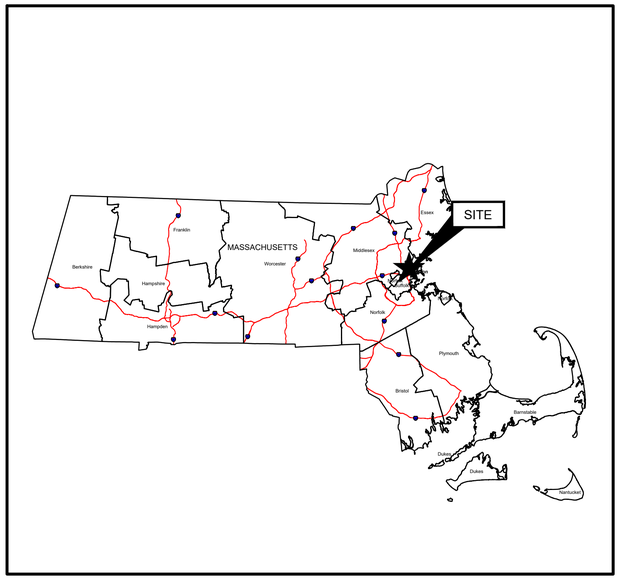
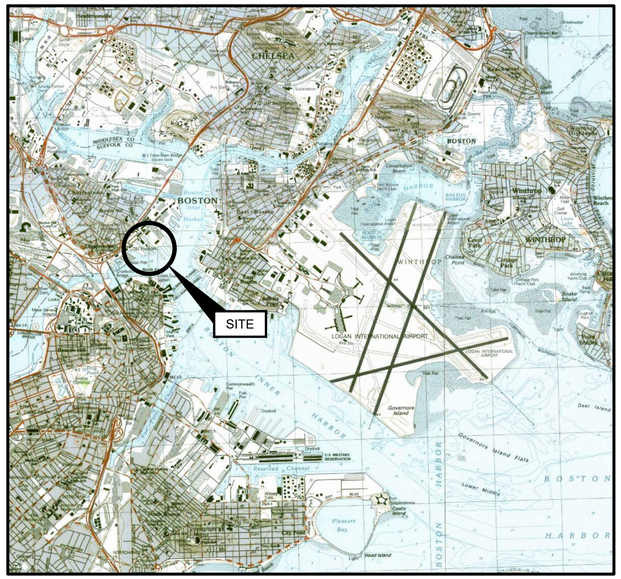
FLAGSHIP WHARF BULKHEAD REPAIRS

SHIPYARD PARK
CHARLESTOWN, MA
NOVEMBER 2026



STATE MAP
(NOT TO SCALE)



COUNTY MAP
(NOT TO SCALE)

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PREPARED FOR:

BOSTON PLANNING & DEVELOPMENT AGENCY
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GEI Consultants

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DWG. NO.
G-001

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GEI PROJECT NO. 2601608

OSHA REQUIREMENTS:
1. PURSUANT TO M.G.L. c.30, §39S, ANY PERSON SIGNING A CONTRACT TO WORK ON A PUBLIC BUILDING OR PUBLIC WORKS PROJECT ESTIMATED TO COST MORE THAN $10,000, MUST CERTIFY UNDER THE PAINS AND PENALTIES OF PERJURY THAT ALL EMPLOYEES EMPLOYED ON THE WORKSITE, OR IN WORK SUBJECT TO THE BID, HAVE SUCCESSFULLY COMPLETED AT LEAST TEN HOURS OF OSHA APPROVED TRAINING. PROOF OF OSHA CERTIFICATION OF ALL WORKERS ONSITE WILL BE REQUIRED PRIOR TO THE START OF WORK.

SURVEY CONTROL AND BASELINES:
1. ELEVATIONS SHOWN ARE IN FEET AND TENTHS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) DATUM. SEE TIDAL DATUM FOR GRAPHIC DATUM CONVERSIONS: NEGATIVE VALUES REPRESENT DEPTHS BELOW NAVD.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN SURVEY CONTROL FOR DURATION OF PROJECT. CONTRACTOR SHALL RE-ESTABLISH ANY DAMAGED CONTROL POINTS AT NO ADDITIONAL COST TO THE AUTHORITY.

CODES: (LATEST EDITION AS OF AUGUST 2023)
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
2. AMERICAN WELDING SOCIETY (AWS)
3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
4. AISC STEEL CONSTRUCTION MANUAL 14TH EDITION
5. AMERICAN CONCRETE INSTITUTE (ACI-318)
6. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
7. AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
8. AMERICAN WOOD COUNCIL
9. MASSACHUSETTS STATE BUILDING CODE
10. THE COMMONWEALTH OF MASSACHUSETTS, DEPARTMENT OF PUBLIC WORKS "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" (1988 EDITION, 15 JUNE 2012 SUPPLEMENTAL SPECIFICATIONS) (MHD), & 14 JUNE 2013 INTERIM SUPPLEMENTAL SPECIFICATIONS (MHD)

EXISTING SITE CONDITIONS:
1. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 25025C0081K DATED JULY 3, 2024. THE SITE IS LOCATED IN ZONES AE (BASE FLOOD ELEVATIONS DETERMINED) AND ZONE VE (BASE FLOOD ELEVATIONS DETERMINED).
2. CONTRACTOR SHALL NOTE THAT ALL EXISTING STRUCTURE DETAILS AND DIMENSIONS ARE APPROXIMATE. BIDDERS SHALL MAKE THEIR OWN ASSESSMENT OF STRUCTURE MATERIALS, DIMENSIONS, THICKNESS, AND NUMBER OF PILES.
3. CONTRACTOR SHALL NOTE THAT THIS SITE INCLUDES A HISTORIC FILLED SHORELINE. SUBSURFACE CONDITIONS MAY INCLUDE BURIED OBSTRUCTIONS AND STRUCTURES INCLUDING, BUT NOT LIMITED TO, RIP RAP, STEEL OR TIMBER BULKHEADS, CONCRETE FOUNDATIONS, TIMBER PILES, STEEL H PILES, MISC. CONCRETE BLOCKS, ABANDONED UTILITIES, STEEL POSTS, RAILS OR OTHER STRUCTURES.
4. CONTRACTOR SHALL ASSUME BURIED OBSTRUCTIONS ARE PRESENT AND PROVIDE SUITABLE EQUIPMENT FOR DEMOLITION AND REMOVAL OF THESE TYPES OF STRUCTURES AND OBSTRUCTIONS.
5. CONTRACTOR SHALL NOTIFY RESIDENT ENGINEER WHEN BURIED STRUCTURES OR OBSTRUCTIONS ARE FOUND.
6. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY UTILITY CONNECTIONS OR CROSSINGS OF PROPOSED OR EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

SITE ACCESS:
1. CONTRACTOR SHALL MAINTAIN WATERSIDE AND LANDSIDE ACCESS TO THE MBTA FERRY BARGE LOCATED ALONG THE NORTHWEST EDGE OF PIER 4.
2. THE CONTRACTOR SHALL NOTE WORK OUTSIDE NORMAL HOURS WILL REQUIRE APPROVAL AND MUST COMPLY WITH CITY ORDINANCES.

SITE PREPARATION:
1. THE CONTRACTOR SHALL COMPLY WITH MA GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
2. THE CONTRACTOR SHALL COMPLY WITH MA GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
3. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE BOSTON WATER AND SEWER COMMISSION (BWSC). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OF ANY UTILITIES OR WITHIN THE JURISDICTION OF ANY UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS, AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 48 HOURS AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION. CONSTRUCTION SHALL NOT INTERFERE WITH OR INTERRUPT UTILITIES WHICH ARE TO REMAIN IN OPERATION.
4. ALL WATER AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE BWSC.
5. CONTRACTOR SHALL INSTALL ALL SIGNAGE PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES INCLUDING DEP FILE NUMBER, FEDERAL, STATE AND MPA MANDATED WORK PLACE SIGNAGE.
6. CONTRACTOR SHALL HAVE IN-PLACE TRASH AND SANITARY FACILITIES FOR THE WORK PLACE.
7. EXISTING STRUCTURES AND AMENITIES WITHIN THE PROXIMITY OF THE WORK SHALL BE PROTECTED TO PREVENT ACCIDENTAL DAMAGE BY CONSTRUCTION ACTIVITIES.
8. THE CONTRACTOR SHALL PROVIDE A PHOTOGRAPHIC AND VIDEO RECORD OF EXISTING SITE CONDITIONS OF THE WORK AREA, BUILDINGS AND AREAS DIRECTLY ADJACENT TO WORK AREAS AND UNDER DECK / FASCIA AS REQUIRED PRIOR TO COMMENCING ANY WORK.
9. DISCOVERY OF INCONSISTENT SITE INFORMATION OR CONDITIONS SHALL BE IMMEDIATELY CONVEYED TO THE RESIDENT ENGINEER PRIOR TO COMMENCING OR CONTINUING CONSTRUCTION.
10. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF UTILITIES AND EXISTING STRUCTURES AS MAY BE REQUIRED.
11. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES OCCURRING AS A RESULT OF THE CONTRACTOR'S FAILURE TO LOCATE AND PROTECT UNDERGROUND UTILITIES AND STRUCTURES. ALL REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY UTILITIES FOR CONSTRUCTION INCLUDING WATER, POWER, LIGHTING, DATA AND TELEPHONE.
13. CONTRACTOR SHALL READ AND UNDERSTAND ALL REGULATORY CONDITIONS ASSOCIATED WITH THE PROJECT AND SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS AND PERMIT CONDITIONS.
14. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND SHALL PROVIDE SIGNAGE, TEMPORARY BARRIERS, FENCING, OR EQUIVALENT TO PREVENT UNAUTHORIZED ACCESS INTO WORK AREAS AT ALL TIMES.
15. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL AND STATE REGULATIONS.
16. THE WORK ON THESE DRAWINGS IS THE MINIMUM PREPARATION REQUIREMENTS FOR THE PROJECT.
17. PRIOR TO STARTING WORK:
    INSTALL SILTATION CONTROLS AROUND PERIMETER OF WORK SITE AND ALL OTHER SILTATION CONTROLS AS REQUIRED BY CONTRACT DRAWINGS AND PERMITS.
18. INSTALL SILTATION CONTROLS AROUND ANY STOCKPILE OF EXCAVATED MATERIAL.

STRUCTURAL STEEL AND MISCELLANEOUS METALS:
1. STRUCTURAL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
2. STEEL SHALL CONFORM TO THE FOLLOWING ASTM GRADES UNLESS OTHERWISE NOTED:
   - STEEL SHEET PILES — SEE BELOW
   - HIGH STRENGTH BOLTS — F3125, GRADE A325
   - ALL OTHER STRUCTURAL STEEL — A592 GRADE 50 (Fy - 50 KSI) UNLESS NOTED OTHERWISE
3. WELDING SHALL CONFORM TO AWS
   - WELDING ELECTRODES — AWS E70XX
4. ALL NEW STEEL HARDWARE AND FABRICATIONS SHALL BE HOT DIPPED GALVANIZED AND CONFORM TO ASTM A-123 AND/OR A-153 UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN ON THE PLANS WITH THE VARIOUS TRADES, SIZE OF UNITS AND EXISTING CONDITIONS BEFORE DETAILING AND FABRICATING STEEL.
6. STAINLESS STEEL SHALL BE SERIES 300, TYPE 316 UNLESS OTHERWISE NOTED.

STEEL SHEET PILE BULKHEADS
1. ALL STEEL FOR STEEL SHEET PILE BULKHEADS SHALL CONFORM TO ASTM A572 GR.60, MINIMUM YIELD STRESS OF 60 KSI.
   1.1. TIP EL. SEE DRAWINGS
   1.2. ALL STEEL SHEET PILES SHALL HAVE A MINIMUM STEEL THICKNESS OF $\frac{3}{8}$" ON BOTH WEB AND FLANGE.
   1.3. ALL STEEL SHEET PILES FOR THE BULKHEAD SHALL BE COATED PER SPECIFICATION.
2. TYPE 1 BULKHEAD
   2.1. MINIMUM SECTION MODULUS SHALL BE EQUIVALENT TO 30.5 CUBIC INCHES PER LINEAR FOOT OF INSTALLED WALL.
   2.2. MINIMUM MOMENT OF INERTIA SHALL BE 171.7 IN4 PER LINEAR FOOT OF INSTALLED COMBINATION WALL.
3. TYPE 2 BULKHEAD
   3.1. MINIMUM SECTION MODULUS SHALL BE EQUIVALENT TO 62.16 CUBIC INCHES PER LINEAR FOOT OF INSTALLED WALL.
   3.2. MINIMUM MOMENT OF INERTIA SHALL BE 457.4 IN4 PER LINEAR FOOT OF INSTALLED COMBINATION WALL.
4. ALL STEEL WALES INCLUDING ALL WASHER PLATES, SPLICE PLATES, FASTENERS, ETC. SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.
5. TIE RODS SHALL CONFORM TO ASTM A615 AND A722, GRADE 75 BAR. SIZES AS SHOWN ON DRAWINGS.

CONCRETE:
1. ALL REINFORCEMENT SHALL BE NEW DEFORMED STEEL BARS, GRADE 60 CONFORMING TO ASTM A615, GALVANIZED CONFORMING TO ASTM A767 OR A1094.
2. REINFORCEMENT ACCESSORIES SHALL BE DIELECTRIC COATED STEEL OR APPROVED PLASTIC.
3. ALL CONCRETE EXCEPT TREMIE CONCRETE SHALL HAVE THE FOLLOWING SPECIFICATIONS:
   - MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI AT 28 DAYS
   - AIR ENTRAINMENT SHALL BE MAINTAINED AT 5% - 7%
   - MAXIMUM SIZE OF AGGREGATE SHALL BE ¾ INCH
   - WATER TO CEMENT RATIO SHALL BE 0.40
   - CEMENT SHALL MEET ASTM C150, TYPE II
   - MIN. CEMENTITIOUS MATERIAL PER CY SHALL BE 660 LBS
   - MAX CEMENT REPLACEMENT AS PER SPECIFICATION
4. TREMIE CONCRETE SHALL HAVE THE FOLLOWING SPECIFICATIONS:
   - MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI AT 28 DAYS
   - AIR ENTRAINMENT SHALL BE MAINTAINED AT 5% - 7%
   - MAXIMUM SIZE OF AGGREGATE SHALL BE $\frac{3}{8}$ INCH
   - WATER TO CEMENT RATIO SHALL BE 0.40
   - CEMENT SHALL MEET ASTM C150, TYPE II
   - MIN. CEMENTITIOUS MATERIAL PER CY SHALL BE 660 LBS
5. MAX CEMENT REPLACEMENT AS PER SPECIFICATION
6. GROUT SHALL BE A HIGH STRENGTH, NON-SHRINK GROUT WITH SALTWATER RESISTANCE.
7. CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS NOTED OTHERWISE
8. ALL EXPOSED EDGES OF CONCRETE AT COLD JOINTS SHALL HAVE A ROUGHENED FINISH AND BE COATED WITH EPOXY BONDING AGENT PRIOR TO CASTING ADJACENT POUR.
9. PROVIDE 1" CLEAR DISTANCE BETWEEN REINFORCEMENT AND HEAD OF PILES.
10. PROVIDE 1" CHAMFER ON ALL EXPOSED EDGES UNLESS NOTED OR DIRECTED OTHERWISE.
11. ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED PRIOR TO ADJACENT CONCRETE POUR.
12. ALL TOP SURFACE SHALL BE BROOM FINISH.
13. REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTHS SHALL BE AS SHOWN IN TABLE:

SCHEDULE OF DEVELOPMENT & LAP SPLICE LENGTHS

BAR SIZE		*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*14*	*18*
BARS OTHER THAN	DEVELOPMENT LENGTH	1'-0"	1'-0"	1'-1"	1'-3"	1'-10"	2'-1"	2'-5"	2'-10"	3'-6"	5'-1"	9'-0"
TOP BARS *	CLASS B LAP SPLICE	1'-4"	1'-4"	1'-5"	1'-8"	2'-5"	2'-9"	3'-1"	3'-8"	4'-7"	-	-
TOP BARS *	DEVELOPMENT LENGTH	1'-0"	1'-1"	1'-5"	1'-8"	2'-5"	2'-9"	3'-1"	3'-8"	4'-7"	6'-7"	11'-8"
	CLASS B LAP SPLICE	1'-4"	1'-5"	1'-10"	2'-2"	3'-2"	3'-7"	4'-1"	4'-10"	5'-11"	-	-
STANDARD HOOKS IN TENSION		6"	8"	11"	1'-1"	1'-3"	1'-5"	1'-7"	1'-10"	2'-0"	2'-5"	3'-2"
STRAIGHT BARS IN COMPRESSION		8"	9"	11"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-1"	2'-6"	3'-5"
* NOTE: "TOP BARS" ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW.												
SCHEDULE IS VALID FOR THE FOLLOWING CONDITIONS:												
COMPRESSIVE STRENGTH OF CONCRETE:	f'_c = 5,000 PSI				YIELD STRENGTH OF REINFORCEMENT:			f_y = 60 KSI				
CLEAR COVER ON BARS:	*CLR* = 3.00 IN.				MINIMUM BAR SPACING (O.C.):			*SP* = 6.00 IN.				
NON-EPOXY-COATED BARS.												
NORMAL-WEIGHT CONCRETE.												

LEGEND

100YR	100 YR FLOOD LINE
P	PROPERTY LINE
	MEAN LOW WATER
E	ELECTRICAL LINE
U/E	UNDERGROUND ELECTRICAL
	AIR LINE (ABANDONED)
	FIRE HYDRANT
	LIGHTPOLE

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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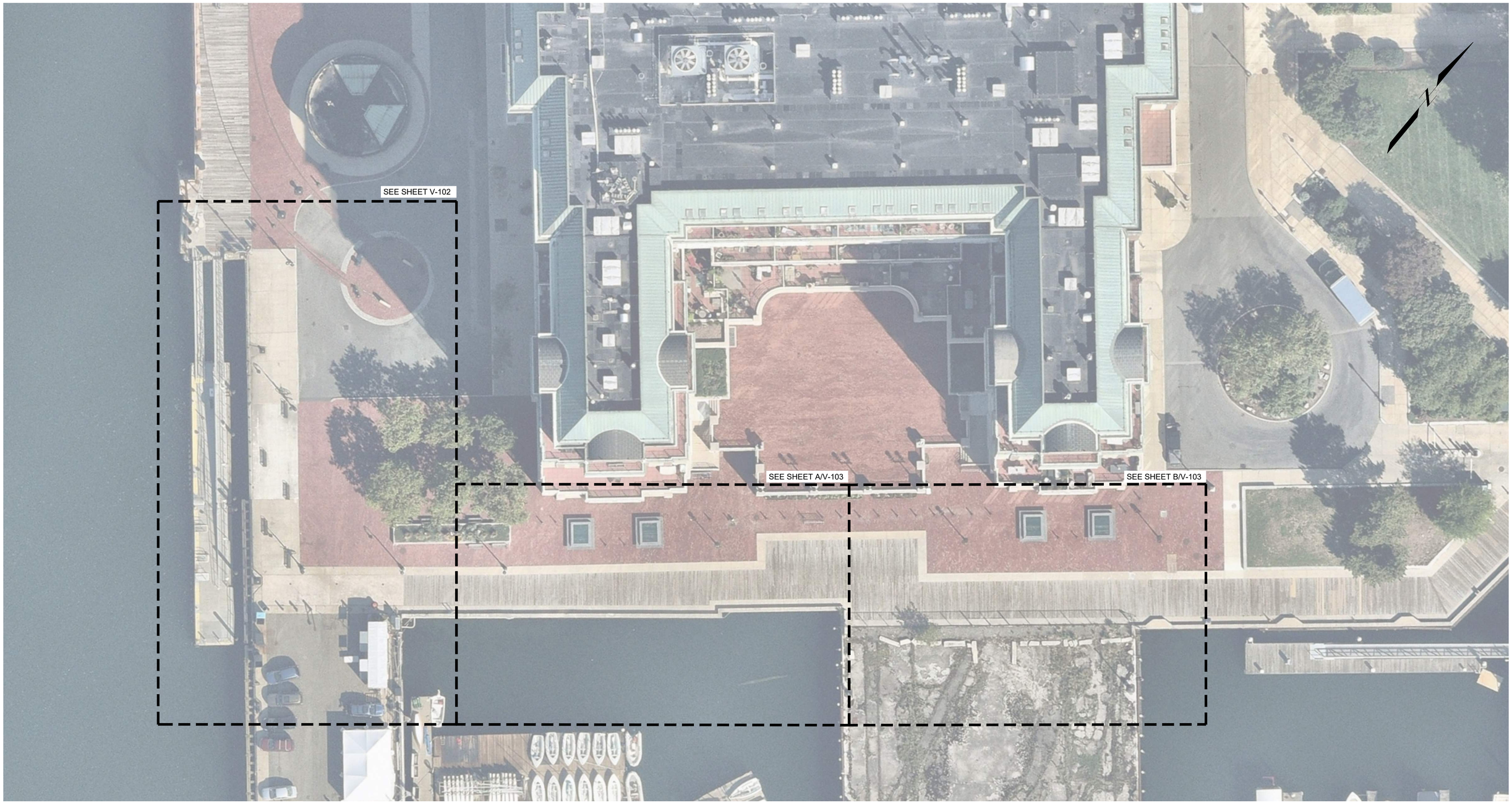
BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME: **GENERAL NOTES**
SHEET NO.: **G-002**

