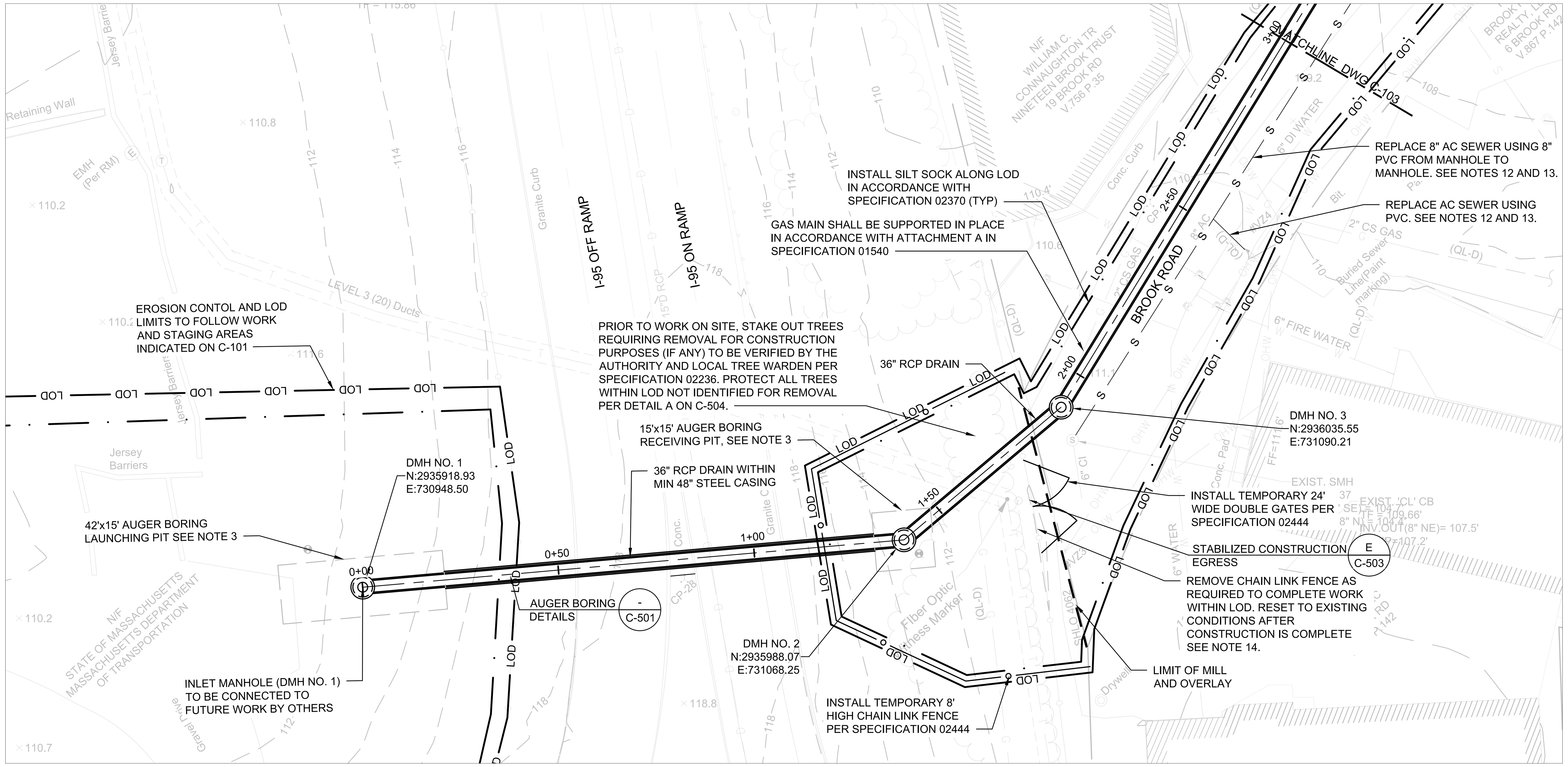
