



**US Army Corps  
of Engineers**®  
New England District  
696 Virginia Road  
Concord, MA 01742-2751

# PUBLIC NOTICE

**Comment Period Begins: June 2, 2020**

**Comment Period Ends: July 2, 2020**

**File Number: NAE-2015-02009**

**In Reply Refer To: Ruth Brien**

**Phone: (978) 318-8054**

**E-mail: [ruthann.a.brien@usace.army.mil](mailto:ruthann.a.brien@usace.army.mil)**

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The District Engineer has received a permit application to conduct work in waters of the United States from The City of Boston Public Works Department, Boston City Hall, 1 City Hall Square, Boston, MA. This work is proposed in Fort Point Channel on the Northern Avenue Bridge in Boston, Massachusetts. The site coordinates are: Latitude 42.354484, Longitude -71.049435.

The proposed work will involve the removal of the existing deteriorated swing bridge and the installation of a stationary replacement bridge with a promenade. The Corps will evaluate the bridge removal activities under Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act; and discharge of fill material associated with the bridge replacement work under the authority of Section 404 of the Clean Water Act. The United States Coast Guard (USCG) will have primary authority for overseeing the construction of the new bridge over a navigable water. The proposed work will include the removal of the bridge structure and three supporting piers down to 2 feet below the mudline, removal of the existing Bridge Tender's House north of the bridge, removal down to 2 feet below the mudline of the approximately 300 existing wooden pilings that support the current bridge in its open position and the Bridge Tender's House. The replacement work will involve the installation of six new piers to support the new bridge structure and the installation of approximately 130 14" diameter steel pipes to support the promenade and new fender system.

The existing Northern Avenue Bridge provided vehicular access across Fort Point Channel until 1997 when it was no longer deemed safe. The adjacent Evelyn Moakley bridge was built in the 1990's to handle this vehicular traffic. The Northern Avenue Bridge was then used as a pedestrian bridge until the structure became too dilapidated and was closed to pedestrians in 2014. Since then it has been left in the open position. The primary purpose of the proposed replacement bridge with promenade will be to provide pedestrian and bicycle access and enjoyment of the waterfront but it will also allow for potential bus transit access.

The new proposed bridge will have a travel width of 40-feet as it enters Fort Point Channel from the west, and will gradually divide into two separate travel lanes measuring 24 feet wide each, which separate in the middle and then will join back together again at the eastern extent of the promenade. Walkways down to the promenade will be located at the points where the travel lanes separate. The promenade will be 432 feet long and 80 feet wide. The new bridge design will be reminiscent of aspects of the existing historic bridge by utilizing roof elements that evoke the shape and elevational profile of the existing bridge truss and by using some pieces from the existing bridge in the new bridge design. It will be higher over the primary navigational crossing to allow for a fixed bridge and for climate resiliency.

The existing superstructure will be removed via barge-mounted cranes, loaded onto barges in sections, and then taken to Dry Dock 4 located at 290R Northern Avenue in Boston where the superstructure will be dis-assembled and de-leaded. The Bridge Tender's House will also be demolished at this time. Steel sheeting cofferdams will then be installed around the existing bridge piers to facilitate their demolition and around the locations of the proposed new piers. A cofferdam system will also be installed along the eastern and western seawall to facilitate the reconstruction of the abutments. Installation of the new piers will require foundation excavation, installation of approximately 160 18" diameter steel pipes, and the pouring of concrete. Demolition of the old piers will require excavation down to 2 feet below the mudline and then backfilling with clean, suitable material. Up to 2,407 cubic yards of material will be excavated over 38,741 square feet of subtidal bottom to perform the work. This material will be taken to Dry Dock 4 to be dewatered and then disposed of at an approved facility.

The work is shown on the enclosed plans entitled "CITY OF BOSTON PUBLIC WORKS DEPARTMENT PLANS FOR ENVIRONMENTAL PERMITTING NORTHERN AVENUE BRIDGE REPLACEMENT PROJECT," on 28 sheets, and dated "MAY 18, 2020."

#### **AUTHORITY**

Permits are required pursuant to:

- Section 10 of the Rivers and Harbors Act of 1899
- Section 404 of the Clean Water Act
- Section 103 of the Marine Protection, Research and Sanctuaries Act.
- Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408)

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers, New England District (Corps), is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The Corps will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are

also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

The activities proposed herein may also require permission from the Corps pursuant to 33 U.S.C. 408 because they will alter or temporarily or permanently occupy or use a Corps federally authorized Civil Works project known as Fort Point Channel, Boston, MA. Section 408 allows the Corps to grant permission for the alteration, occupation, or use of a USACE civil works project if it is determined that the activity will not be injurious to the public interest and will not impair the usefulness of the Federal project. A decision on a Section 408 request is a Federal action, and therefore subject to NEPA and other environmental compliance requirements. The proposed alteration involves the removal and replacement of the Northern Avenue Bridge. The proposed alteration is located in Fort Point Channel, Boston Inner Harbor, Boston, MA. A permit pursuant to Section 10/404/103 shall not be granted until the Section 408 permission is issued. Through this public notice we are soliciting information necessary to inform the Corps evaluation and review. The point of contact for Section 408 issues for this project is Mark Cutter, who can be reached by phone at 978-318-8776 or by email at [mark.e.cutter@usace.army.mil](mailto:mark.e.cutter@usace.army.mil)

## **ESSENTIAL FISH HABITAT**

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). Essential Fish Habitat describes waters and substrate necessary for fish for spawning, breeding, feeding or growth to maturity.

The dredging/excavation portion of this project will temporarily impact approximately 38,741\_SF of EFH. Loss of this habitat may adversely affect species that use these waters and substrate. However the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

This project will permanently impact 2,488 SF of EFH. However, the removal of the existing bridge piers and 300 wooden pilings will result in the restoration of 3,913 SF of EFH. This habitat consists of sand and silt. Therefore the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

## **NATIONAL HISTORIC PRESERVATION ACT**

Based on his initial review, the District Engineer has determined that the proposed work will impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

## **ENDANGERED SPECIES CONSULTATION**

The Corps has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. We are coordinating with the National Marine Fisheries Service and/or U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

## **OTHER GOVERNMENT AUTHORIZATIONS**

The states of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved Coastal Zone Management Programs. Where applicable, the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, license or assent from State.
- (X) Permit from local wetland agency or conservation commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.
- (X) Permit from the USCG under Section 9 of the Rivers and Harbors Act of 1899

## **COMMENTS**

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Ruth Brien at (978) 318-8054, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will

**CENAE-R**  
**FILE NO. NAE-2015-02009**

be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**

Tammy R. Turley  
Chief, Regulatory Division

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at [bettina.m.chaisson@usace.army.mil](mailto:bettina.m.chaisson@usace.army.mil). You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
PHONE: \_\_\_\_\_

# CITY OF BOSTON

## PUBLIC WORKS DEPARTMENT

### PLANS FOR ENVIRONMENTAL PERMITTING

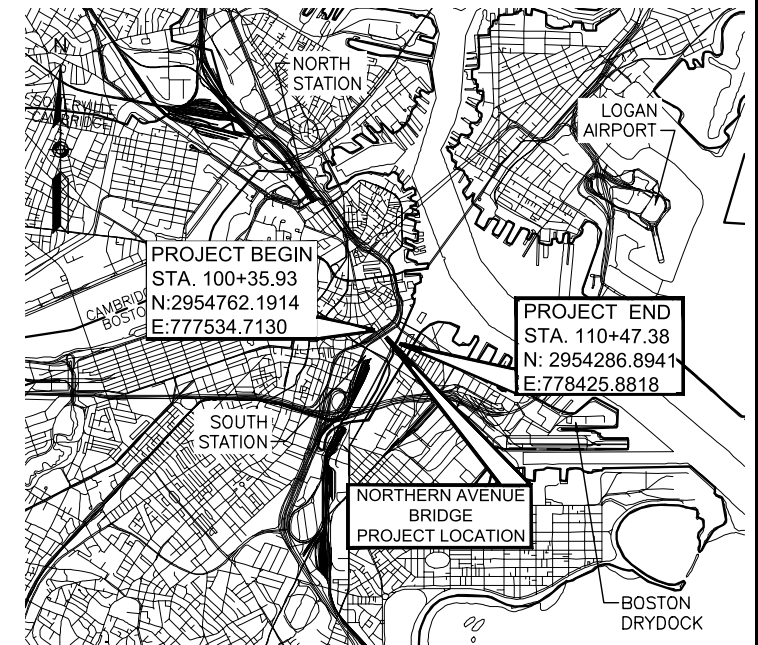
## NORTHERN AVENUE BRIDGE REPLACEMENT PROJECT

### MAY 18, 2020

CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	30

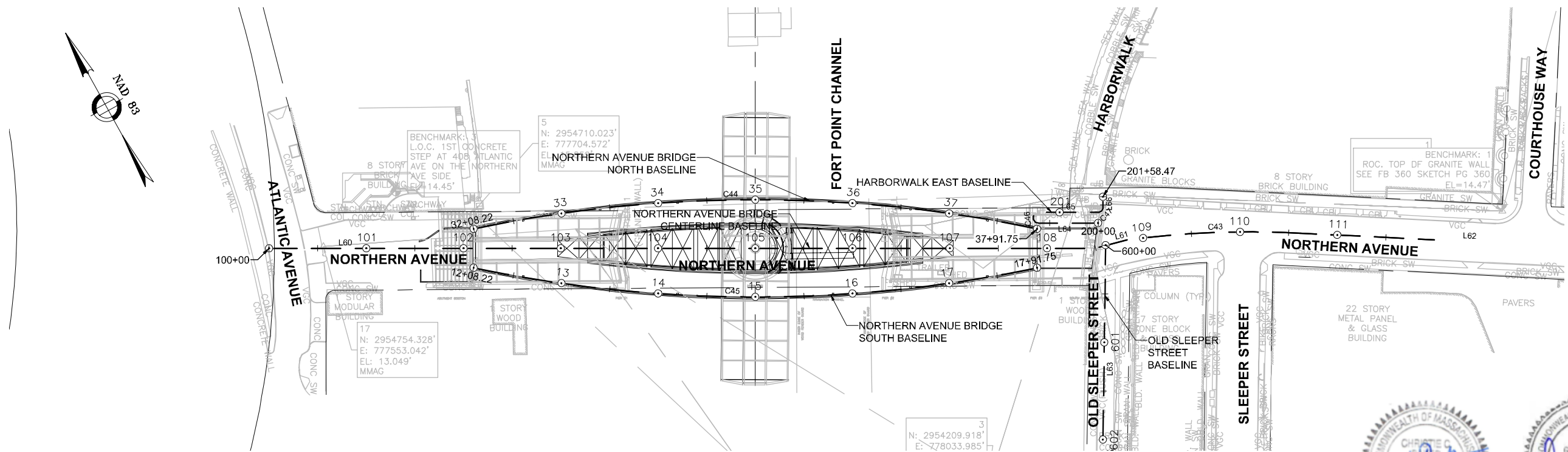
PROJECT FILE NO. 60560339  
TITLE SHEET AND INDEX



**LOCUS**  
SCALE: 1"=1000'

**INDEX**

SHEET NO.	DESCRIPTION
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17	CONSTRUCTION DETAILS
18-30	BRIDGE PLANS



**KEY PLAN**  
SCALE: 1" = 120'-0"  
0 120 200 400 600  
SCALE: 1" = 120'



GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		SEDIMENT CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL	DESCRIPTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	2	30

PROJECT FILE NO. 60560339

LEGENDS AND ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL	DESCRIPTION
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRaised HAND
FDW	FLASHING UPRaised HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

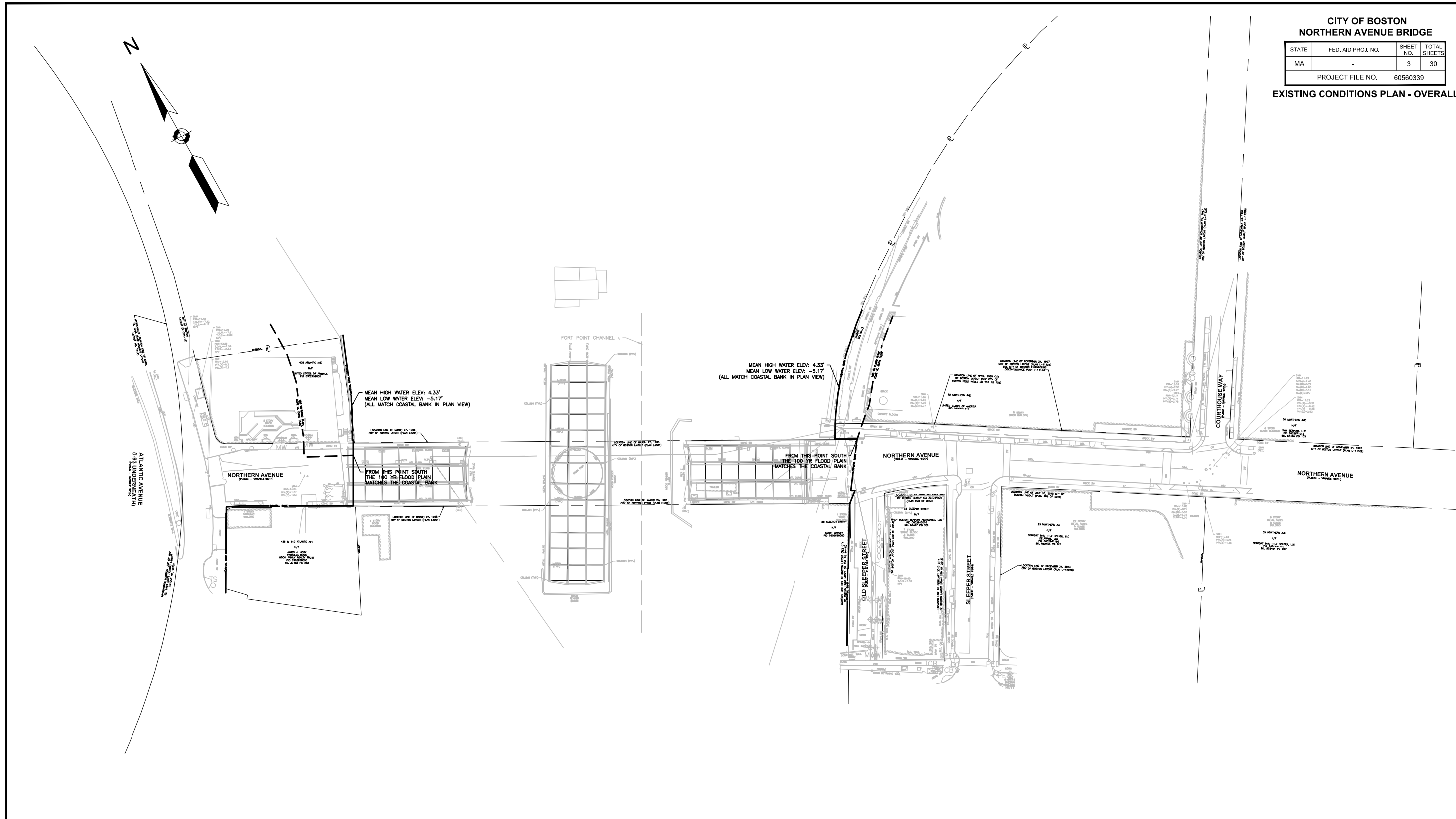


CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	3	30

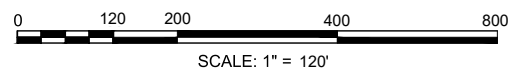
PROJECT FILE NO. 60560339

EXISTING CONDITIONS PLAN - OVERALL

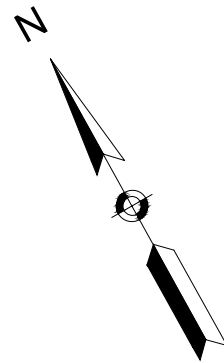


**RESOURCE AREA LEGEND**

- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
- 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