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0 20 40
SCALE: 1" = 20'

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

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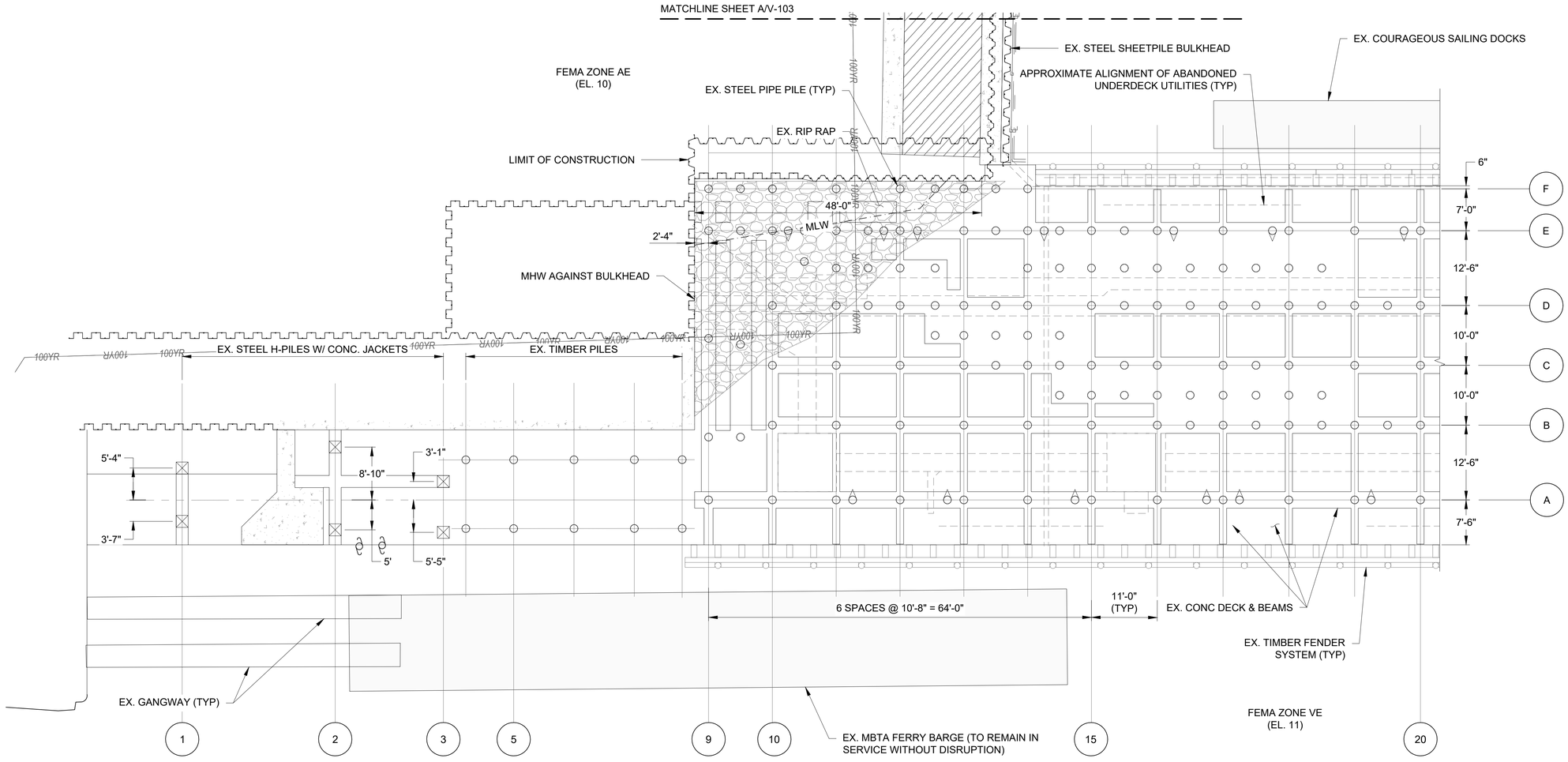
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CHARLESTOWN, MA

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0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
EXISTING CONDITIONS OVERALL PLAN

SHEET NO.
V-101

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EXISTING CONDITIONS - PLAN I

SCALE: 1"=10'-0"

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

0 10 20
SCALE: 1" = 10'

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
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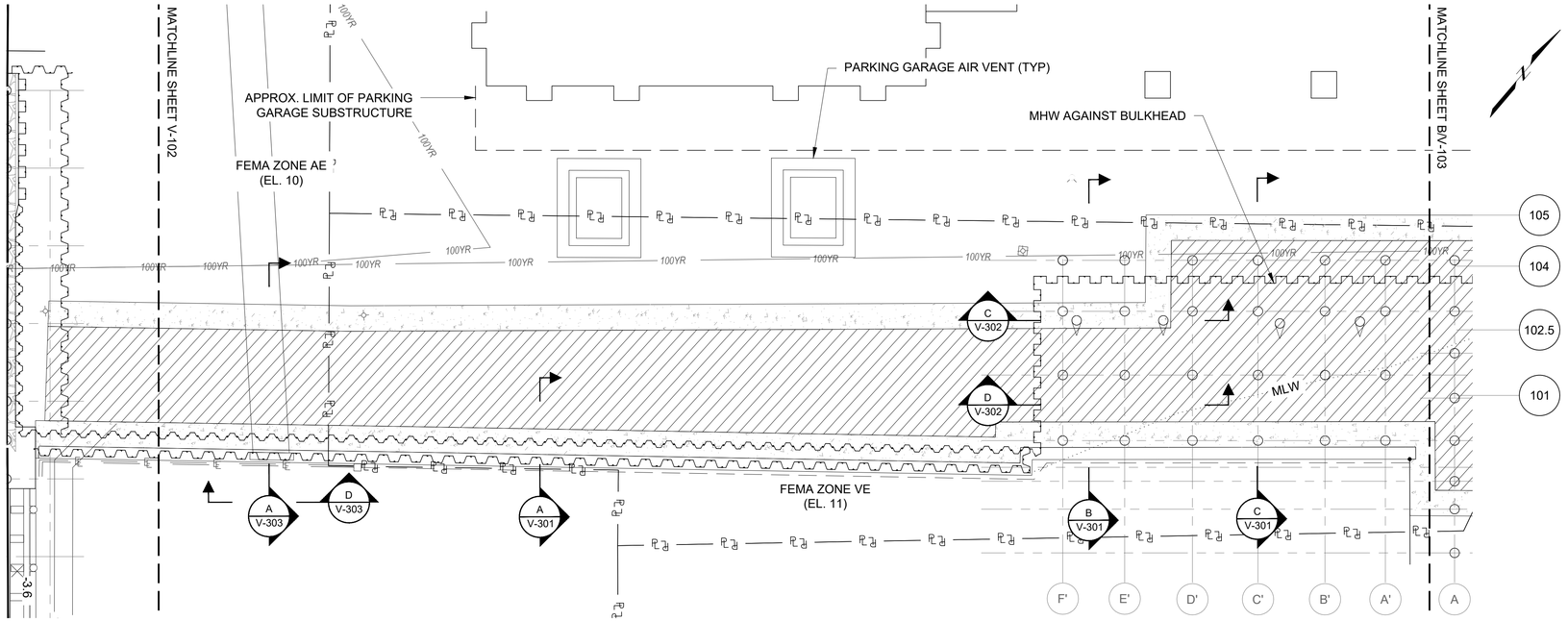
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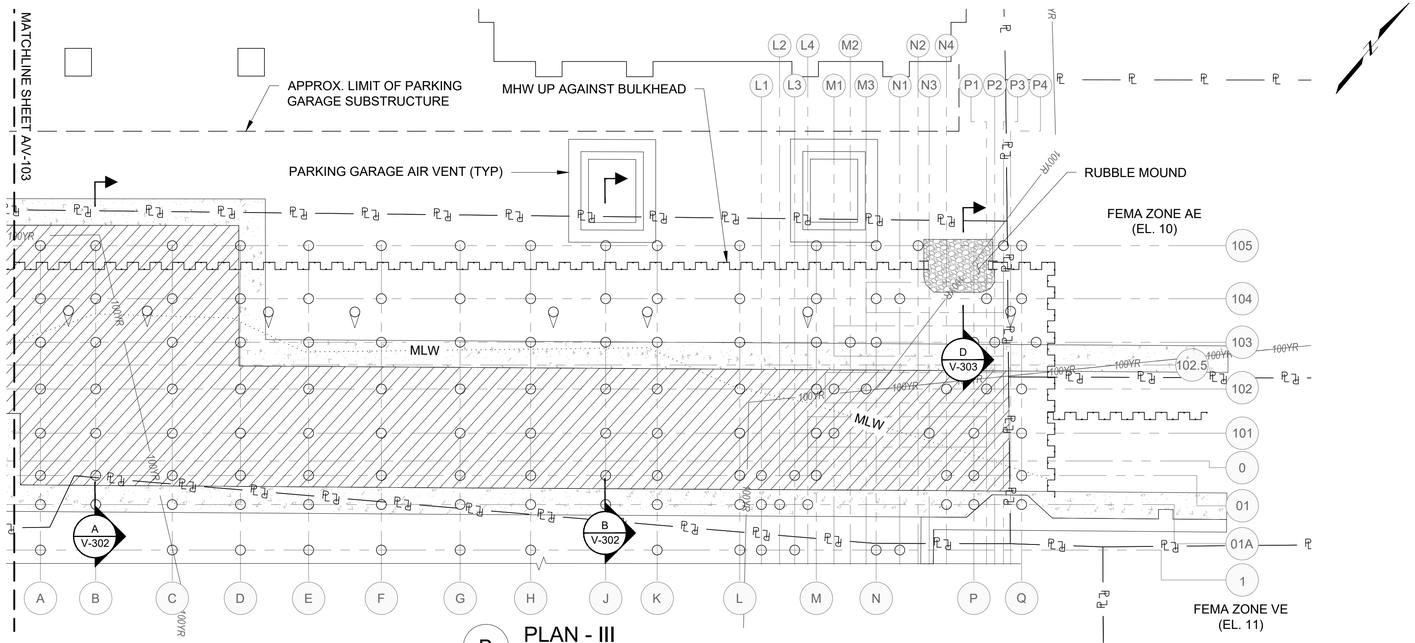
SHEET NAME
EXISTING CONDITIONS PLAN - SHEET 1 OF 2

SHEET NO.
V-102

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A PLAN - II
EXISTING CONDITIONS
SCALE: 1" = 10'



B PLAN - III
EXISTING CONDITIONS
SCALE: 1" = 10'

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

0 10 20
SCALE: 1" = 10'

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

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Drawn:	JSF
Checked:	DBR
Approved:	DBR
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FLAGSHIP WHARF BULKHEAD REPAIRS

BRA PROJECT No.

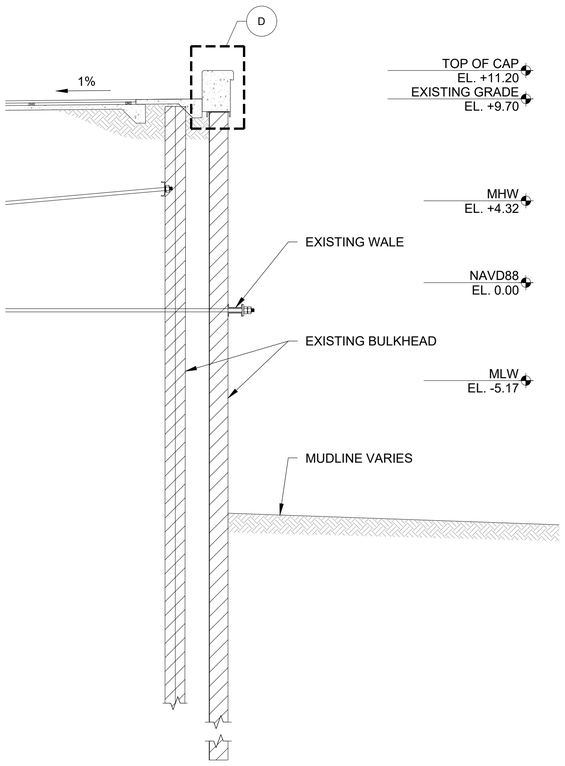
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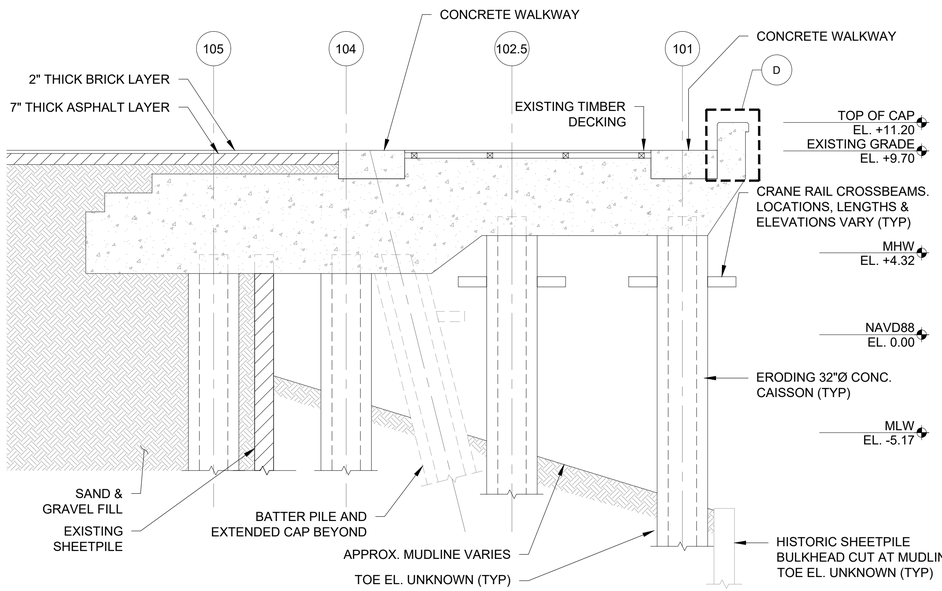
SHEET NAME
EXISTING CONDITIONS PLAN - SHEET 2 OF 2

SHEET NO.
V-103

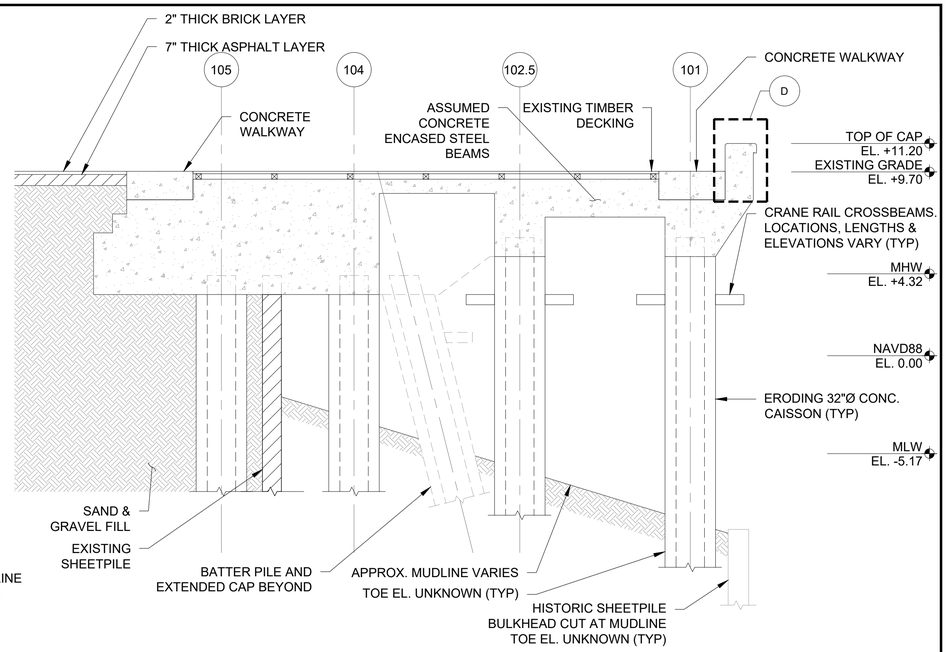
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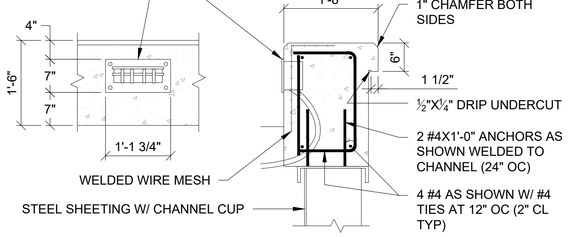
A SECTION
V-103 TYPICAL EXISTING BULKHEAD SCALE: 1/4" = 1'-0"



B SECTION
V-103 EXISTING BULKHEAD SCALE: 1/4" = 1'-0"



C SECTION
V-103 EXISTING BULKHEAD SCALE: 1/4" = 1'-0"



D DETAIL
CONCRETE CURB &
RECESSED WALL LIGHT SCALE: 3/4" = 1'-0"

0 1 2
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
(774)277-6001

BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

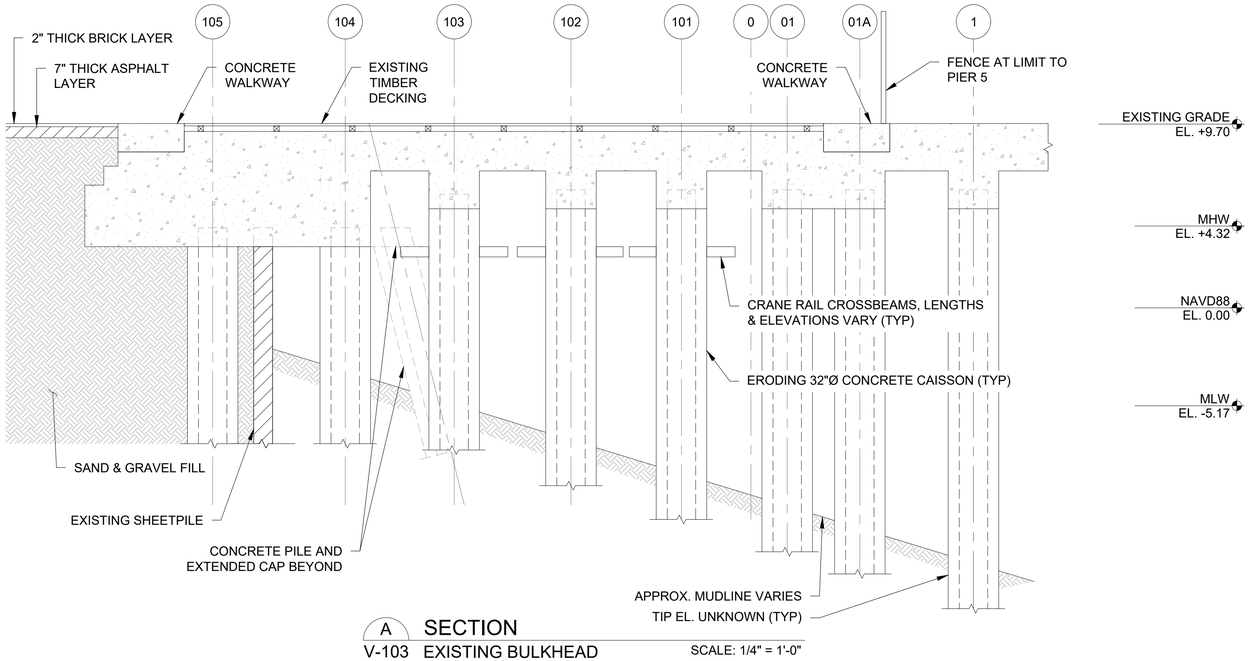
NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
EXISTING SECTIONS - SHEET 1 OF 3

