

APPENDIX G
MassDEP CHAPTER 91 LICENSING



Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs

Department of Environmental Protection

Address: 100 Cambridge Street, Suite 900, Boston MA 02114 | **Phone:** 617-292-5500

Maura T. Healey
Governor

Kim Driscoll
Lieutenant Governor

Rebecca Tepper
Secretary

Bonnie Heiple
Commissioner

April 13, 2026

Massachusetts Water Resources Authority,
Colleen Rizzi, Director, Environmental & Regulatory Affairs
2 Griffin Way
Chelsea, MA 02150

Re: Chapter 91 Administrative Request No. 26-WWAR-0028-APP – Exemption Review;
Proposed Outfall, Waters of the Charles River, 161 Highland Avenue, Needham,
Norfolk County

Dear Ms. Rizzi:

The Massachusetts Department of Environmental Protection Waterways Regulation Program (the “Department”) has reviewed the referenced administrative request for an exemption review pursuant to 310 CMR 9.05(3)(g)4. The proposed scope of work includes installation of a new storm drainage outfall.

Based on the review of the proposed scope of work relative to the applicable regulatory standards, the Department determines that the project may comply with 310 CMR 9.05(3)(g)4, as the proposed outfall and appurtenant structures do not reduce the space available for navigation and do not extend into such river or stream, except as may be necessary for bank stabilization. Provided, however, that a final Order of Conditions has been issued under M.G.L. c. 131, § 40 and 310 CMR 10.00: Wetlands Protection.

This letter serves as written acknowledgement of the scope of work depicted on the plans attached hereto. The proposed work must conform to and be consistent with this approval and all submitted documentation. Prior to commencement of the activities approved herein, all applicable local, state, and federal approval must be obtained. This approval does not authorize work by any party on land they do not own without having first obtained any necessary authorization from the property owner(s).

Please contact the Department at dep.waterways@mass.gov if there are any questions.