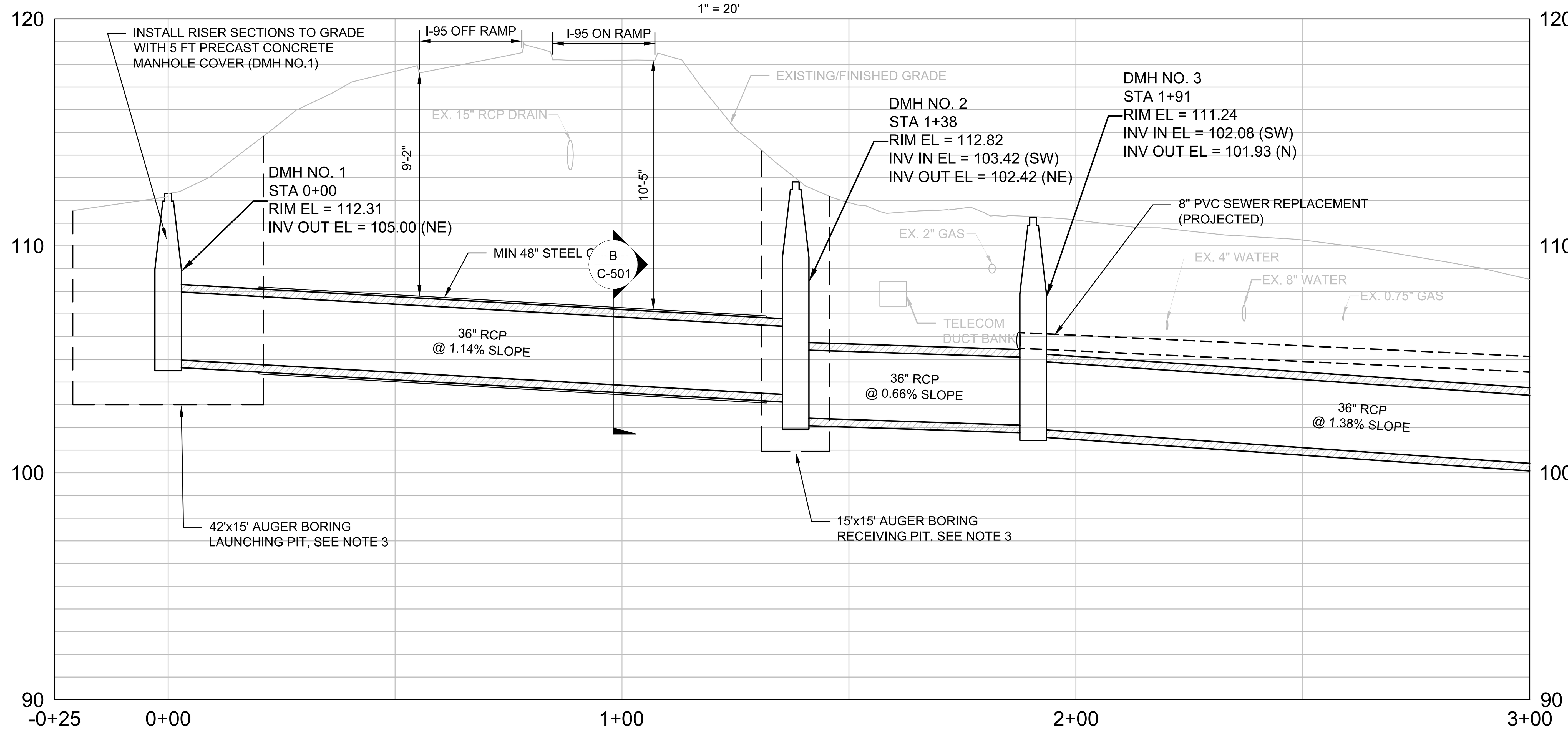