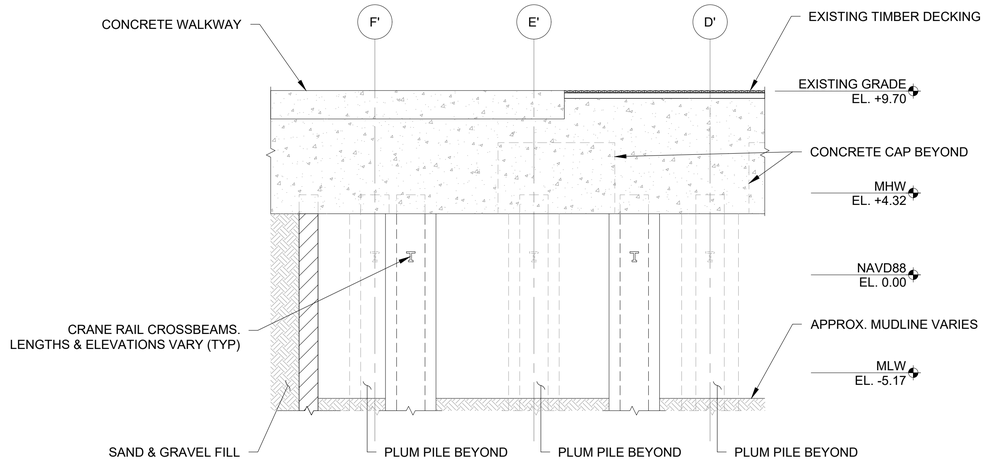
SHEET NO.
V-301

FOR BID
NOT FOR CONSTRUCTION

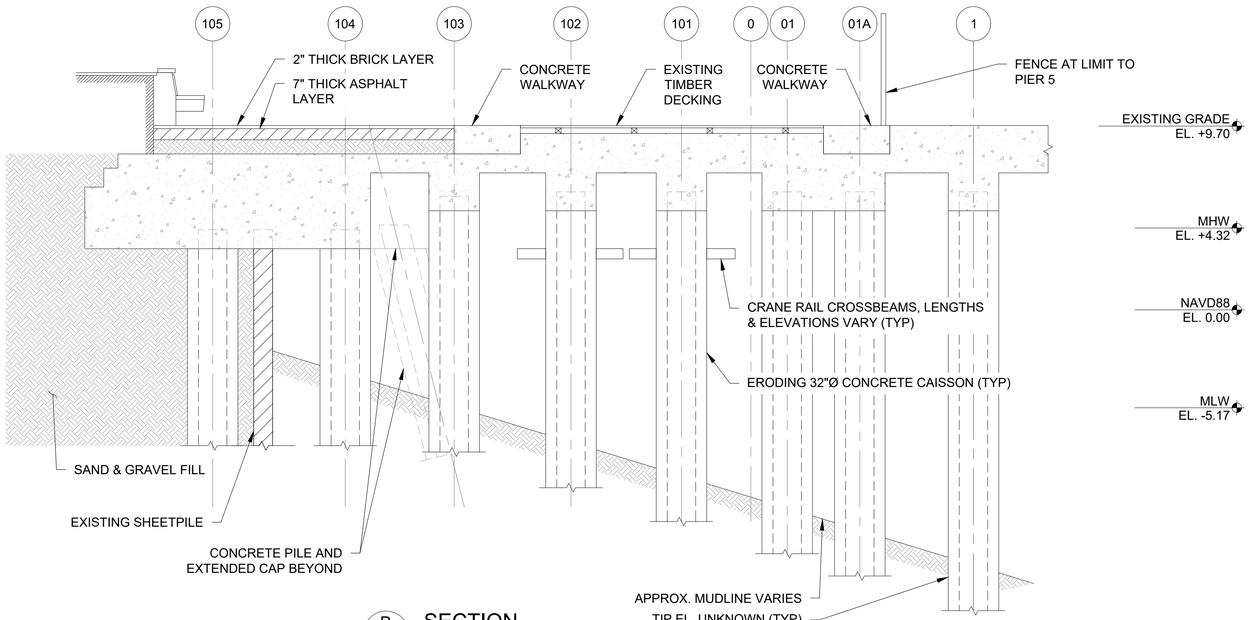
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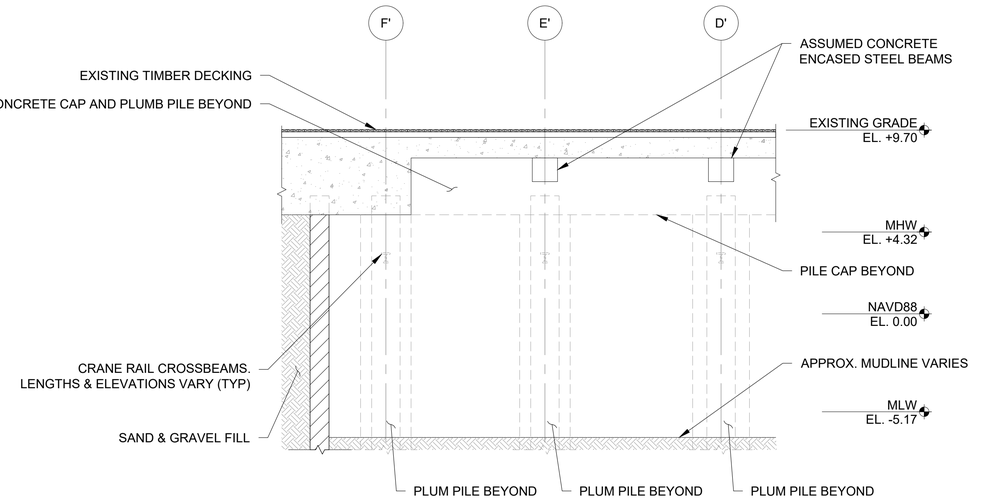
A SECTION
V-103 EXISTING BULKHEAD
SCALE: 1/4" = 1'-0"



C SECTION
V-103 EXISTING BULKHEAD
SCALE: 1/4" = 1'-0"



B SECTION
V-103 EXISTING BULKHEAD
SCALE: 1/4" = 1'-0"



D SECTION
V-103 EXISTING BULKHEAD
SCALE: 1/4" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 1 2
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
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BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

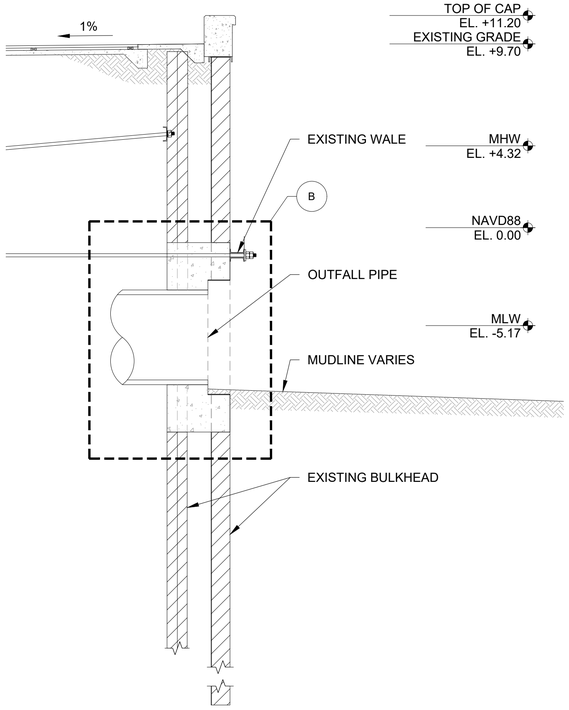
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

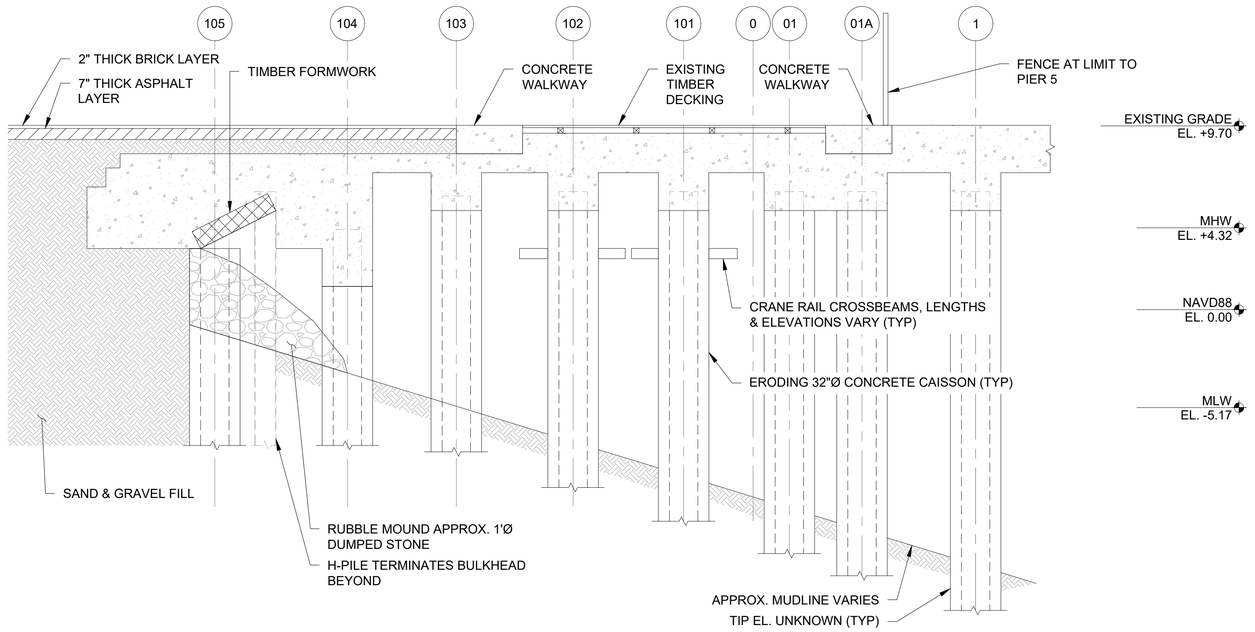
SHEET NAME
EXISTING SECTIONS - SHEET 2 OF 3

SHEET NO.
V-302

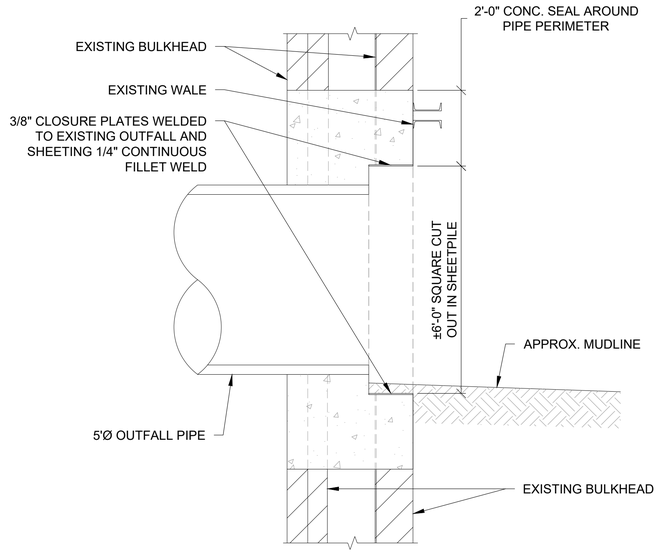
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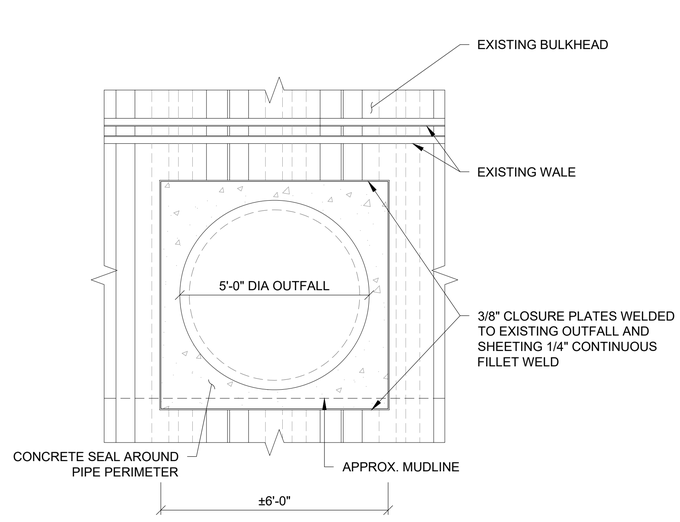
A SECTION
V-103 EXISTING BULKHEAD AT OUTFALL
SCALE: 1/4" = 1'-0"



B SECTION
V-103 EXISTING BULKHEAD AT RUBBLE MOUND
SCALE: 1/4" = 1'-0"



C DETAIL
EXISTING OUTFALL PIPE
SCALE: 1/2" = 1'-0"



D ELEVATION
EXISTING OUTFALL PIPE
SCALE: 1/2" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 2 4
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
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BOSTON PLANNING & DEVELOPMENT AGENCY
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BOSTON, MA
02201

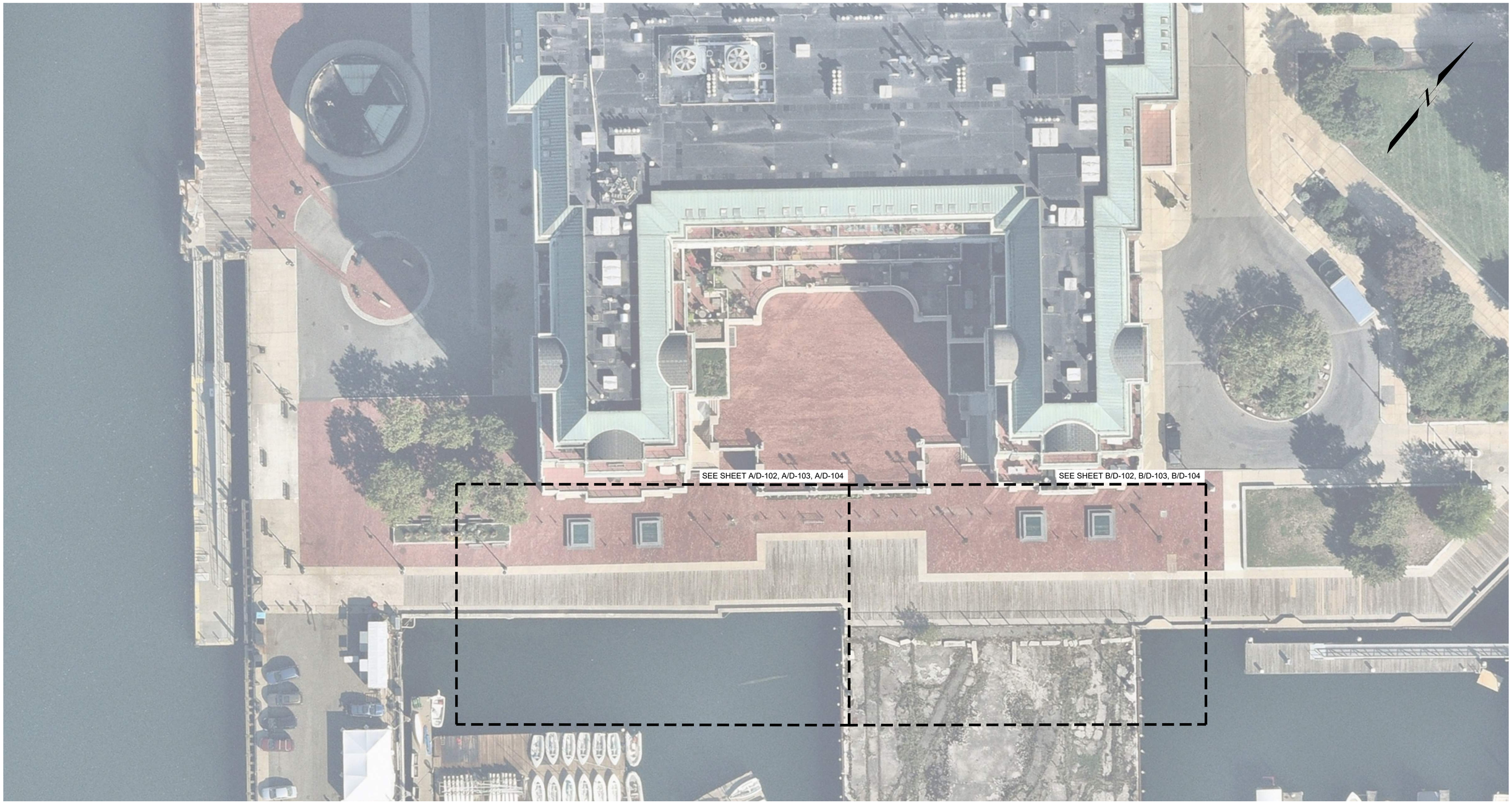
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
EXISTING SECTIONS - SHEET 3 OF 3

SHEET NO.
V-303

SCHELP_MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\V-303_Existing Sections.dwg - 11/15/2026



FOR BID
NOT FOR CONSTRUCTION

0 20 40
SCALE: 1" = 20'

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
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BOSTON, MA 02201

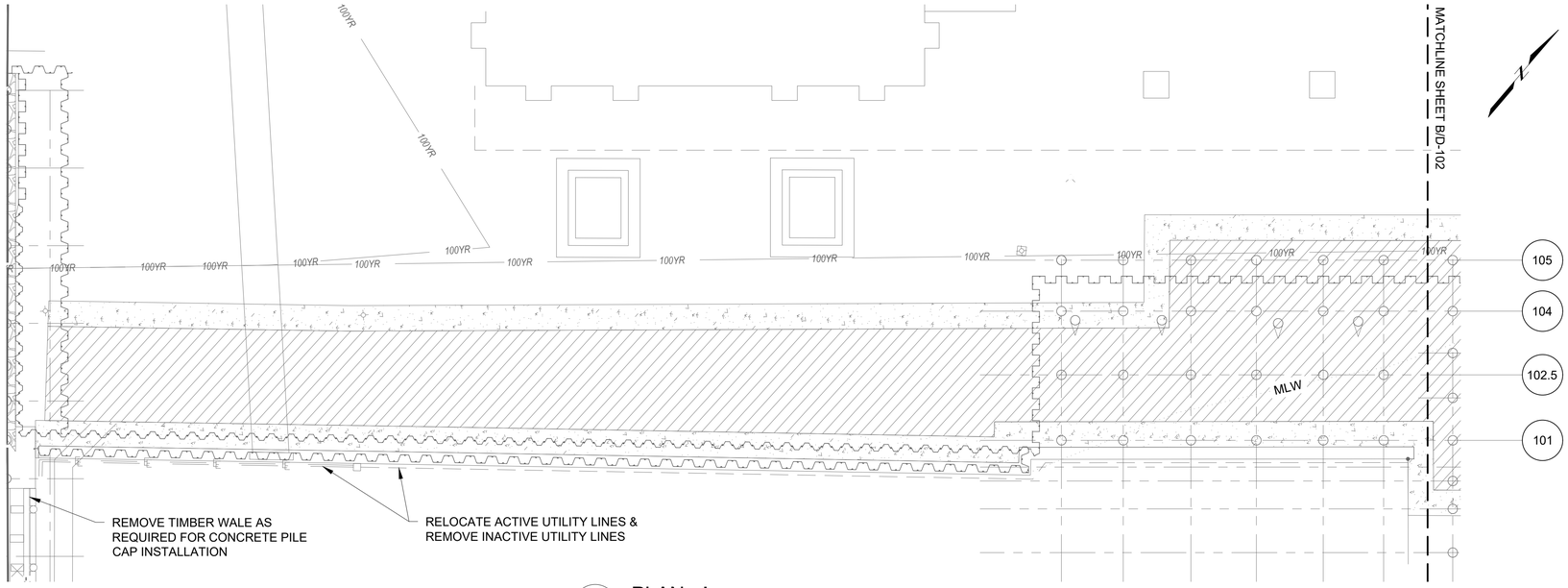
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