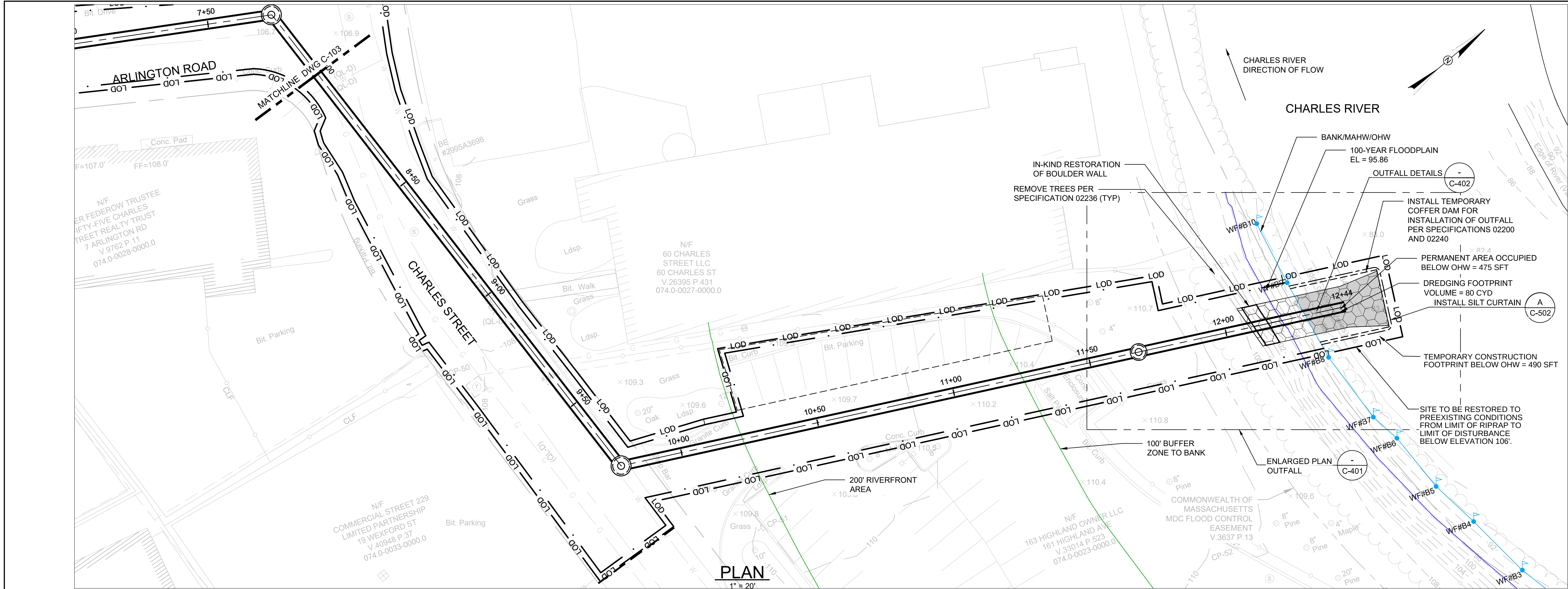
Sincerely,

A handwritten signature in dark ink, appearing to read "Daniel J. Padien". The signature is fluid and cursive, with a long horizontal stroke at the end.

Daniel J. Padien
Program Chief
Waterways Regulation Program

cc: Town of Needham Conservation Commission
163 Highland Owner, LLC

Encl: Plans dated February 2026, Sheets C-104, C-401, C-402

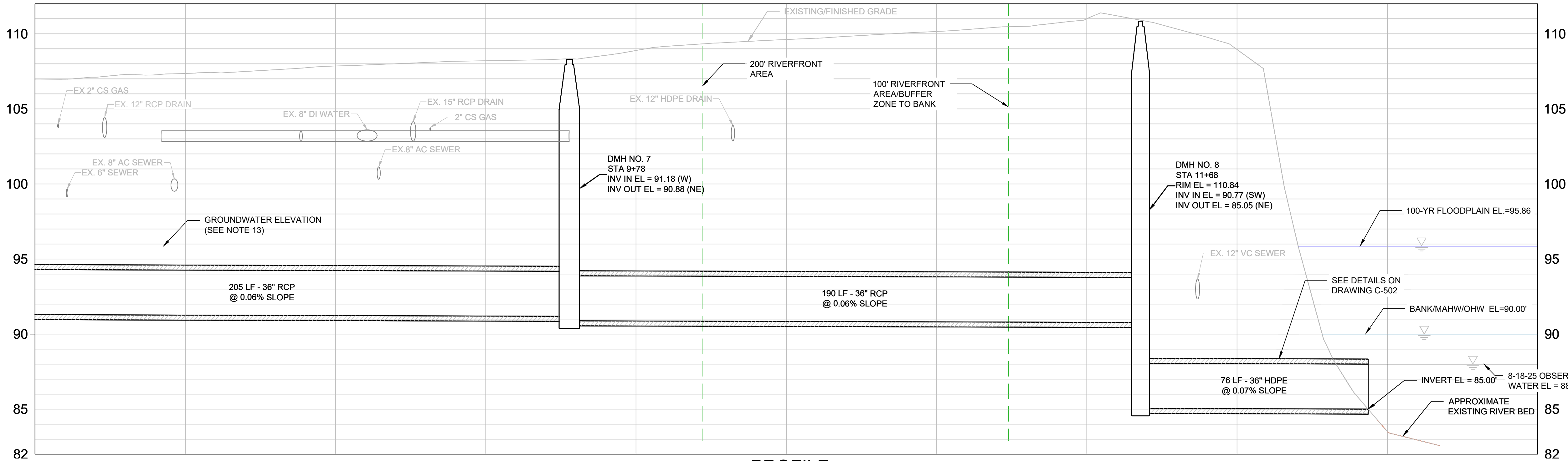


LEGEND

- IN-KIND-RESTORATION OF BOULDER WALL
- RIPRAP
- DREDGE FOOTPRINT (475 SFT, 80 CYD)
- BANK/MAHW/OHW LINE
- 100-YEAR FLOODPLAIN