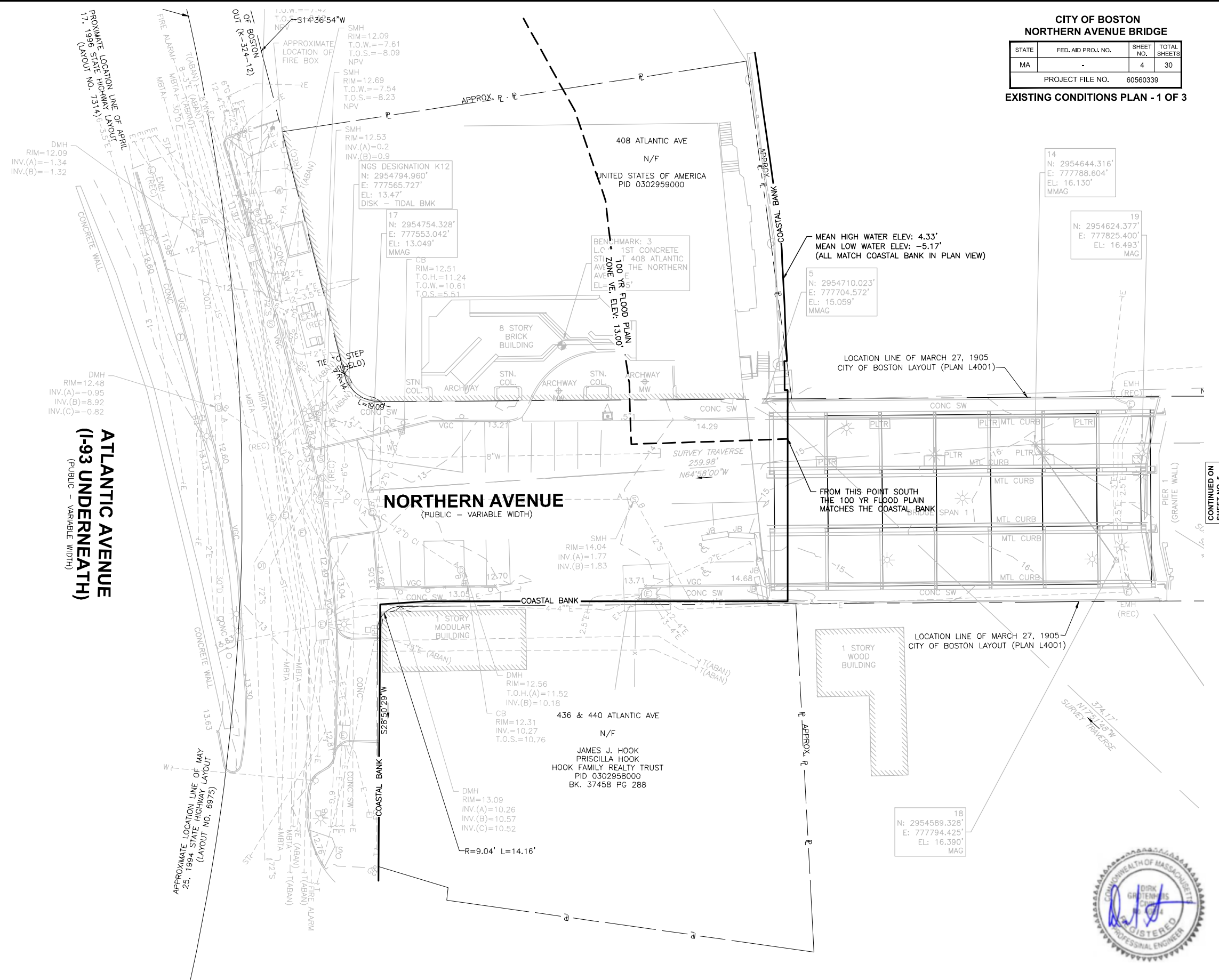


**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	4	30

PROJECT FILE NO. 60560339

**EXISTING CONDITIONS PLAN - 1 OF 3**



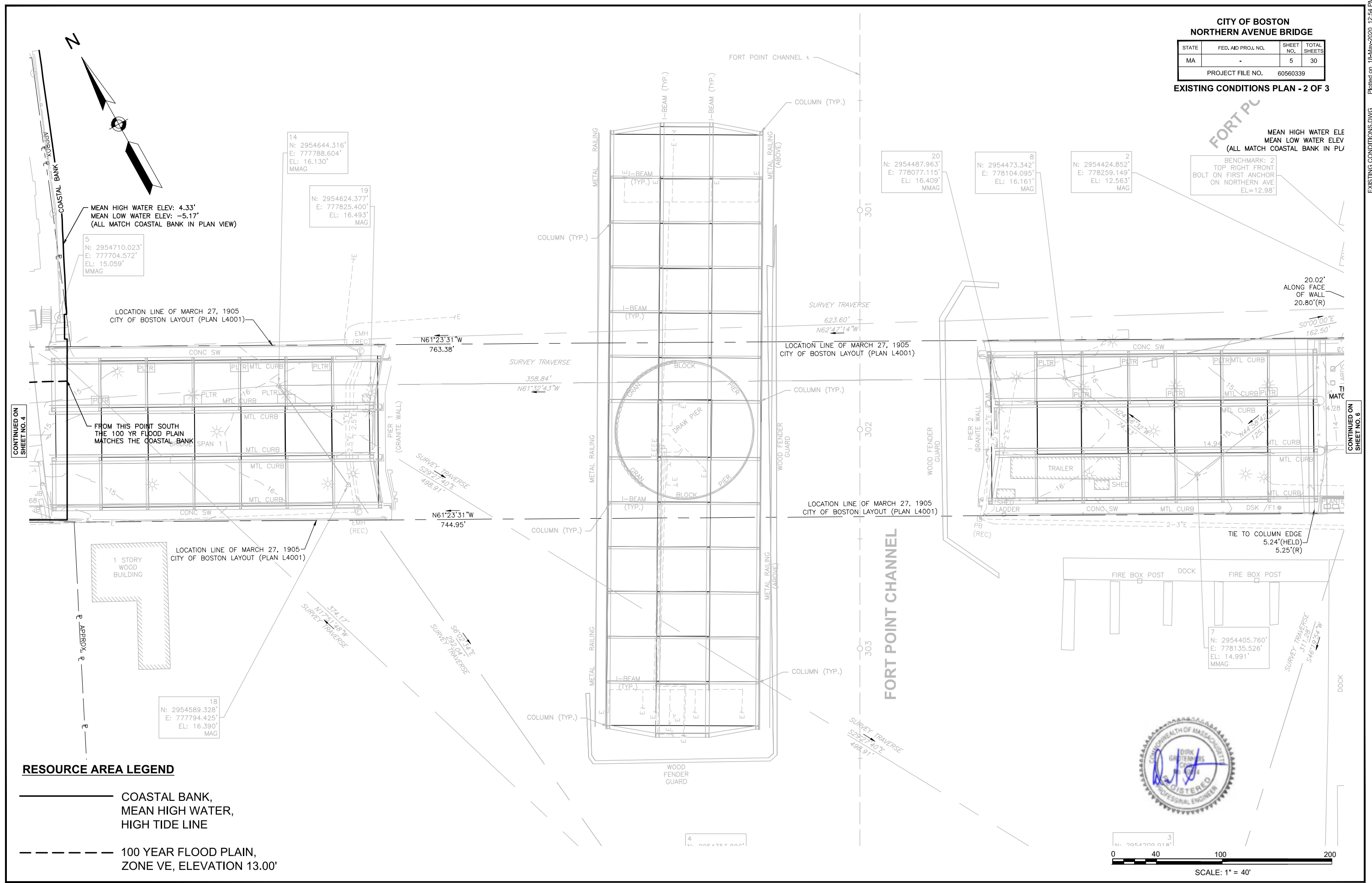
**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	5	30

PROJECT FILE NO. 60560339

**EXISTING CONDITIONS PLAN - 2 OF 3**

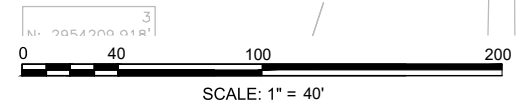
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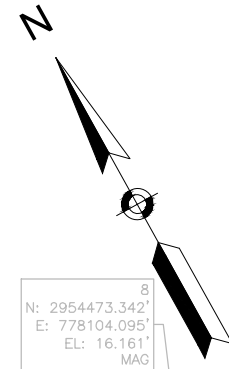


CONTINUED ON SHEET NO. 4

CONTINUED ON SHEET NO. 6

- RESOURCE AREA LEGEND**
- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
  - 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





**FORT POINT CHANNEL**

MEAN HIGH WATER ELEV: 4.33'  
MEAN LOW WATER ELEV: -5.17'  
(ALL MATCH COASTAL BANK IN PLAN VIEW)

8  
N: 2954473.342'  
E: 778104.095'  
EL: 16.161'  
MAG

2  
N: 2954424.852'  
E: 778259.149'  
EL: 12.563'  
MAG

BENCHMARK: 2  
TOP RIGHT FRONT  
BOLT ON FIRST ANCHOR  
ON NORTHERN AVE  
EL=12.98'

LOCATION LINE OF APRIL, 1929 CITY  
OF BOSTON LAYOUT (SEE CITY OF  
BOSTON FIELD NOTES BK 757 PG 129)

10  
N: 2954322.638'  
E: 778426.831'  
EL: 11.890'

21st BR.  
10.76' BK.(HELD)

BENCHMARK: 1  
ROC. TOP OF GRANITE WALL  
SEE FB 360 SKETCH PG 360  
EL=14.47'

21st BR.  
10.66'  
10.69'(R)

1  
N: 2954198.153'  
E: 778631.046'  
EL: 12.155'  
MMAG

CB  
RIM=11.09  
INV.=8.26  
T.O.S.=8.49

DMH  
RIM=11.11  
INV.(A)=6.87  
INV.(B)=6.97

CB  
RIM=10.99  
INV.(A)=7.41  
INV.(B)=7.93

DMH  
RIM=11.15  
INV.(A)=6.75  
INV.(B)=6.95

CB  
RIM=11.03  
NPV  
FULL OF DEBRIS

12 NORTHERN AVE  
N/F  
UNITED STATES OF AMERICA  
PID 0602671010

LOCATION LINE OF NOVEMBER 24, 1997  
CITY OF BOSTON LAYOUT (PLAN L-11328)  
SEE CITY OF BOSTON ENGINEERING  
DISCONTINUANCE PLAN L-11473

**NORTHERN AVENUE**  
(PUBLIC - VARIABLE WIDTH)

R=397.00' L=79.95'

LOCATION LINE OF FEBRUARY 2013 CITY  
OF BOSTON LAYOUT SEE ALTERATION  
(PLAN 229 OF 2013)

LOCATION LINE OF JULY 30, 2015 CITY OF  
BOSTON LAYOUT (PLAN 406 OF 2016)

HHP BOSTON SEAPORT ASSOCIATES, LLC  
PID 0602640010  
BK. 56467 PG 306 6"W (ABAN.)

23 NORTHERN AVE  
N/F  
SEAPORT B/C TITLE HOLDER, LLC  
DELAWARE, LLC  
PID 0602641150  
BK. 552454 PG 207

**OLD SLEEPER STREET**  
(PUBLIC - 41.5 FEET WIDE)

**SLEEPER STREET**  
(PUBLIC - VARIABLE WIDTH)

DMH  
RIM=10.60  
T.O.S.=7.60  
NPV

DMH  
RIM=10.50  
INV.(A)=4.44  
INV.(B)=6.59  
INV.(C)=6.14  
INV.(D)=6.31

DMH  
RIM=10.21  
INV.(A)=3.96  
INV.(B)=4.93  
INV.(C)=NPV

DMH  
RIM=10.18  
INV.(A)=5.43  
INV.(B)=6.10  
INV.(C)=5.59

N/F  
SCOTT GARVEY  
PID 0602639000

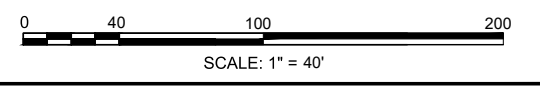
DMH  
RIM=11.74  
INV.(A)=8.14  
INV.(B)=8.25  
INV.(C)=8.44

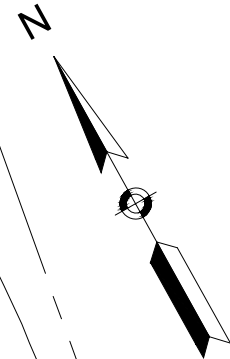
7  
N: 2954405.760'  
E: 778135.526'  
EL: 14.991'  
MMAG

CONTINUED ON  
SHEET NO. 5

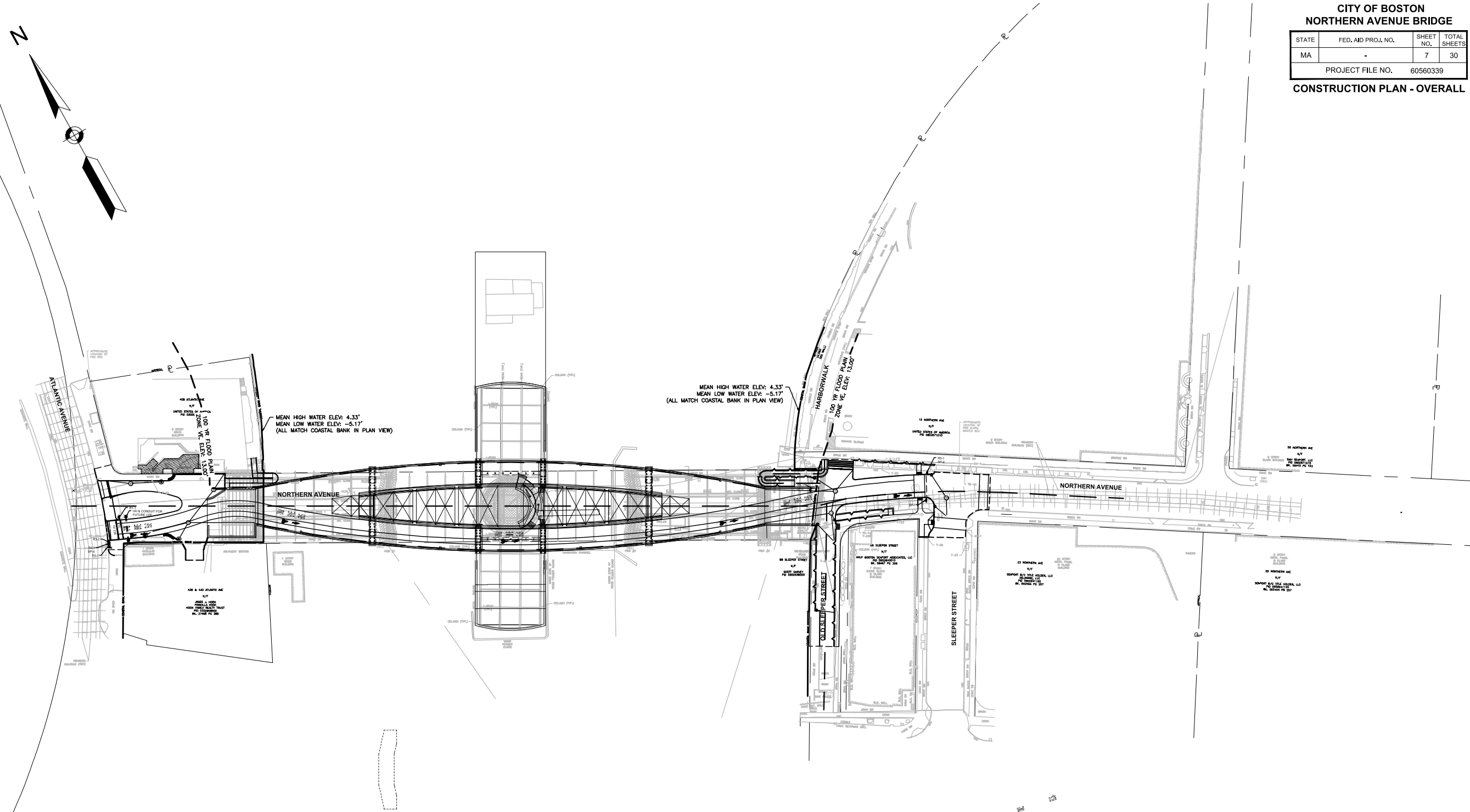
**RESOURCE AREA LEGEND**

- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
- 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'

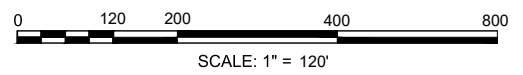


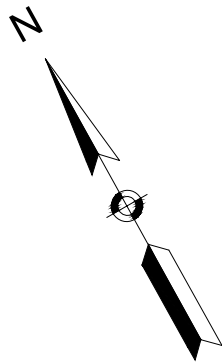


- PROPOSED SIGNS**
- CONSTRUCTION ZONE
  - NO LEFT TURN
  - NO RIGHT TURN
  - NO U-TURN
  - NO THROUGH TRUCKS
  - NO HEAVY TRUCKS
  - NO MOTOR VEHICLES
  - NO BICYCLES
  - NO PEDESTRIANS
  - NO SKATEBOARDS
  - NO ROLLER SKATES
  - NO SCOOTERS
  - NO SKATEBOARDS AND ROLLER SKATES
  - NO SCOOTERS AND ROLLER SKATES
  - NO SKATEBOARDS, ROLLER SKATES, AND SCOOTERS



- RESOURCE AREA LEGEND**
- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
  - 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	30