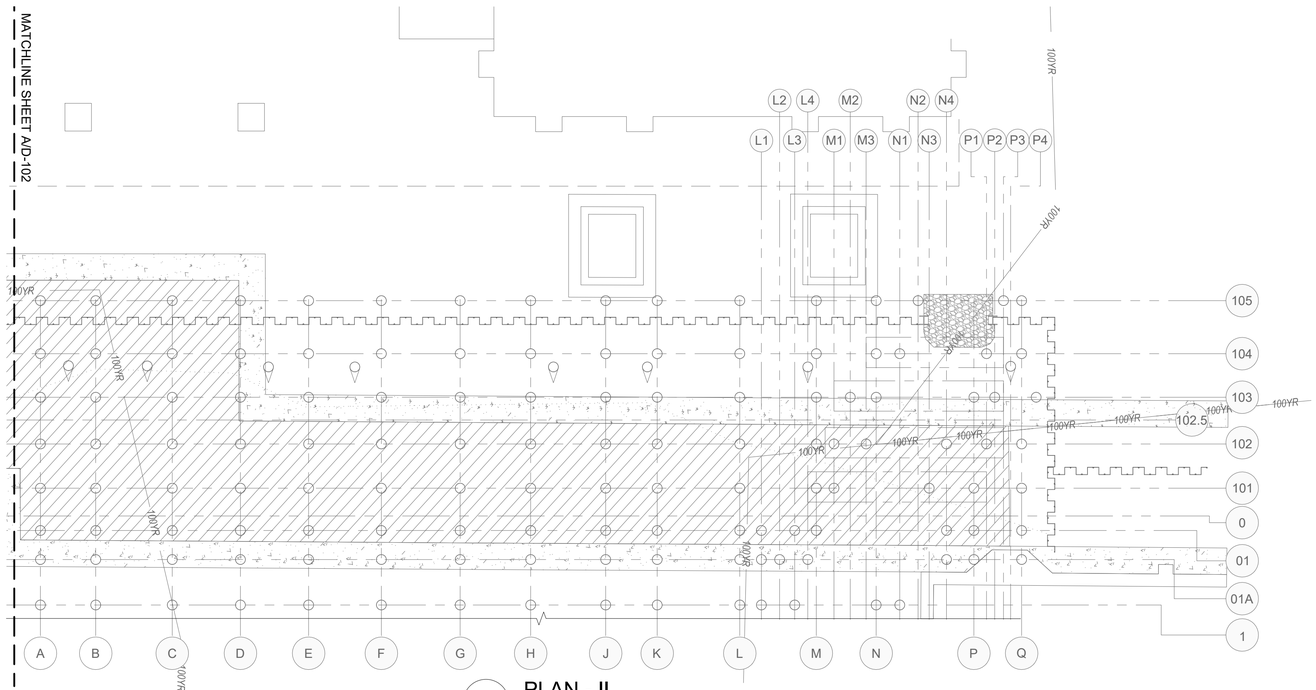
SHEET NAME
DEMOLITION OVERALL PLAN

SHEET NO.
D-101

SCHELP, MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\D-101_Demolition Overall Plan.dwg - 11/5/2026



A PLAN - I
DEMOLITION - BASE BID
SCALE: 1" = 10'



B PLAN - II
DEMOLITION - BASE BID
SCALE: 1" = 10'

FOR BID
NOT FOR CONSTRUCTION

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

0 10 20
SCALE: 1" = 10'

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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FRANKLIN, MA 02038
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BOSTON, MA
02201

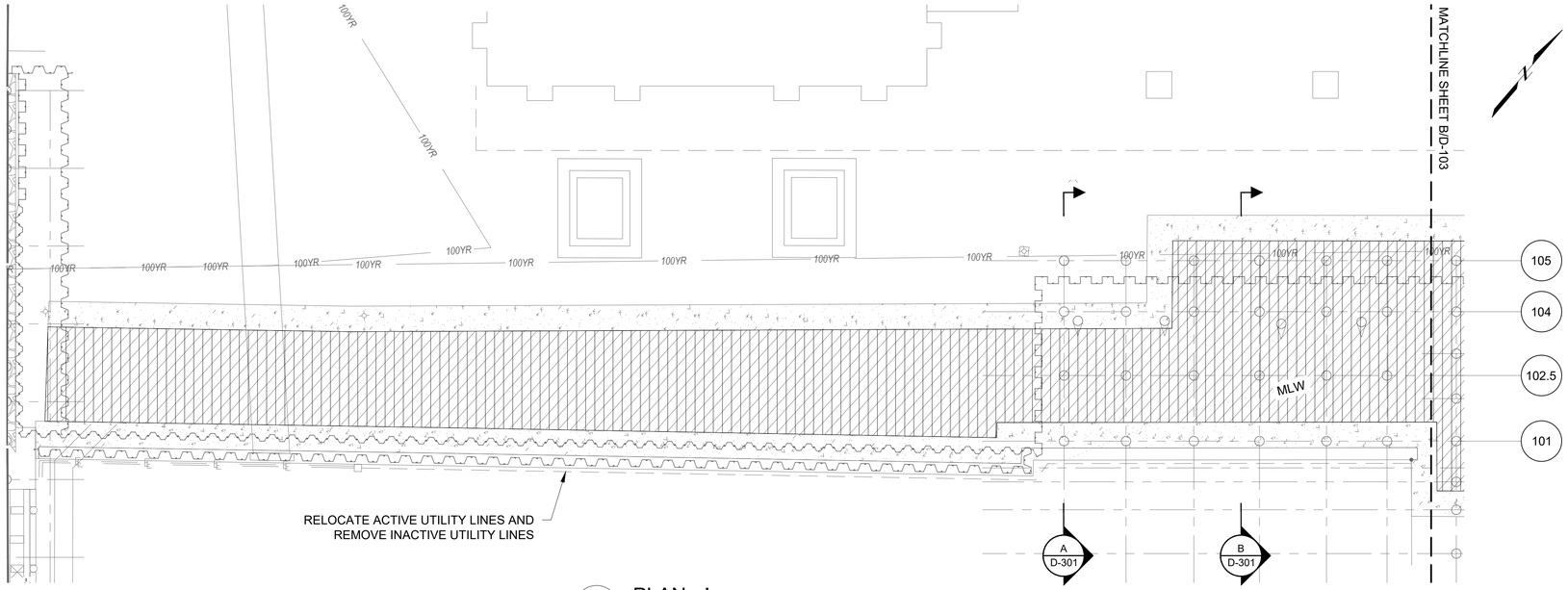
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

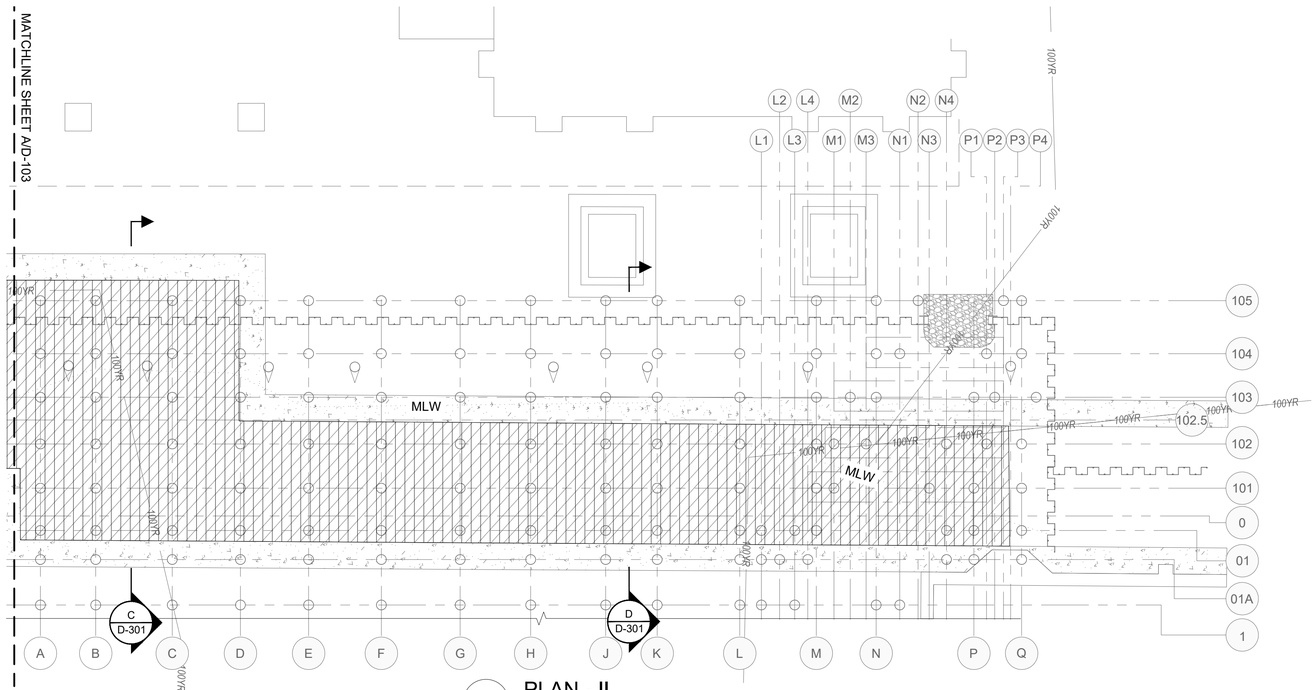
SHEET NAME
DEMOLITION PLAN - BASE BID

SHEET NO.
D-102

SCHELP_MORITZ_B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\D-102_Demolition Plan_Base Bid.dwg - 11/15/2026



A PLAN - I
DEMOLITION - ADD ALT 1 SCALE: 1" = 10'



B PLAN - II
DEMOLITION - ADD ALT 1 SCALE: 1" = 10'

LEGEND

-CONCRETE / SURFACE REMOVAL FOR SHEETPILE INSTALLATION

-EXISTING TIMBER DECKING REMOVAL

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

0 10 20
SCALE: 1" = 10'

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
(774)277-6001

BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA
02201

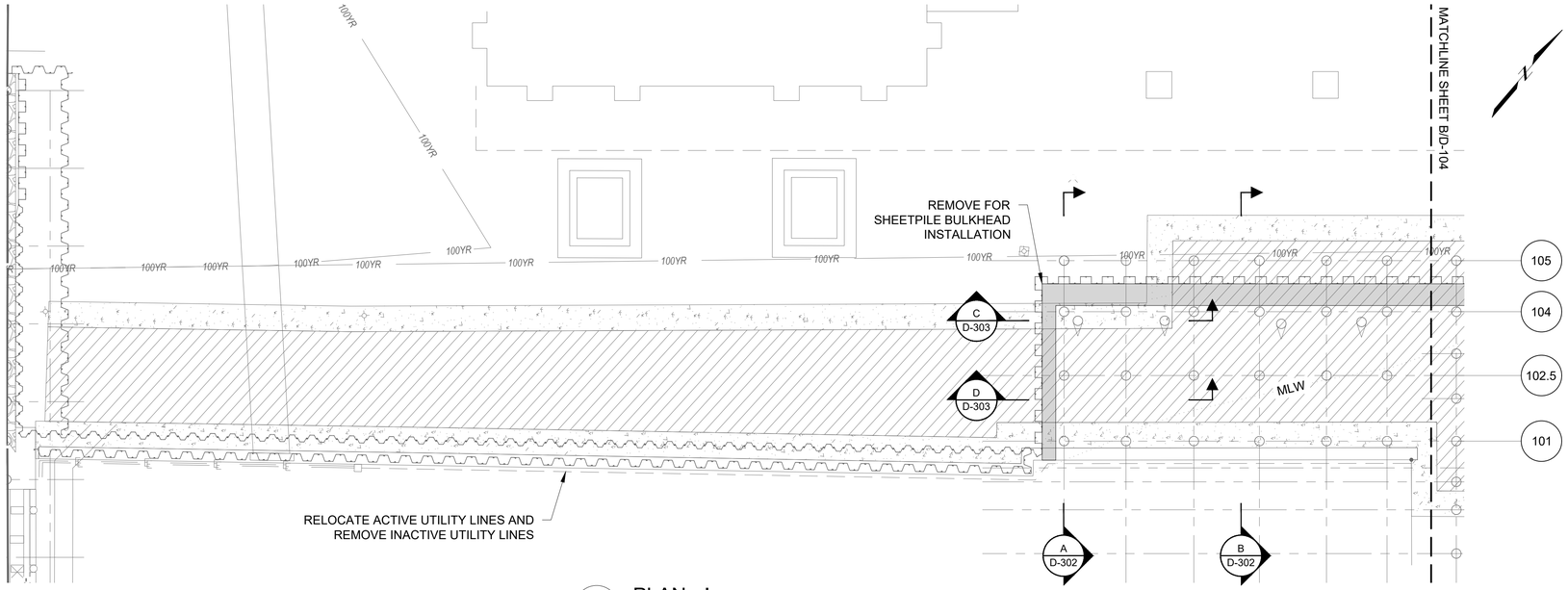
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

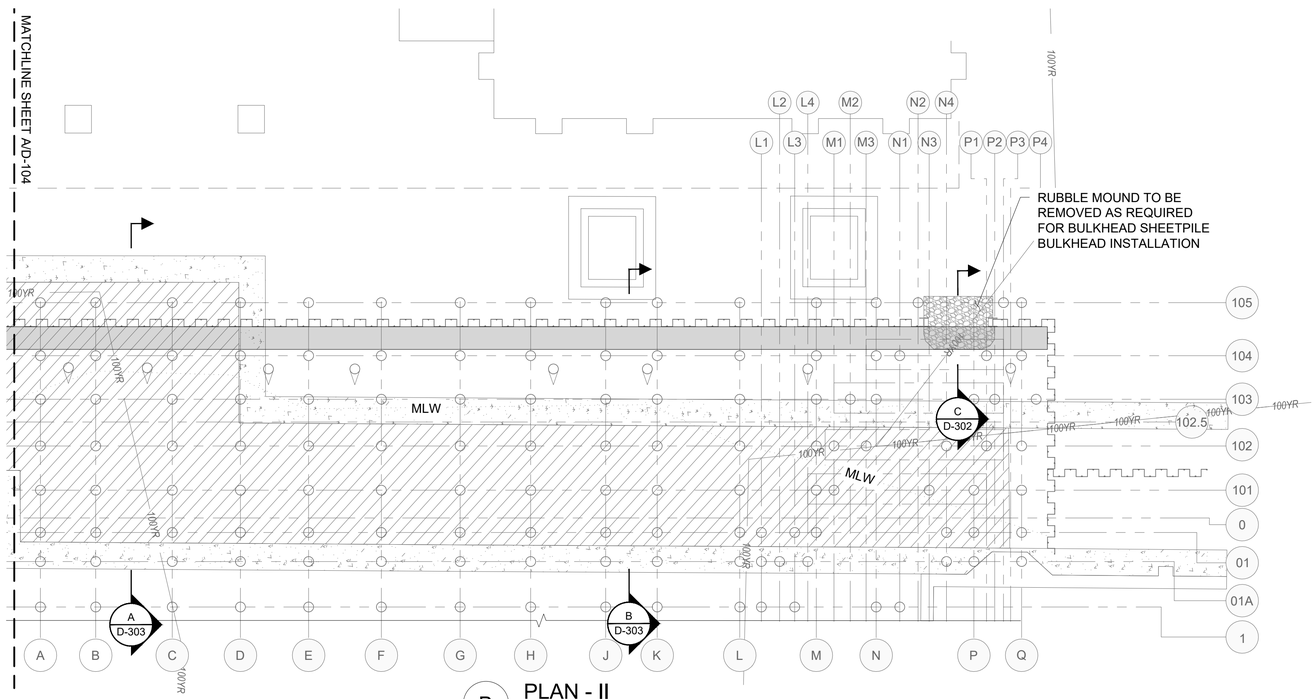
SHEET NAME
DEMOLITION PLAN - ADD ALT 1

SHEET NO.
D-103

SCHELP_MORITZ_B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\D-103_Demolition Plan_Add Alt 1.dwg - 11/15/2026



A PLAN - I
DEMOLITION - ADD ALT 2 SCALE: 1" = 10'



B PLAN - II
DEMOLITION - ADD ALT 2 SCALE: 1" = 10'

LEGEND

-CONCRETE / SURFACE REMOVAL FOR SHEETPILE INSTALLATION

-EXISTING TIMBER DECKING REMOVAL

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

0 10 20
SCALE: 1" = 10'

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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ONE CITY HALL SQUARE
BOSTON, MA 02201

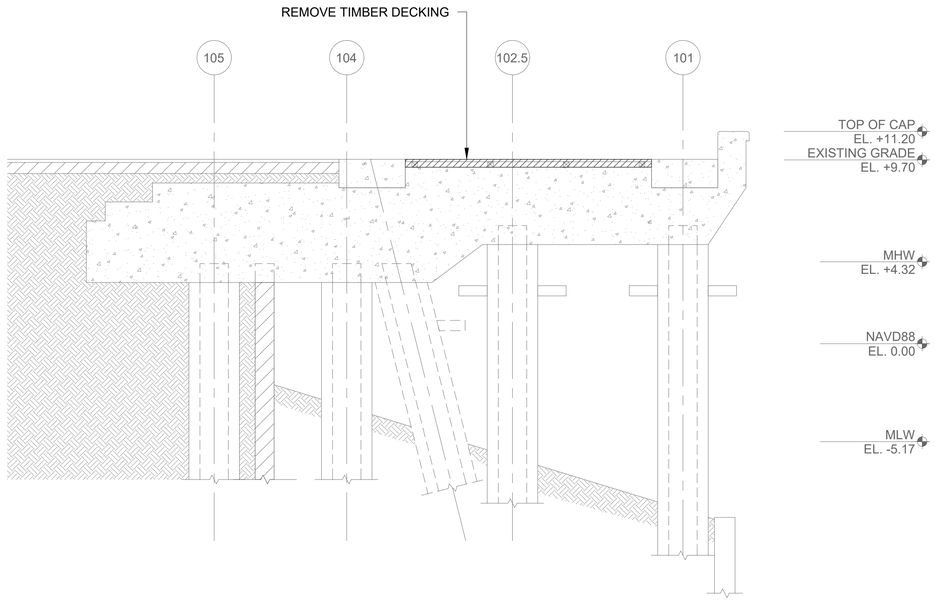
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

