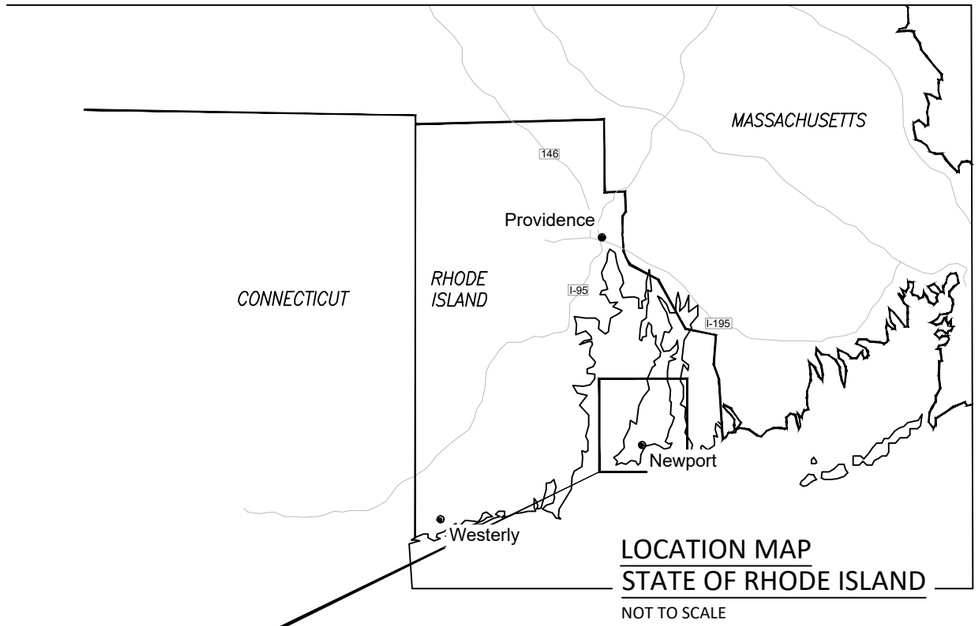
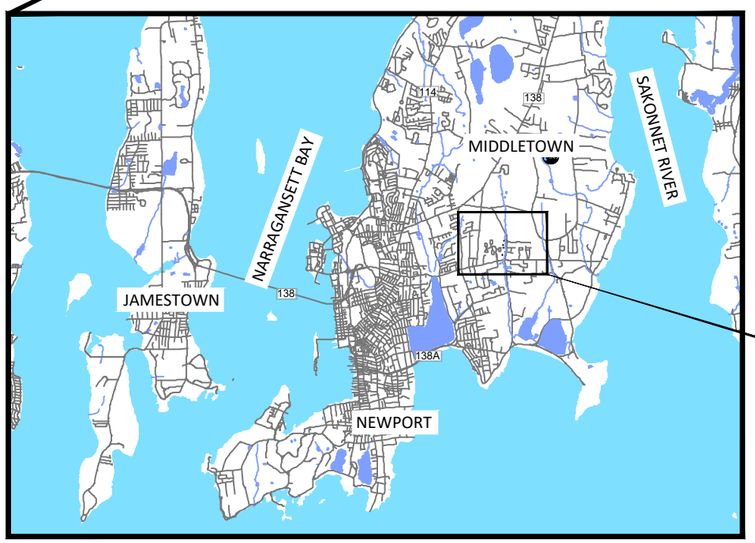
TOWN OF MIDDLETON, RHODE ISLAND
MAIDFORD RIVER RESTORATION
30% DESIGN