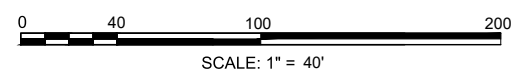
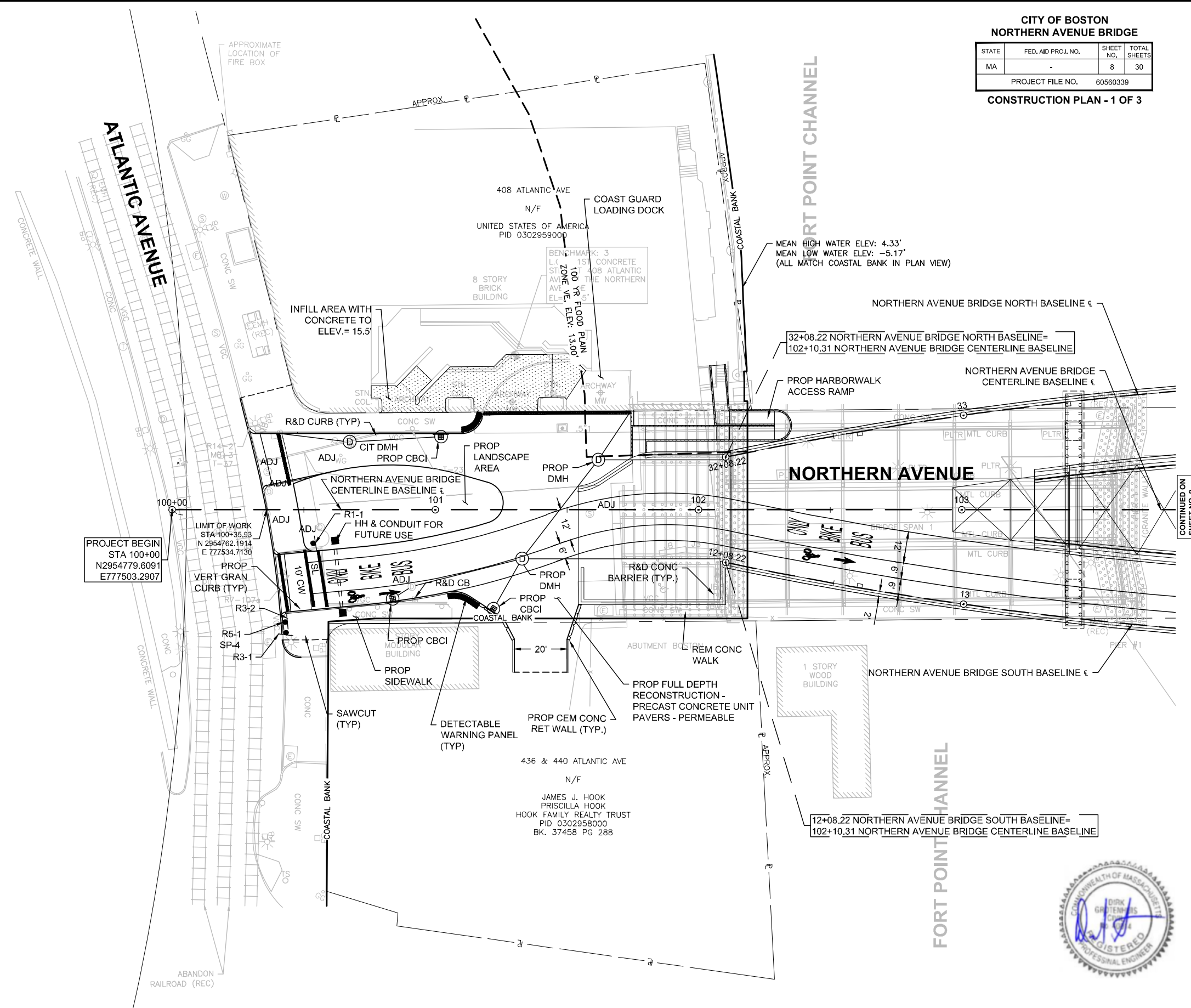
PROJECT FILE NO. 60560339  
**CONSTRUCTION PLAN - 1 OF 3**

**PROPOSED SIGNS:**

 PEDESTRIAN ZONE PEDESTRIANS ONLY SP-1	 STOP R1-1
 EXCEPT BUSES AND BIKES COMMERCIAL VEHICLES (TIMES) SP-2	 R3-1
 EXCEPT BUSES AND BIKES SP-3	 R3-2
 EXCEPT BIKES SP-4	 DO NOT ENTER R5-1

**RESOURCE AREA LEGEND**

- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
- - - - - 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'

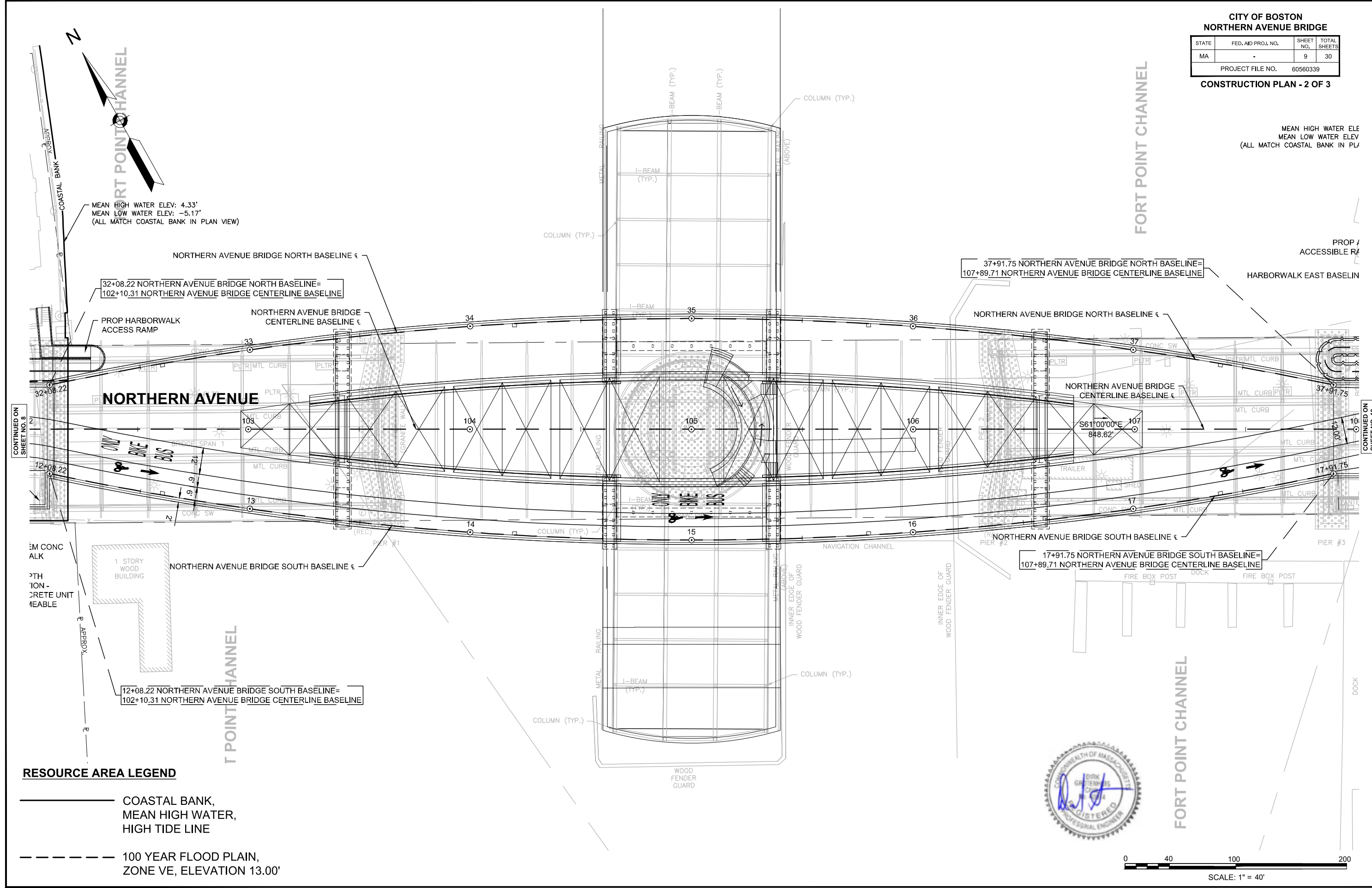


Plotted on 18-May-2020 2:36 PM  
CONSTRUCTION PLANS.DWG

CONTINUED ON SHEET NO. 9

MEAN HIGH WATER ELE  
MEAN LOW WATER ELE  
(ALL MATCH COASTAL BANK IN PL

Plotted on 18-May-2020 2:36 PM  
CONSTRUCTION PLANS.DWG



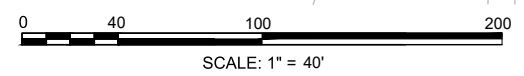
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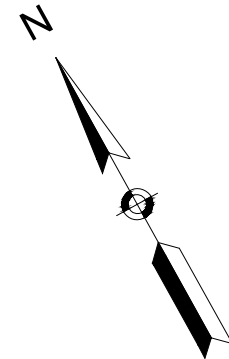
CONTINUED ON SHEET NO. 10

**RESOURCE AREA LEGEND**

———— COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE

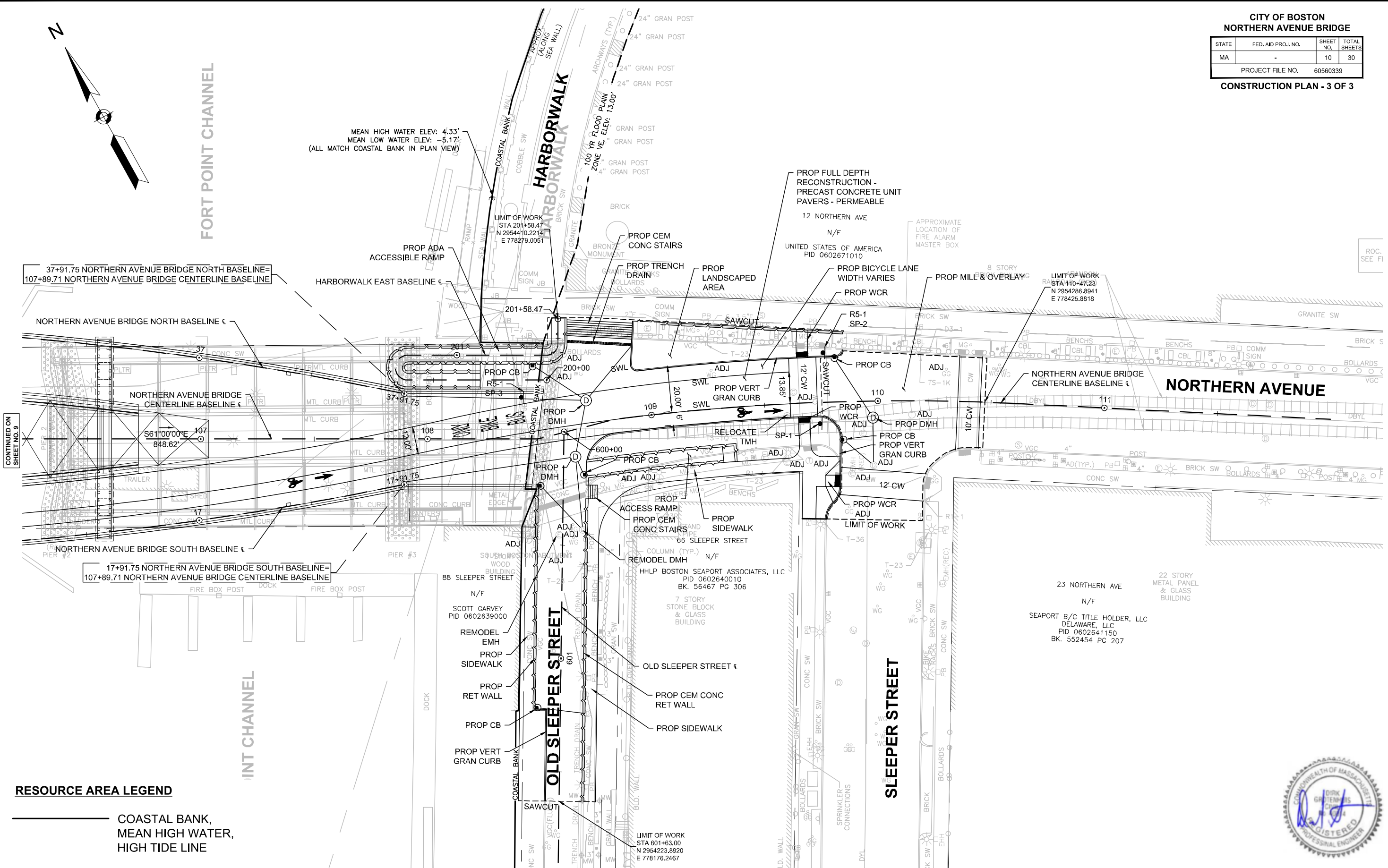
- - - - - 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





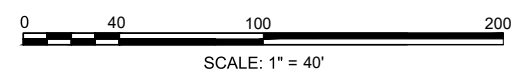
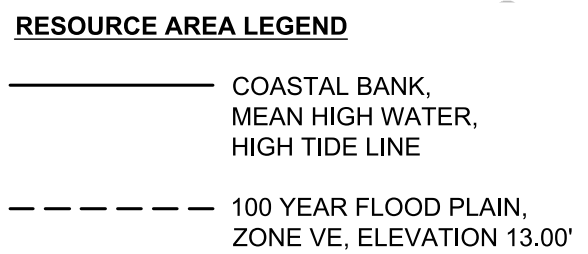
FORT POINT CHANNEL

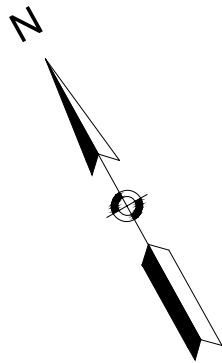
MEAN HIGH WATER ELEV: 4.33'  
MEAN LOW WATER ELEV: -5.17'  
(ALL MATCH COASTAL BANK IN PLAN VIEW)



CONTINUED ON  
SHEET NO. 9

ROC.  
SEE FI

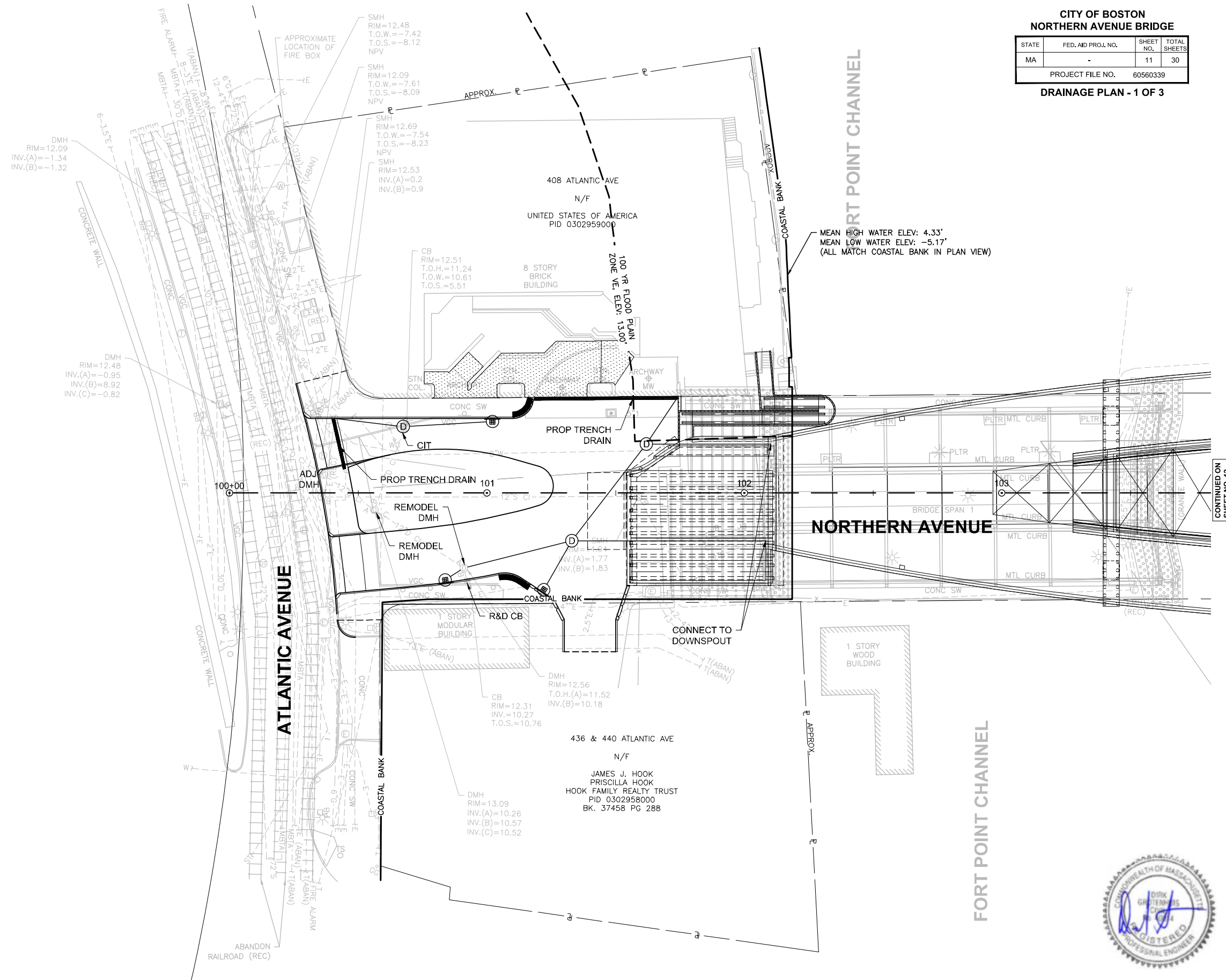




**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	30

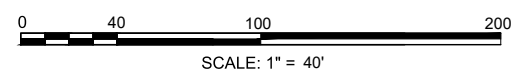
PROJECT FILE NO. 60560339  
**DRAINAGE PLAN - 1 OF 3**



**RESOURCE AREA LEGEND**

———— COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE

----- 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'



CONTINUED ON SHEET NO. 12

DRAINAGE PLANS.DWG Plotted on 18-May-2020 2:49 PM

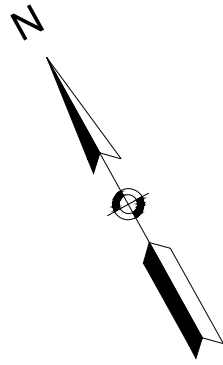




CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	30

PROJECT FILE NO. 60560339  
DRAINAGE PLAN - 3 OF 3



FORT POINT CHANNEL

MEAN HIGH WATER ELEV: 4.33'  
MEAN LOW WATER ELEV: -5.17'  
(ALL MATCH COASTAL BANK IN PLAN VIEW)