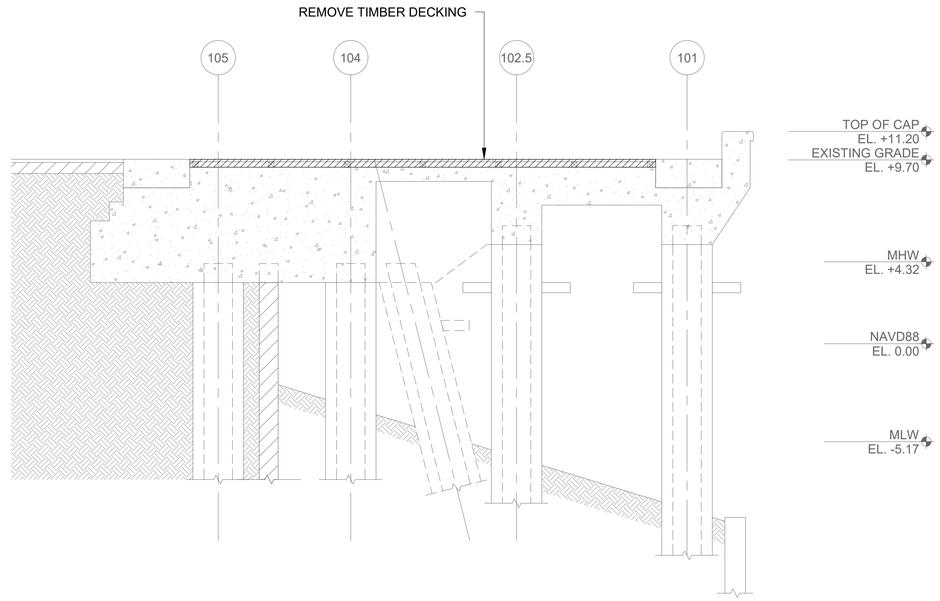
SHEET NAME
DEMOLITION PLAN - ADD ALT 2

SHEET NO.
D-104

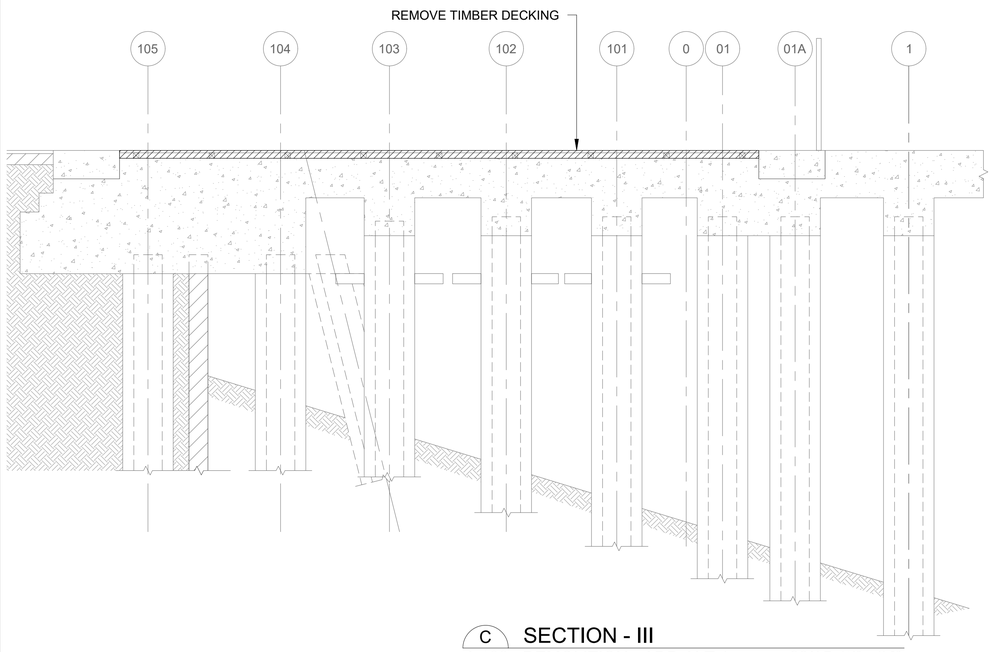
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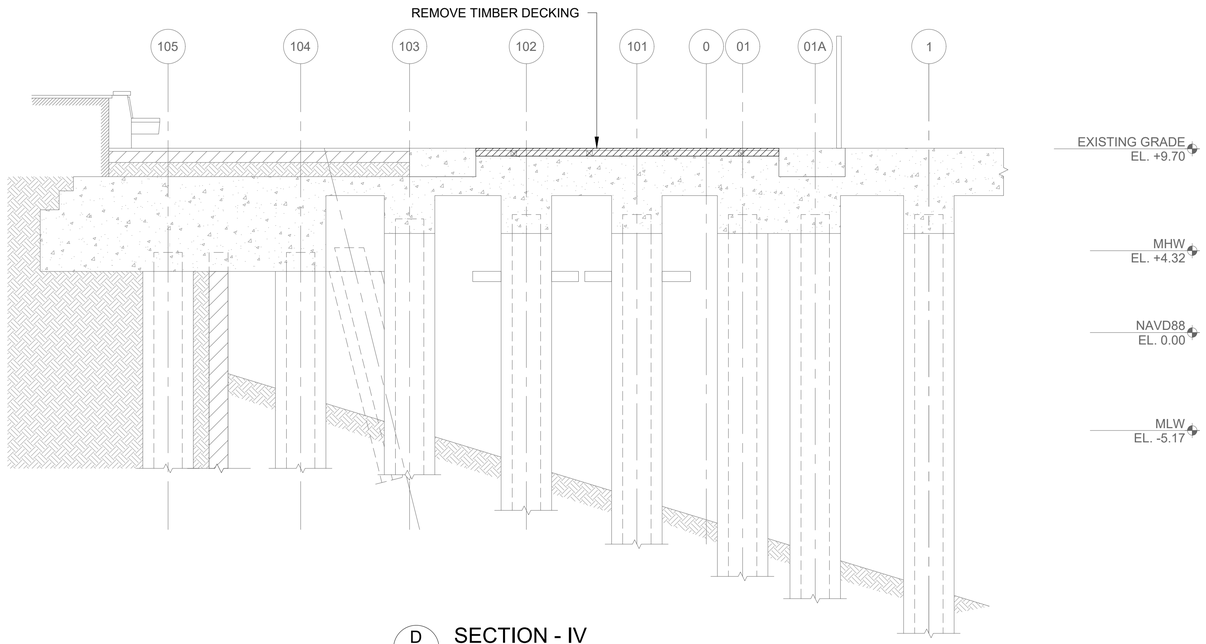
A SECTION - I
D-103 DEMOLITION - ADD ALT 1 SCALE: 1/4" = 1'-0"



B SECTION - II
D-103 DEMOLITION - ADD ALT 1 SCALE: 1/4" = 1'-0"



C SECTION - III
D-103 DEMOLITION - ADD ALT 1 SCALE: 1/4" = 1'-0"



D SECTION - IV
D-103 DEMOLITION - ADD ALT 1 SCALE: 1/4" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 1 2
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
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BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

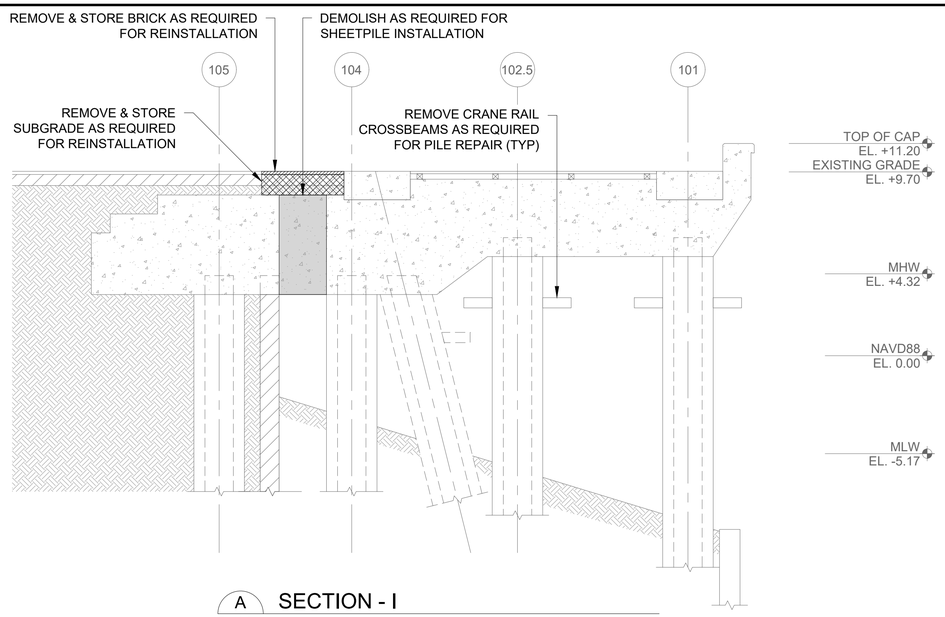
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
DEMOLITION SECTIONS - ADD ALT 1

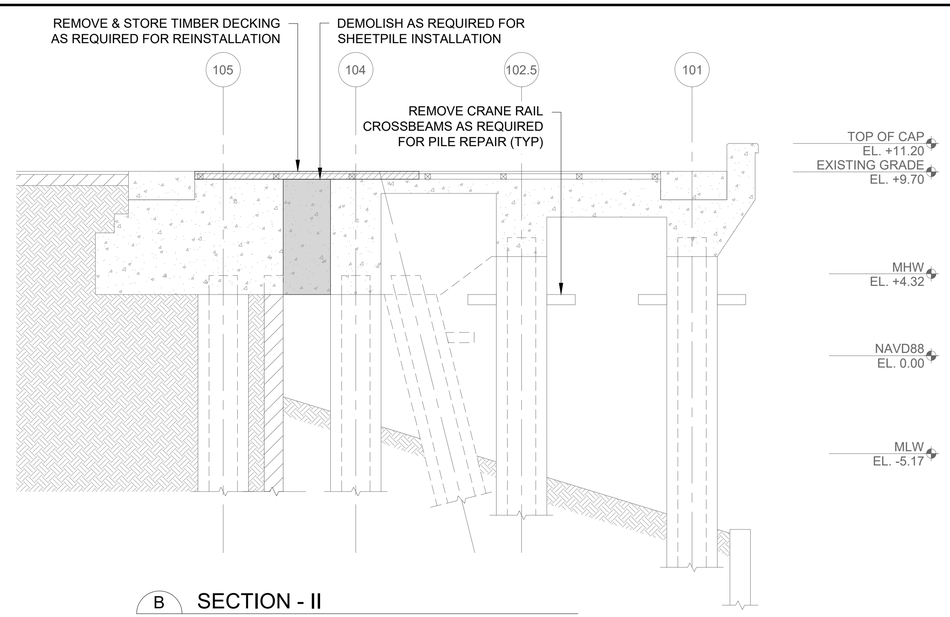
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D-301

SCHELP, MCRITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\D-301_Demolition Sections.dwg - 11/15/2026



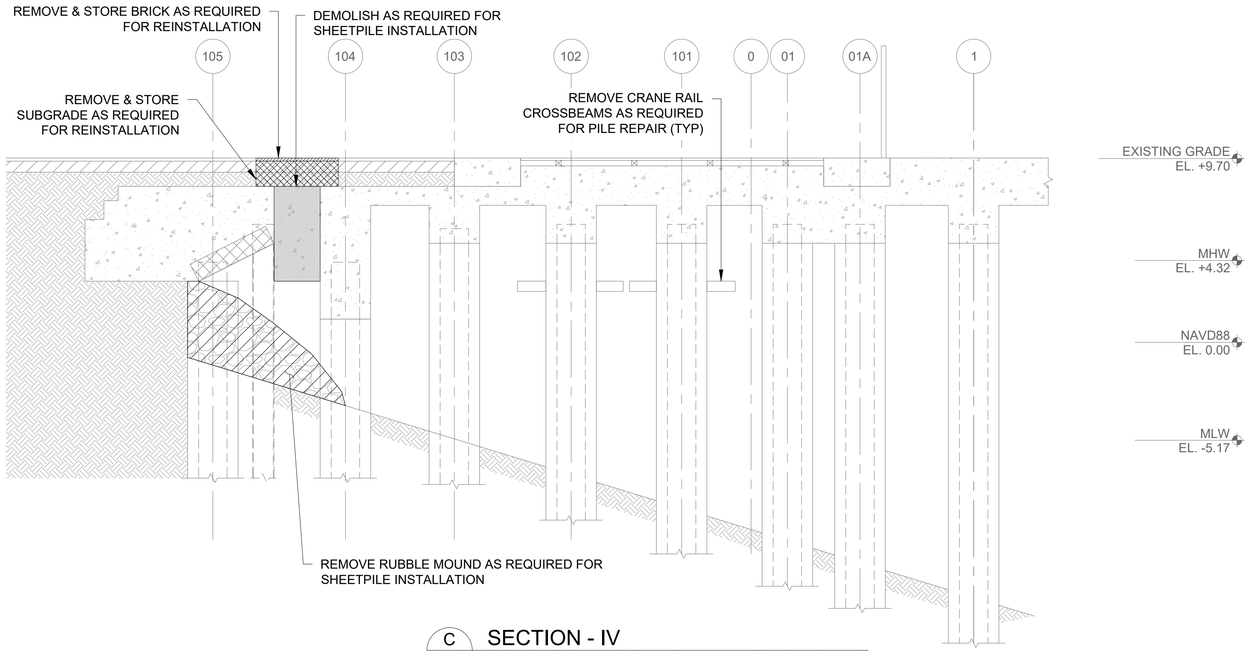
A SECTION - I

D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"



B SECTION - II

D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"



C SECTION - IV

D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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ONE CITY HALL SQUARE
BOSTON, MA 02201

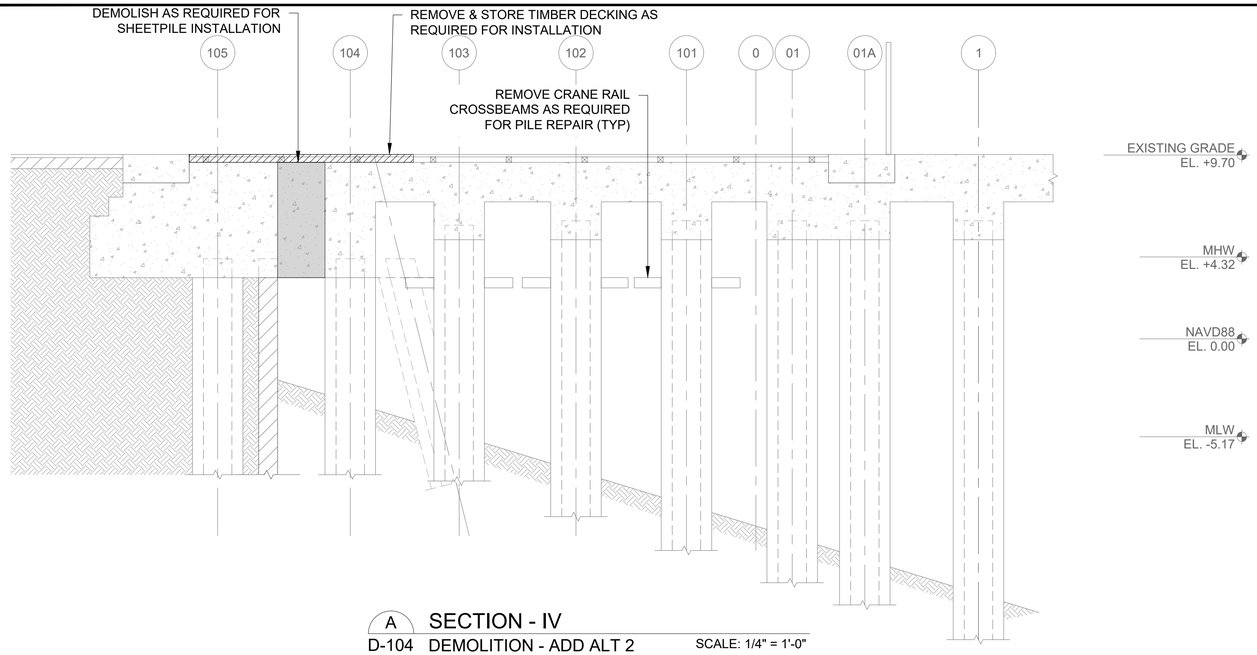
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

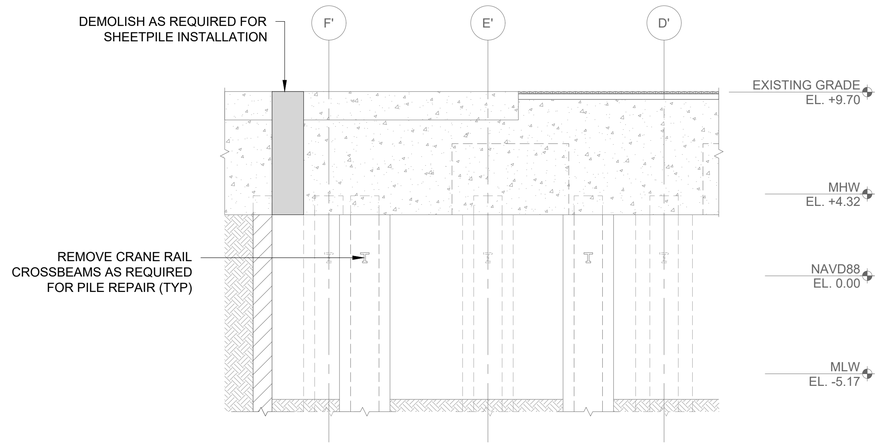
SHEET NAME
DEMOLITION SECTIONS - ADD ALT 2 - SHEET 1 OF 2

SHEET NO.
D-302

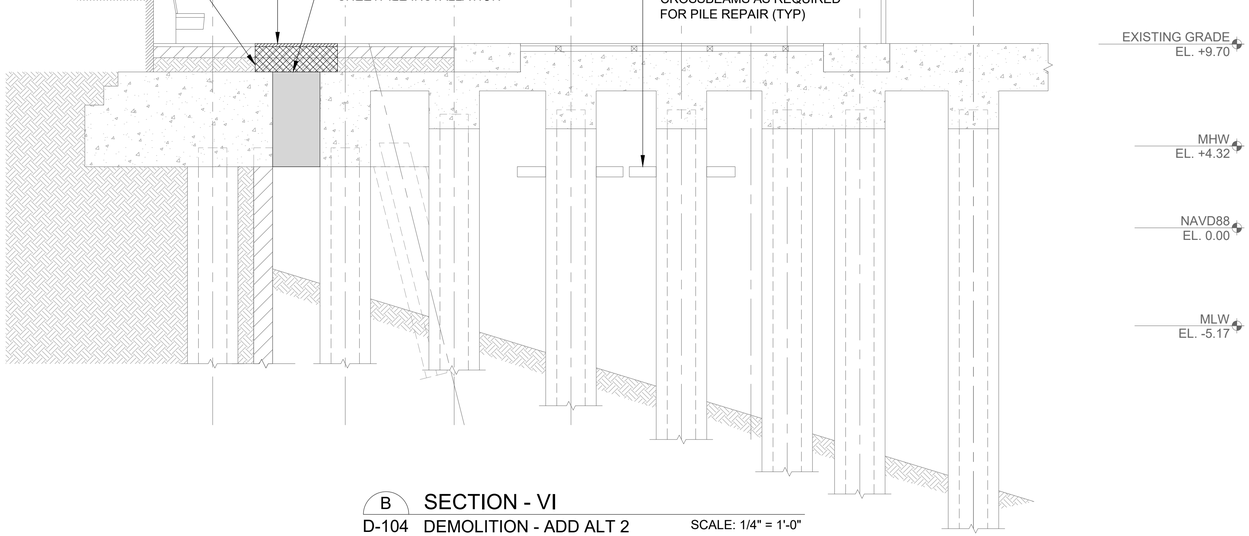
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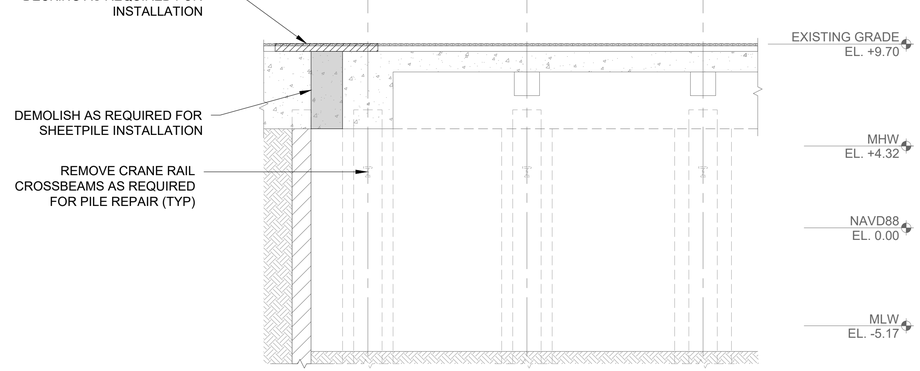
A SECTION - IV
D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"



C SECTION - V
D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"



B SECTION - VI
D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"



D SECTION - VII
D-104 DEMOLITION - ADD ALT 2 SCALE: 1/4" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 1 2
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
(774)277-6001

BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

FLAGSHIP WHARF BULKHEAD REPAIRS

BRA PROJECT No.

CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

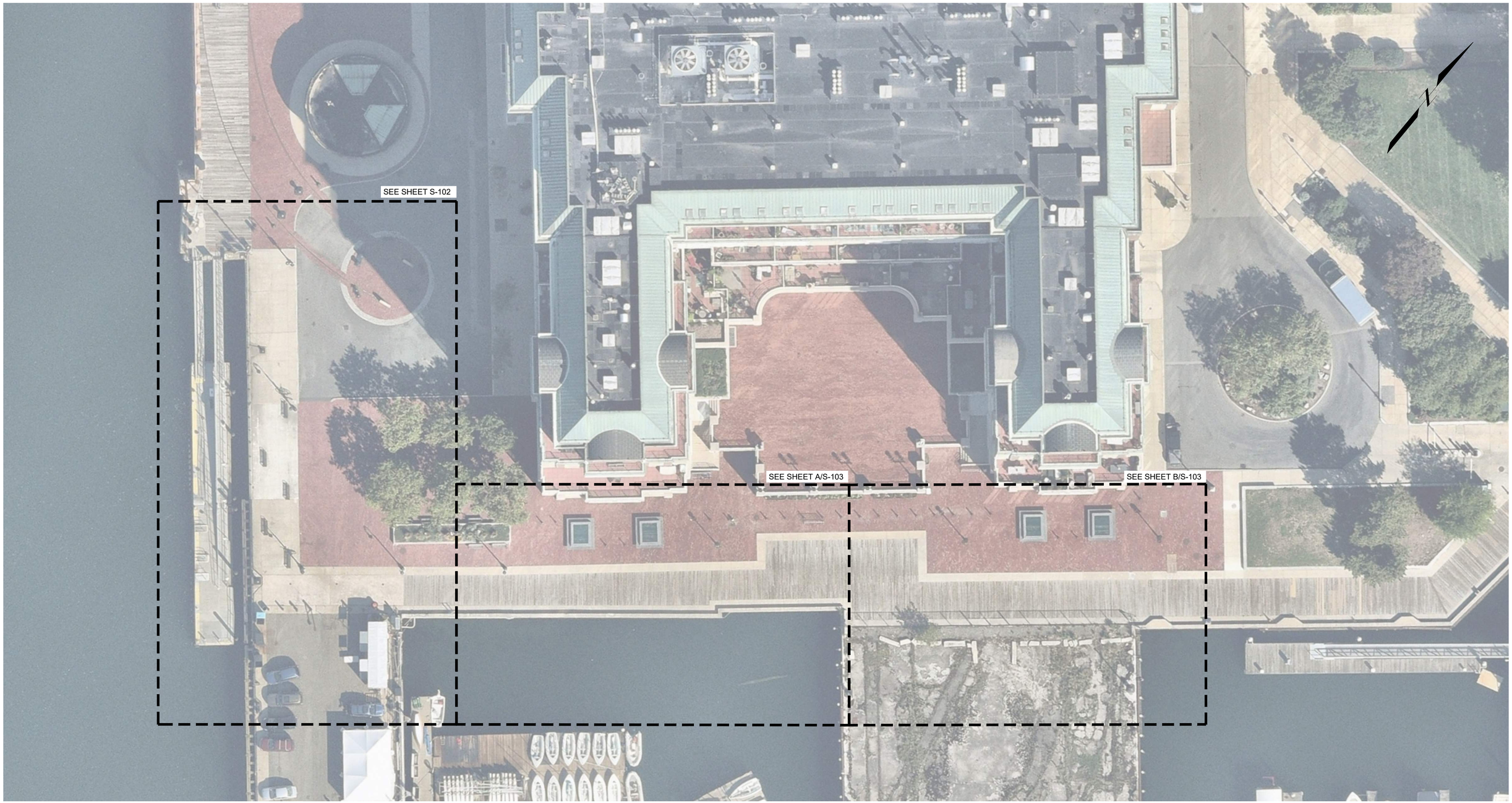
SHEET NAME

DEMOLITION SECTIONS - ADD ALT 2 - SHEET 2 OF 2

SHEET NO.

D-303

SCHELP, MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\DesignSheets\D-303_Demolition Sections_Add Alt 2.dwg - 11/15/2026



FOR BID
NOT FOR CONSTRUCTION

0 20 40
SCALE: 1" = 20'

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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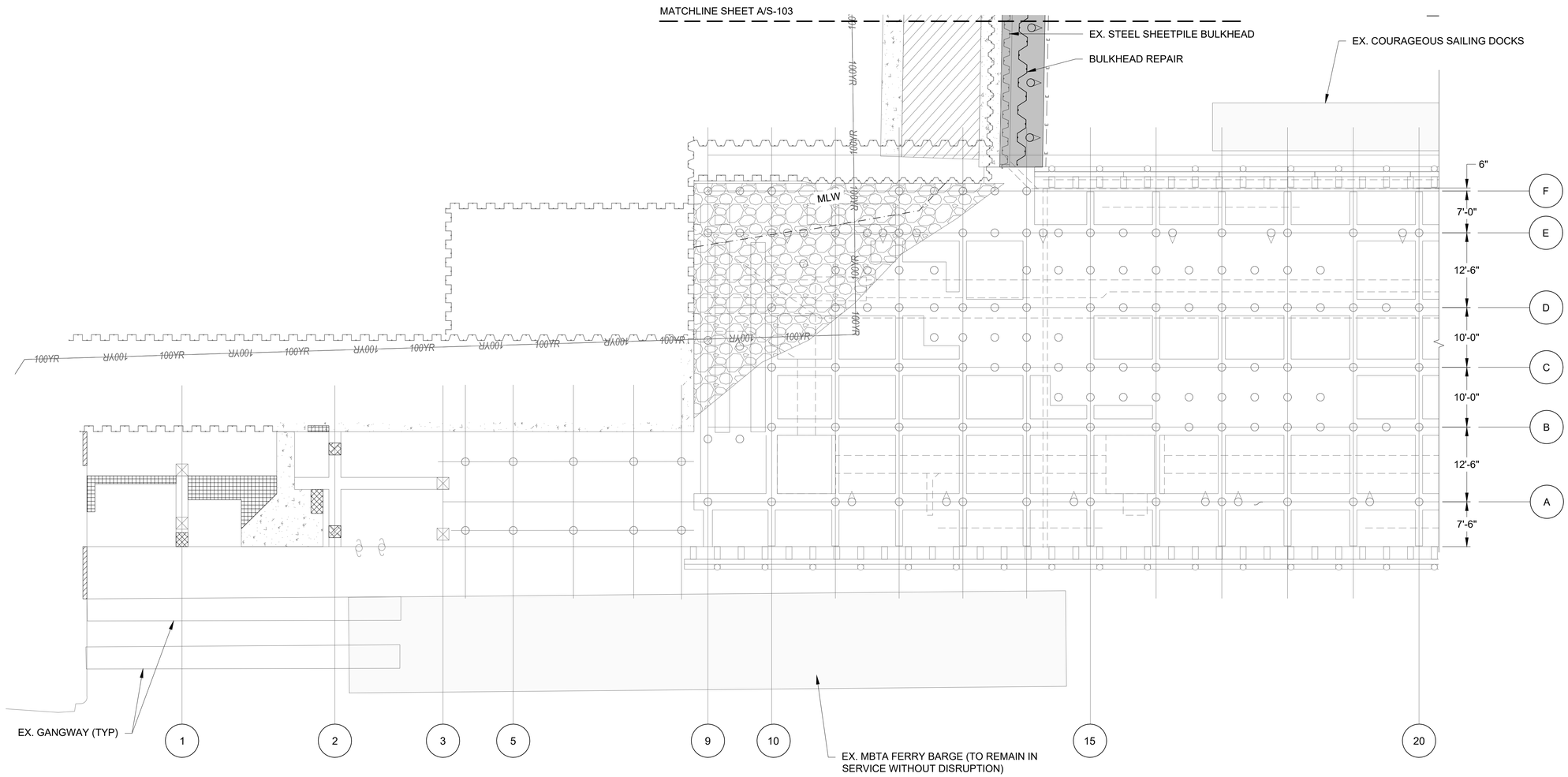
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
PROPOSED CONDITIONS OVERALL PLAN

SHEET NO.
S-101

SCHELP, MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-101 Proposed Conditions Overall Plan.dwg - 11/15/2026



LEGEND

-VERTICAL ONE FACE CONCRETE REPAIR - SEE DETAIL D/S-301

-VERTICAL TWO FACE CONCRETE REPAIR - SEE DETAIL F/S-301

-OVERHEAD CONCRETE REPAIR - SEE DETAIL E/S-301

-CONCRETE PILE REPAIR - SEE DETAIL H/S-301

TIDAL DATUM

MHHW	+4.77
MHW	+4.32
NAVD88	0.00
NGVD29	-0.83
MLW	-5.17
MLLW	-5.50

0 10 20
SCALE: 1" = 10'

PLAN - I
PROPOSED CONDITIONS - BASE BID SCALE: 1" = 10'

APPROXIMATE CONCRETE REPAIR QUANTITIES

	SQ. FT.	DEPTH (FT)
VERTICAL ONE FACE REPAIR	54	0.67
VERTICAL TWO FACE REPAIR	36	0.67
OVERHEAD REPAIRS	86	0.67
PILE REPAIRS	60	0.67

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
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Designed:	MS
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Checked:	DBR
Approved:	DBR
P.E. No:	
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02201

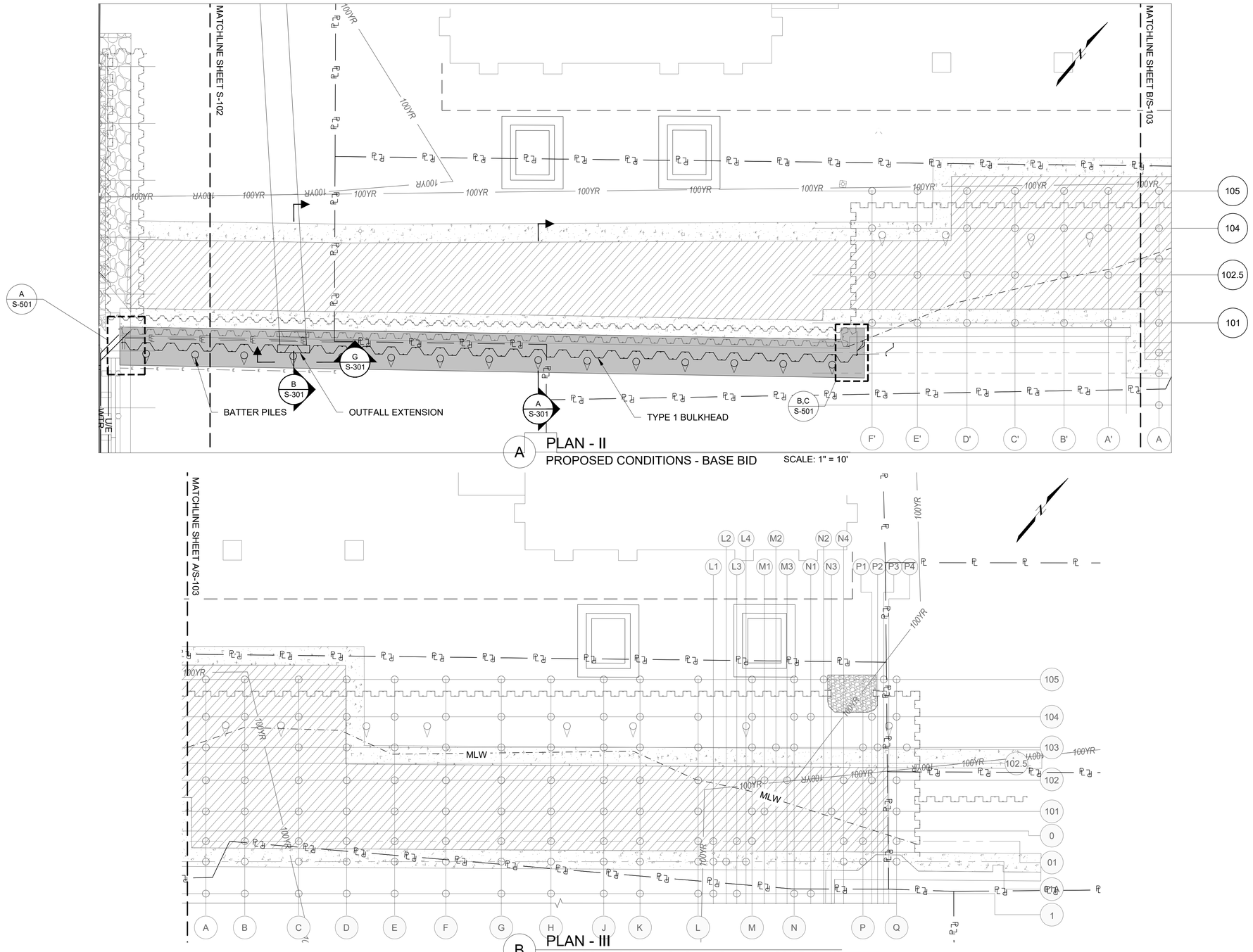
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
PROPOSED CONDITIONS PLAN - BASE BID - SHEET 1 OF 2

SHEET NO.
S-102

SCHELP_MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-102 Proposed Conditions Plan.dwg - 11/15/2026



A PLAN - II
PROPOSED CONDITIONS - BASE BID SCALE: 1" = 10'

B PLAN - III
PROPOSED CONDITIONS - BASE BID SCALE: 1" = 10'

TIDAL DATUM

MHHW	+9.94
MHW	+9.49
NAVD88	+5.17
NGVD29	+4.34
MLW	0.00
MLLW	-0.33

0 10 20
SCALE: 1" = 10'

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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FRANKLIN, MA 02038
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ONE CITY HALL SQUARE
BOSTON, MA 02201

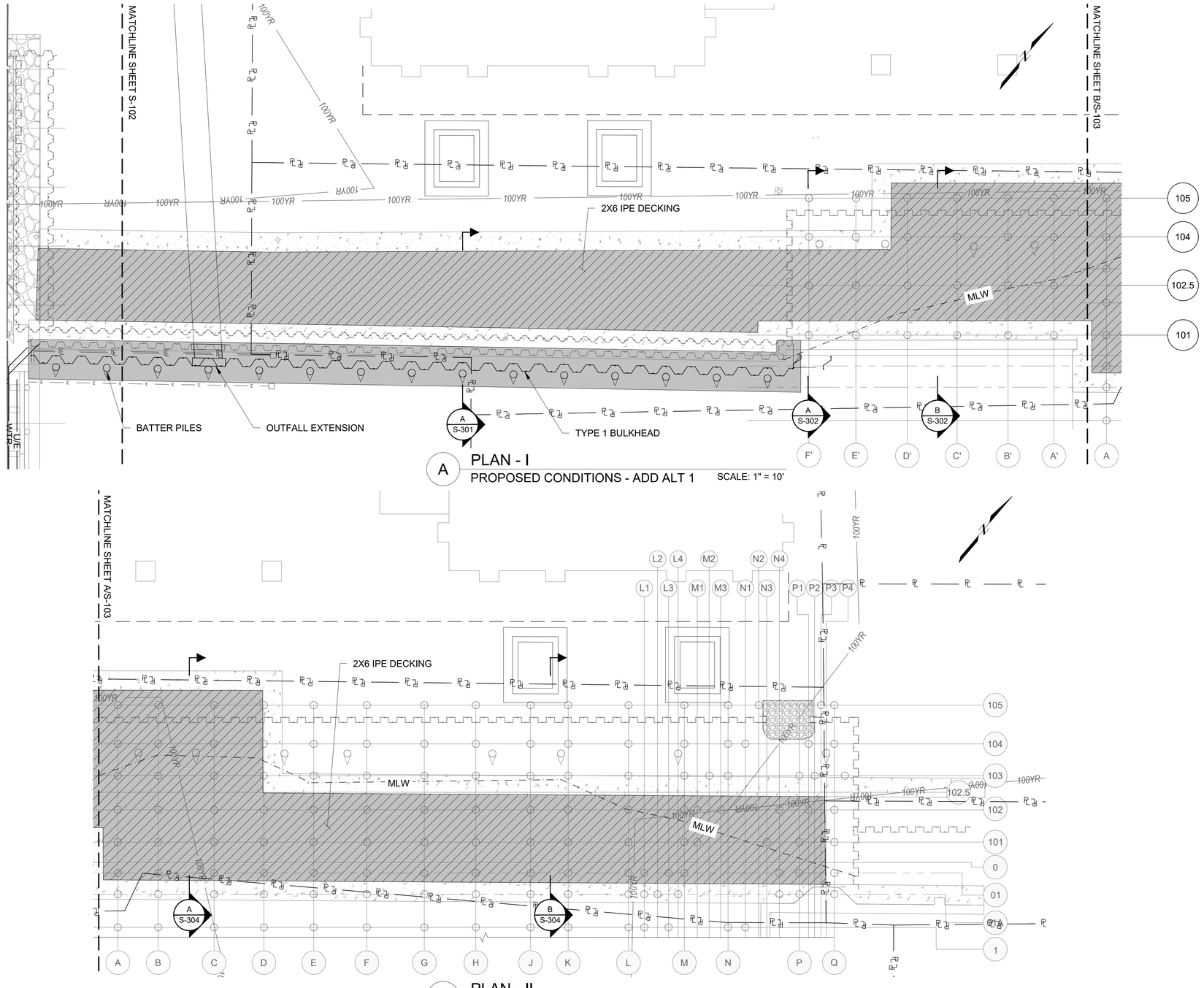
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
PROPOSED CONDITIONS PLAN - BASE BID - SHEET 2 OF 2

SHEET NO.
S-103

SCHELP_MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-103 Proposed Conditions Plan.dwg - 11/15/2026



A PLAN - I
PROPOSED CONDITIONS - ADD ALT 1 SCALE: 1" = 10'

B PLAN - II
PROPOSED CONDITIONS - ADD ALT 1 SCALE: 1" = 10'

TIDAL DATUM

MHHW	+9.94
MHW	+9.49
NAVD88	+5.17
NGVD29	+4.34
MLW	0.00
MLLW	-0.33

0 10 20
SCALE: 1" = 10'

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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GEI CONSULTANTS, INC.
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FLAGSHIP WHARF BULKHEAD REPAIRS

BRA PROJECT No.

CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

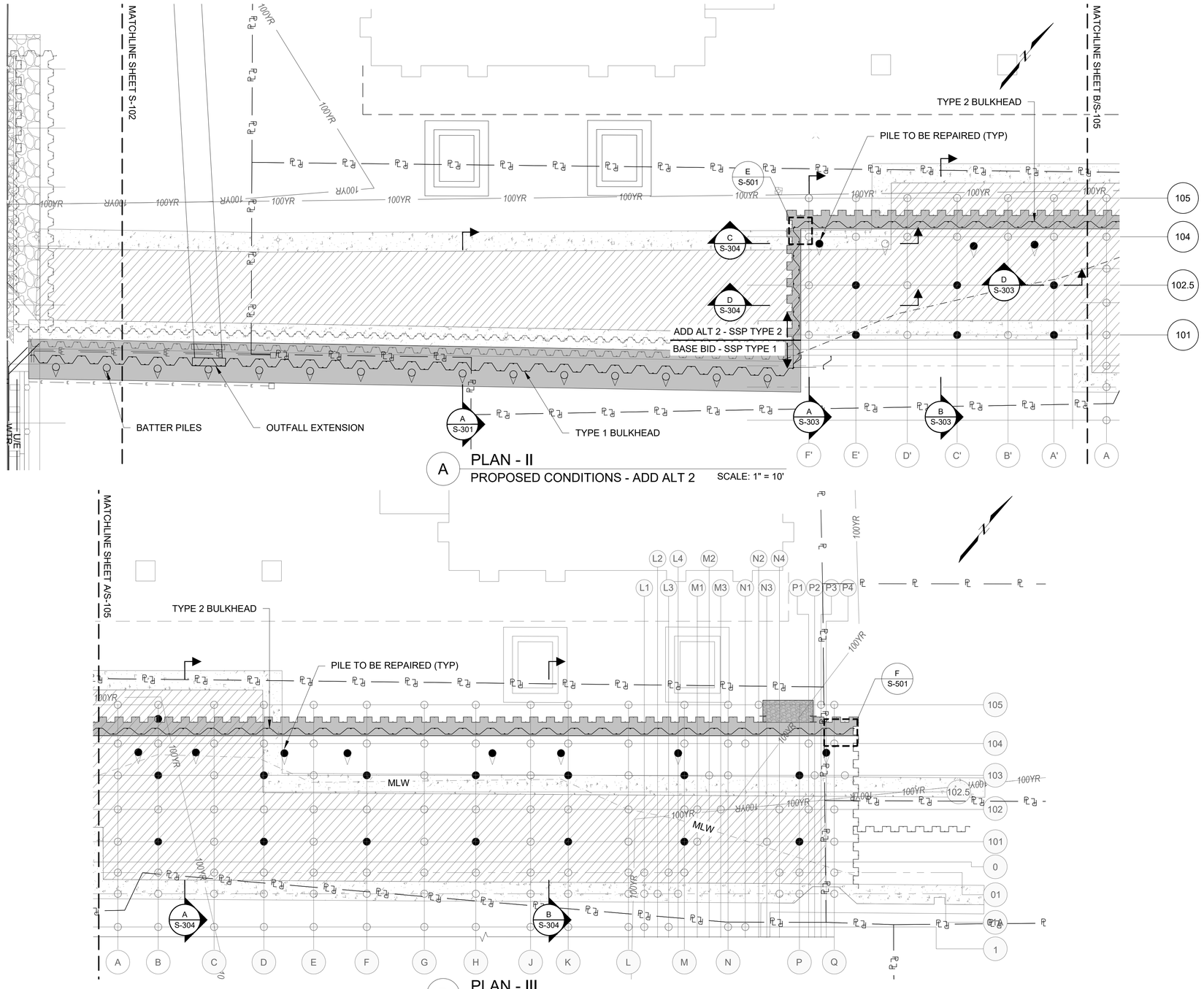
NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
PROPOSED CONDITIONS PLAN - ADD ALT 1