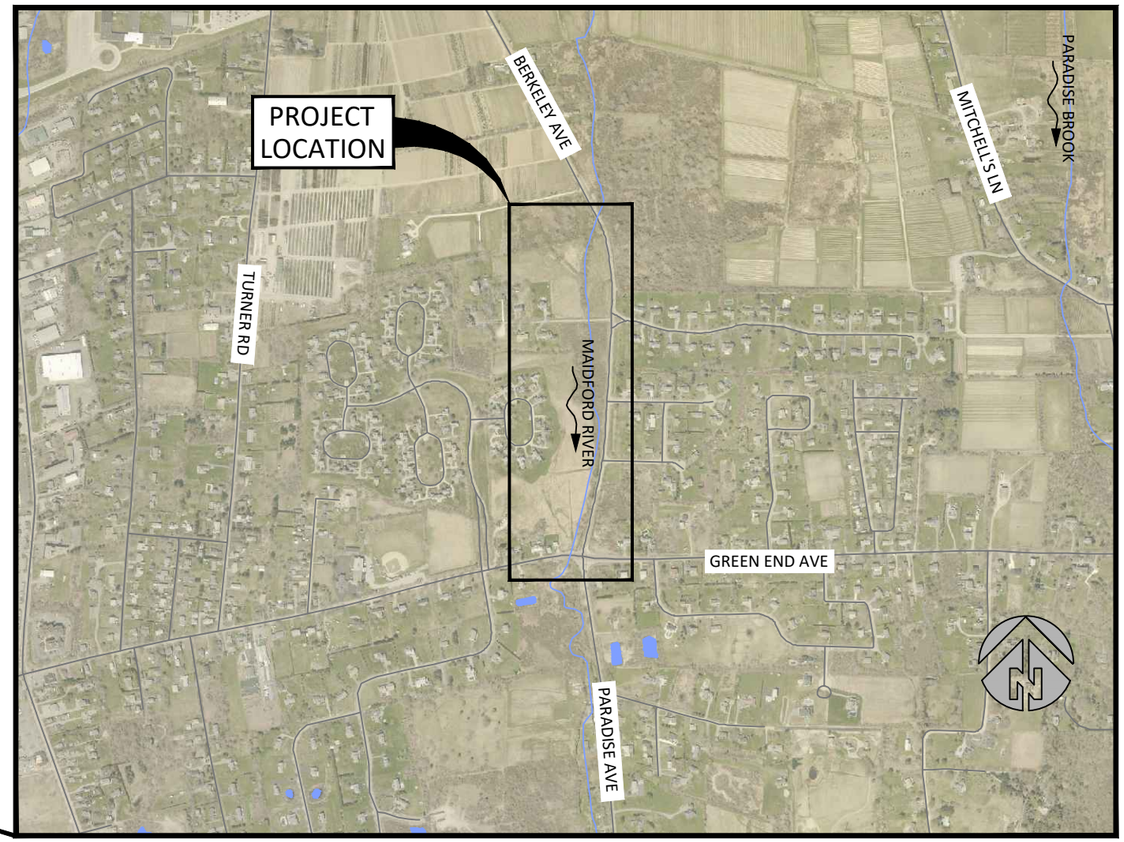
NOVEMBER 18, 2021



LOCATION MAP
STATE OF RHODE ISLAND
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



SITE MAP
SCALE: 1" = 1000'

COORDINATES:
LATITUDE 41° 30' 46.1"
LONGITUDE 71° 16' 08.5"

MIDDLETOWN, RHODE ISLAND

WATERBODY: MAIDFORD RIVER
TRIBUTARY OF: SAKONNET RIVER

SHEET INDEX

1 - COVER SHEET, LOCATION, AND INDEX
2 - EXISTING CONDITIONS, ACCESS, AND STAGING
3 - GRADING PLAN (1 OF 2)
4 - GRADING PLAN (2 OF 2)
5 - GRADING SECTIONS
6 - TREATMENT PLAN (1 OF 2)
7 - TREATMENT PLAN (2 OF 2)
8 - TYPICAL SECTIONS

