS:

   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

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

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

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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:
ACTIVITY 16
WETLAND MITIGATION
(MIT-014)
DATE: 8-28-19
DRAWING NO.: CA16-14

NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK ASSOCIATED WITH THE MITIGATION AREA, THE CONTRACTOR SHALL SUBMIT TO CTDOT OFFICE OF ENVIRONMENTAL PLANNING (OEP) FOR REVIEW AND APPROVAL, A WORK PLAN THAT INCLUDES A CONSTRUCTION SCHEDULE AND AN OUTLINE OF CONSTRUCTION METHODOLOGIES FOR PERFORMING THE REQUIRED WORK IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION, AND IN ACCORDANCE WITH OTHER ITEMS LISTED BELOW.

2. PRIOR TO ANY EARTH WORK, THE SITE WILL BE TREATED FOR INVASIVE SPECIES UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION. EXCAVATION SHALL COMMENCE FOLLOWING 10 DAYS OF HERBICIDE SET.

3. EXCAVATION TO PERFORM GRADING TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0202000 - EARTH EXCAVATION. THE FORMATION OF SUBGRADE, FINAL GRADE, AND PLACEMENT OF BACKFILL AND SUBSTRATE TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION.

4. SEE DRAWING NO. MIT-018 FOR LIMITS OF SHORELINE GRASS ESTABLISHMENT AND PLANTINGS IN TIDAL MITIGATION AREA.

5. A WETLAND SCIENTIST FROM CTDOT, OEP WILL BE ON-SITE TO MONITOR AND DIRECT CONSTRUCTION OF THE TIDAL MITIGATION AREA. AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR A MEETING WITH THE OEP WETLAND SCIENTIST OR ENVIRONMENTAL INSPECTOR TO REVIEW THE PLANNED WORK ACTIVITIES.

6. THE TIDAL WETLAND AND MITIGATION WORK SHALL CONSIST OF, BUT NOT LIMITED TO, THE CONSTRUCTION AND REMOVAL OF TEMPORARY ACCESS ROADS OR TEMPORARY ACCESS RAMPS, PLACEMENT AND REMOVAL OF RIPRAP, HERBICIDE TREATMENT OF PHRAGMITES OR OTHER INVASIVE SPECIES, OVER EXCAVATION OF RIPRAP AND DEBRIS, PREPARING APPROPRIATE SITE GRADES, CONSTRUCTION OF THE LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH, PLACING FIBER ROLL, PLACING APPROVED PLANTING BACKFILL/TOPSOIL, THE FURNISHING AND PLACEMENT OF PLANTINGS, SHORELINE GRASS ESTABLISHMENT, AND WETLAND CREATION SIGN.

7. PRIMARY AND SECONDARY ACCESS PATHS WITHIN MITIGATION AREA ARE CONCEPTUAL ONLY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED ACCESS PLAN TO CTDOT OEP FOR REVIEW AND APPROVAL PER ITEM NO. 0948013A - TIDAL WETLAND CREATION.

8. THE SURFACE LAYER OF EXISTING RIPRAP SHALL BE EXCAVATED AND ROCK THAT IS CLEAN, AND A MINIMUM 90% FREE OF SOIL, SHALL BE REUSED FOR CONSTRUCTION OF THE LIVING SHORELINE, AS DIRECTED BY THE OEP WETLAND SCIENTIST. IF THE AMOUNT OF SUITABLE REUSED ROCK FROM WITHIN THE MITIGATION AREA IS NOT SUFFICIENT TO CONSTRUCT THE LIVING SHORELINE, RIPRAP OF SIMILAR SIZE AS SPECIFIED IN CTDOT FORM 817 SECTION M.12.02 SHALL BE PROVIDED TO COMPLETE THE LIVING SHORELINE WORK.

9. EXISTING RIPRAP REMAINING BELOW THE SURFACE LAYER SHALL BE OVEREXCAVATED TO A SUFFICIENT DEPTH (BETWEEN 1.5' AND 2.75' BELOW EXISTING GRADE) AS DIRECTED BY THE OEP WETLAND SCIENTIST AS FOLLOWS:

i. IF THE LAYERS OF EXISTING RIPRAP CONSIST OF MORE THAN 50% ROCK FROM WITHIN THE OVEREXCAVATED AREA, THE RIPRAP MATERIAL SHALL BE PROPERLY DISPOSED OF AT AN APPROVED UPLAND FACILITY, AS DETERMINED BY THE OEP WETLAND SCIENTIST. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED WITHIN THE OVEREXCAVATED AREA TO ACHIEVE THE PROPOSED SUBGRADE. THE REMAINING TOPSOIL MATERIAL SHALL BE PLACED AND COMPACTED UP TO THE PROPOSED FINAL GRADE.

ii. IF THE LAYERS OF EXISTING RIPRAP CONSIST OF MORE THAN 50% SOIL FROM WITHIN THE OVEREXCAVATED AREA, THE MATERIAL SHALL REMAIN IN PLACE, AS DETERMINED BY THE OEP WETLAND SCIENTIST. ADDITIONAL COMPACTED BACKFILL MATERIAL MAY BE REQUIRED TO ACHIEVE THE PROPOSED SUBGRADE. THE REMAINING TOPSOIL MATERIAL SHALL BE PLACED AND COMPACTED UP TO THE PROPOSED FINAL GRADE.

10. A 14" DEEP LAYER OF WETLAND PLANTING SOIL/TOPSOIL SHALL BE PLACED ON THE PROPOSED SUBGRADE. THIS ACCOUNTS FOR COMPACTION AND SETTLING FOLLOWING THE TIDAL FLUSHING.

11. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OEP

12. EQUIPMENT WILL NOT BE PERMITTED ON COMPACTED PROPOSED FINAL GRADE WITHIN THE MITIGATION AREA.

13. MITIGATION AREA 6A TO BE COMPLETED LAST IN COORDINATION WITH THE REMOVAL OF THE WALK BRIDGE CONSTRUCTION TRESTLE. CONSTRUCTION ACTIVITIES FOR AREA 6A WILL BE PERFORMED FROM THE NE TRESTLE AS IT GETS REMOVED UPON COMPLETION OF BRIDGE CONSTRUCTION. ACCESS TO AREA 6A AFTER THE CONSTRUCTION TRESTLE IS REMOVED WILL BE ALONG THE EXISTING MULTI-USE TRAIL FROM THE CONSTRUCTION STAGING AREA WITHIN CTDOT RIGHT OF WAY ON THE NORTH SIDE OF THE EAST APPROACH TO WALK BRIDGE.

14. A CONTINUOUS 9' MINIMUM WIDTH TO 11.5' WIDTH OF EXISTING RIPRAP IS TO REMAIN AS A SUBSTRATE BASE FOR CONSTRUCTING A LIVING SHORELINE OF REUSED EXCAVATED ROCKS (SEE DETAIL ON DRAWING NO. MIT-017). ANY AREAS OF THE LIVING SHORELINE BASE FOUND TO BE DISCONTINUOUS WILL RECEIVE RIPRAP THAT HAS BEEN REMOVED FROM OTHER PORTIONS OF THE MITIGATION AREA TO FILL GAPS.

15. UNDER THE DIRECTION OF A WETLAND SCIENTIST FROM CTDOT OEP, THE LIVING SHORELINE ROCK SHALL BE PLACED IN A CONFIGURATION THAT IS A MINIMUM WIDTH OF 7' AT THE BASE FOR A 2' HIGH BERM, OR A MINIMUM WIDTH OF 9.5' AT THE BASE FOR A 3' HIGH BERM. THE ROCK SHALL BE PLACED AT A HEIGHT THAT ALLOWS THE TOP OF THE RIPRAP TO BE AT THE PROPOSED FINAL GRADE ELEVATION OR SLIGHTLY ABOVE PROPOSED FINAL GRADE. ON THE LANDWARD SIDE OF THE RIPRAP, VOIDS SHALL BE FILLED WITH GRANULAR MATERIAL TO PREVENT THE TOPSOIL FROM WASHING THROUGH THE VOIDS. GRANULAR FILL SHALL BE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.

16. OYSTER CULTCH SHALL BE PLACED ON THE BOTTOM 1/4 OF THE WATERWARD SIDE OF THE LIVING SHORELINE RIPRAP AND A 6" DEEP LAYER SHALL EXTEND OUT 4' TO 5' FROM BASE, ON EXISTING GRADE, AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.

17. MITIGATION AREA 6B NOTES ARE AS FOLLOWS:

I. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL NEED TO BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.

II. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:

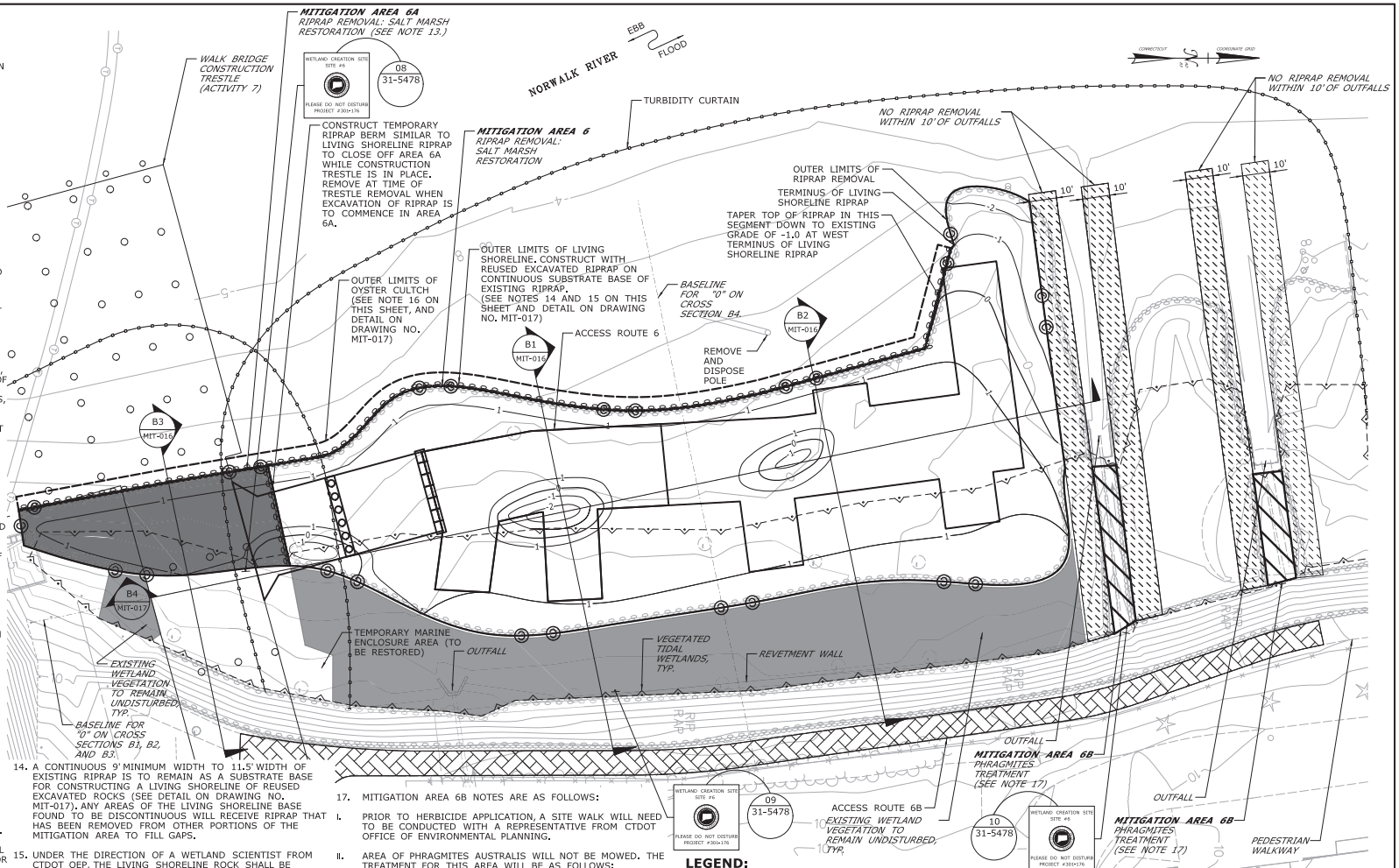
a) AREA TO BE TREATED WITH HERBICIDE

b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS

c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.

d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL PROJECT COMPLETION.

III. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION.



LEGEND:

- EXISTING WETLAND VEGETATION TO REMAIN UNDISTURBED
- NO RIPRAP REMOVAL
- PHRAGMITES TREATMENT (SITE 6B)
- MITIGATION AREA 6A
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY
- APPROXIMATE SLOPE LIMITS
- OUTER LIMITS OF OYSTER CULTCH

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

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

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

SIGNATURE BLOCK:

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Tel (860) 257-4727
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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**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-015)

PROJECT NO.: 0301-0176
DATE: 8-28-19
DRAWING NO.: CA16-15

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

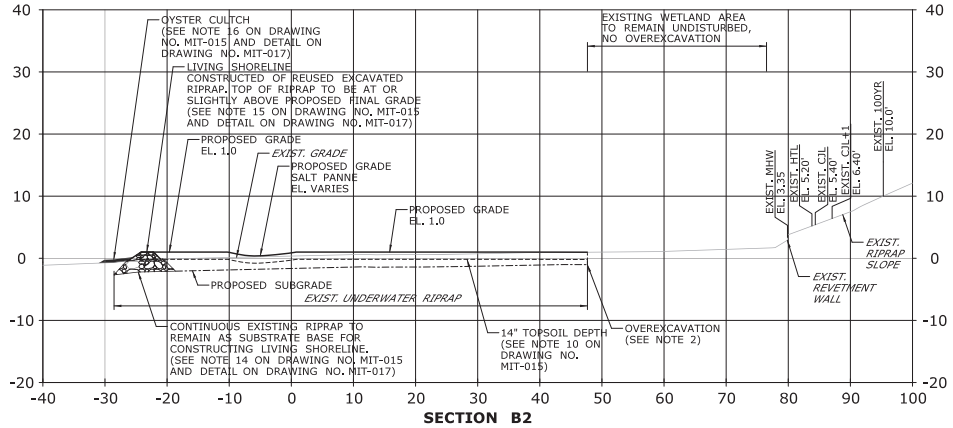
   i. EXCAVATE SURFACE LAYER OF EXISTING RIPRAP TO REMOVE AND REUSE ROCK THAT IS CLEAN AND A MINIMUM 90% FREE OF SOIL FOR CONSTRUCTION OF LIVING SHORELINE.

   ii. OVEREXCAVATE REMAINING RIPRAP LAYERS TO A SUFFICIENT DEPTH (BETWEEN 1.5' AND 2.75') BELOW EXISTING GRADE TO REMOVE ANY LAYERS OF RIPRAP THAT CONSIST OF MORE THAN 50% ROCK. LAYERS OF RIPRAP WITH MORE THAN 50% SOIL CAN REMAIN IN PLACE ONCE PROPOSED SUBGRADE IS ACHIEVED AS DETERMINED BY THE OEP WETLAND SCIENTIST.

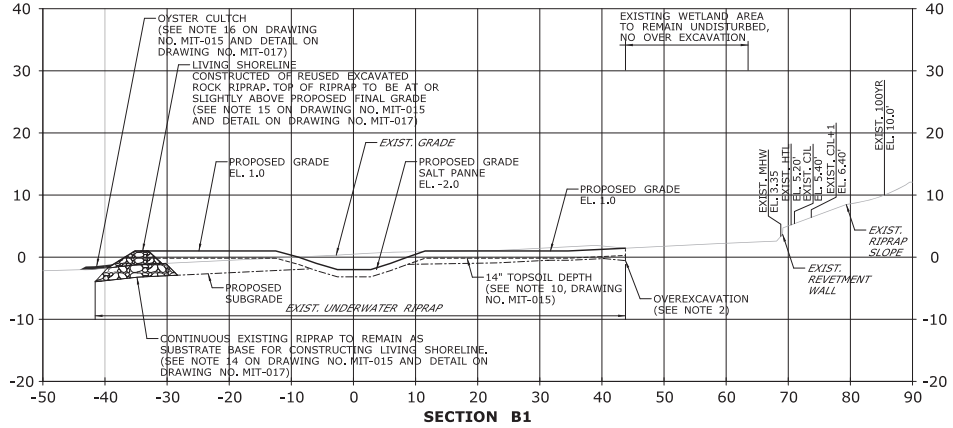
   iii. GRADE MITIGATION AREA 6 TO MATCH PROPOSED GRADE.

LEGEND:

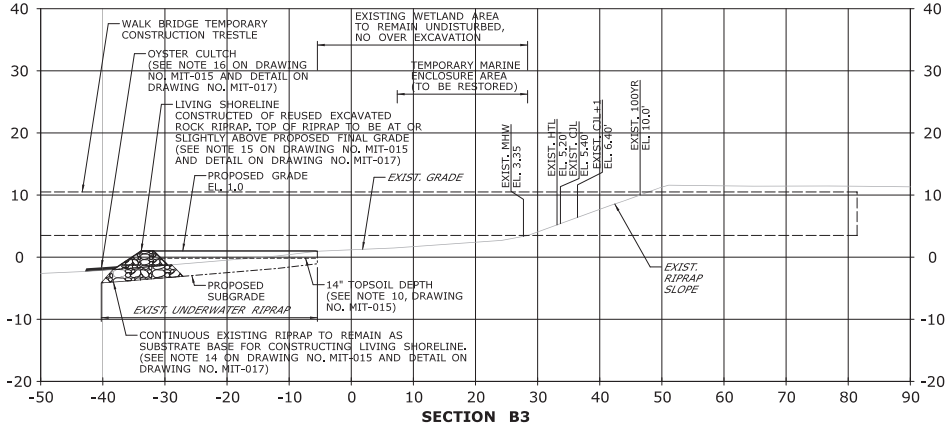
CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COASTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
EXIST. = EXISTING
YR = YEAR



SECTION B2

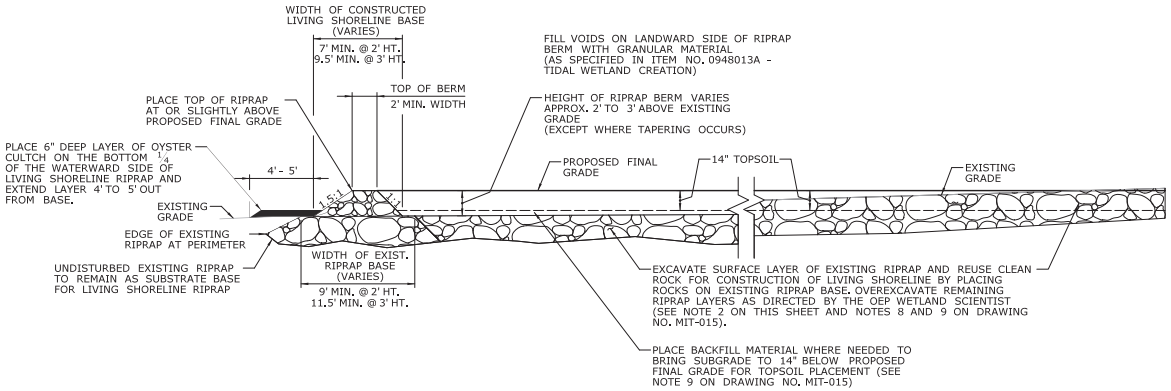


SECTION B1



SECTION B3

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-4727, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-016)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-16



LIVING SHORELINE DETAIL WITH REUSED RIPRAP

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

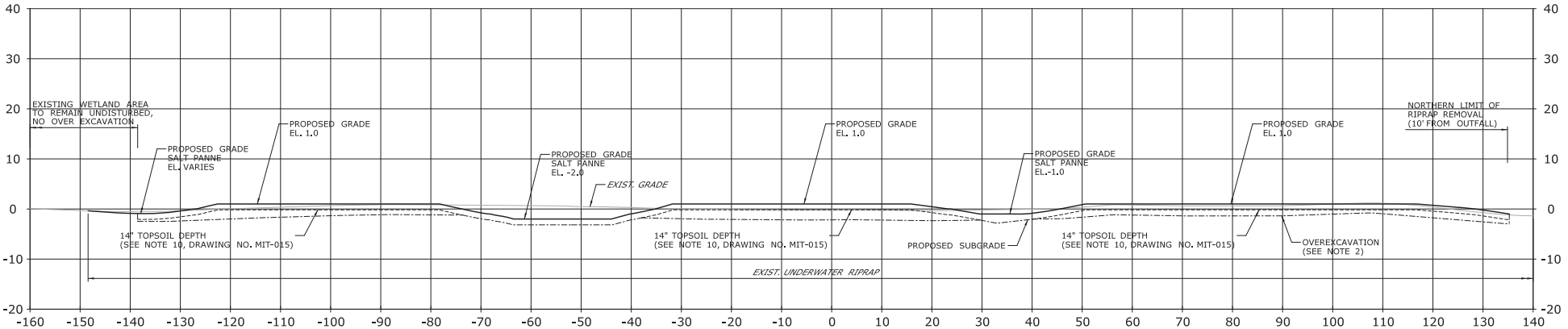
   i. EXCAVATE SURFACE LAYER OF EXISTING RIPRAP TO REMOVE AND REUSE ROCK THAT IS CLEAN AND A MINIMUM 90% FREE OF SOIL FOR CONSTRUCTION OF LIVING SHORELINE.

   ii. OVEREXCAVATE REMAINING RIPRAP LAYERS TO A SUFFICIENT DEPTH (BETWEEN 1.5' AND 2.75') BELOW EXISTING GRADE TO REMOVE ANY LAYERS OF RIPRAP THAT CONSIST OF MORE THAN 50% ROCK. LAYERS OF RIPRAP WITH MORE THAN 50% SOIL CAN REMAIN IN PLACE ONCE PROPOSED SUBGRADE IS ACHIEVED AS DETERMINED BY THE OEP WETLAND SCIENTIST.

   iii. GRADE MITIGATION AREA 6 TO MATCH PROPOSED GRADE.