NOTES:

- MINIMUM VERTICAL CLEARANCE BETWEEN NEW DRAIN AND SEWER LINES SHALL BE 18".
- MINIMUM VERTICAL CLEARANCE BETWEEN NEW DRAIN AND OTHER UTILITIES SHALL BE AT LEAST 12".
- CONTRACTOR SHALL PROTECT ALL TREES WITHIN LIMITS OF DISTURBANCE AS PER DETAIL A ON C-504, UNLESS OTHERWISE INDICATED. CONTRACTOR SHOULD AVOID DAMAGING ANY TREES REGARDLESS OF WHETHER THE TREES ARE WITHIN THE LIMITS OF DISTURBANCE.
- PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL PLACE A "DIG SAFE" REQUEST AND HAVE ALL UTILITIES INCLUDING AND NOT LIMITED TO THE TOWN OF NEEDHAM UTILITIES, GAS LINES AND DUCT BANKS MARKED ON THE GROUND. CONTRACTOR SHALL TEST PIT ALL EXISTING BURIED UTILITIES WITHIN THE LIMITS OF DISTURBANCE PRIOR TO CONSTRUCTION. TEST PIT TO LOCATE AND CHARACTERIZE EXISTING UTILITIES. DEPTH, SIZE, CONDITION, COORDINATE POINTS, AND UTILITY MATERIAL SHALL BE RECORDED AND PROVIDED TO THE AUTHORITY. IF UTILITY CONFLICTS EXIST, THE CONTRACTOR SHALL NOTIFY THE AUTHORITY IMMEDIATELY.
- DURING CONSTRUCTION, IF ANY OF THE UTILITIES OR EXISTING STRUCTURES ARE DAMAGED, THEY MUST BE REPLACED, IN KIND, FROM STRUCTURE TO STRUCTURE AT NO ADDITIONAL COST TO THE AUTHORITY.
- CONTRACTOR TO COORDINATE WITH EVERSOURCE TO PROVIDE POWER POLE SUPPORT WHEN ANY PART OF OPEN TRENCH IS WITHIN 5 FEET OF POWER POLE, GUY WIRES, OR AS CONDITIONS WARRANT.
- BORING LOCATIONS ARE SHOWN ON DRAWING B-101.
- REFER TO APPENDIX B OF THE SPECIFICATIONS FOR AVAILABLE UTILITY RECORD DRAWINGS.
- ALL SERVICE CONNECTIONS BEING REPLACED SHALL BE REPLACED A MINIMUM OF 2 FEET BEYOND THE TRENCH LIMITS AND TIED INTO EXISTING SERVICE LINES.
- CONTRACTOR SHALL BE RESPONSIBLE TO CCTV ALL UTILITY SYSTEMS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH SECTION 02513.

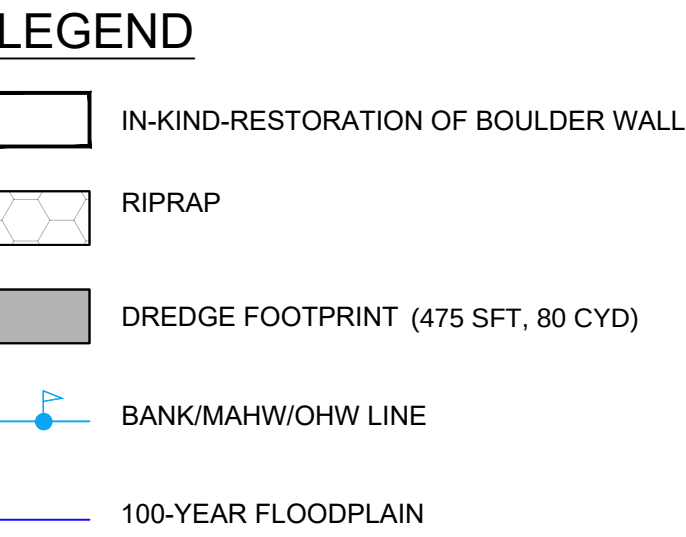


PROFILE

Horiz 1" = 20' Vert 1" = 4'