HARBORWALK  
HARBORWALK

12 NORTHERN AVE  
N/F  
UNITED STATES OF AMERICA  
PID 0602671010

NORTHERN AVENUE

NORTHERN AVENUE

OLD SLEEPER STREET

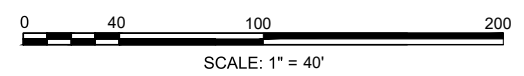
SLEEPER STREET

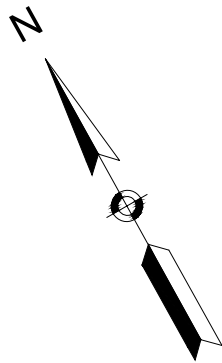
WINT CHANNEL

CONTINUED ON  
SHEET NO. 12

RESOURCE AREA LEGEND

- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
- 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





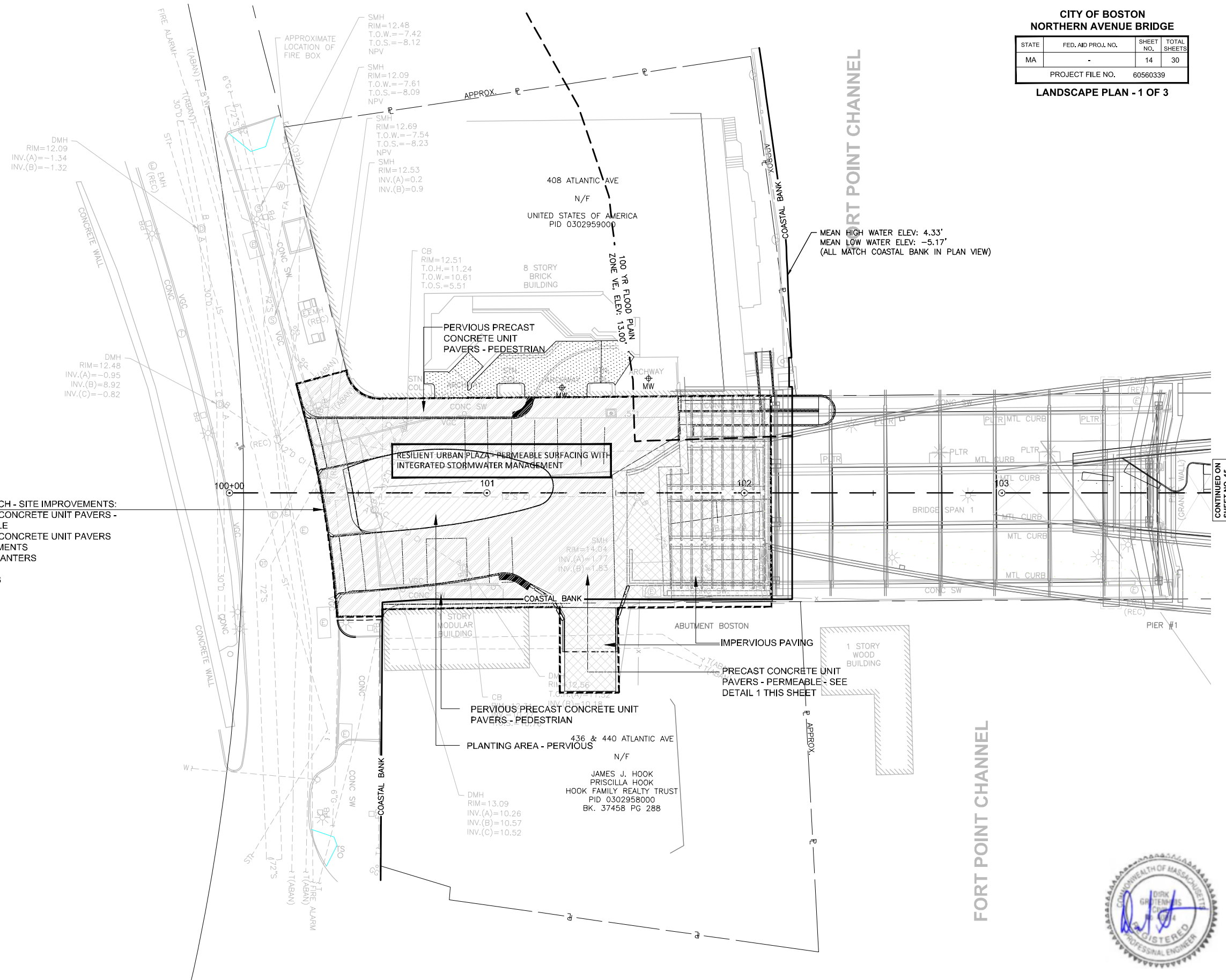
**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	30

PROJECT FILE NO. 60560339  
**LANDSCAPE PLAN - 1 OF 3**

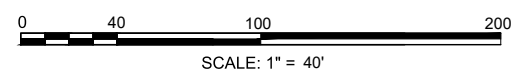
- WEST APPROACH - SITE IMPROVEMENTS:**
- PRECAST CONCRETE UNIT PAVERS - PERMEABLE
  - PRECAST CONCRETE UNIT PAVERS
  - SEAT ELEMENTS
  - RAISED PLANTERS
  - PLANTING
  - BOLLARDS

- RESOURCE AREA LEGEND**
- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
  - 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'



MEAN HIGH WATER ELEV: 4.33'  
MEAN LOW WATER ELEV: -5.17'  
(ALL MATCH COASTAL BANK IN PLAN VIEW)

CONTINUED ON SHEET NO. 15



**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

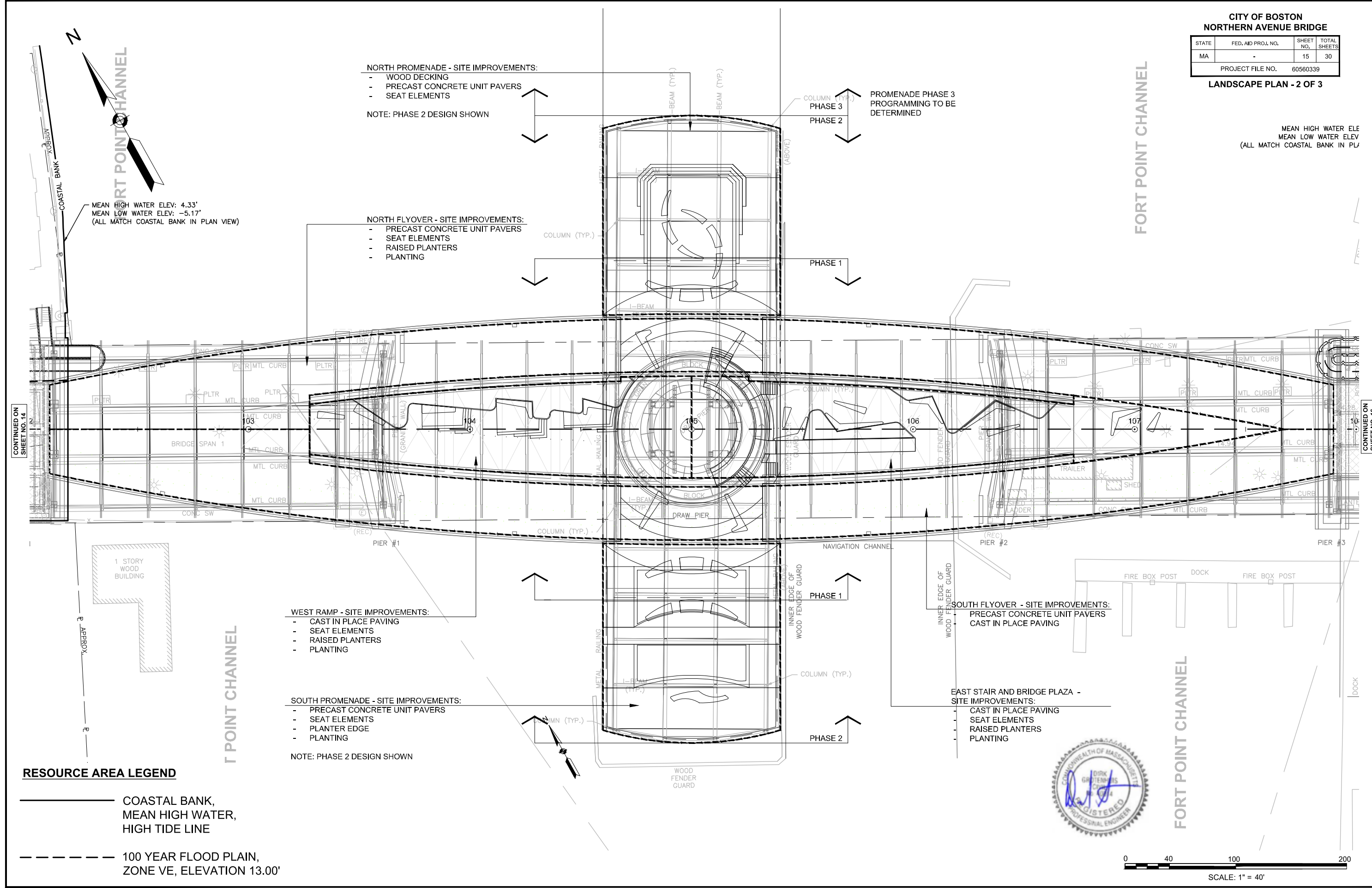
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	30

PROJECT FILE NO. 60560339

**LANDSCAPE PLAN - 2 OF 3**

MEAN HIGH WATER ELE  
MEAN LOW WATER ELE  
(ALL MATCH COASTAL BANK IN PL)

LANDSCAPE PLANS.DWG Plotted on 18-May-2020 2:59 PM

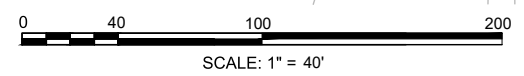


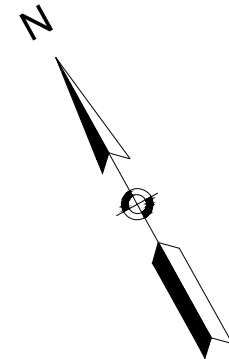
CONTINUED ON SHEET NO. 14

CONTINUED ON SHEET NO. 16

**RESOURCE AREA LEGEND**

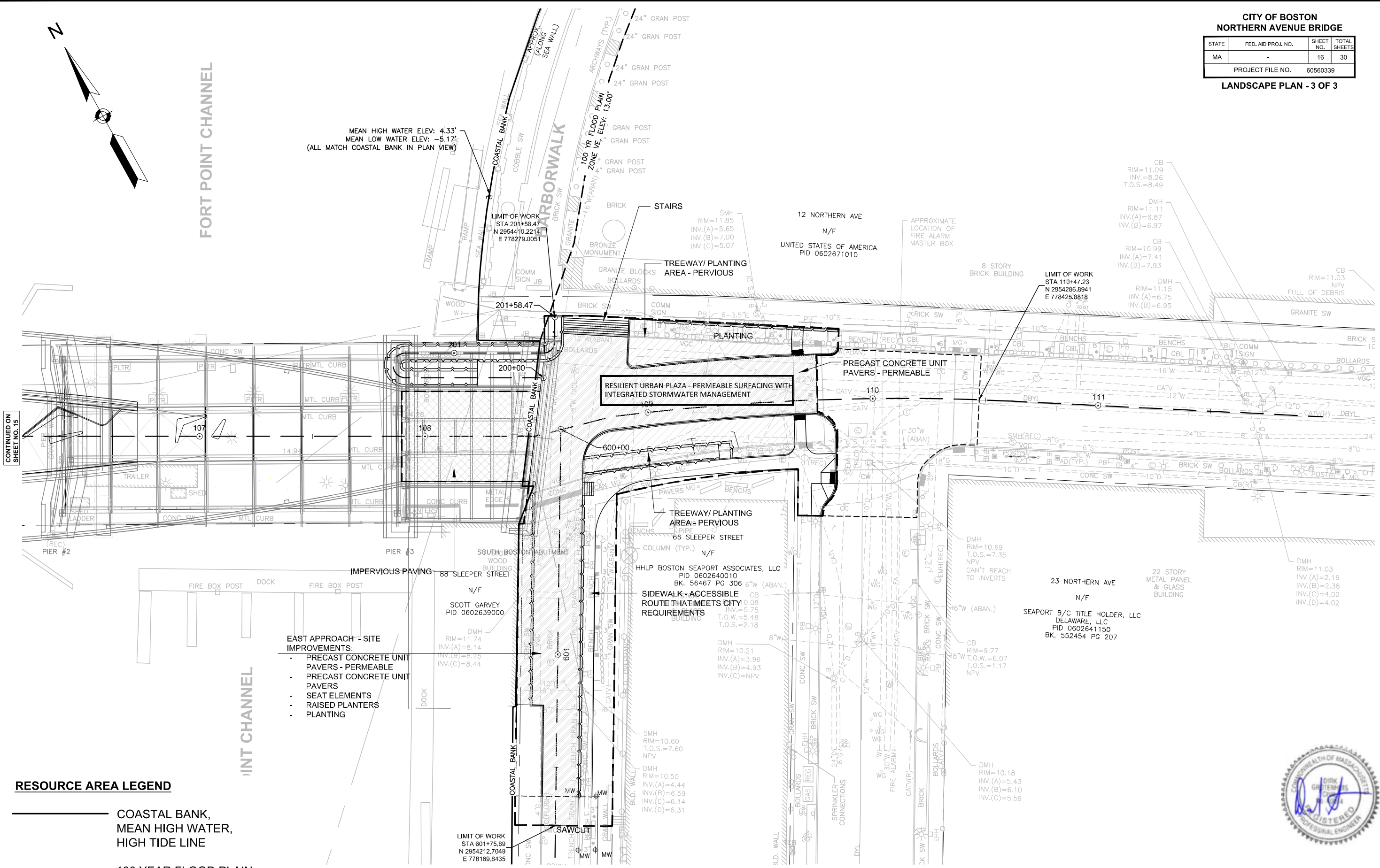
- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
- 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





**FORT POINT CHANNEL**

MEAN HIGH WATER ELEV: 4.33'  
MEAN LOW WATER ELEV: -5.17'  
(ALL MATCH COASTAL BANK IN PLAN VIEW)

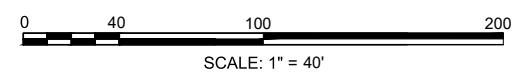


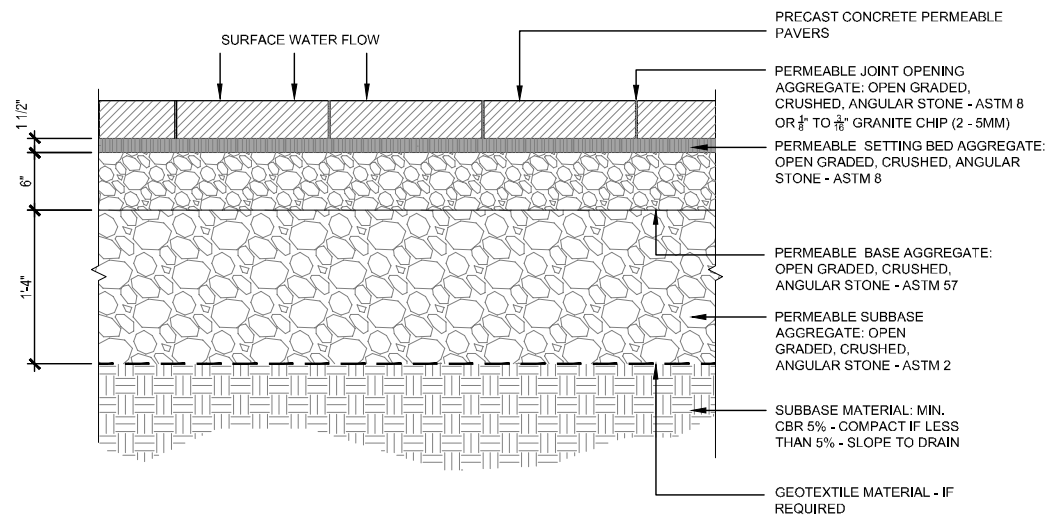
CONTINUED ON  
SHEET NO. 15

- EAST APPROACH - SITE IMPROVEMENTS:**
- PRECAST CONCRETE UNIT PAVERS - PERMEABLE
  - PRECAST CONCRETE UNIT PAVERS
  - SEAT ELEMENTS
  - RAISED PLANTERS
  - PLANTING

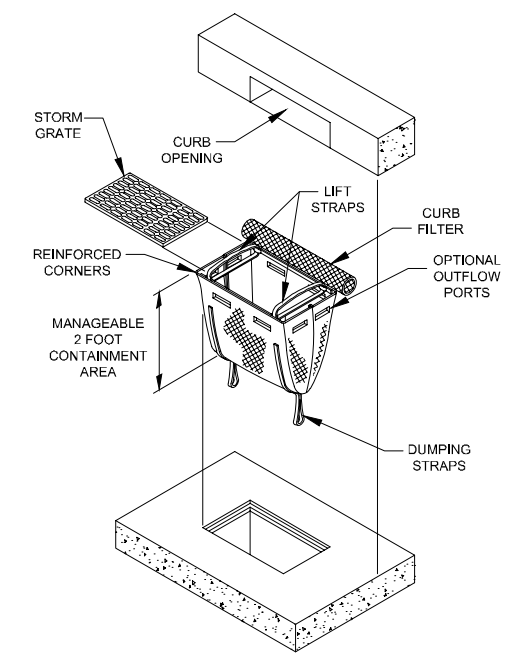
**RESOURCE AREA LEGEND**

- COASTAL BANK, MEAN HIGH WATER, HIGH TIDE LINE
- - - - 100 YEAR FLOOD PLAIN, ZONE VE, ELEVATION 13.00'