SHEET NO.
S-104

FOR BID
NOT FOR CONSTRUCTION

SCHELP_MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-104 Proposed Conditions Plan.dwg - 11/15/2026



A PLAN - II
PROPOSED CONDITIONS - ADD ALT 2 SCALE: 1" = 10'

B PLAN - III
PROPOSED CONDITIONS - ADD ALT 2 SCALE: 1" = 10'

TIDAL DATUM

MHHW	+9.94
MHW	+9.49
NAVD88	+5.17
NGVD29	+4.34
MLW	0.00
MLLW	-0.33

0 10 20
SCALE: 1" = 10'

FOR BID
NOT FOR CONSTRUCTION

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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FRANKLIN, MA 02038
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BOSTON, MA 02201

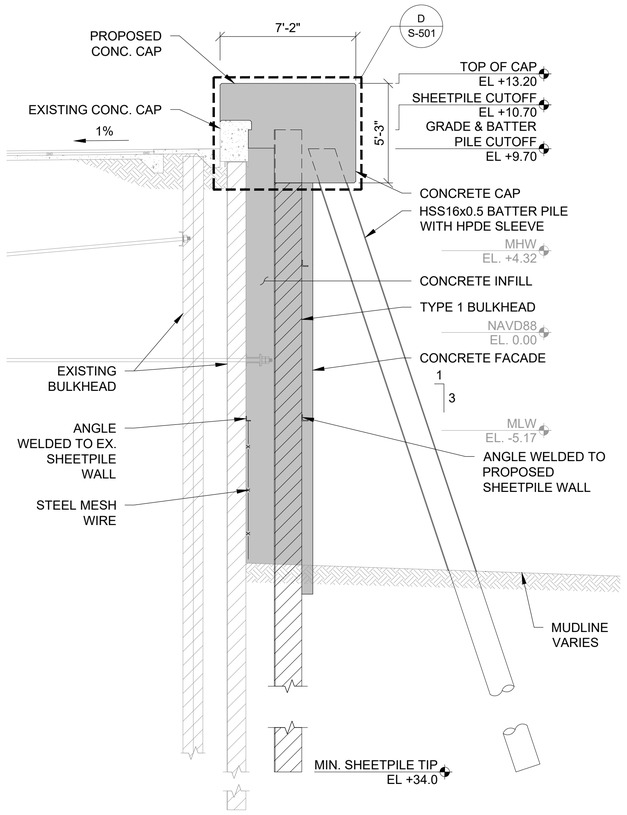
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

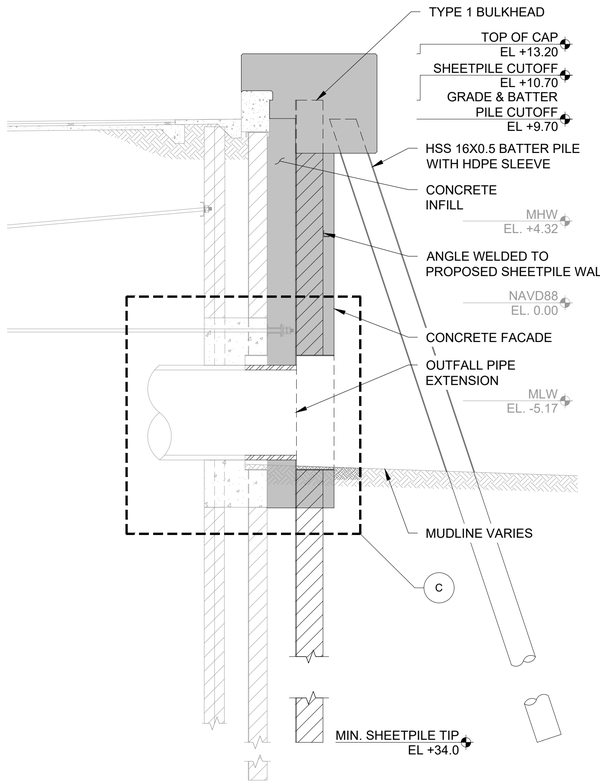
SHEET NAME
PROPOSED CONDITIONS PLAN - ADD ALT 2

SHEET NO.
S-105

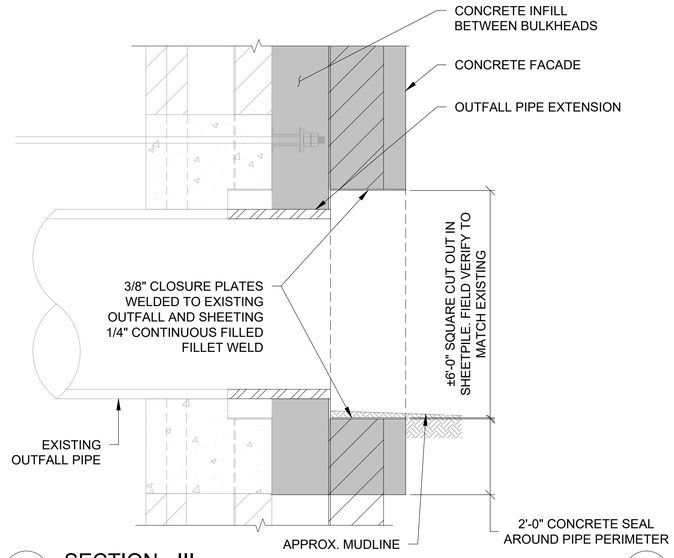
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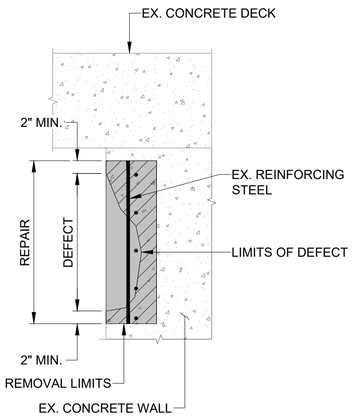
A S-103 **SECTION I**
PROPOSED TYPICAL BULKHEAD - BASE BID
SCALE: 1/4" = 1'-0"



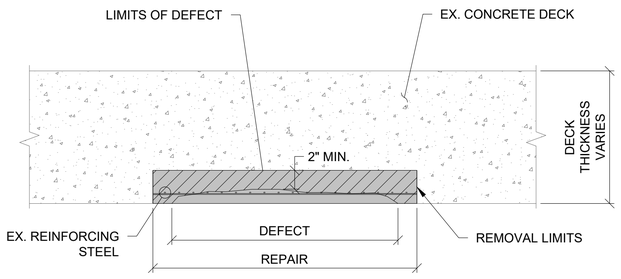
B S-103 **SECTION II**
PROPOSED BULKHEAD AT OUTFALL - BASE BID
SCALE: 1/4" = 1'-0"



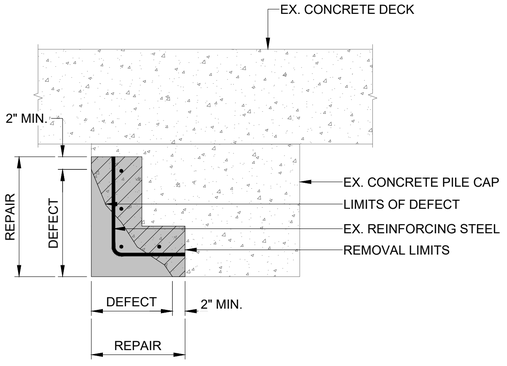
C **SECTION - III**
PROPOSED BULKHEAD AT OUTFALL - BASE BID
SCALE: 1/2" = 1'-0"



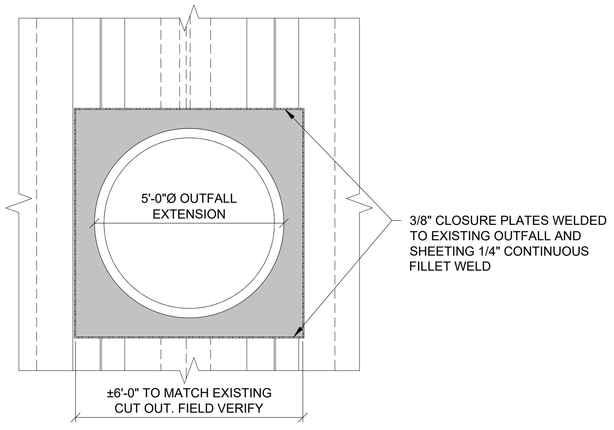
D **TYPICAL DETAIL - I**
ONE FACE REPAIR - BASE BID
SCALE: NTS



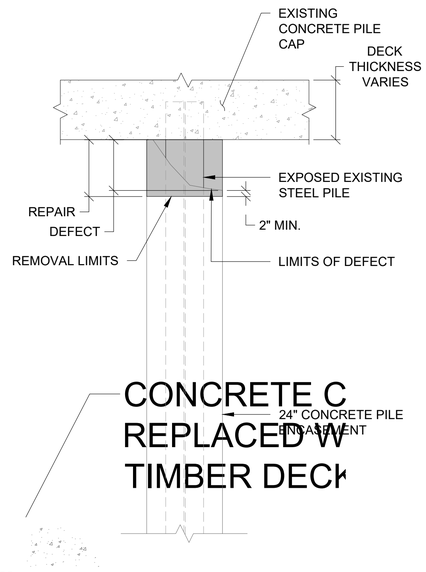
E **TYPICAL DETAIL - II**
OVERHEAD REPAIR - BASE BID
SCALE: NTS



F **TYPICAL DETAIL - III**
TWO FACE REPAIR - BASE BID
SCALE: NTS



G **ELEVATION**
PROPOSED OUTFALL PIPE EXTENSION - BASE BID
SCALE: 1/2" = 1'-0"



H **TYPICAL DETAIL - IV**
PILE REPAIR - BASE BID
SCALE: NTS

FOR BID
NOT FOR CONSTRUCTION

0 1 2
SCALE, FEET

0 2 4
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
(774)277-6001

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ONE CITY HALL SQUARE
BOSTON, MA 02201

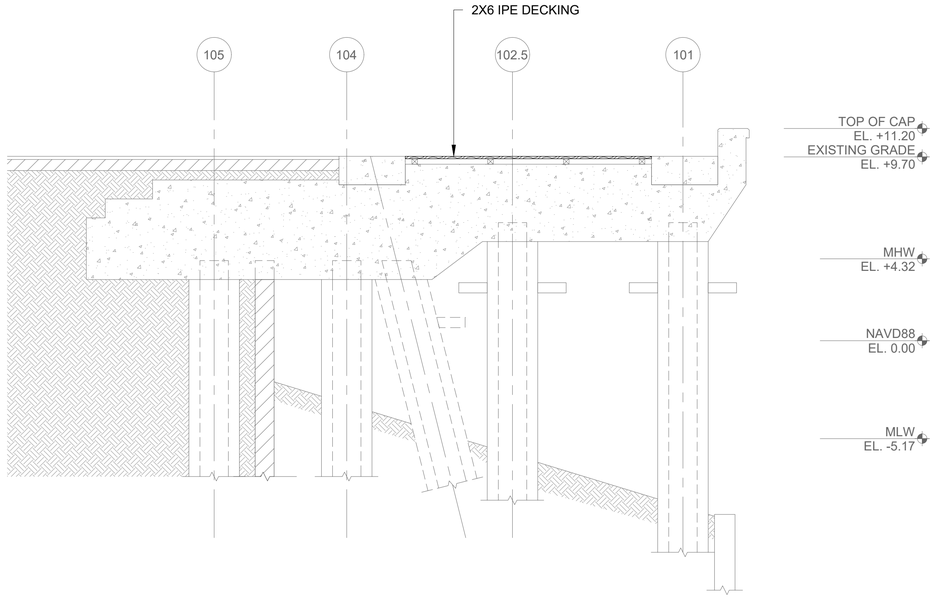
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME
PROPOSED SECTIONS - BASE BID

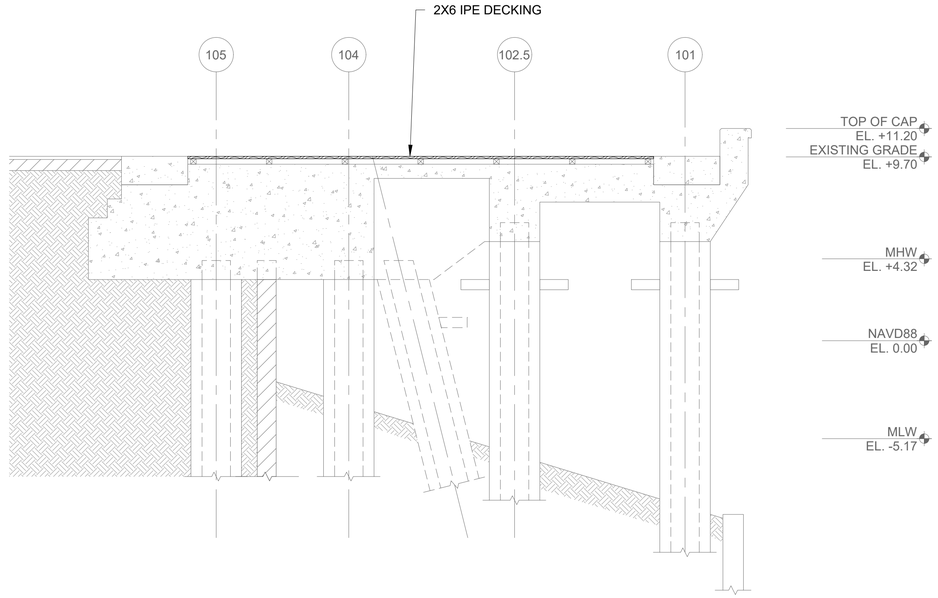
SHEET NO.
S-301

SCHELP_MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-301 Proposed Sections.dwg - 11/15/2026



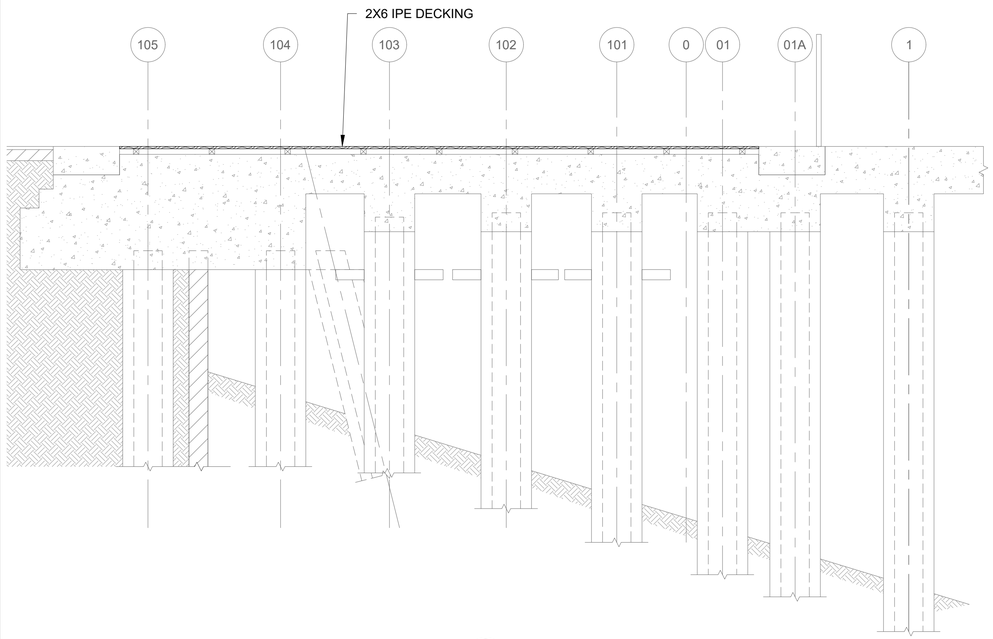
A SECTION - I

S-104 PROPOSED - ADD ALT 1 SCALE: 1/4" = 1'-0"



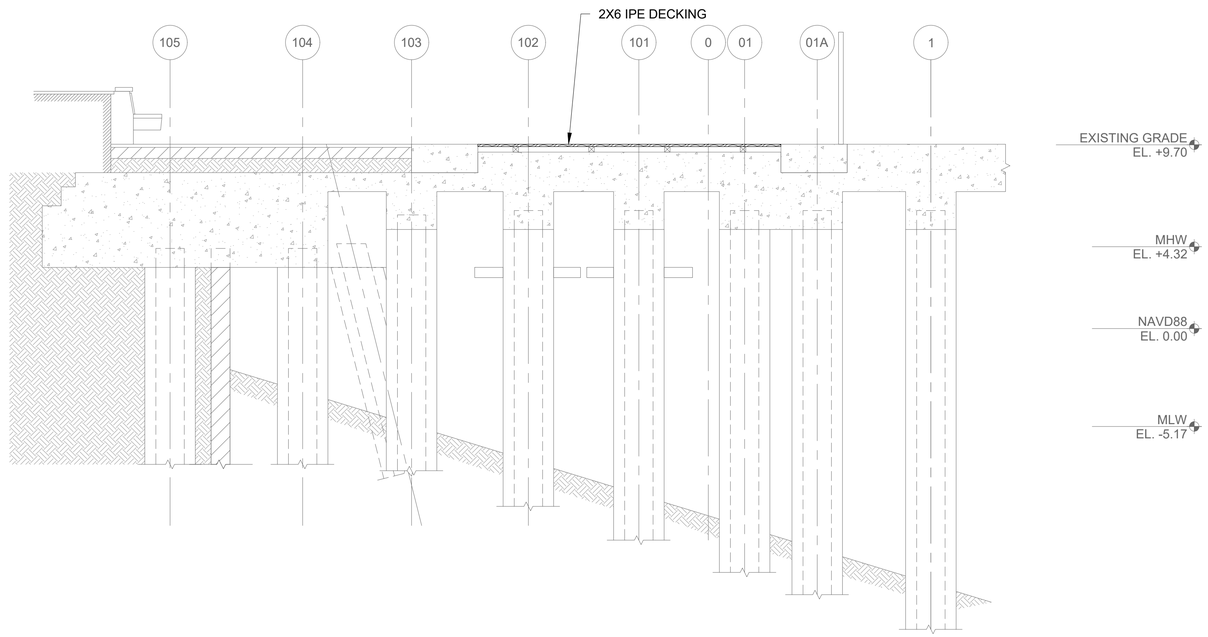
B SECTION - II

S-104 PROPOSED - ADD ALT 1 SCALE: 1/4" = 1'-0"



C SECTION - III

S-104 PROPOSED - ADD ALT 1 SCALE: 1/4" = 1'-0"



D SECTION - IV

S-104 PROPOSED - ADD ALT 1 SCALE: 1/4" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 1 2
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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FLAGSHIP WHARF BULKHEAD REPAIRS

BRA PROJECT No.

CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

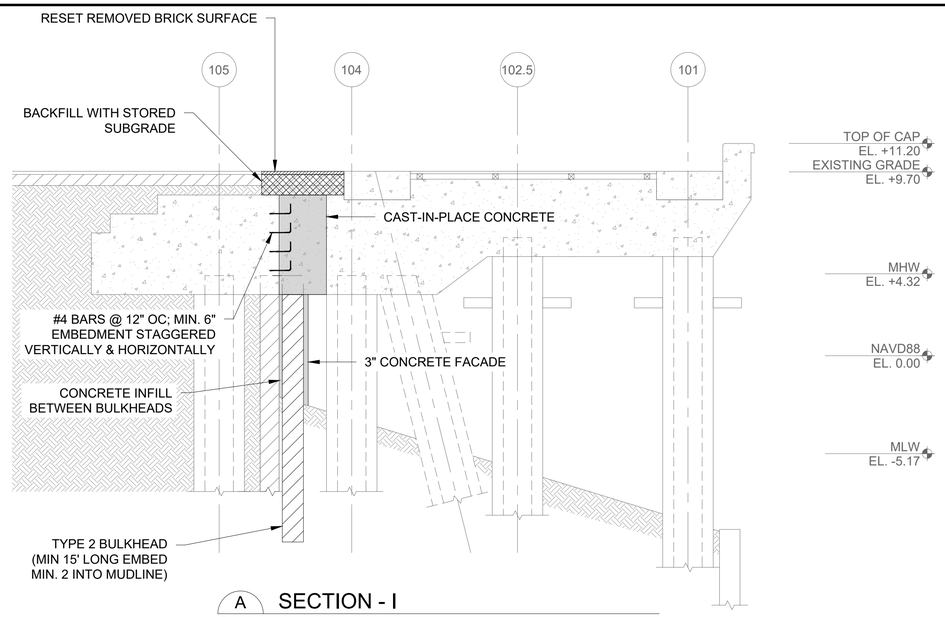
SHEET NAME

PROPOSED SECTIONS - ADD ALT 1

SHEET NO.