LEGEND:

EXIST. = EXISTING



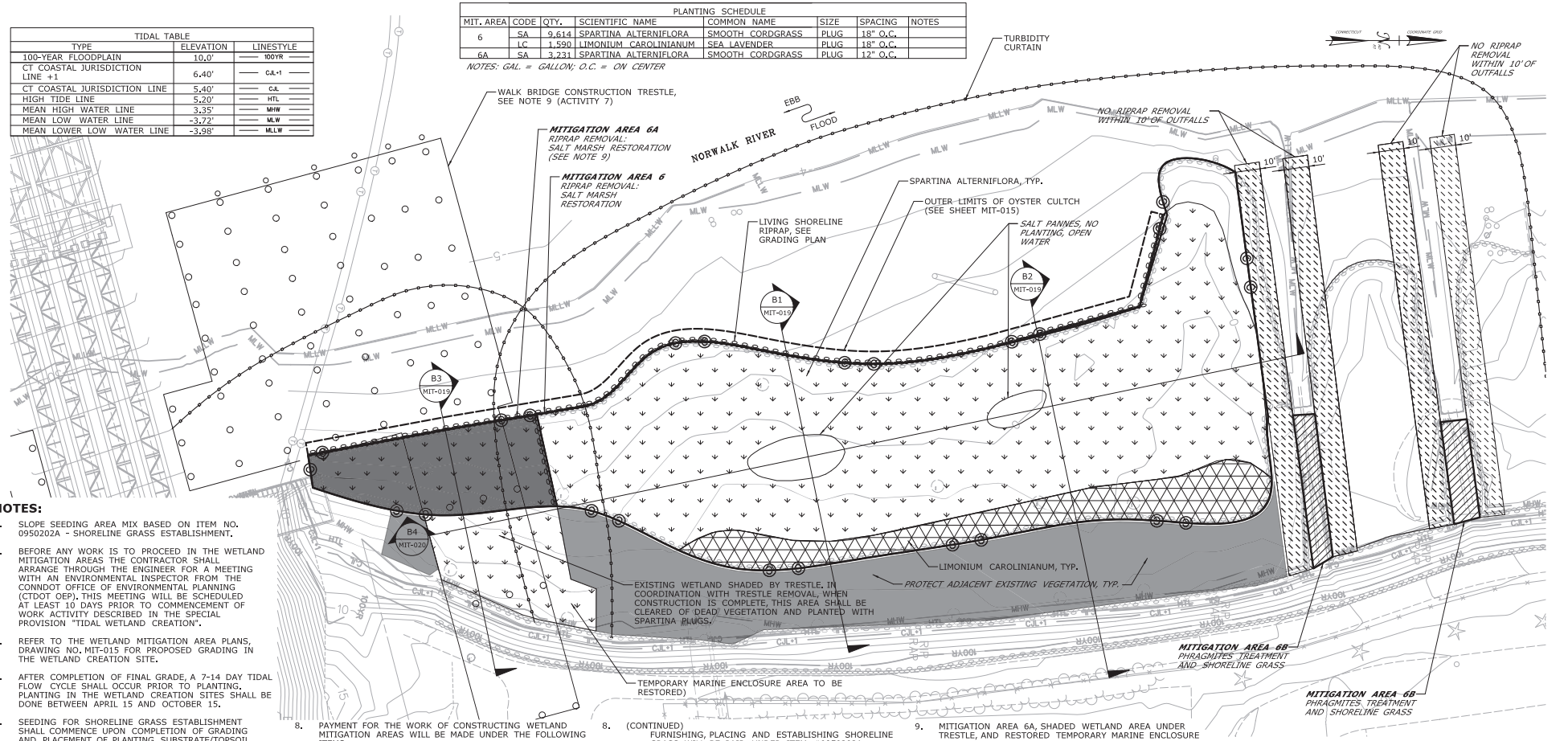
SECTION B4

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation, 55 Capitol Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-4727, Fax (860) 257-7394	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-017)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-17

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

PLANTING SCHEDULE							
MIT. AREA	CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
6	SA	9,614	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	PLUG	18" O.C.	
	LC	1,590	LIMONIUM CAROLINIANUM	SEA LAVENDER	PLUG	18" O.C.	
6A	SA	3,231	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	PLUG	12" O.C.	

NOTES: GAL. = GALLON; O.C. = ON CENTER



NOTES:

1. SLOPE SEEDING AREA MIX BASED ON ITEM NO. 0950202A - SHORELINE GRASS ESTABLISHMENT.
2. BEFORE ANY WORK IS TO PROCEED IN THE WETLAND MITIGATION AREAS THE CONTRACTOR SHALL ARRANGE THROUGH THE ENGINEER FOR A MEETING WITH AN ENVIRONMENTAL INSPECTOR FROM THE CONNDOT OFFICE OF ENVIRONMENTAL PLANNING (CTDOT OEP). THIS MEETING WILL BE SCHEDULED AT LEAST 10 DAYS PRIOR TO COMMENCEMENT OF WORK ACTIVITY DESCRIBED IN THE SPECIAL PROVISION "TIDAL WETLAND CREATION".
3. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-015 FOR PROPOSED GRADING IN THE WETLAND CREATION SITE.
4. AFTER COMPLETION OF FINAL GRADE, A 7-14 DAY TIDAL FLOW CYCLE SHALL OCCUR PRIOR TO PLANTING. PLANTING IN THE WETLAND CREATION SITES SHALL BE DONE BETWEEN APRIL 15 AND OCTOBER 15.
5. SEEDING FOR SHORELINE GRASS ESTABLISHMENT SHALL COMMENCE UPON COMPLETION OF GRADING AND PLACEMENT OF PLANTING SUBSTRATE/TOPSOIL AND AFTER COMPLETION OF INITIAL INSTALLATION OF ALL PLANTS. THE GRADING AND SEEDING MUST BE PERFORMED WITHIN THE SAME CONSTRUCTION SEASON WITH NO SCHEDULED INACTIVE PERIOD OF MORE THAN 10 WORKDAYS. SEEDS SHALL BE APPLIED BY BROADCAST SPREADING.
6. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE WETLAND CREATION SITES PRIOR TO PLANTING TO DETERMINE THE SITES ARE SUITABLE FOR PLANTING. THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANT LAYOUT FROM THE PLANTING PLAN IF AS-BUILT CONDITIONS POSE A THREAT TO THE SURVIVAL OF PLANTINGS.
7. AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.
8. PAYMENT FOR THE WORK OF CONSTRUCTING WETLAND MITIGATION AREAS WILL BE MADE UNDER THE FOLLOWING ITEMS:

   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   EXCAVATION TO PERFORM GRADING WILL BE PAID UNDER ITEM #0202000 - EARTH EXCAVATION.

   FURNISHING, PLACING, MAINTAINING AND REMOVING SEDIMENTATION CONTROL SYSTEMS WILL BE PAID UNDER ITEM #0219001 - SEDIMENTATION CONTROL SYSTEM.

   REMOVAL OF INVASIVE PLANT SPECIES WILL BE PAID UNDER #0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION.

   FORMATION OF SUBGRADE IN WETLAND CREATION SITES, PROVIDING AND PLACING PLANTING SUBSTRATE/TOPSOIL, REUSING AND REPLACING RIPRAP FOR THE LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH, FURNISHING AND PLACING GRANULAR FILL IN RIPRAP VOIDS, AND FINISH GRADING WILL BE PAID UNDER ITEM #0948013A - TIDAL WETLAND CREATION.

8. (CONTINUED)

   FURNISHING, PLACING AND ESTABLISHING SHORELINE GRASS WILL BE PAID UNDER ITEM #0950202A - SHORELINE GRASS ESTABLISHMENT.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS. REPLACEMENT OF PLANTINGS IN MITIGATION AREA 6 SHALL BE INCLUDED IN THIS ITEM.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM#1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

9. MITIGATION AREA 6A, SHADED WETLAND AREA UNDER TRESTLE, AND RESTORED TEMPORARY MARINE ENCLOSURE AREA TO BE COMPLETED LAST, IN COORDINATION WITH THE REMOVAL OF THE WALK BRIDGE CONSTRUCTION TRESTLE. DEAD VEGETATION IN SHADED WETLAND AREA SHALL BE REMOVED AND THE AREA SHALL BE PLANTED WITH SPARTINA PLUGS. CONSTRUCTION ACTIVITIES FOR AREA 6A WILL BE PERFORMED FROM THE NE TRESTLE AS IT GETS REMOVED UPON COMPLETION OF BRIDGE CONSTRUCTION. ACCESS TO AREA 6A AFTER THE CONSTRUCTION TRESTLE IS REMOVED WILL BE ALONG THE EXISTING MULTI-USE TRAIL FROM THE CONSTRUCTION STAGING AREA WITHIN CTDOT RIGHT OF WAY ON THE NORTH SIDE OF THE EAST APROACH TO WALK BRIDGE.

LEGEND:

- SPARTINA ALTERNIFLORA (SMOOTH CORDGRASS)
- LIMONIUM CAROLINIANUM (SEA LAVENDER)
- SHORELINE GRASS ESTABLISHMENT
- OUTER LIMITS OF OYSTER CULTCH
- MITIGATION AREA BOUNDARY
- APPROXIMATE SLOPE LIMITS
- NO RIPRAP REMOVAL
- EXISTING VEGETATION PROTECTION
- MITIGATION AREA 6A

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

DRAWN: V. ROBBINS

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

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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:
ACTIVITY 16 WETLAND MITIGATION (MIT-018)

DATE: **8-28-19**

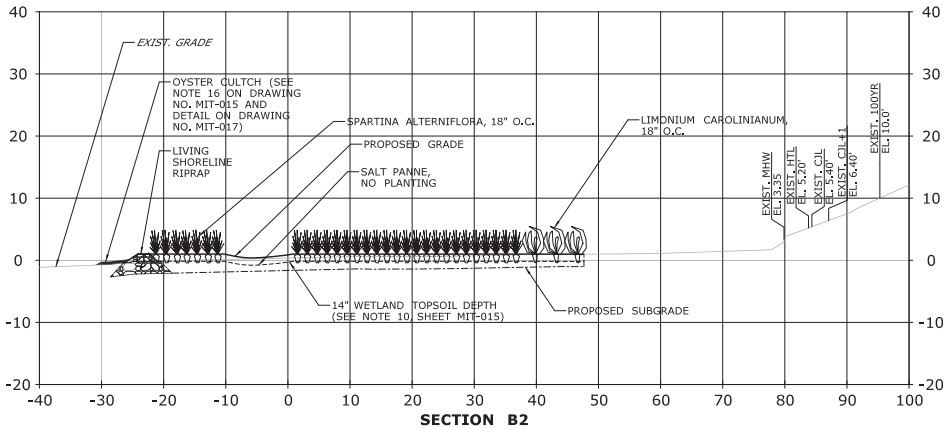
DRAWING NO.: **CA16-18**

NOTES:

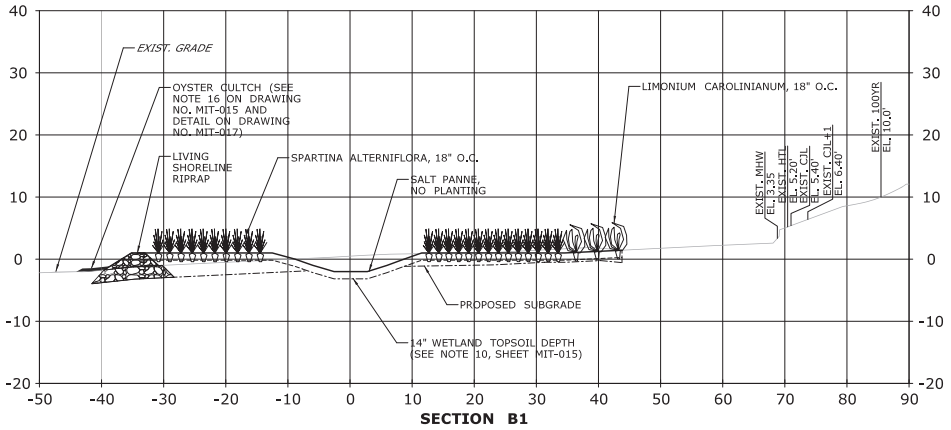
1. SEE MIT-018 MITIGATION AREA 6 PLANTING PLAN
2. SEE GRADING DRAWING (MIT-015) AND SECTIONS (MIT-016 AND MIT-017) FOR OVEREXCAVATION DEPTHS AND LIMITS.