○ PRECAST CONCRETE UNIT PAVERS - PERMEABLE  
N.T.S



○ SILT SACK  
N.T.S

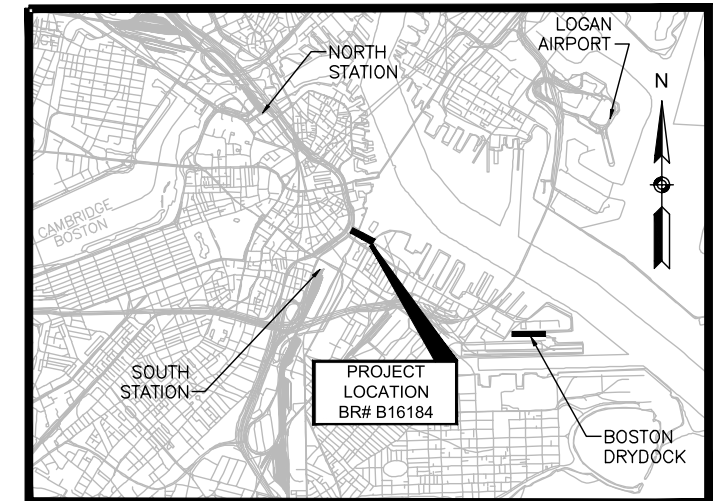
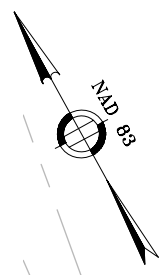


CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

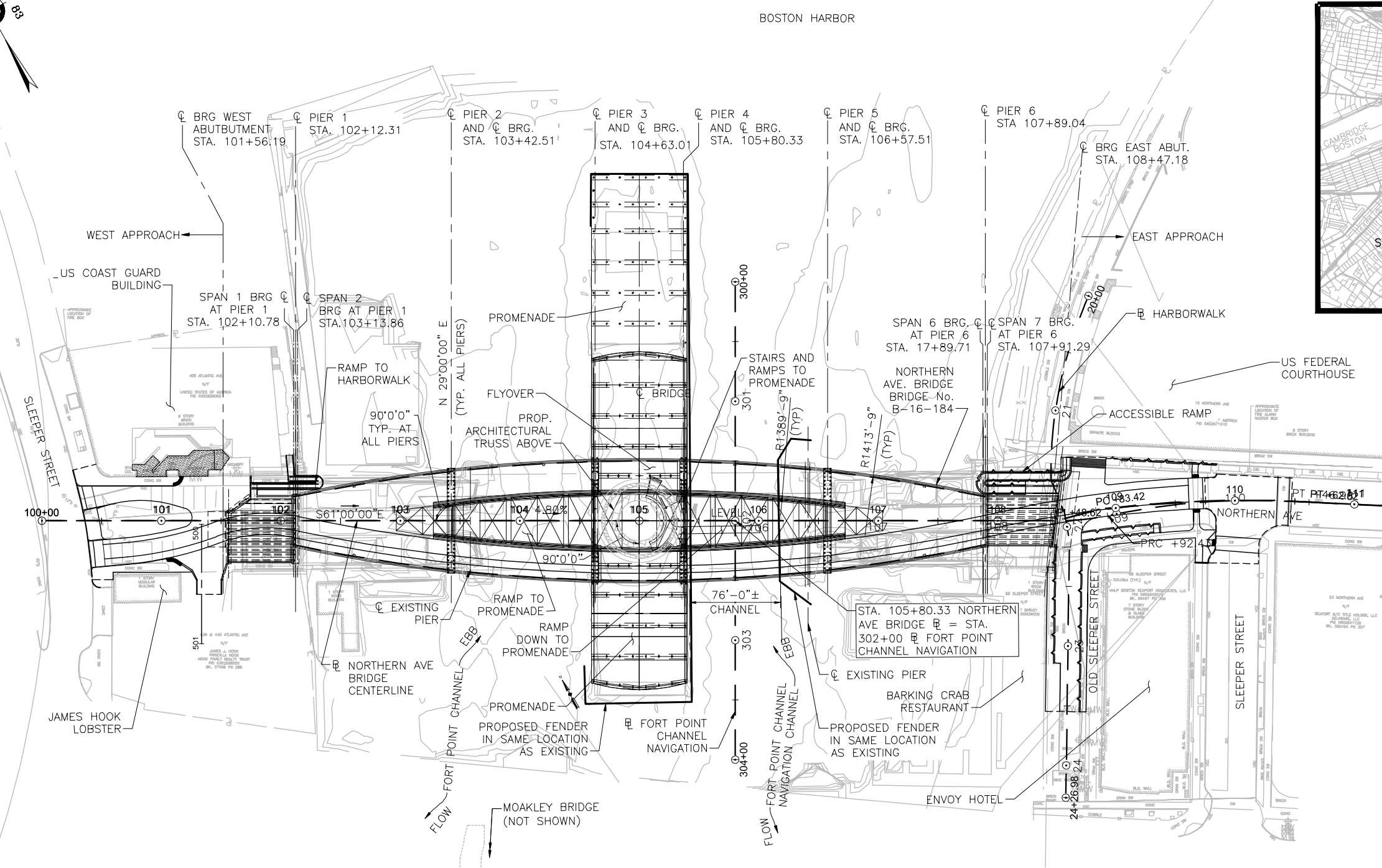
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	30

PROJECT FILE NO. 60560339

KEY PLAN AND LOCUS



LOCUS  
SCALE: 1"=2000"

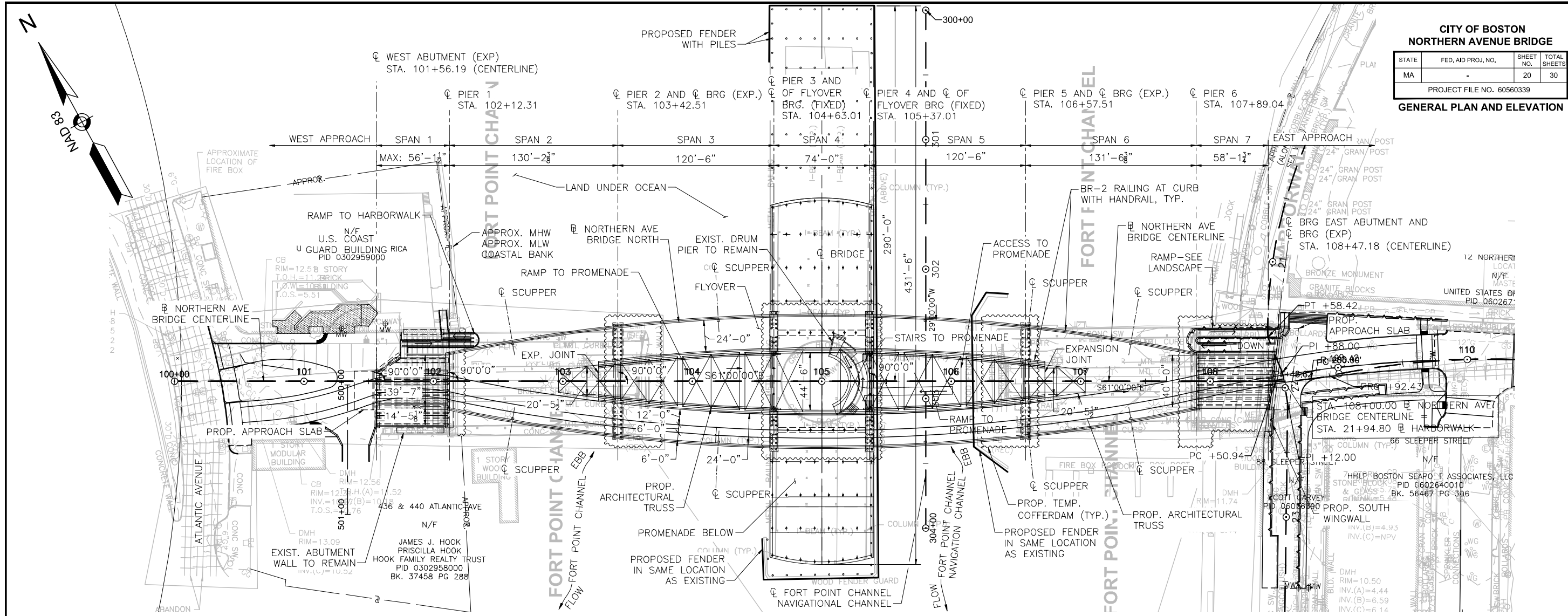


KEY PLAN  
SCALE: 1" = 100'-0"

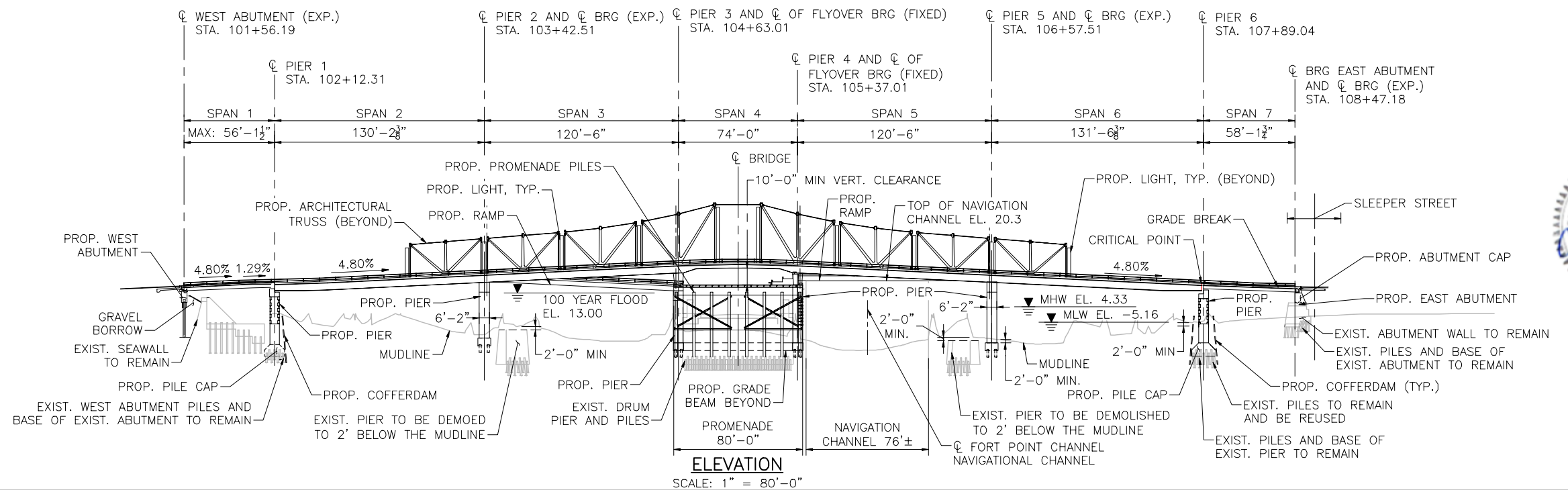








**GENERAL PLAN**  
SCALE: 1" = 80'-0"



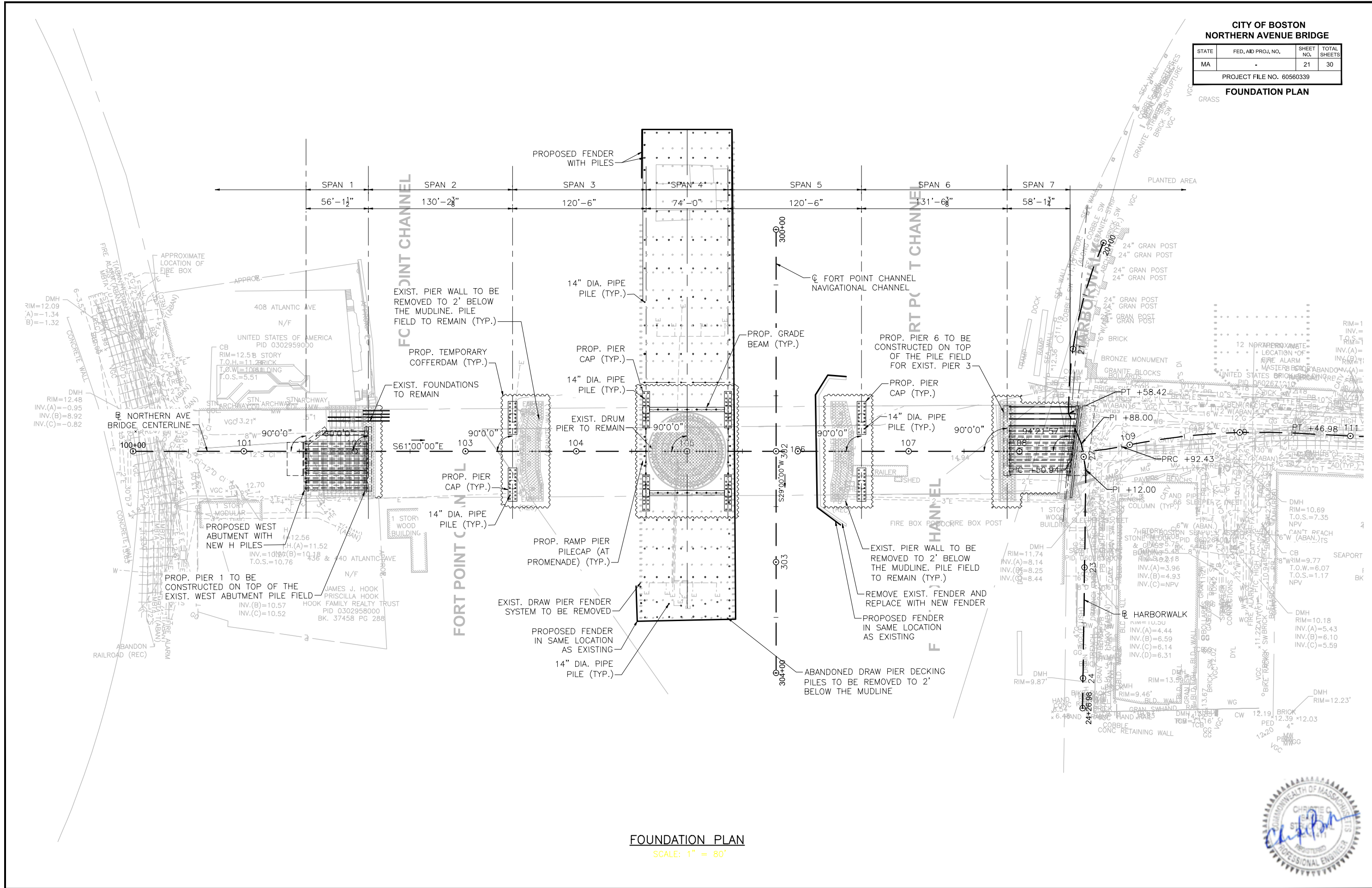
**ELEVATION**  
SCALE: 1" = 80'-0"