MassDEP CHAPTER 91 EXEMPTION SUBMITTAL - NOT FOR CONSTRUCTION

REFERENCE:					CONTRACT NO. : 8086	CAD FILE NO. : 3-3-C-104 - USACE	 MASSACHUSETTS WATER RESOURCES AUTHORITY PREPARED BY :  100 SUMMER STREET BOSTON, MA 02110 617-426-7330  BLACK & VEATCH 200 SUMMIT DRIVE, SUITE 340 BURLINGTON, MA 01803 781-656-5800	METROPOLITAN WATER TUNNEL PROGRAM CONTRACT PACKAGE 3.3 NEEDHAM DEWATERING DRAINAGE LINE	CIVIL PLAN AND PROFILE STA 8+00 TO STA 12+44	DRAWING NO. C-104 07 of 17
					ACCESSION NO. : NOTUSED	SECTION NO. :				
					DATE: FEBRUARY 2026	DESIGNED BY: ANW DRAWN BY: CJG CHECKED BY: KRR APPROVED BY: WSW				
					SCALE: AS NOTED					
	NO.	DATE	BY	CHK'D	REVISION					



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BORING LOCATIONS ARE SHOWN ON DRAWING B-101.

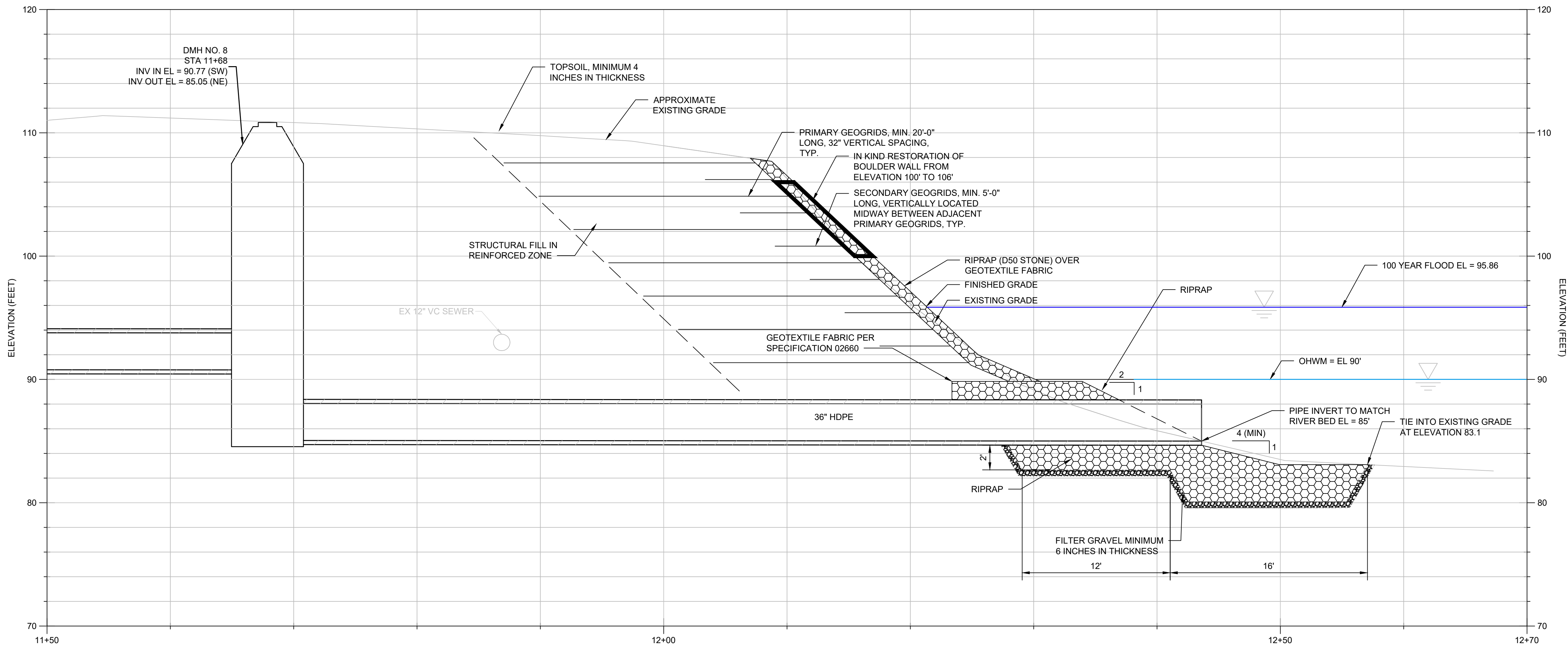
REFER TO APPENDIX B OF THE SPECIFICATIONS FOR AVAILABLE UTILITY RECORD DRAWINGS.