LEGEND:

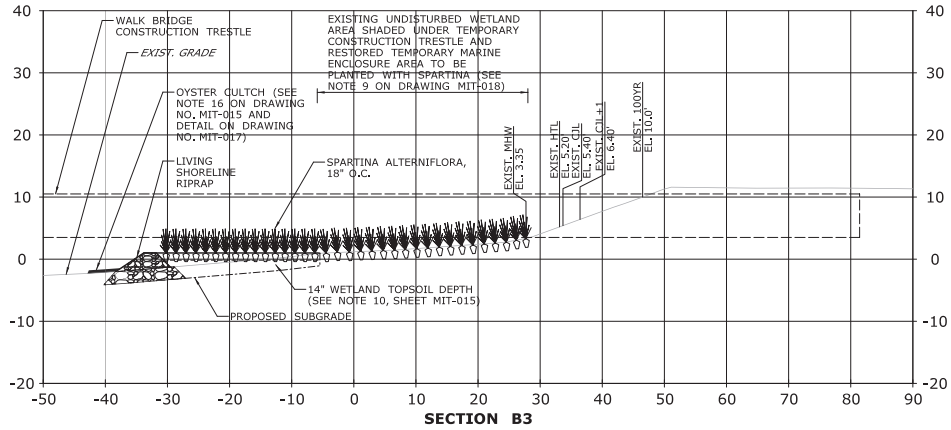
CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COSTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
O.C. = ON CENTER
YR = YEAR



SECTION B2



SECTION B1



SECTION B3

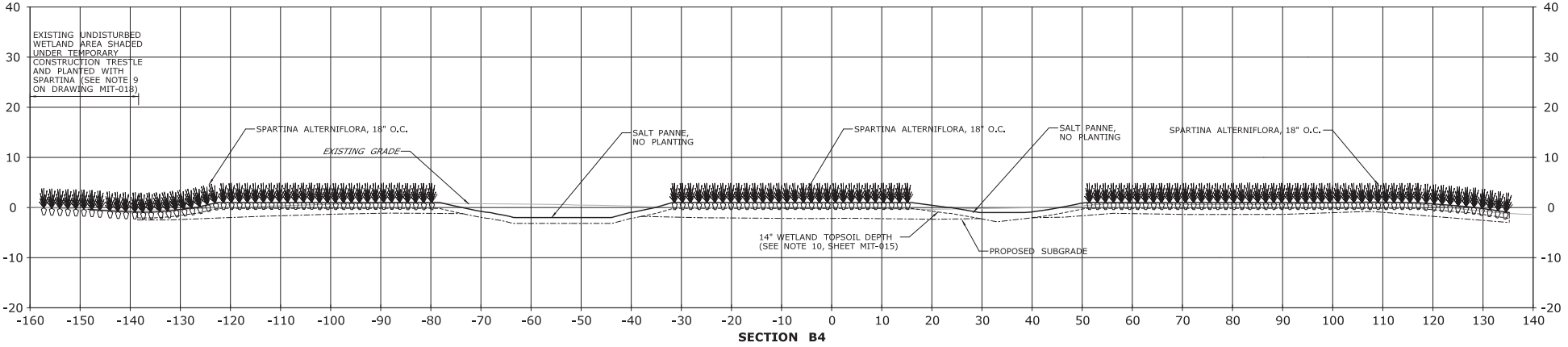
SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-019)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-19

NOTES:

1. SEE MIT-018 MITIGATION AREA 6 PLANTING PLAN
2. SEE GRADING DRAWING (MIT-015) AND SECTIONS (MIT-016 AND MIT-017) FOR OVEREXCAVATION DEPTHS AND LIMITS.

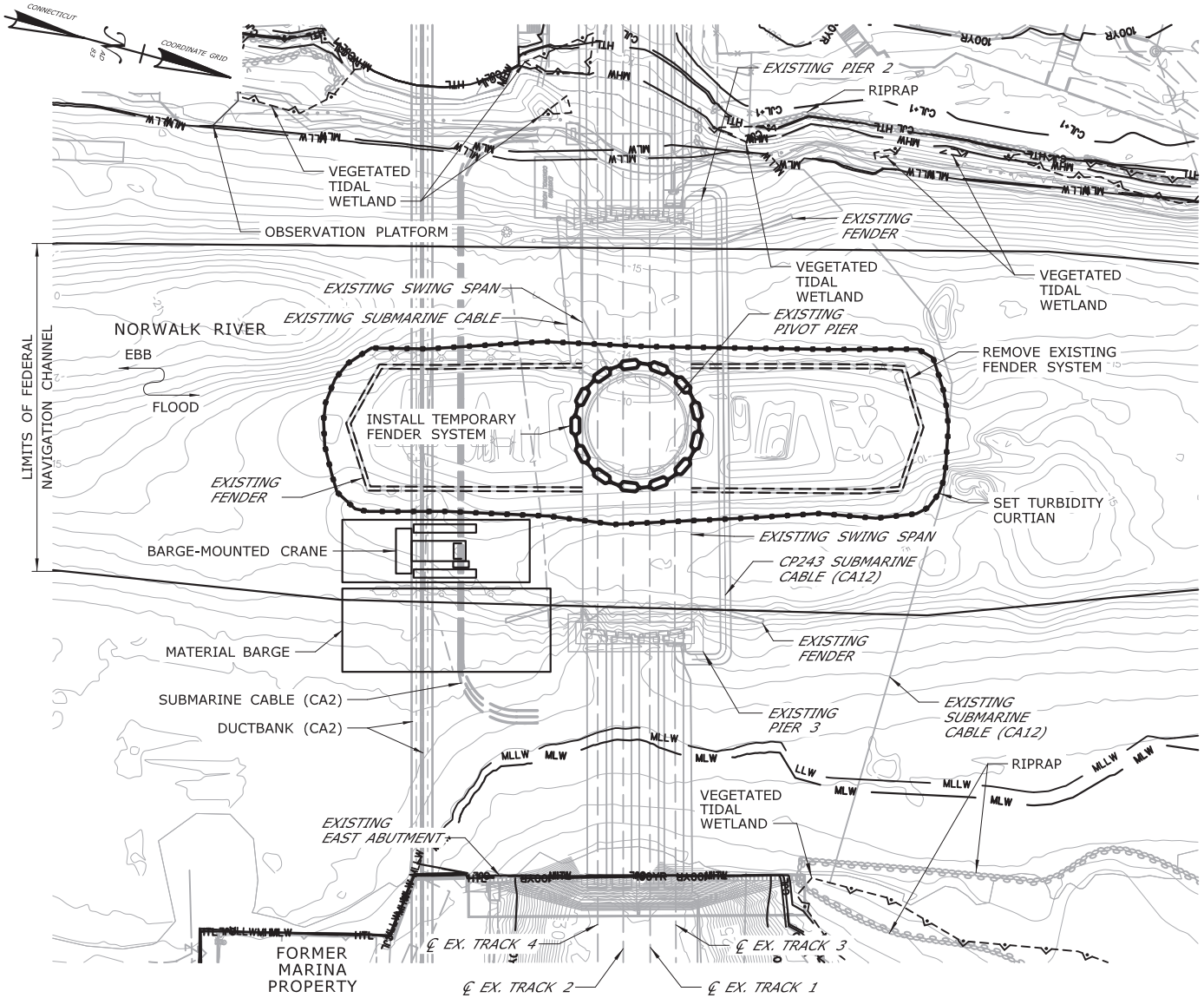
LEGEND:

O.C. = ON CENTER



SECTION B4

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK: HNTB Corporation	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-020)	PROJECT NO.: 0301-0176 DATE: 8-28-19 DRAWING NO.: CA16-20



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER 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	REMOVE EXISTING FENDER SYSTEM. INSTALL TEMPORARY FENDER SYSTEM.
	MOBILIZE BARGES AND EQUIPMENT TO SOUTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON SOUTH SIDE OF BRIDGE.
	MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION NO. 20695 LICENSED PROFESSIONAL ENGINEER

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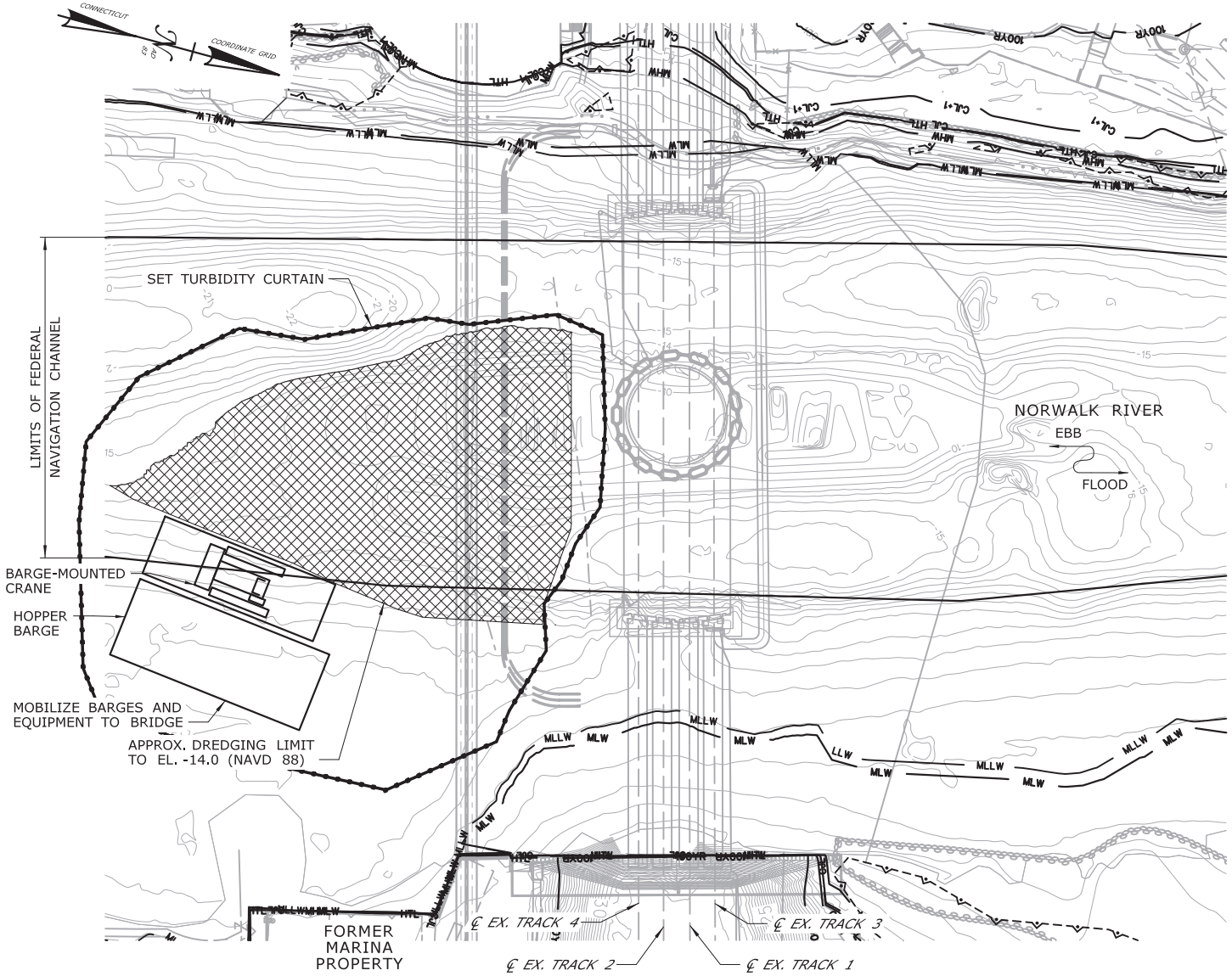
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 1 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA17-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER 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.
	REMOVE EXISTING FENDER SYSTEM. INSTALL TEMPORARY FENDER SYSTEM.
X	MOBILIZE BARGES AND EQUIPMENT TO SOUTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
X	DREDGE CHANNEL ON SOUTH SIDE OF BRIDGE.
	MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

1. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIROMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
2. WEST CHANNEL MAY BE PARTIALLY RESTRICTED FOR A PERIOD OF TIME BUT WILL OTHERWISE REMAIN OPEN DURING THIS WORK. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE 1" = 80' (0 40 80)

DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK: STATE OF CONNECTICUT, GREGORY J. BROWN, NO. 20695, LICENSED PROFESSIONAL ENGINEER

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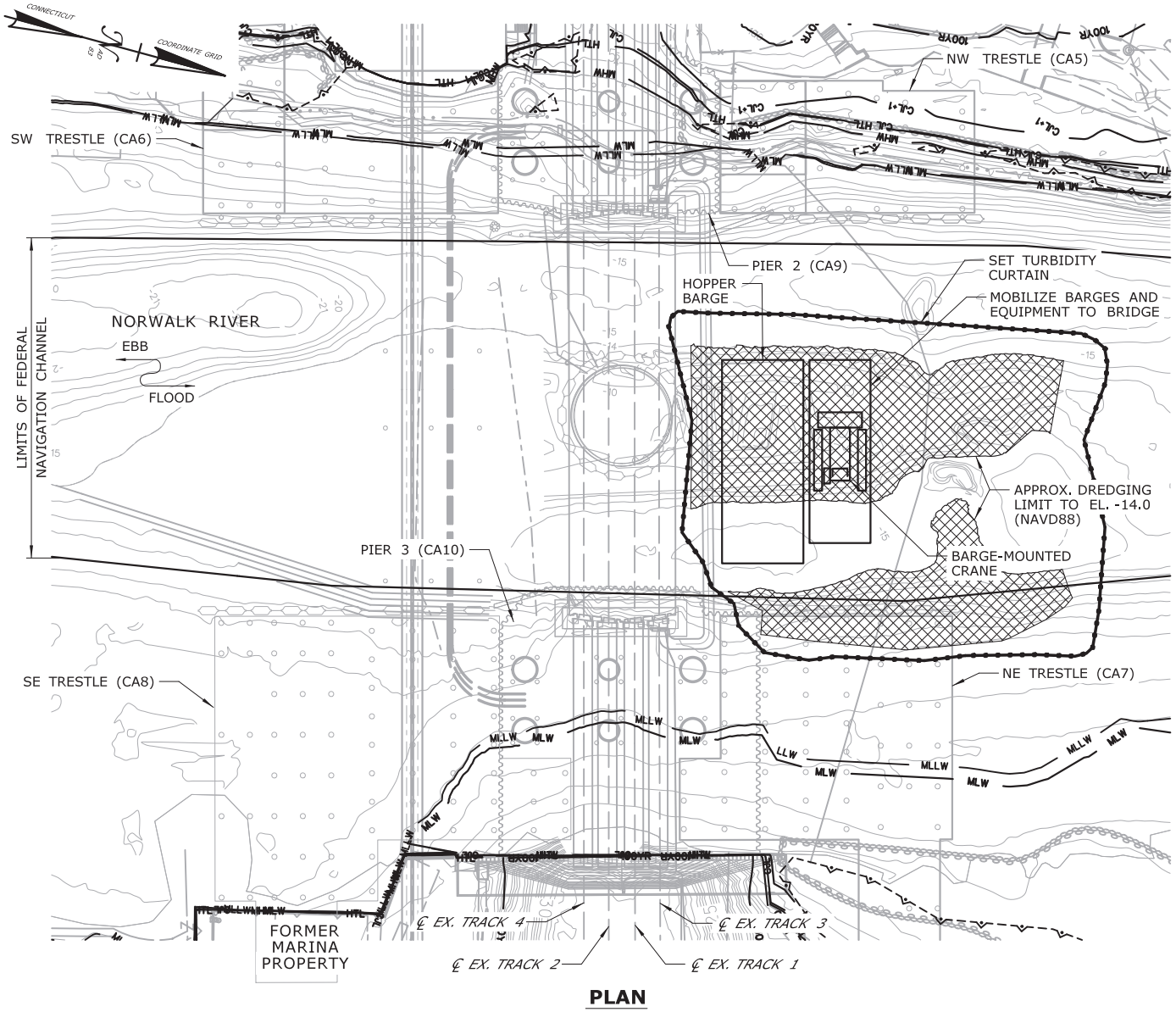
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 2 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA17-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER 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.
	REMOVE EXISTING FENDER SYSTEM. INSTALL TEMPORARY FENDER SYSTEM.
	MOBILIZE BARGES AND EQUIPMENT TO SOUTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON SOUTH SIDE OF BRIDGE.
X	MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
X	DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

1. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIROMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
2. WEST CHANNEL MAY BE PARTIALLY RESTRICTED FOR A PERIOD OF TIME BUT WILL OTHERWISE REMAIN OPEN DURING THIS WORK. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
3. DREDGING REQUIRED AROUND THE EXISTING PIERS WILL TAKE PLACE WITHIN MARINE ENCLOSURES IN CONJUNCTION WITH PIER REMOVAL. SEE ACTIVITY 14.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE 1" = 80' (0 40 80)

DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

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55 Capital Boulevard, 4th Floor
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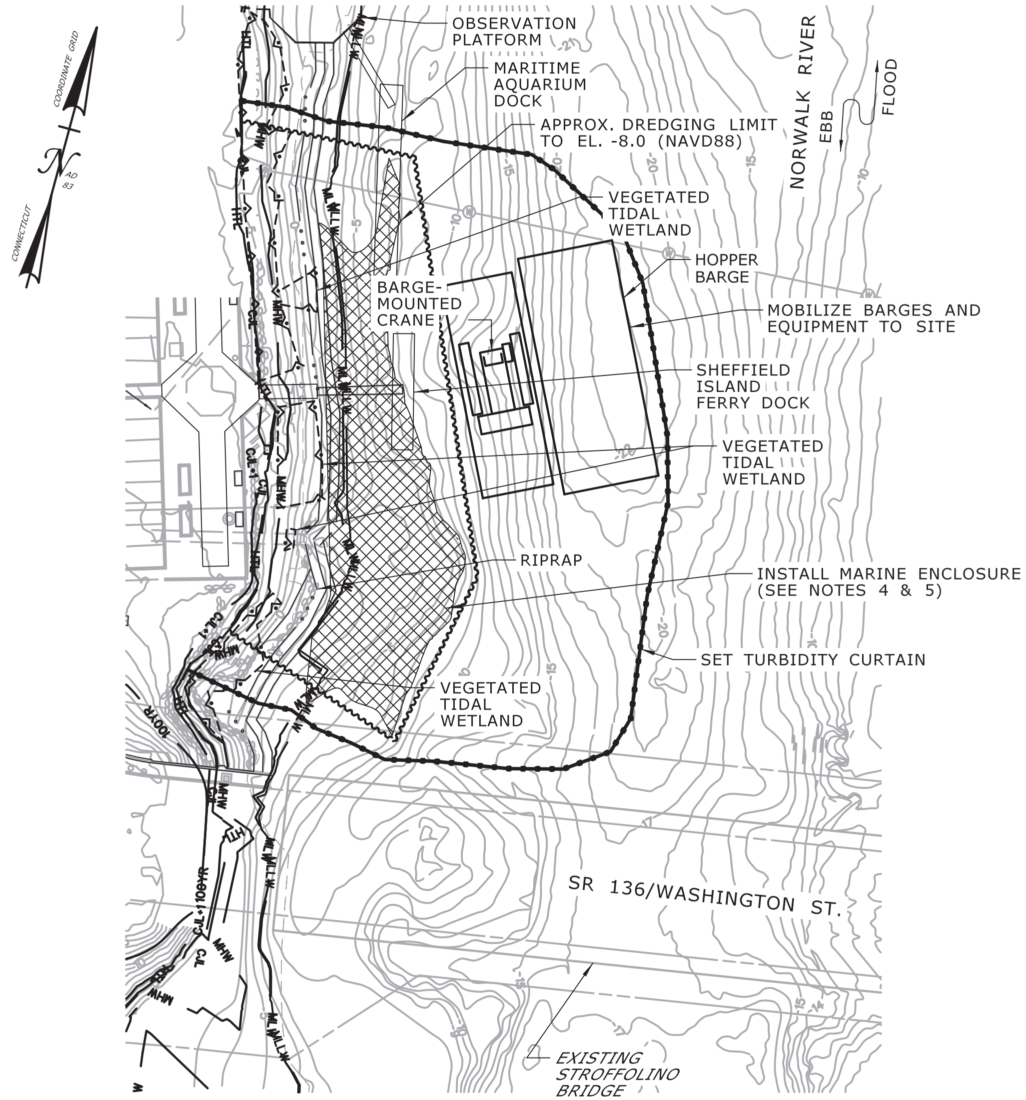
Fax (860) 257-7394

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: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 3 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA17-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER 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	MOBILIZE BARGES AND EQUIPMENT TO VESSEL DOCKS.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	DREDGE ALONG SHORELINE.

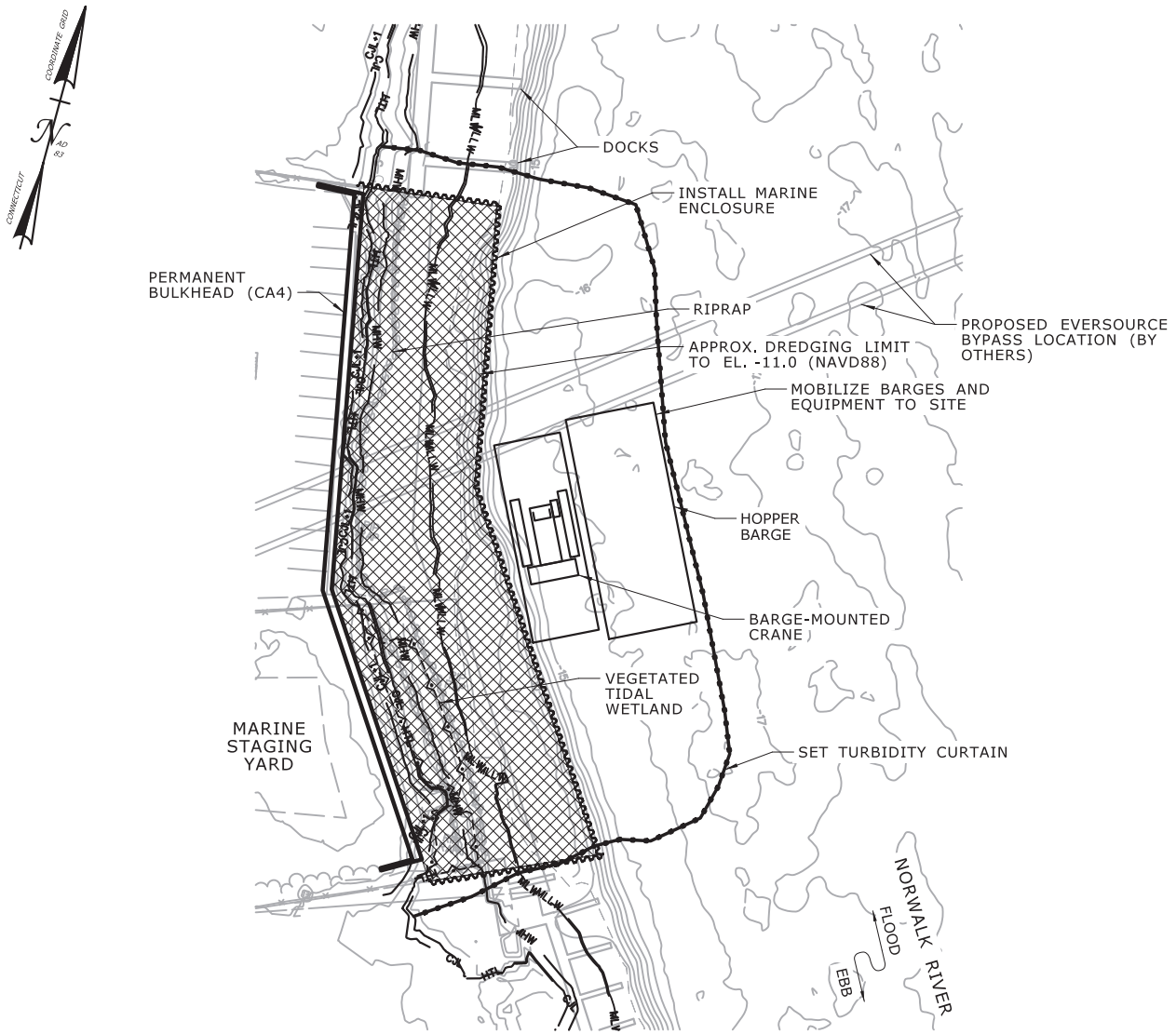
NOTES:

1. EXISTING DOCK LOCATIONS SHOWN FOR REFERENCE. DOCKS WILL BE REMOVED PRIOR TO DREDGING. SEE ACTIVITY 3.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIROMENTAL 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.
4. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
5. DREDGING WILL NOT OCCUR AT THIS LOCATION WHILE THE SHEFFIELD ISLAND FERRY AND MARITIME AQUARIUM DOCK ARE IN USE.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
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

SCALE:	SCALE 1" = 80' (0, 40, 80)
DRAWN:	W. GREGORY
CHECKED:	T. ADINOLFI
APPROVED:	C. BROWN
SIGNATURE BLOCK:	HNTB Corporation, 55 Capital Boulevard, 4th Floor, Rocky Hill, CT 06067, Tel (860) 257-7377, Fax (860) 257-7394; STATE OF CONNECTICUT CHRISTIAN J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER
	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
PROJECT TITLE:	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5
TOWN:	NORWALK
DRAWING TITLE:	ACTIVITY 17 DREDGING OPERATIONS (SHEET 4 OF 7)
PROJECT NO.:	0301-0176
DATE:	8-28-19
DRAWING NO.:	CA17-4



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER 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	MOBILIZE BARGES AND EQUIPMENT TO MARINE STAGING YARD.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	DREDGE ALONG IN FRONT OF BULKHEAD.

NOTES:

1. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIROMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.
2. EXISTING TIMBER PILES, RIPRAP, AND DEBRIS ALONG SHORELINE WILL BE REMOVED PRIOR TO DREDGING. PERMANENT SHEETPILE BULKHEAD WILL BE INSTALLED PRIOR TO DREDGING. SEE ACTIVITY 4.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

ELEVATION TABLE		
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

SCALE: SCALE 1" = 80' (0, 40, 80)

DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 29695, LICENSED PROFESSIONAL ENGINEER

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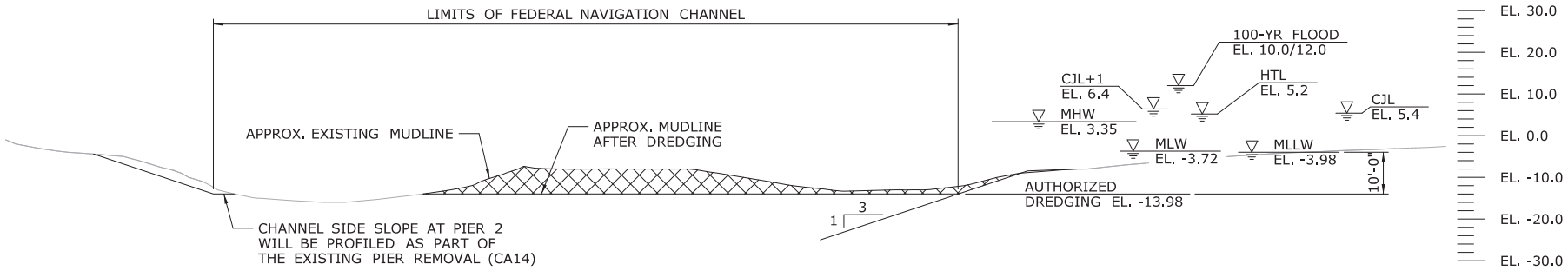
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 5 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA17-5**



TYPICAL SECTION AT BRIDGE

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIROMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

SCALE: SCALE 1" = 40' (0 20 40)

DRAWN: W. GREGORY

CHECKED: T. ADFINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK: STATE OF CONNECTICUT, CHRISTOPHER J. BROWN, NO. 29695, LICENSED PROFESSIONAL ENGINEER

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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

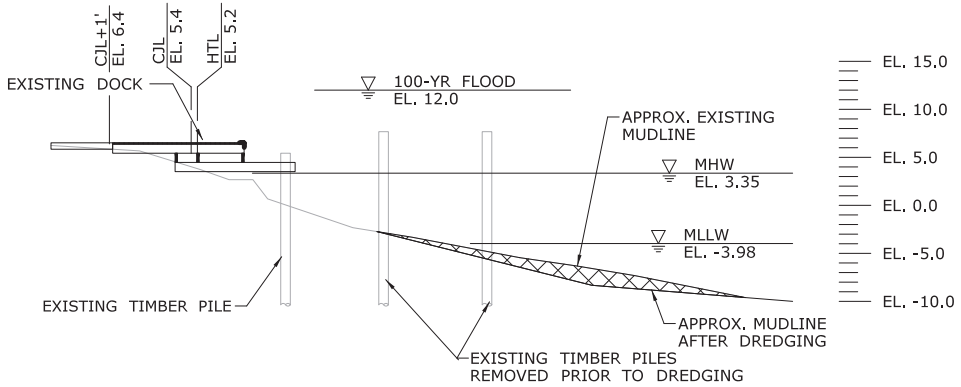
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

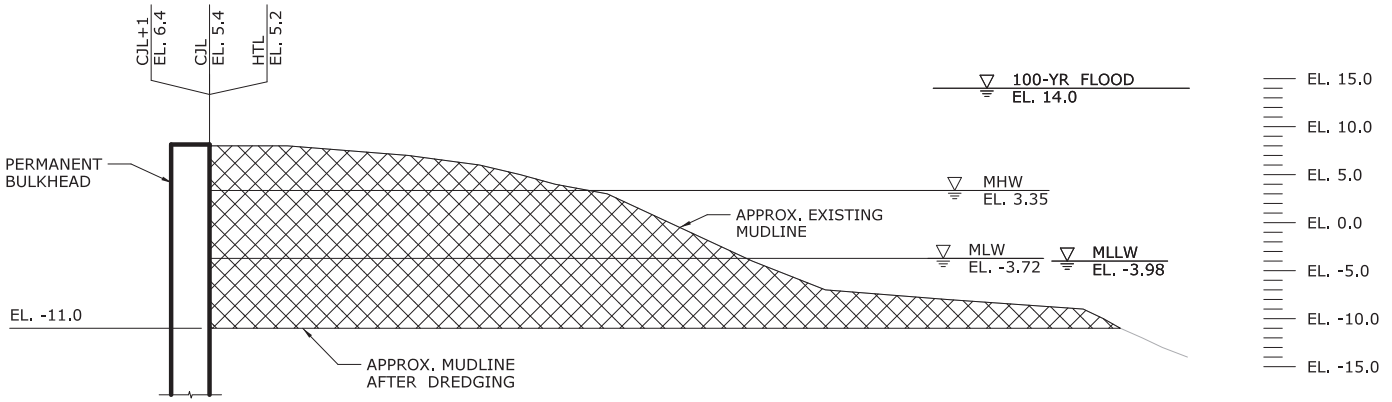
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 6 OF 7)**

DATE: **8-28-19**

DRAWING NO.: **CA17-6**



TYPICAL SECTION AT VESSEL DOCKS



TYPICAL SECTION AT MARINE STAGING YARD

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS DISCHARGED TO SURFACE WATER SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIROMENTAL SPECIAL PROVISIONS AND THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF GROUNDWATER REMEDIATION WASTEWATER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0
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

SCALE: SCALE 1" = 20' (0, 10, 20)

DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

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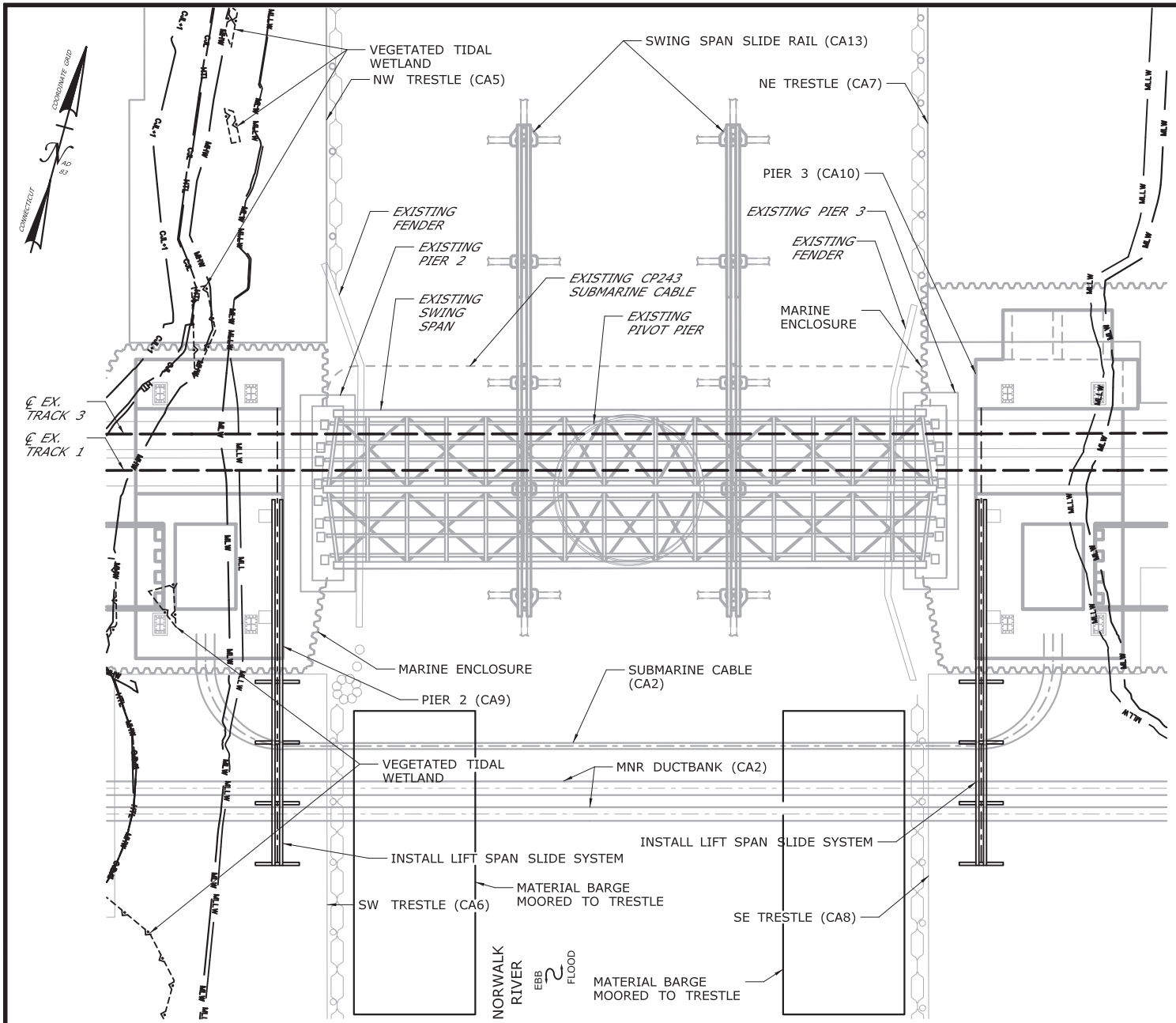
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 7 OF 7)**
DATE: **8-28-19**
DRAWING NO.: **CA17-7**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS 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	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. THE SOUTH LIFT SPAN WILL BE FULLY ASSEMBLED ON THE LIFT SPAN ASSEMBLY BARGE AT THE MARINE STAGING YARD AND READY FOR TRANSPORT.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS.
4. LIFT SPAN SLIDE SYSTEMS WILL BE ERECTED FROM THE TRESTLES AND WILL BE SUPPORTED ON THE TRESTLES AND LIFT SPAN PIERS.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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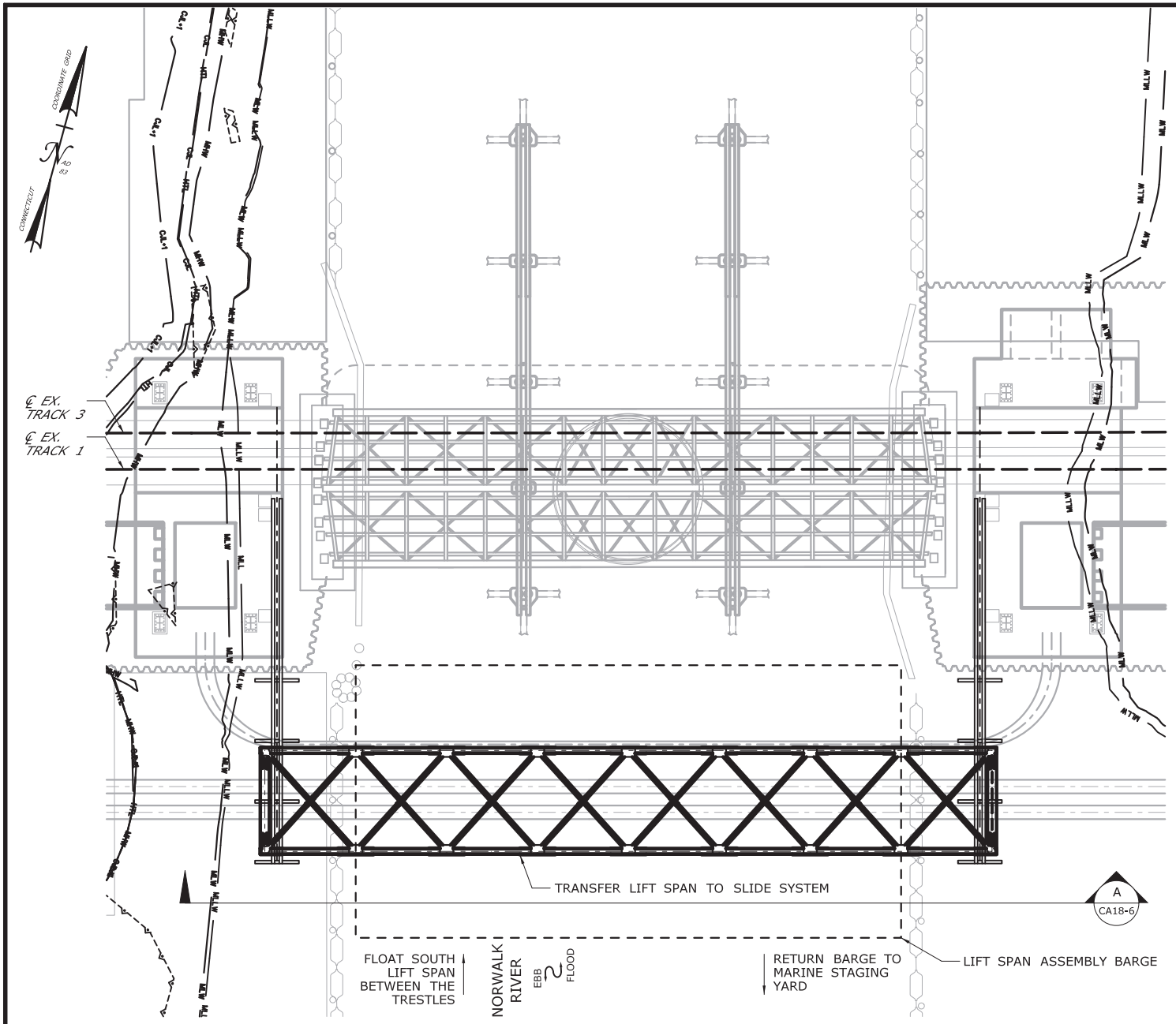
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (1 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA18-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS 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
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
X	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
X	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANEL.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. PRIOR TO SLIDING INTO PLACE, THE LIFT SPAN WILL BE OUTFITTED WITH ALL STRUCTURAL, TRACK AND OCS ELEMENTS THAT CAN BE INSTALLED WITHOUT OBSTRUCTING THE INSTALLATION.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT GORDON J. BROWN NO. 20695 LICENSED PROFESSIONAL ENGINEER

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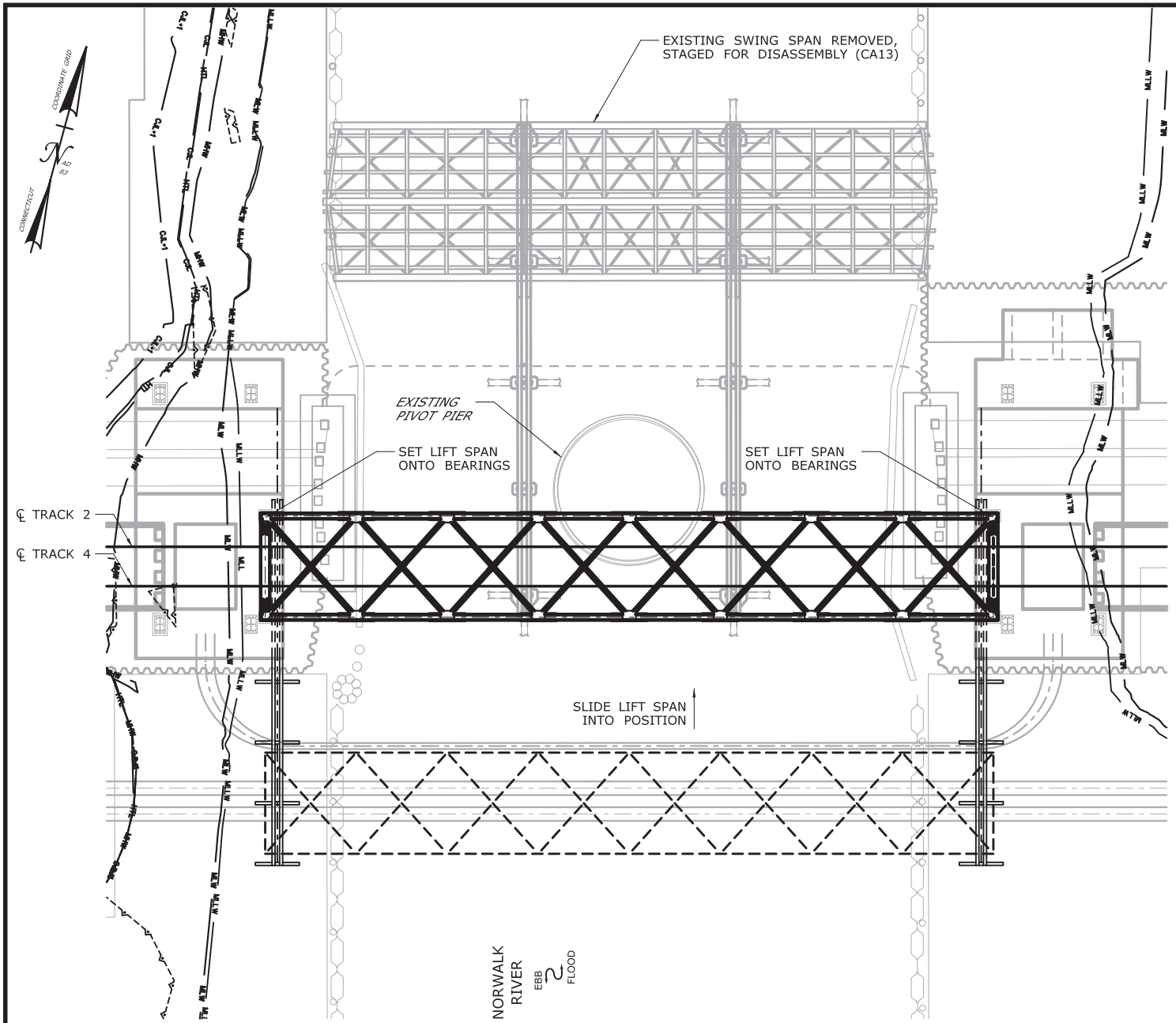
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (2 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA18-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS 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
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
X	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
X	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. WORK DEPICTED ON THIS SHEET WILL BE PERFORMED DURING A SHORT-DURATION FOUR-TRACK OUTAGE.
2. POST-INSTALLATION STRUCTURAL, TRACK, OCS AND RAIL SYSTEMS WORK REQUIRED TO RESUME TRAIN SERVICE WILL BE PERFORMED WITHIN THE FOUR-TRACK OUTAGE.
3. THE SOUTH LIFT SPAN IS NOT ANTICIPATED TO BE OPERATIONAL AS A MOVABLE SPAN WHEN TRAIN TRAFFIC RESUMES ON TRACKS 2 AND 4.
4. THE CHANNEL WILL REMAIN CLOSED TO NAVIGATION FOLLOWING THIS WORK AS SWING SPAN REMOVAL (ACTIVITY 13) CONTINUES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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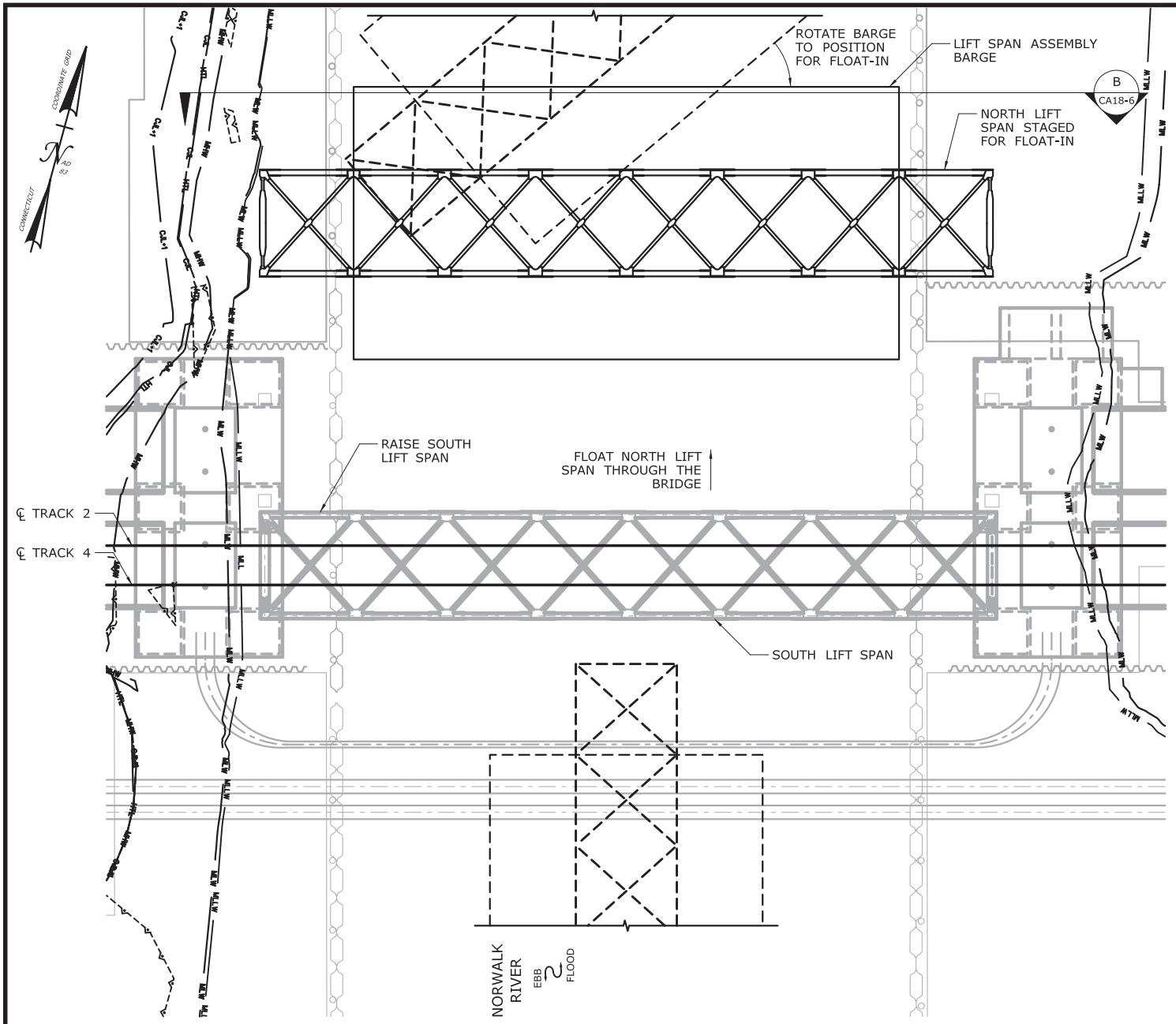
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (3 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA18-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS 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
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
X	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
X	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. BARGE WILL BE MOORED TO MOORING PILES AT THE TRESTLES.
3. PRIOR TO FLOATING INTO POSITION, THE LIFT SPAN WILL BE OUTFITTED WITH ALL STRUCTURAL, TRACK AND OCS ELEMENTS THAT CAN BE INSTALLED WITHOUT OBSTRUCTING THE INSTALLATION.
4. BARGE MOVEMENT THROUGH THE BRIDGE WILL BE COORDINATED WITH THE TIDE TO ENSURE ADEQUATE CLEARANCE BENEATH THE SOUTH LIFT SPAN IN THE OPEN POSITION.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
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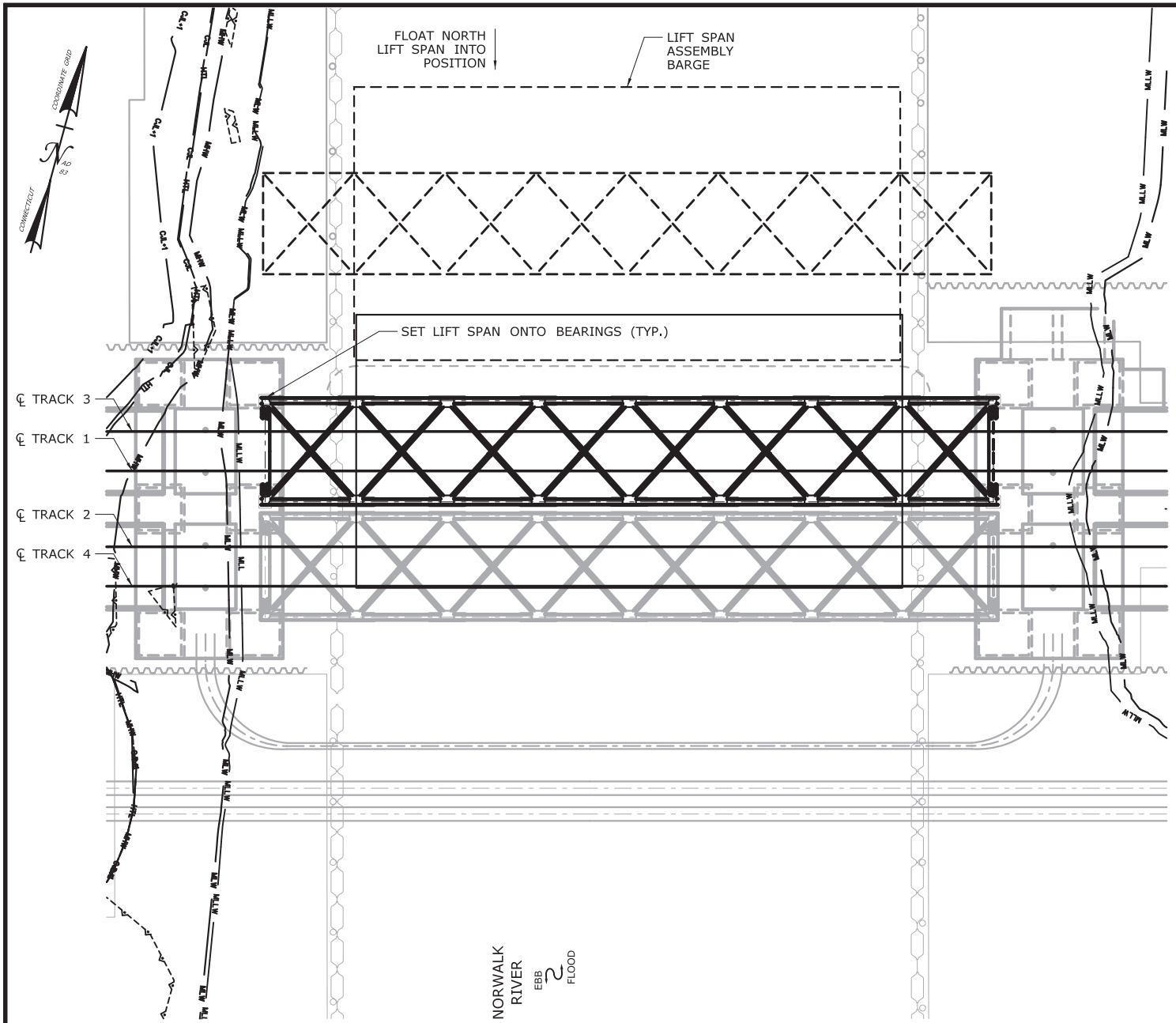
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (4 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA18-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS 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
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
X	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
X	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. FLOAT-IN INSTALLATION WILL BE PERFORMED DURING SLACK TIDE.
3. POST-INSTALLATION WORK PRIOR TO RESUMING TRAIN SERVICE ON TRACKS 1 AND 3 WILL INCLUDE ALL STRUCTURAL, MECHANICAL, ELECTRICAL, TRACK, OCS AND RAIL SYSTEMS WORK REQUIRED FOR BOTH SPANS TO BE FULLY OPERATIONAL AS A MOVABLE RAILROAD BRIDGE.
4. THE LIFT SPAN ASSEMBLY BARGE WILL BE REMOVED FROM THE SITE FOLLOWING NORTH LIFT SPAN INSTALLATION.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
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