**CITY OF BOSTON  
NORTHERN AVENUE BRIDGE**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	30

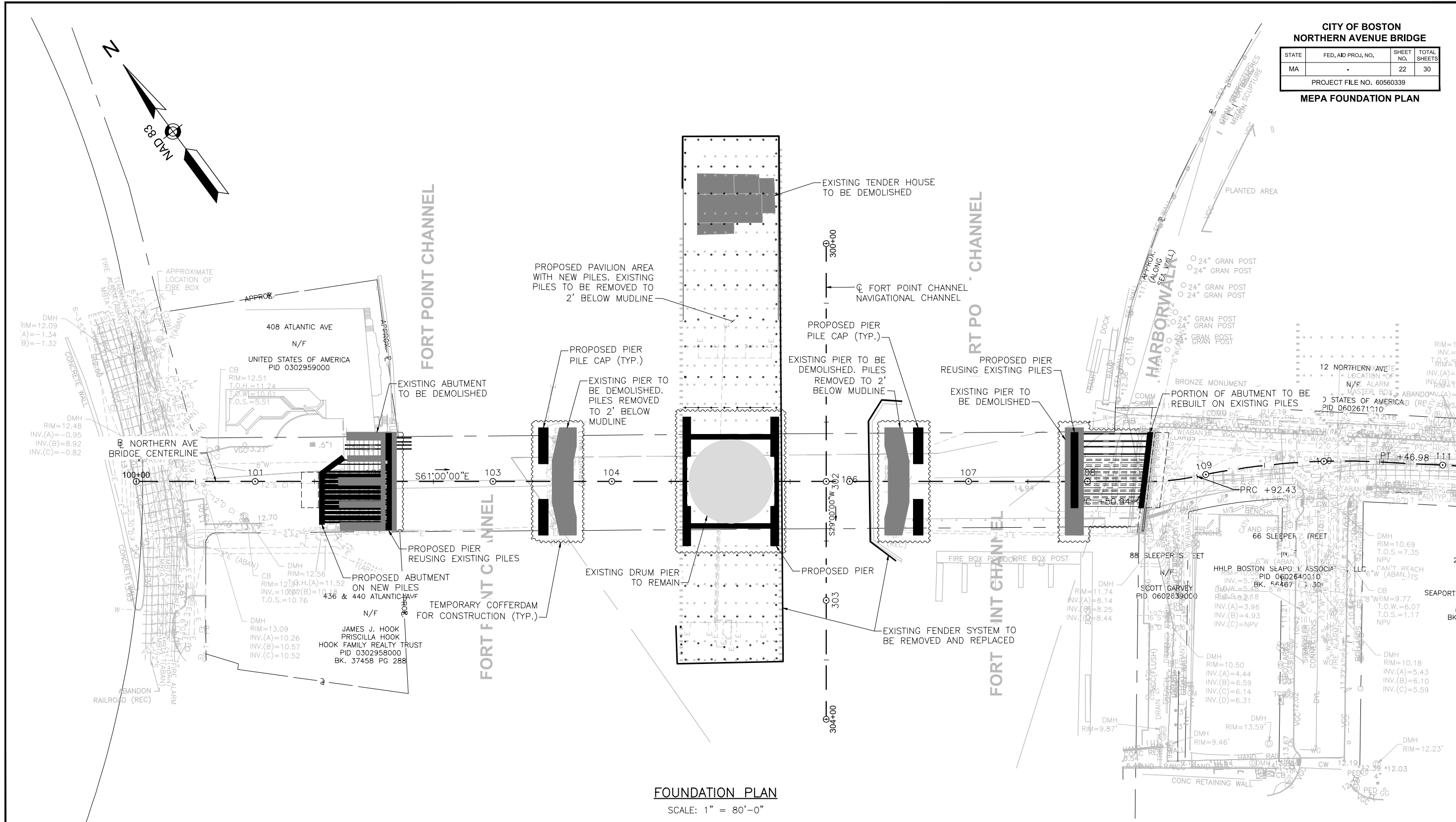
PROJECT FILE NO. 60560339

**FOUNDATION PLAN**



**FOUNDATION PLAN**  
SCALE: 1" = 80'

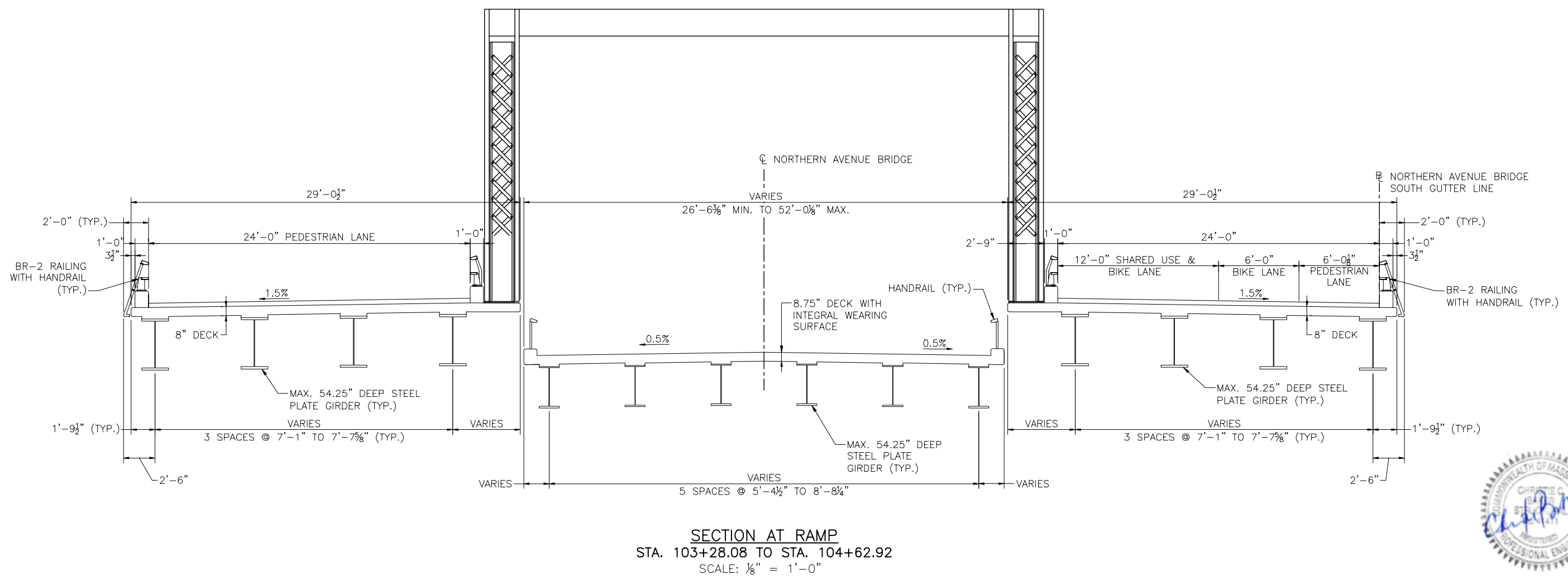
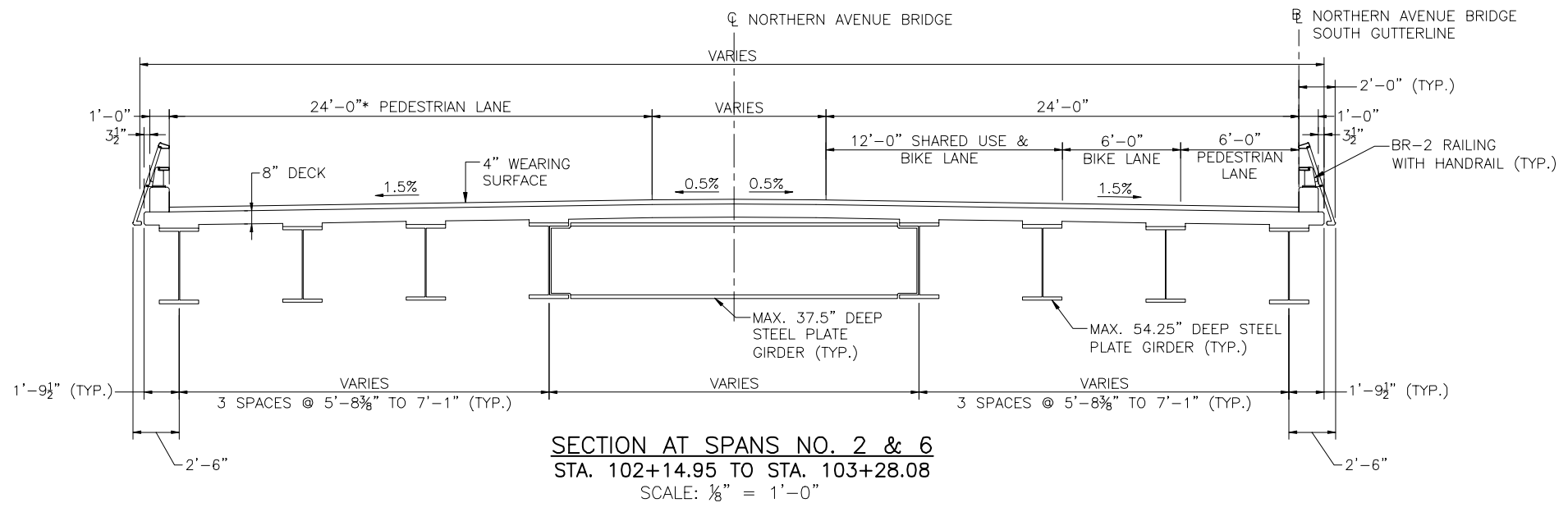




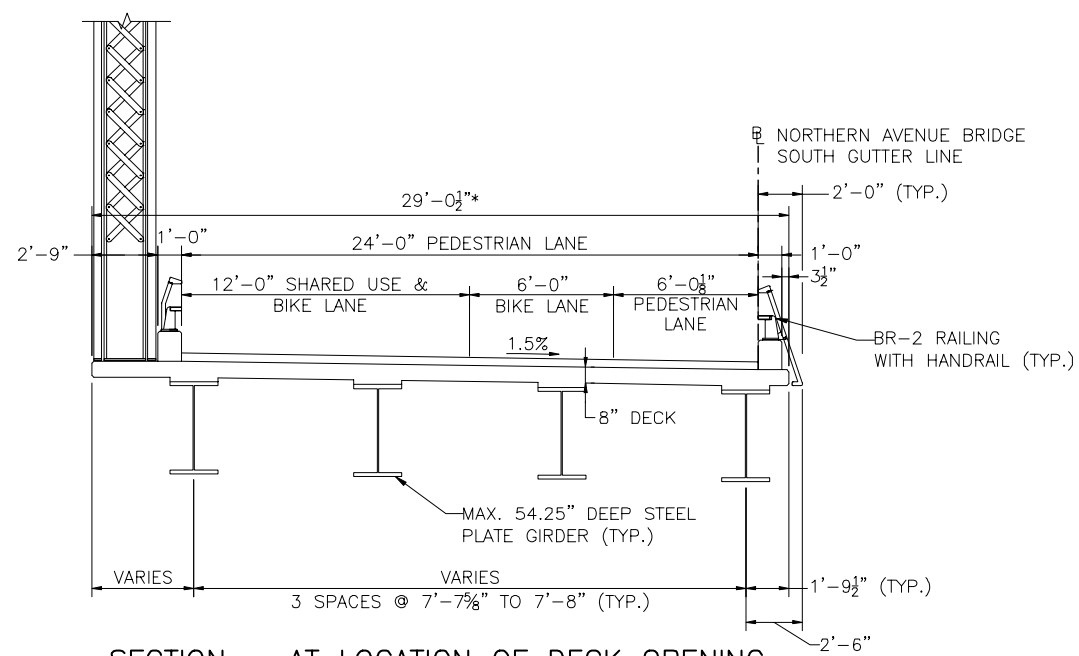
**FOUNDATION PLAN**  
SCALE: 1" = 80'-0"



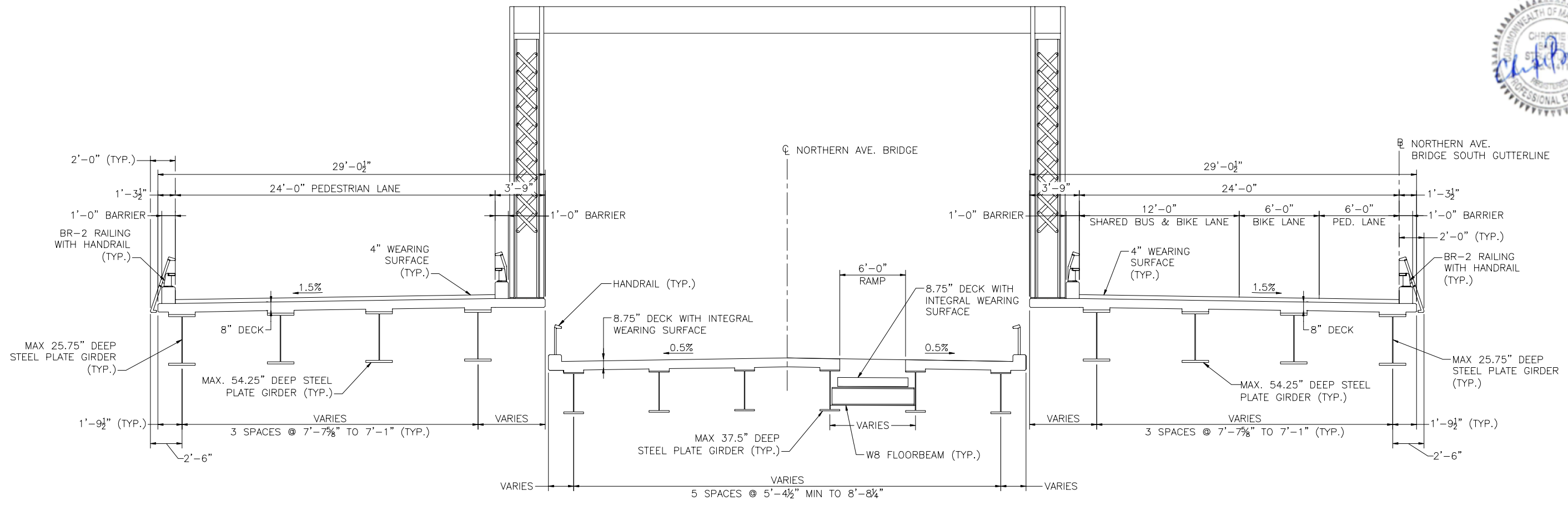
- LEGEND:**
- TO BE DEMOLISHED
  - TO BE CONSTRUCTED
  - TO REMAIN



\*NOTE: ALL DIMENSIONS SHOWN ARE RADIAL TO THE ROADWAY.



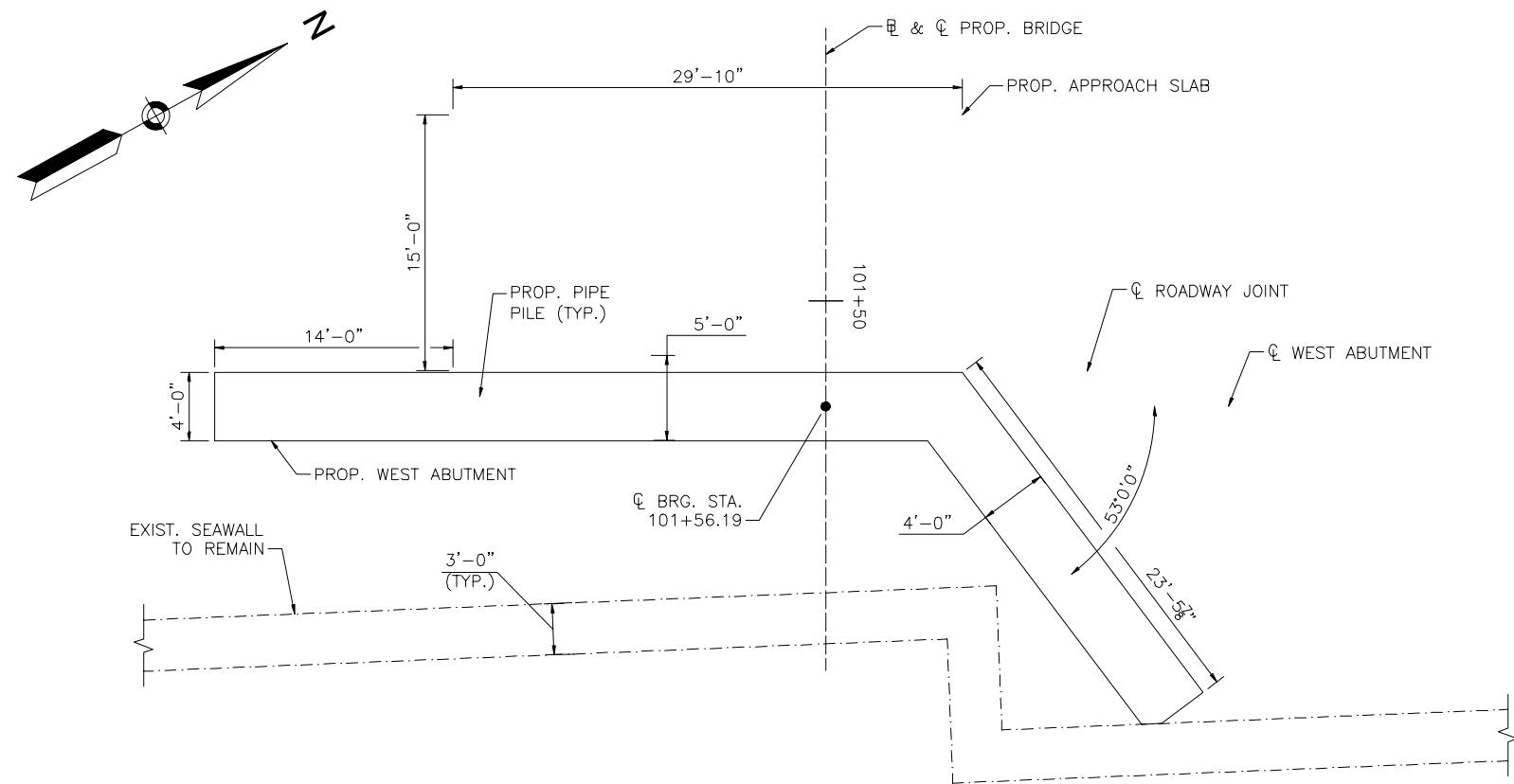
**SECTION - AT LOCATION OF DECK OPENING**  
 STA. 104+63.01 TO STA. 105+37.01  
 (SOUTH SIDE SHOWN, NORTH SIDE OPPOSITE  
 HAND AND FULL WIDTH PEDESTRIAN LANE)  
 SCALE: 1/8" = 1'-0"