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0. CONTRACTOR SHALL BE RESPONSIBLE TO CCTV ALL UTILITY SYSTEMS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH SECTION 02513.

PLAN
1" = 5'

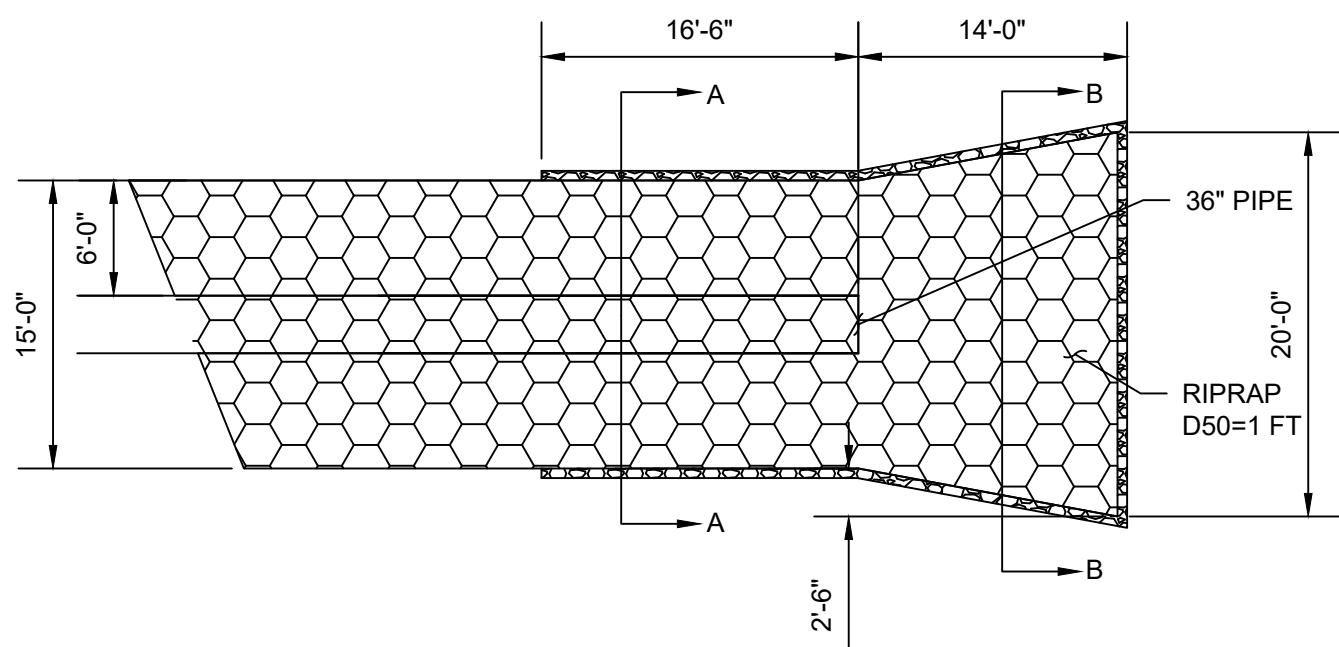
REFERENCE:						CONTRACT NO. : 8086	CAD FILE NO. : 3-3-C-401			 MASSACHUSETTS WATER RESOURCES AUTHORITY PREPARED BY :  100 SUMMIT STREET BOSTON, MA 02110 617-426-7330  BLACK & VEATCH 200 SUMMIT DRIVE, SUITE 340 BURLINGTON, MA 01803 781-656-5800	METROPOLITAN WATER TUNNEL PROGRAM CONTRACT PACKAGE 3.3 NEEDHAM DEWATERING DRAINAGE LINE	DRAWING NO.
						ACCESSION NO. : NOT USED	SECTION NO. :				C-401	
						DATE: FEBRUARY 2026	DESIGNED BY: ANW					
							DRAWN BY: DJB					
							CHECKED BY: KRR					
						SCALE: AS NOTED	APPROVED BY: WSW					
	NO.	DATE	BY	CHK'D	REVISION							
								CIVIL		08 of 17		
								ENLARGED PLAN - OUTFALL				