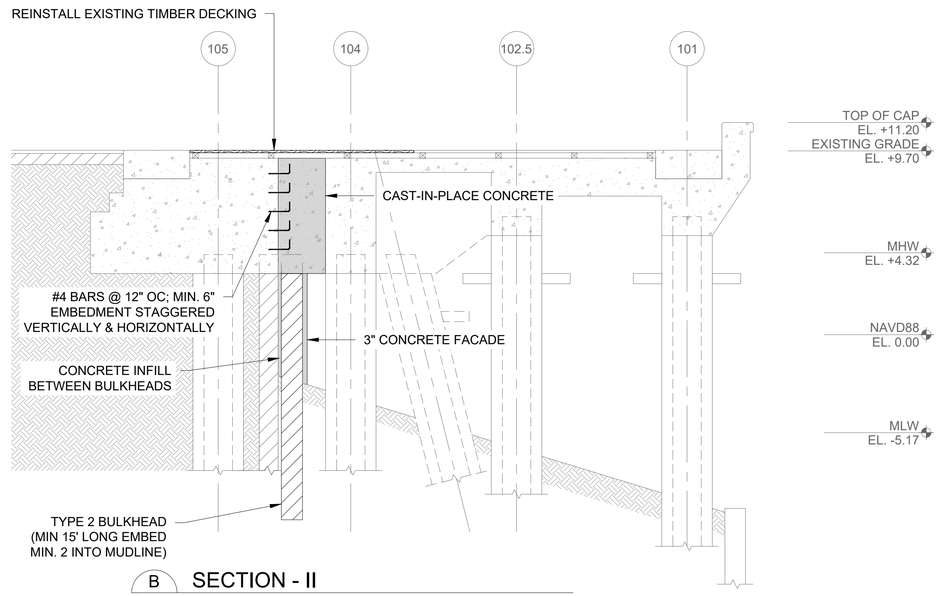
S-302

SCHELP, MCRITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-302_Proposed Sections Add Alt 1.dwg - 11/5/2026



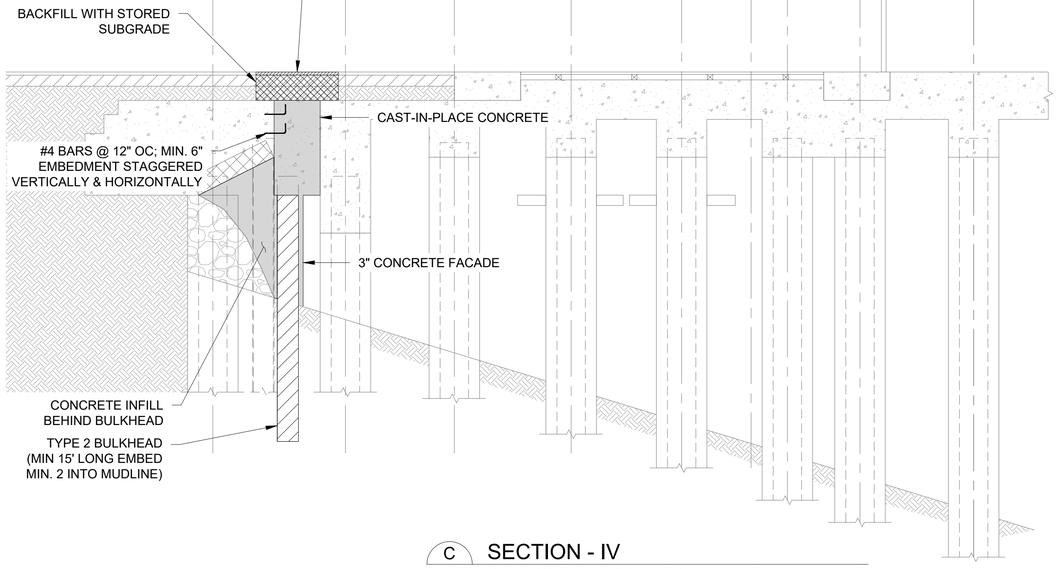
A SECTION - I

S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"



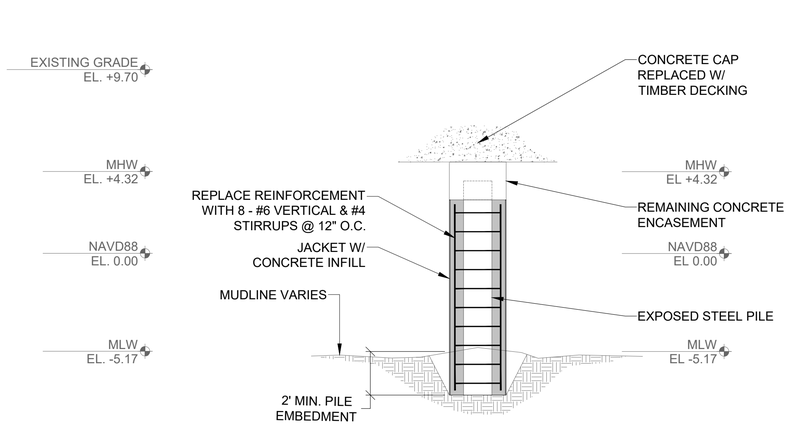
B SECTION - II

S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"



C SECTION - IV

S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"



D SECTION - IV

S-105 TYPICAL PILE REPAIR - ADD ALT 2 SCALE: NTS

0 4 8

SCALE, FEET

Attention:

0 1"

If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

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124 GROVE STREET
FRANKLIN, MA 02038
(774)277-6001

BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

FLAGSHIP WHARF BULKHEAD REPAIRS

BRA PROJECT No.

CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME

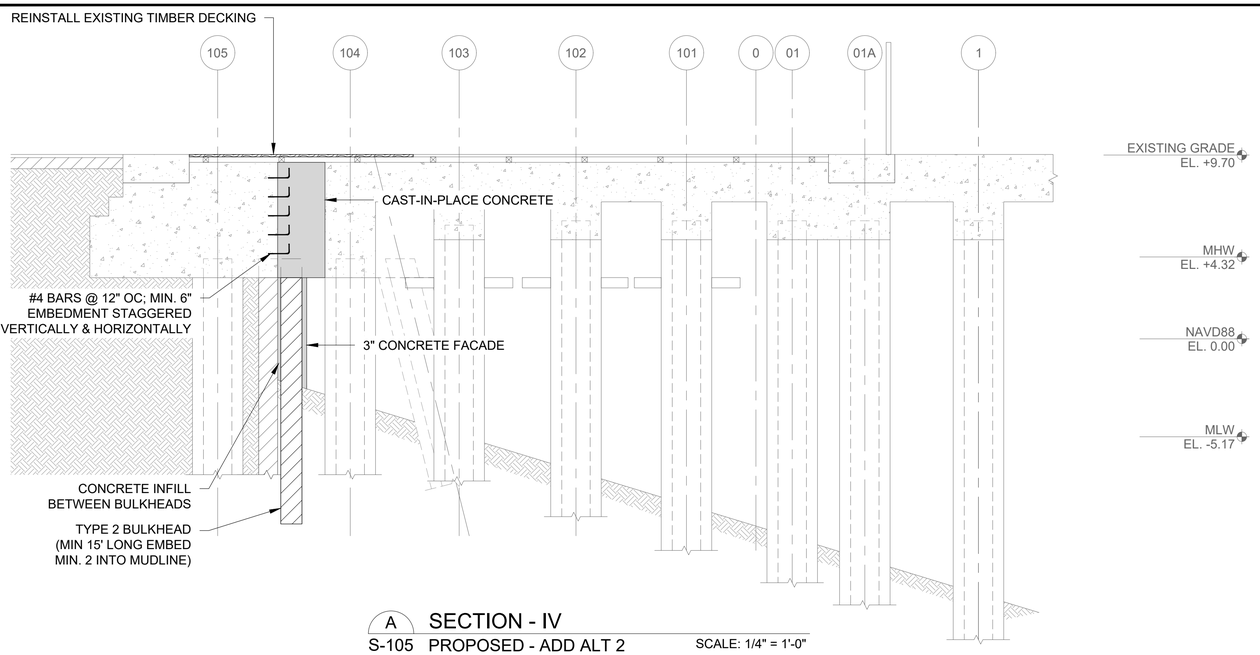
PROPOSED SECTIONS - ADD ALT 2 - SHEET 1 OF 2

SHEET NO.

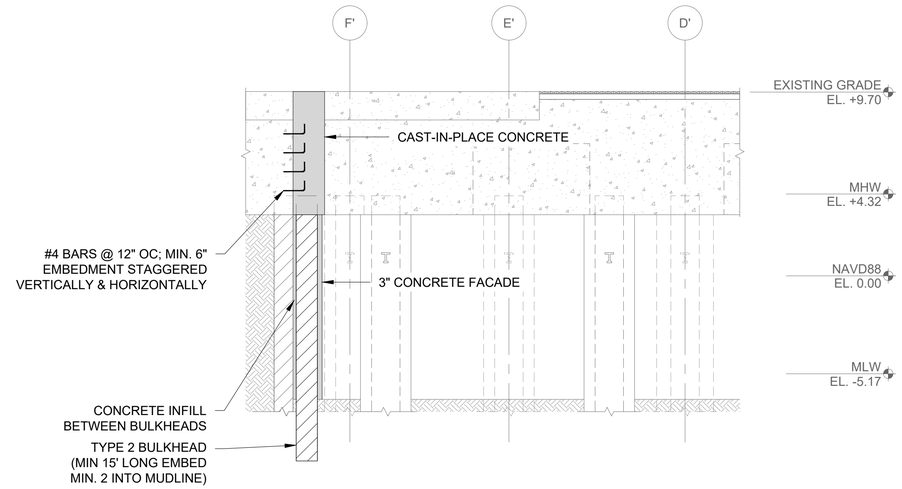
S-303

FOR BID
NOT FOR CONSTRUCTION

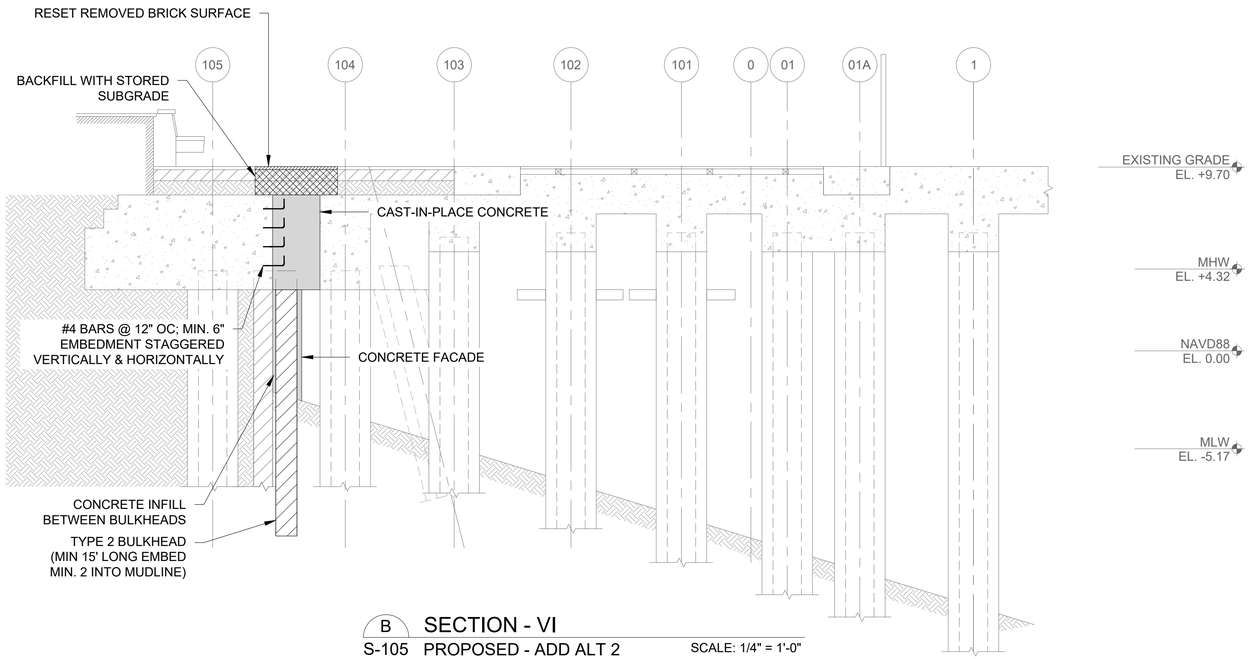
SCHELP, MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\90_CAD\Design\Sheets\S-303_Proposed Sections Add Alt 2.dwg - 11/15/2026



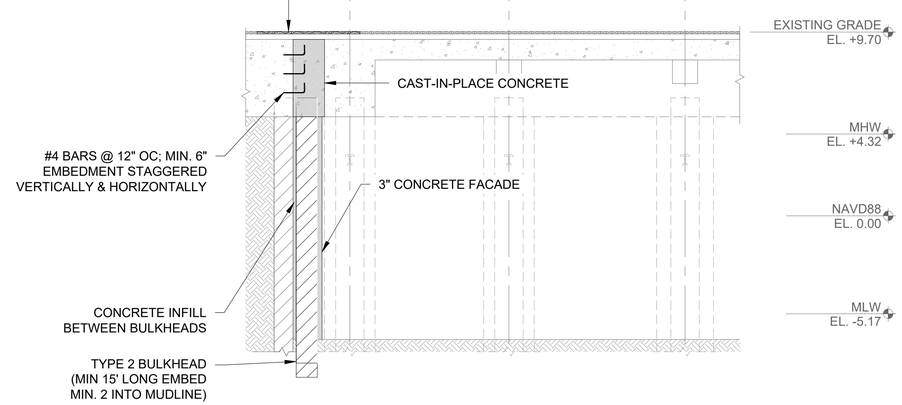
A SECTION - IV
S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"



C SECTION - V
S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"



B SECTION - VI
S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"



D SECTION - VII
S-105 PROPOSED - ADD ALT 2 SCALE: 1/4" = 1'-0"

FOR BID
NOT FOR CONSTRUCTION

0 1 2
SCALE, FEET

0 4 8
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
GEI Project	2601608

GEI Consultants
GEI CONSULTANTS, INC.
124 GROVE STREET
FRANKLIN, MA 02038
(774)277-6001

BOSTON PLANNING & DEVELOPMENT AGENCY
ONE CITY HALL SQUARE
BOSTON, MA 02201

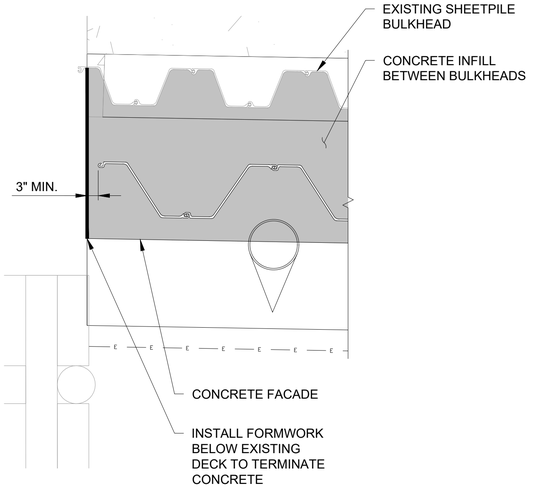
FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

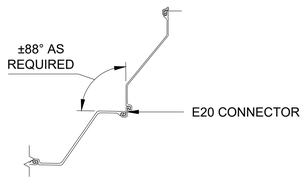
SHEET NAME
PROPOSED SECTIONS - ADD ALT 2 - SHEET 2 OF 2

SHEET NO.
S-304

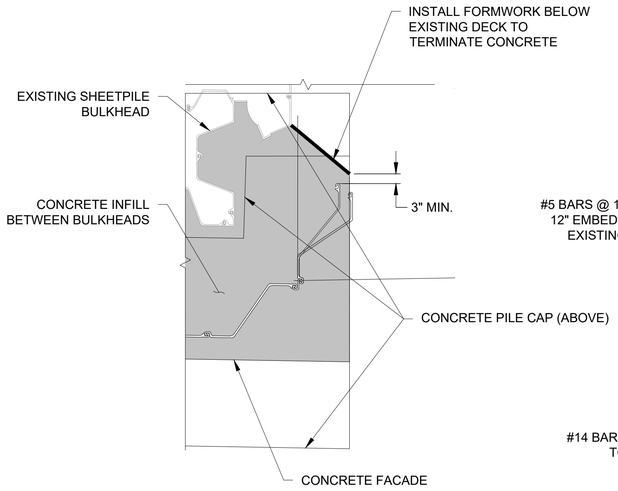
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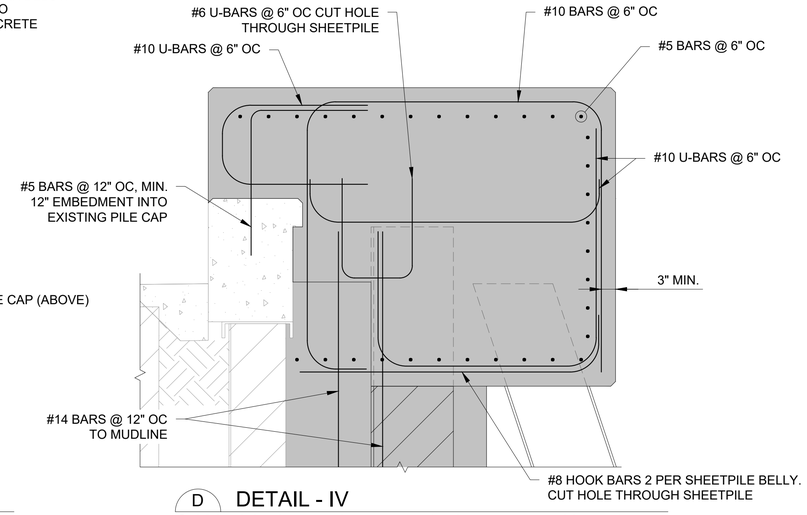
A DETAIL - I
S-103 BULKHEAD END AT PIER 4 - BASE BID
SCALE: 1/2"=1'-0"



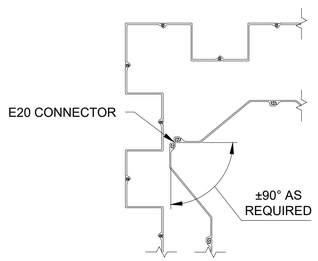
B DETAIL - II
S-103 BULKHEAD CORNER - BASE BID
SCALE: 1/2"=1'-0"

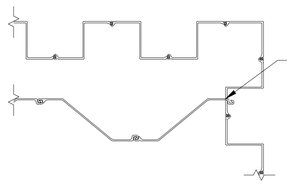


C DETAIL - III
S-103 BULKHEAD END AT PIER 5 - BASE BID
SCALE: 1/2"=1'-0"



D DETAIL - IV
S-301 CONCRETE CAP REINFORCEMENT - BASE BID
SCALE: 1/2"=1'-0"





E DETAIL - V
S-105 BULKHEAD INSHORE CORNER UNDER PIER 5 DECKING - ADD ALT 2
SCALE: 1/2"=1'-0"

F DETAIL - VI
S-105 BULKHEAD END UNDER PIER 5 DECKING - ADD ALT 2
SCALE: 1/2"=1'-0"

0 1 2
SCALE, FEET

0 2 4
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed:	MS
Drawn:	JSF
Checked:	DBR
Approved:	DBR
P.E. No:	
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FLAGSHIP WHARF BULKHEAD REPAIRS
BRA PROJECT No.
CHARLESTOWN NAVY YARD
CHARLESTOWN, MA

NO	DATE	ISSUE/REVISION	APP
1	11/16/2026	ISSUE FOR BID	DBR
0	9/25/2026	FOR PERMIT	DBR

SHEET NAME: **PROPOSED DETAILS**
SHEET NO.: **S-501**

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NOT FOR CONSTRUCTION

SCHELP, MORITZ B:\Working\BOSTON PLANNING & DEV AGENCY (AKA BRA)\2601608 Flagship Wharf Bulkhead Repairs\00_CAD\Design\Sheets\S-501_Proposed Details Base Bid.dwg - 11/15/2026