PLAN

1" = 20'



PROFILE

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

NOTES:

1. AUGER BORING INSTALLATION SHALL MEET REQUIREMENTS OUTLINED IN SPECIFICATION 02440, MASSDOT HIGHWAY ACCESS PERMIT, AND MASSDOT DOCUMENT ENTITLED "UTILITY ACCOMMODATION POLICY ON STATE HIGHWAY RIGHT OF WAY" DATED MAY 2013, OR MOST RECENT EDITION.
2. REFER TO SECTION 02495 FOR GEOTECHNICAL INSTRUMENTATION.
3. AUGER BORING PIT DIMENSIONS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. PIT LAYOUT AND DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, IN ACCORDANCE WITH SECTION 02440.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PLACE A "DIG SAFE" REQUEST AND HAVE ALL UTILITIES MARKED. CONTRACTOR SHALL TEST PIT ALL EXISTING UTILITIES INCLUDING AND NOT LIMITED TO THE TOWN OF NEEDHAM UTILITIES, GAS LINES AND DUCT BANKS 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, CONTRACTOR SHALL NOTIFY THE AUTHORITY IMMEDIATELY.
5. MINIMUM VERTICAL CLEARANCE BETWEEN NEW DRAIN AND SEWER LINES SHALL BE 18".
6. MINIMUM VERTICAL CLEARANCE BETWEEN NEW DRAIN AND OTHER UTILITIES SHALL BE AT LEAST 12".
7. 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.
8. 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.
9. 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.
10. LOCATIONS OF BORINGS AND MONITORING WELLS ARE SHOWN ON DRAWING B-101.
11. REFER TO APPENDIX B OF THE SPECIFICATIONS FOR AVAILABLE UTILITY RECORD DRAWINGS.
12. REPLACE ALL EXISTING SEWER PIPELINES CROSSING THE 36-INCH DRAIN PIPE AND ALL SEWER SERVICE LINES CONNECTING TO A REPLACED SEWER MAIN. REPLACEMENT LENGTHS TO EXTEND TO THE NEAREST EXISTING PIPE JOINT AND IN NO CASE LESS THAN 5 FEET FROM THE CENTERLINE OF THE 36-INCH DRAIN PIPE TO EACH SIDE OF THE PIPELINE CROSSING. USE RUBBER COUPLINGS TO CONNECT PVC TO EXISTING. REPLACEMENT IN ACCORDANCE WITH SPECIFICATION 01100 AND 02625.
13. PERFORM CCTV INSPECTION OF ALL UTILITIES WITHIN THE LOD, INCLUDING TOWN OF NEEDHAM SEWER AND DRAIN PIPES. CCTV INSPECTION MUST BE PERFORMED PRIOR TO CONSTRUCTION AND UPON COMPLETION OF REPLACEMENT OR REHABILITATION. CCTV IN ACCORDANCE WITH SECTION 02513 AND 02625.
14. STORE FENCE AFTER REMOVAL. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE FENCE.

0 20 40 60
SCALE: 1" = 20 SCALE IN FEET

0 4 8 12
SCALE: 1" = 4 SCALE IN FEET

BID DOCUMENTS

REFERENCE:	NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO.: 8086	CAD FILE NO.: 3-3-C-102
ACCESSION NO.: NOT USED	SECTION NO.:
DATE: SEPTEMBER, 2026	DESIGNED BY: ANW
	DRAWN BY: CJG
SCALE: AS NOTED	CHECKED BY: KRR
	APPROVED BY: WSW

COMMONWEALTH OF MASSACHUSETTS
WILLIAM SMITH WALKUP
CIVIL
No. 56210
REGISTERED PROFESSIONAL ENGINEER
9-16-2026

MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :

WSP
100 SUMMER STREET
BOSTON, MA 02110
617-426-7330

BLACK & VEATCH
200 SUMMIT DRIVE, SUITE 340
BURLINGTON, MA 01803
781-565-5800

METROPOLITAN WATER TUNNEL PROGRAM
CONTRACT PACKAGE 3.3
NEEDHAM DEWATERING DRAINAGE LINE

CIVIL
PLAN AND PROFILE
STA 0+00 TO STA 3+00

DRAWING NO.
C-102