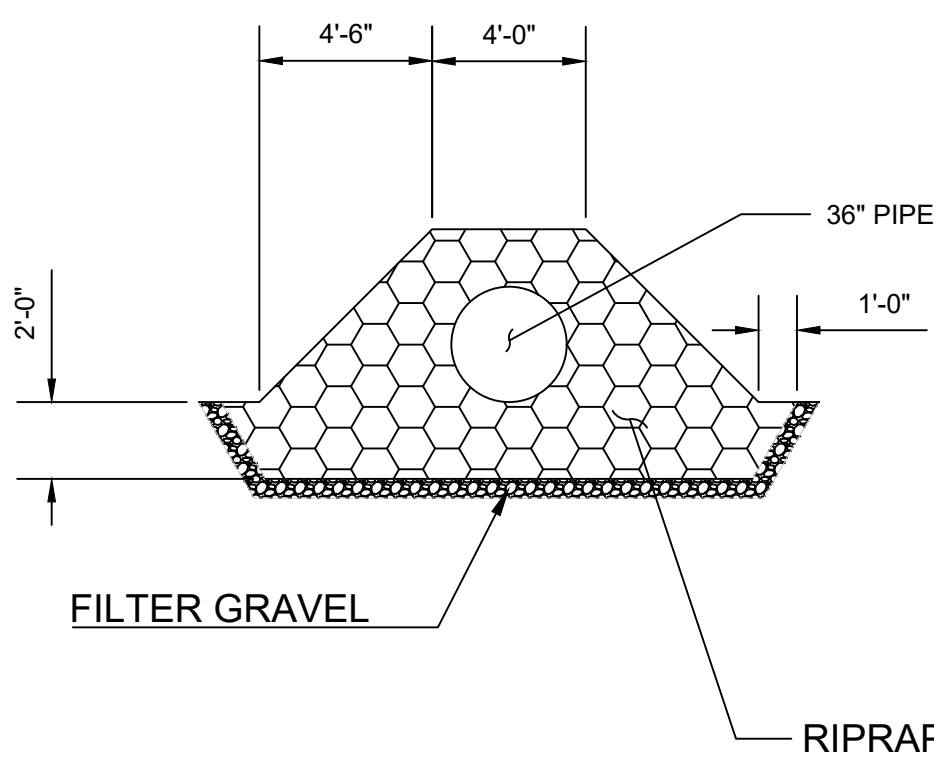
- NOTES:**
1. SLOPE STABILIZATION MEASURES (RIPRAP, GEOTEXTILE, PRIMARY GEOGRIDS, SECONDARY GEOGRIDS, AND STRUCTURAL FILL) SHALL EXTEND Laterally TO THE FULL EXCAVATION LIMITS.
 2. GEOGRIDS SHALL BE TENCATE MIRAFIX XT OR APPROVED EQUAL.
 3. GEOTEXTILE SHALL BE US FABRIC US 300NW OR APPROVED EQUAL.
 4. BACKFILL MATERIAL SHALL BE COMPACTED STRUCTURAL FILL PLACED IN 8" COMPACTED LIFTS.
 5. RIPRAP SHALL BE PLACED IN LIFTS. VOIDS SHALL BE COMPLETELY FILLED WITH SOIL OR SAND PRIOR TO PLACEMENT OF SUCCESSIVE LIFT. COMPETENT SOIL EXCAVATED FROM THE PROJECT SITE MAY BE USED.
 6. RIPRAP AND UNDERLYING FILTER COURSE SHALL MEET SPECIFICATION 02200.