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

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

SIGNATURE BLOCK:
STATE OF CONNECTICUT · CHRISTOPHER J. BROWN · NO. 29695 · LICENSED PROFESSIONAL ENGINEER

HNTB
HNTB Corporation
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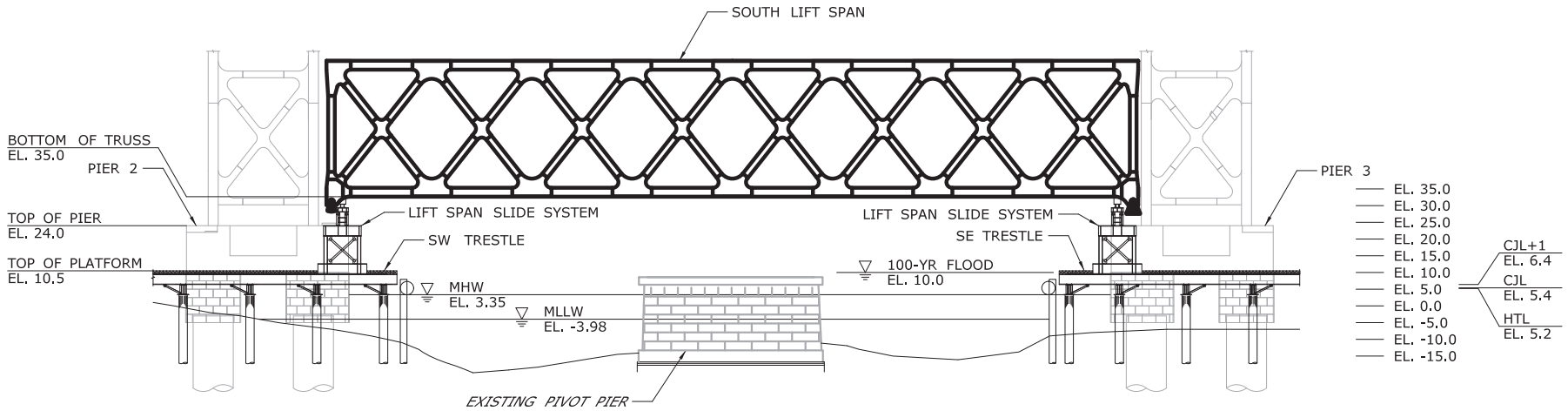
Rocky Hill, CT 06067
Tel (860) 257-7377
Fax (860) 257-7394

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

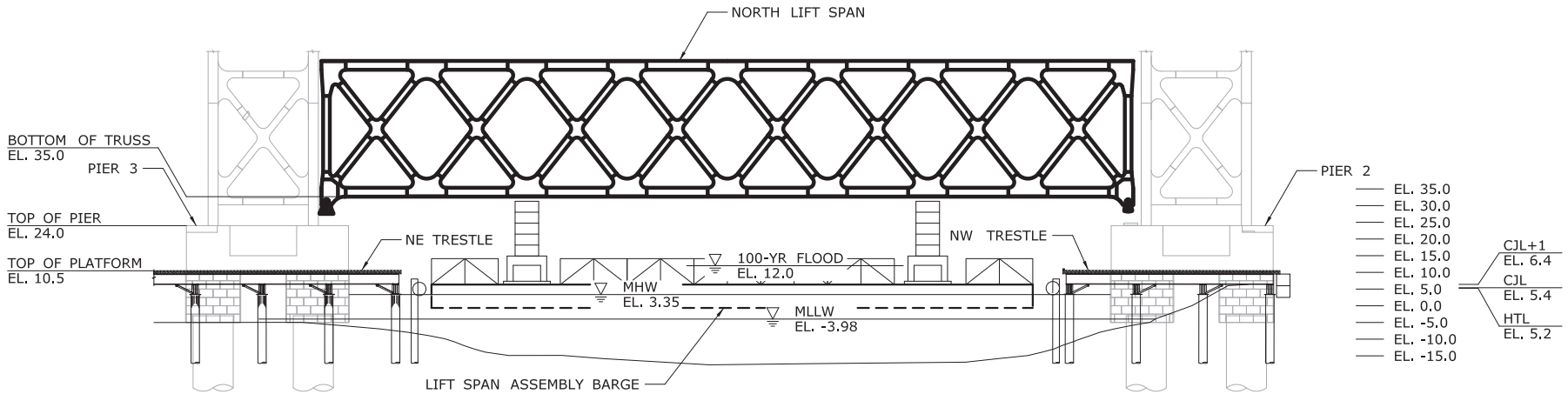
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (5 OF 6)**
DATE: **8-28-19**
DRAWING NO.: **CA18-5**



VIEW A CA18-2

(EXISTING SWING SPAN AND SLIDE RAILS NOT SHOWN FOR CLARITY)



VIEW B CA18-4

NOTES:

1. VERTICAL DATUM IS NAVD 88.
2. 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	CJL+1	6.4
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MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

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

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

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TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (6 OF 6)**

DATE: **8-28-19**

DRAWING NO.: **CA18-6**