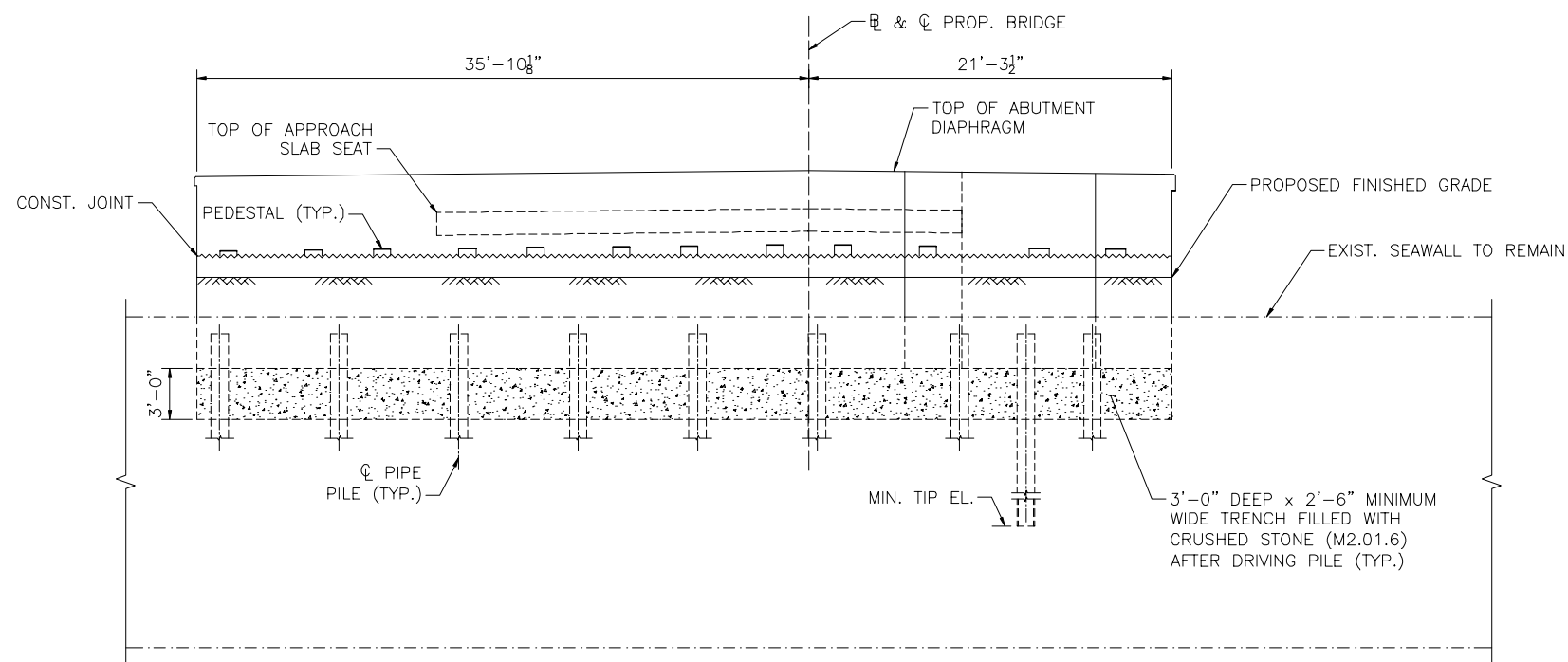
**SECTION AT LEVEL SURFACE**  
 STA. 105+38.53 TO STA. 106+72.43  
 SCALE: 1/8" = 1'-0"

\*NOTE: ALL DIMENSIONS SHOWN ARE RADIAL TO THE ROADWAY.

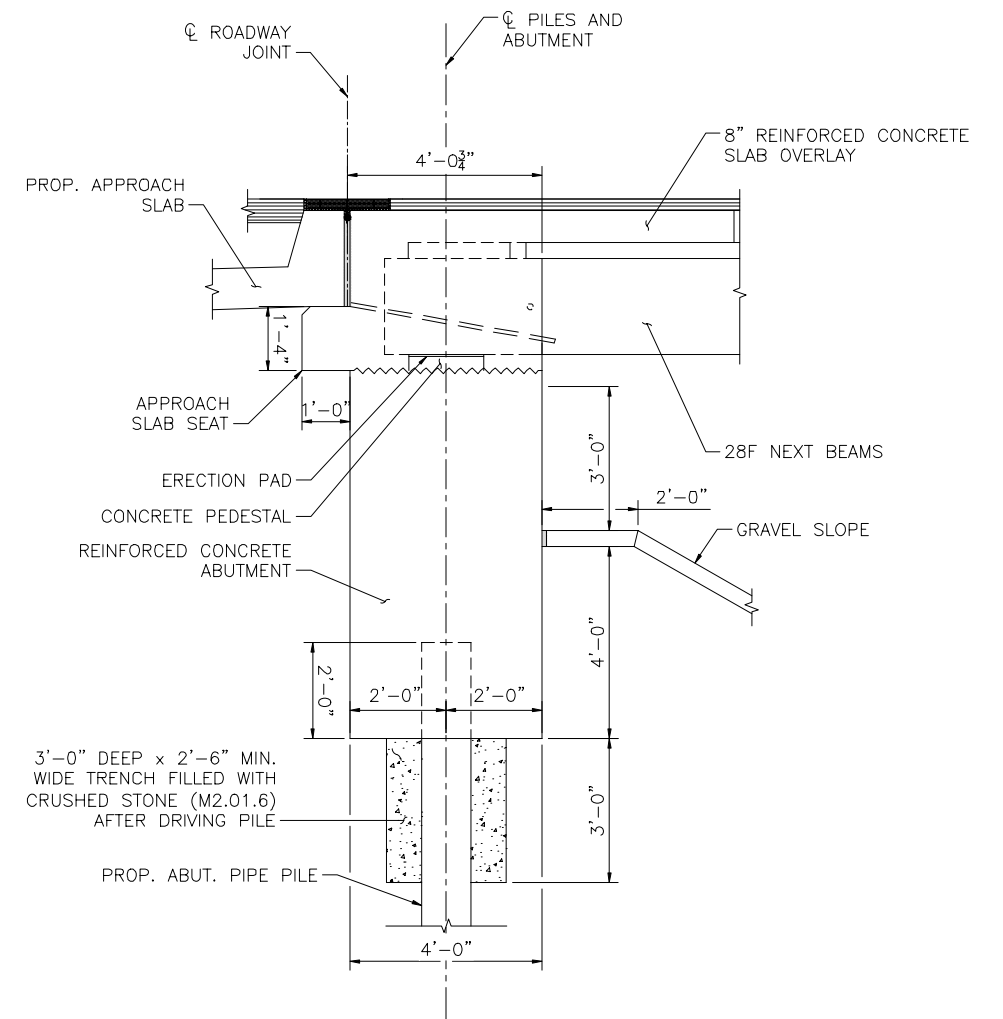




**WEST ABUTMENT PLAN**  
SCALE: 3/32" = 1'-0"



**WEST ABUTMENT ELEVATION**  
SCALE: 3/32" = 1'-0"



**WEST ABUTMENT SECTION**  
SCALE: 1/8" = 1'-0"



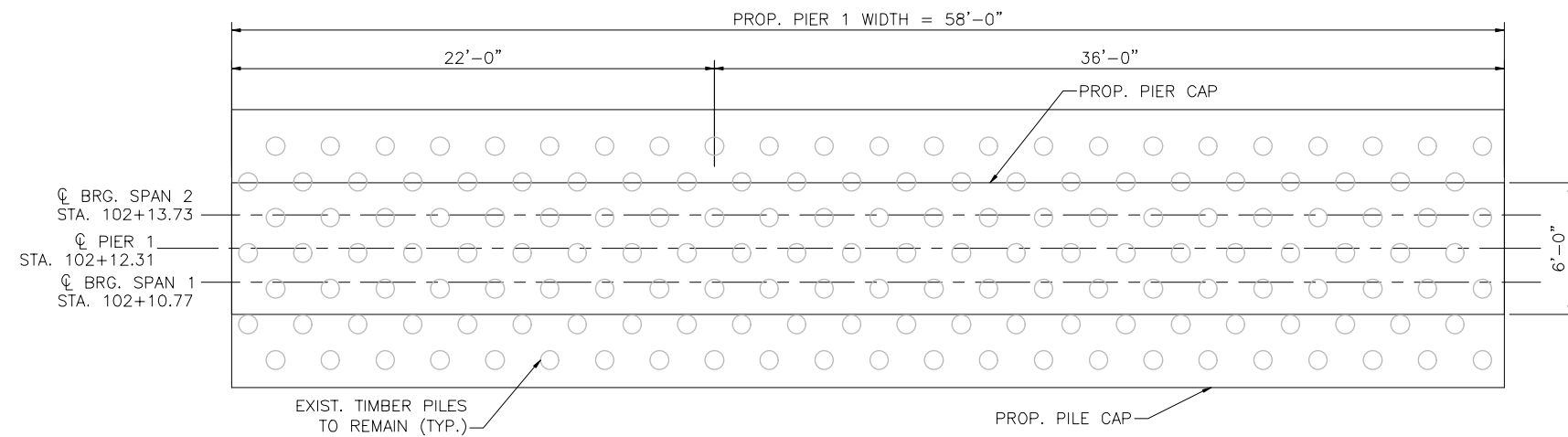


CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

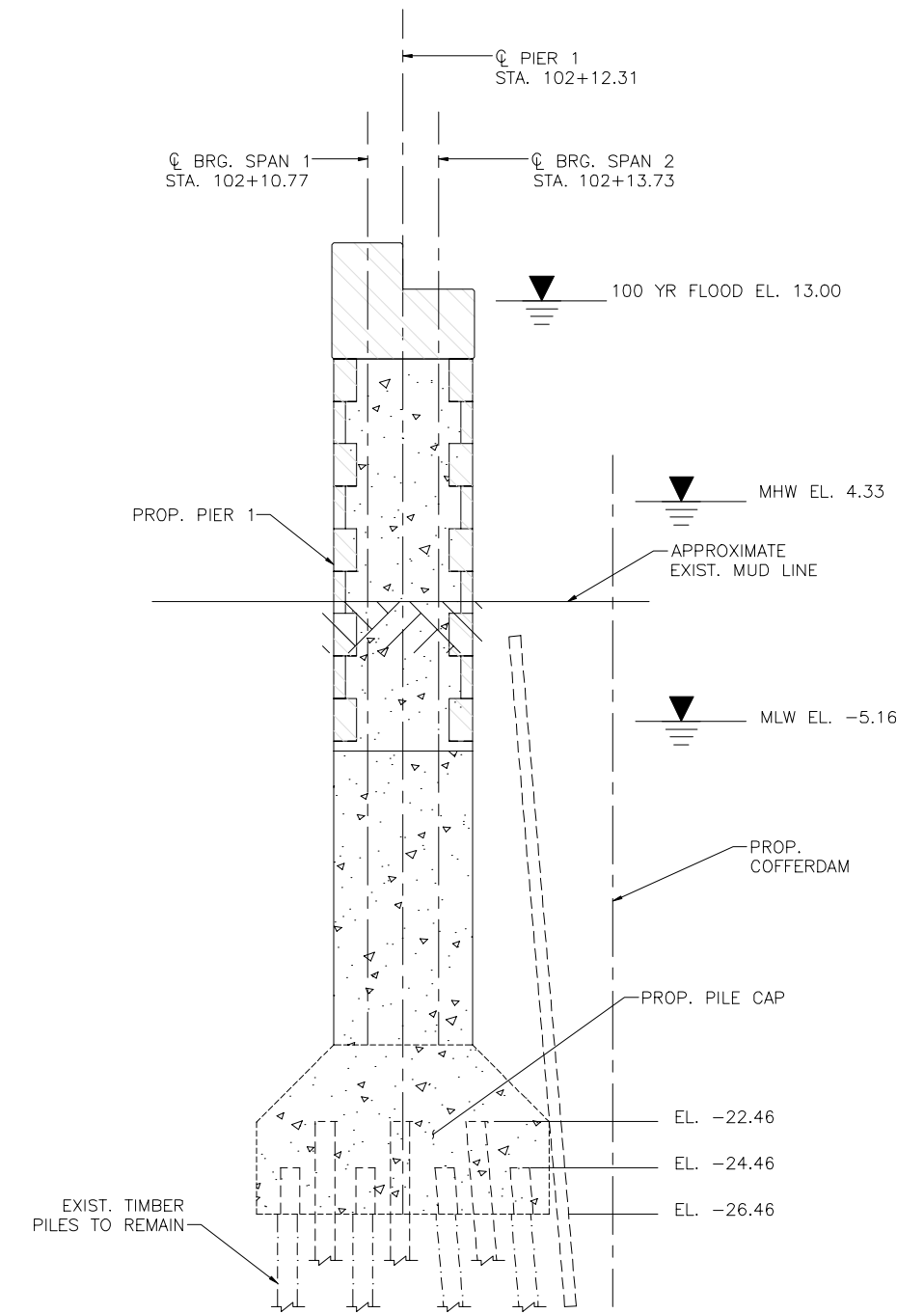
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	30

PROJECT FILE NO. 60560339

PIER 1 DETAILS



**PIER 1 PLAN**  
SCALE: 1/8" = 1'-0"



**PIER 1 SECTION**  
SCALE: 1/8" = 1'-0"

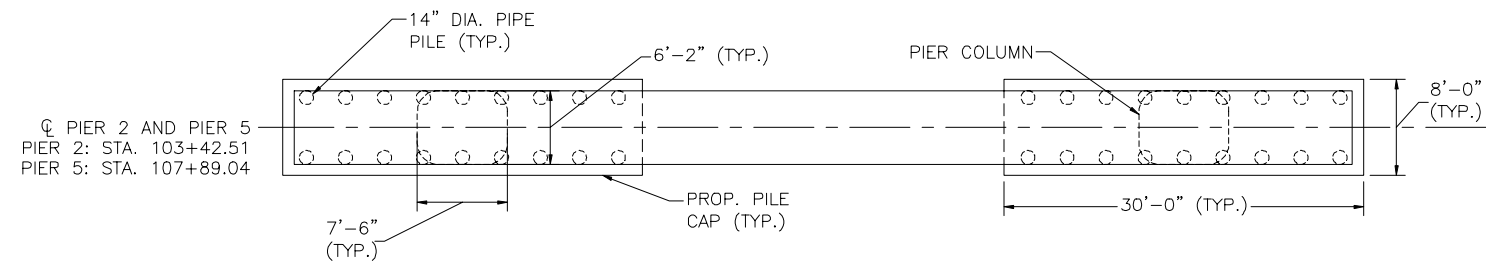




CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	30

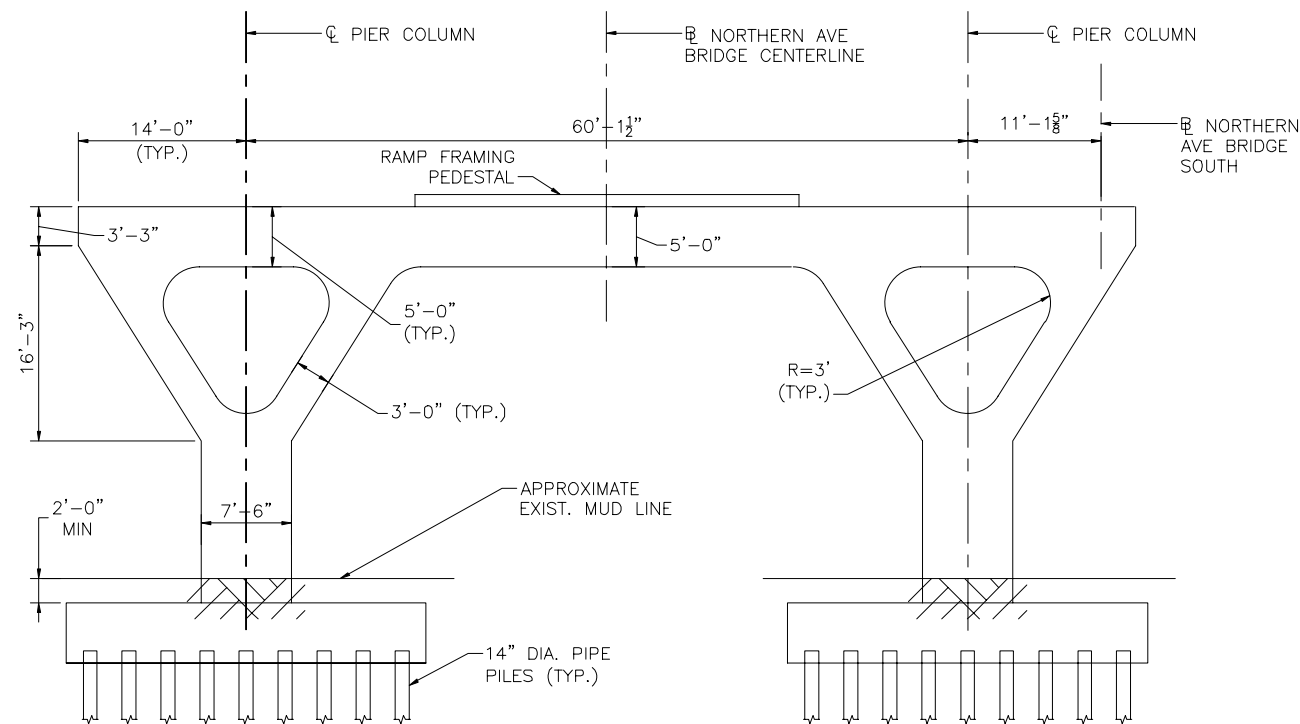
PIER 2 AND PIER 5 DETAILS



**PIER 2 PLAN**

SCALE: 3/4" = 1'-0"