- LEGEND**
- BANK/MAHW/OHW LINE
 - 100-YEAR FLOODPLAIN

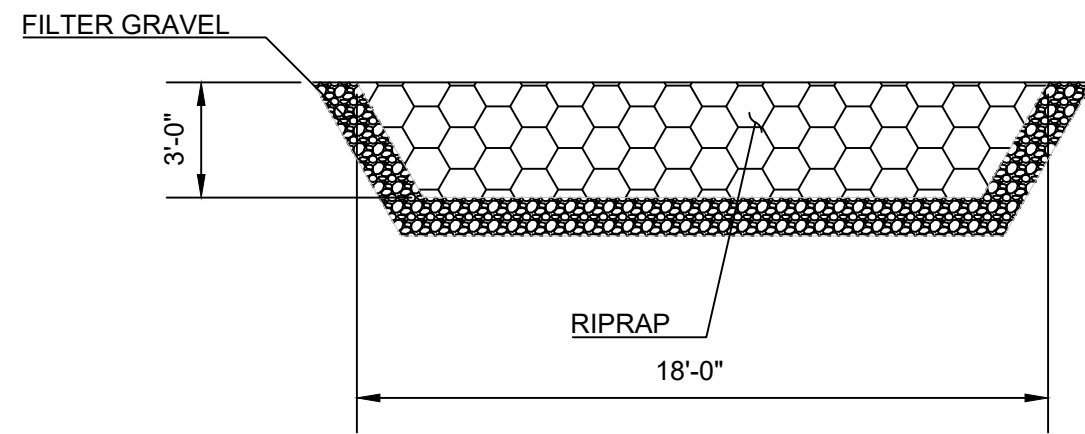
DEWATERING DRAIN LINE OUTFALL PROFILE
SCALE 1"=5'-0"



OUTFALL PLAN
1" = 10'-0"



OUTFALL SECTION A-A
1" = 5'-0"



OUTFALL SECTION B-B
1" = 5'-0"

MassDEP CHAPTER 91 EXEMPTION SUBMITTAL - NOT FOR CONSTRUCTION

REFERENCE:					CONTRACT NO. : 8086	CAD FILE NO. : 3-3-C-402		MASSACHUSETTS WATER RESOURCES AUTHORITY	 100 SUMMER STREET BOSTON, MA 02110 617-426-7330	 200 SUMMIT DRIVE, SUITE 340 BURLINGTON, MA 01803 781-656-5800	METROPOLITAN WATER TUNNEL PROGRAM CONTRACT PACKAGE 3.3 NEEDHAM DEWATERING DRAINAGE LINE	DRAWING NO.
					ACCESSION NO. : NOT USED	SECTION NO. :					C-402	
					DATE: FEBRUARY 2026	DESIGNED BY: ANW						
					DRAWN BY: CJG							
					CHECKED BY: KRR							
					APPROVED BY: CHG							
					SCALE: AS NOTED							
	NO.	DATE	BY	CHK'D	REVISION						CIVIL	
											OUTFALL DETAILS	09 of 17