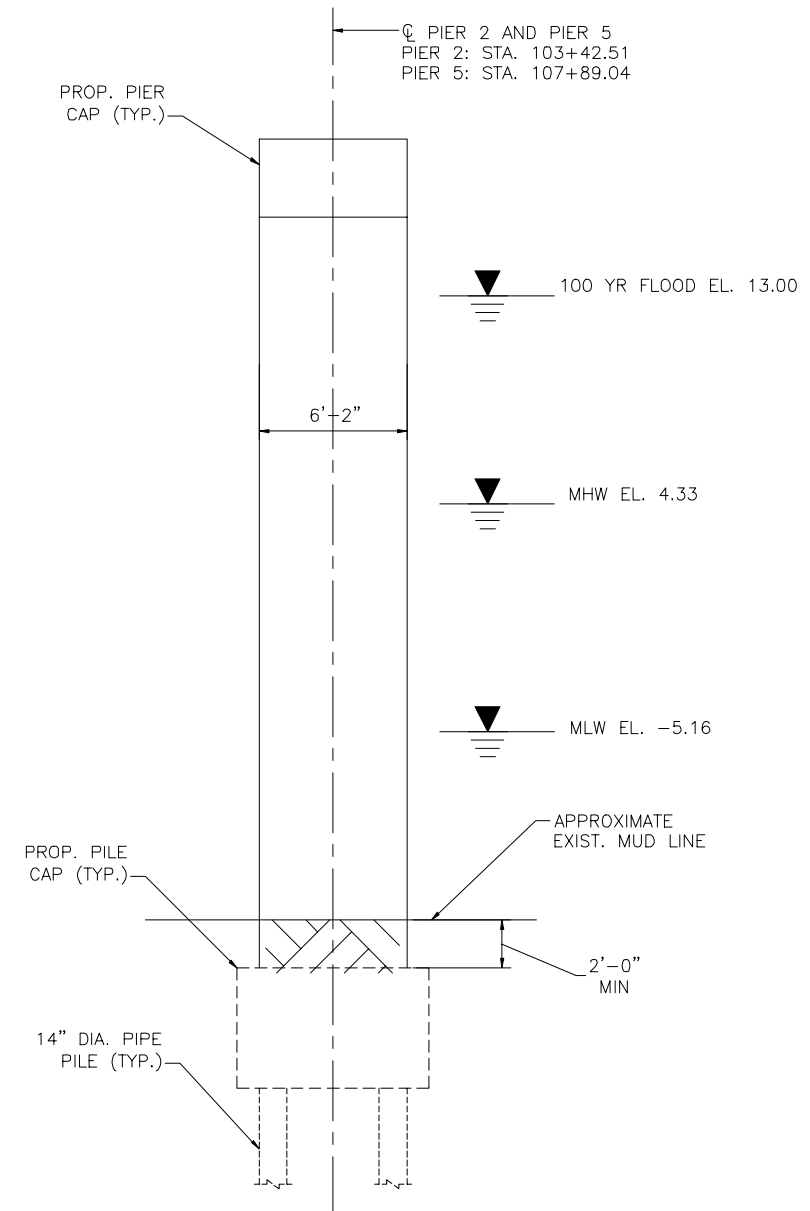
NOTE: PIER 2 SHOWN,  
PIER 5 SIMILAR



**PIER 2 ELEVATION**

SCALE: 3/4" = 1'-0"

NOTE: PIER 2 SHOWN,  
PIER 5 SIMILAR



**SECTION**

SCALE: 1/8" = 1'-0"



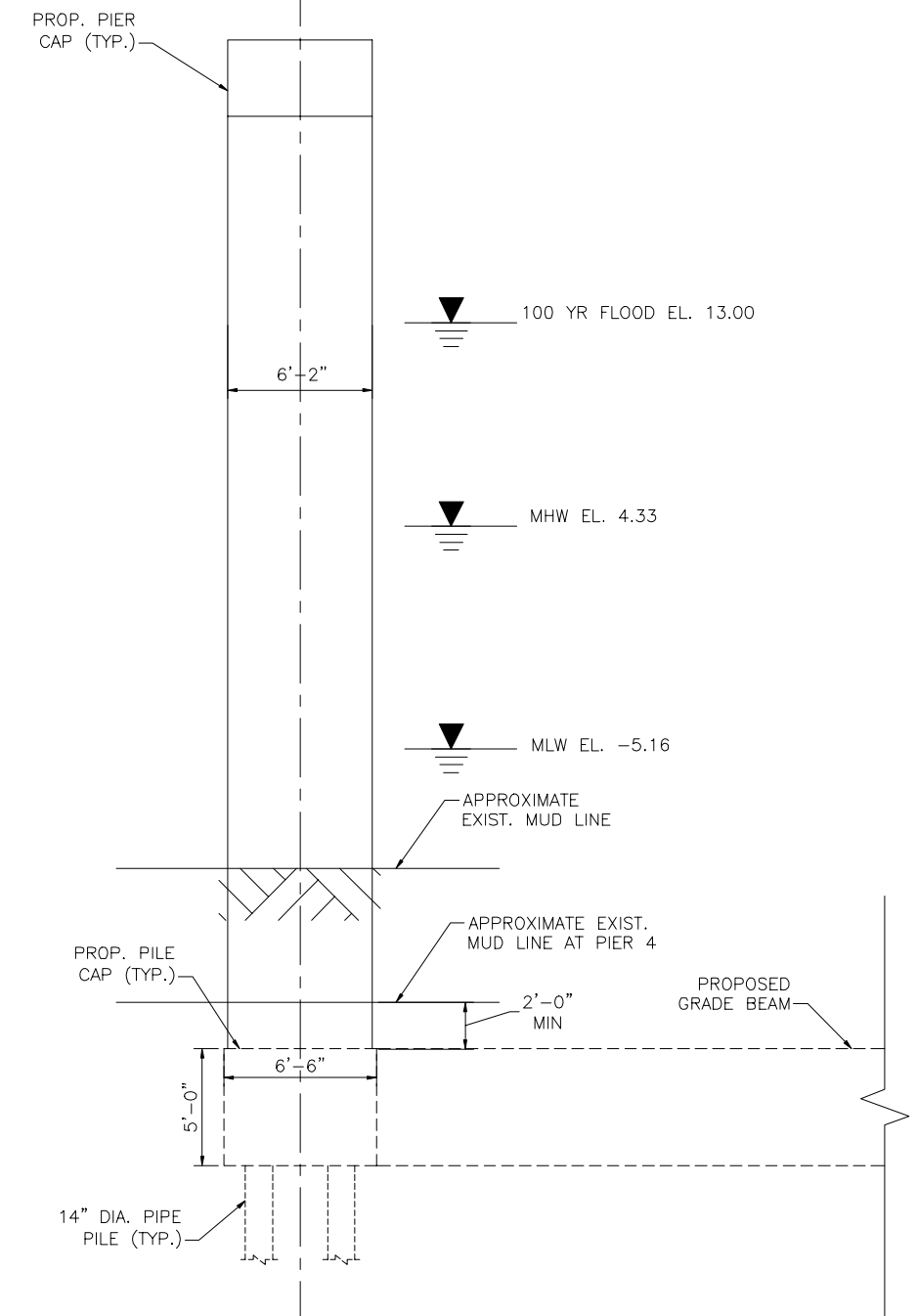
CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	30

PIER 3 AND PIER 4 DETAILS

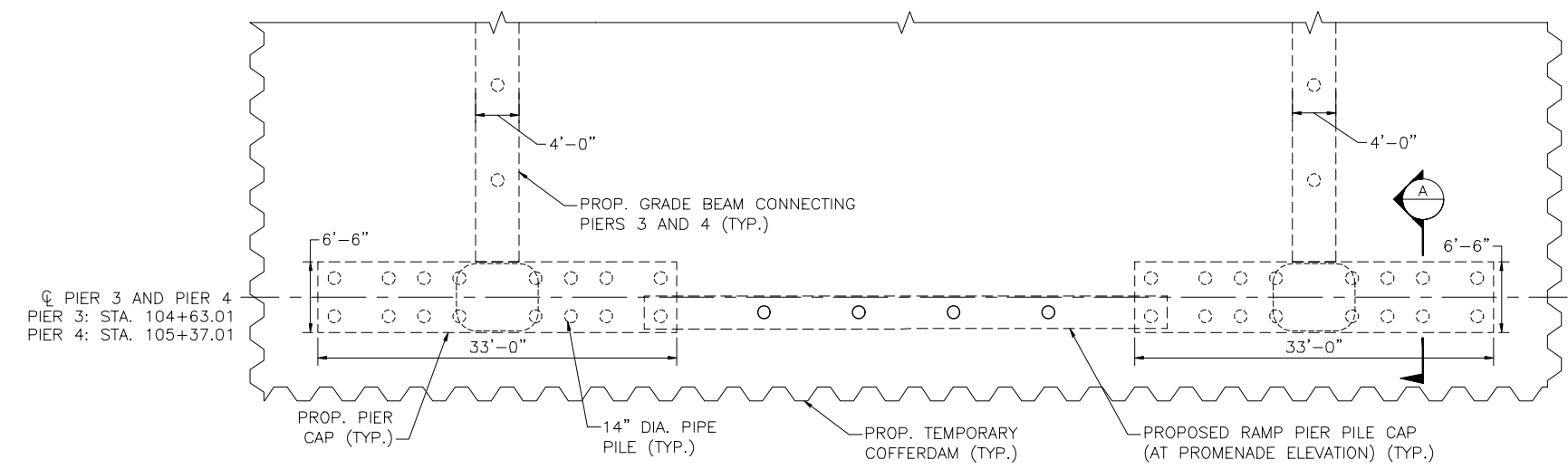
PROJECT FILE NO. 60560339

☉ PIER 3 AND PIER 4  
PIER 3: STA. 104+63.01  
PIER 4: STA. 105+37.01



**SECTION A**

SCALE: 1/8" = 1'-0"  
NOTE: PIER 3 SHOWN,  
PIER 4 SIMILAR



**PIER 3 PLAN**

SCALE: 3/4" = 1'-0"  
NOTE: PIER 3 SHOWN,  
PIER 4 SIMILAR

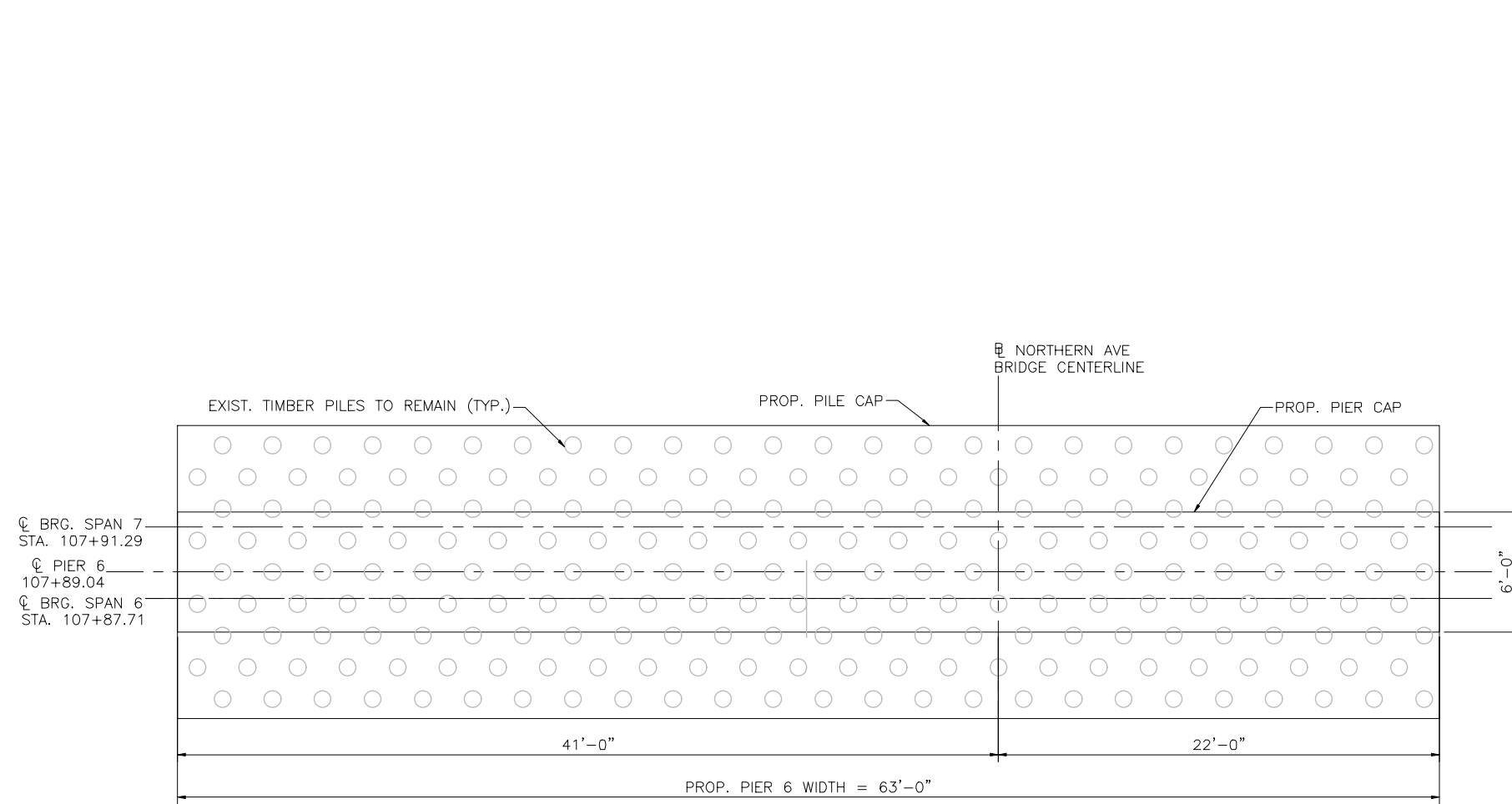


CITY OF BOSTON  
NORTHERN AVENUE BRIDGE

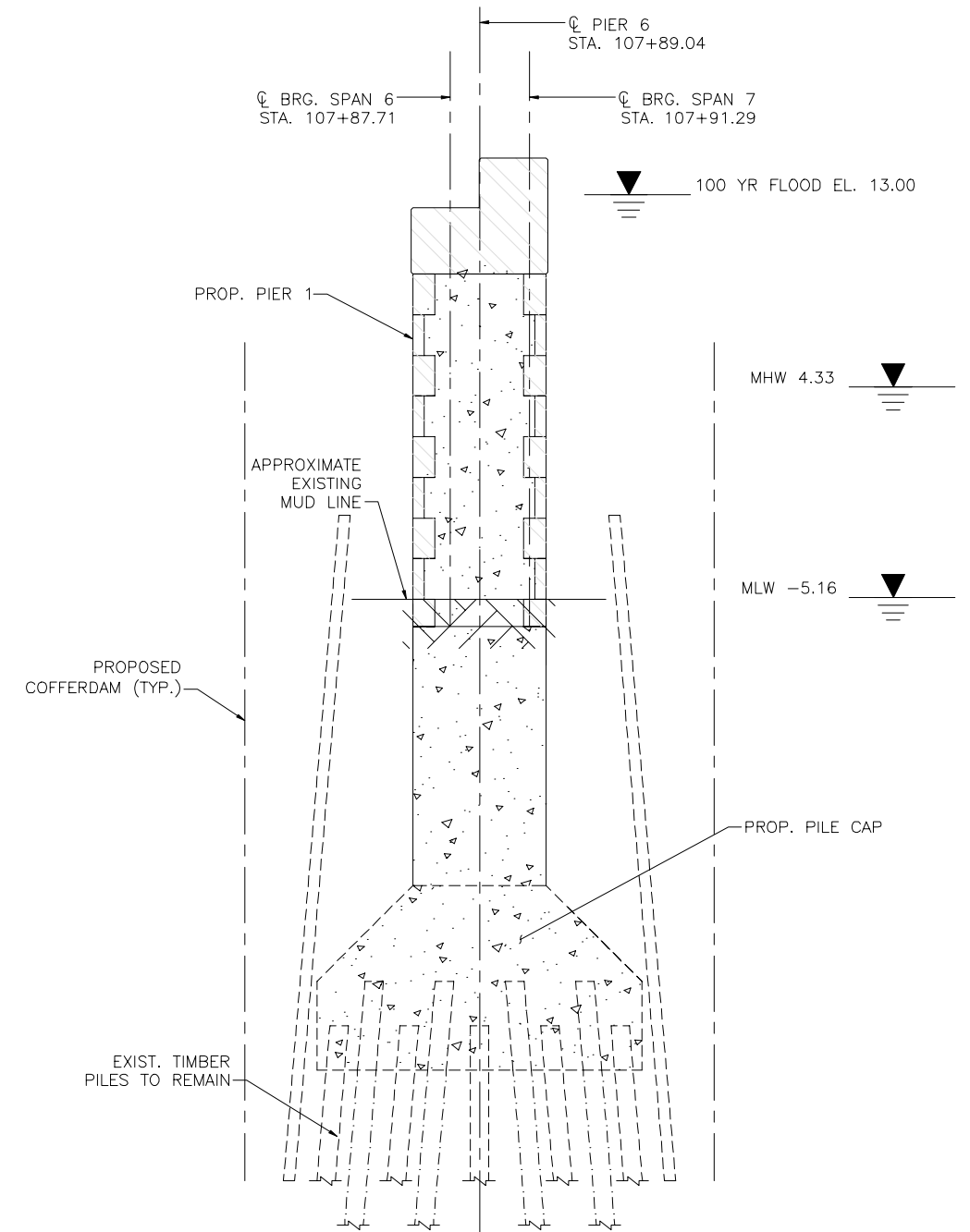
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	30

PROJECT FILE NO. 60560339

PIER 6 DETAILS



PIER 6 PLAN  
SCALE: 1/8" = 1'-0"



PIER 6 SECTION  
SCALE: 1/8" = 1'-0"