NO.	BY	DATE	REVISION DESCRIPTION

MYS	SS, NN, CC	CC, MH
DRAWN	DESIGNED	CHECKED
----	11-18-2021	21-05-14
APPROVED	DATE	PROJECT

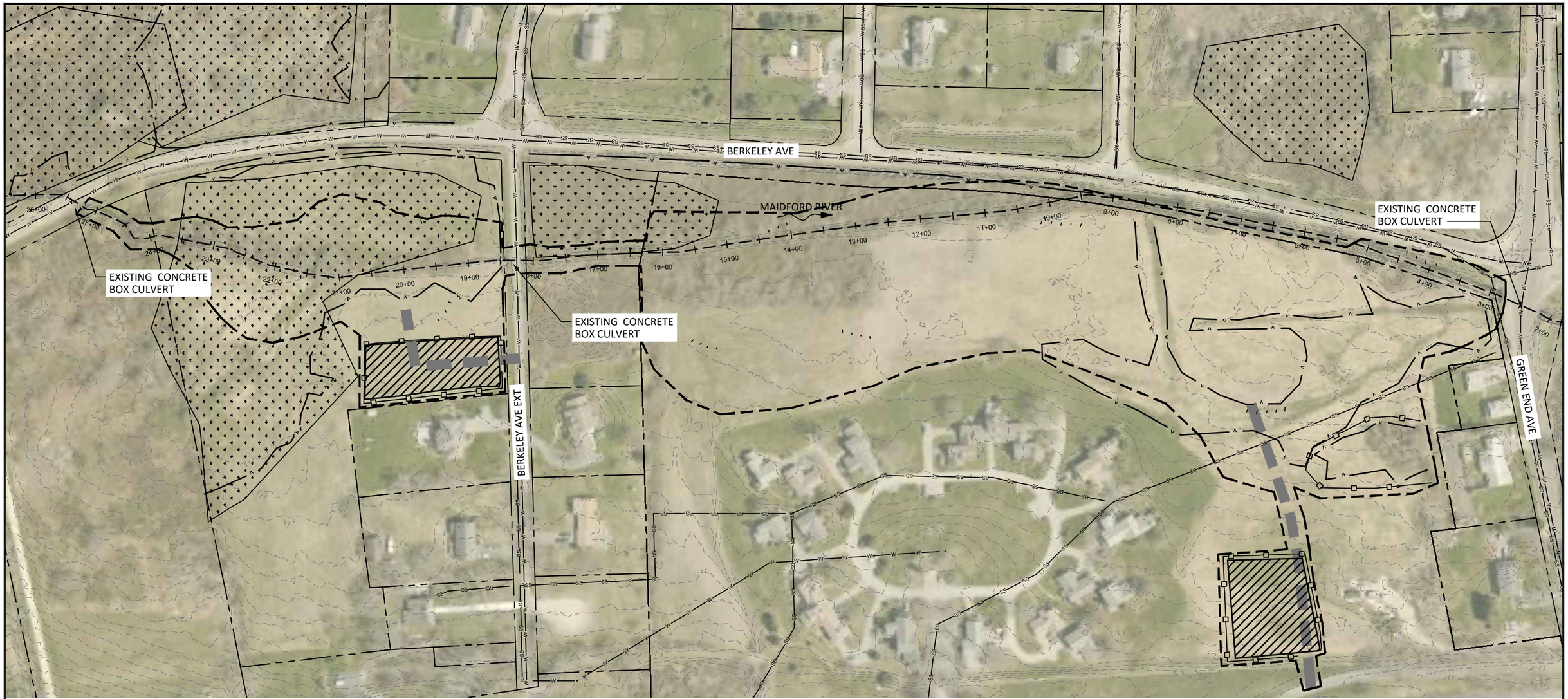
TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

COVER SHEET, LOCATION, AND INDEX

SHEET 1 OF 8

C:\Users\mys\Documents\Work\Projects\Middleton_RI\Maidford_River\Middleton_RI.prj - Layout - 11/18/21



LEGEND

- TEMPORARY ACCESS
- LIMITS OF DISTURBANCE
- STAGING AREA
- TAX PARCEL
- SILT FENCE
- EXISTING 1FT CONTOUR
- EXISTING ALIGNMENT (10+00 — 11+00)
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- NATIONAL WETLAND INVENTORY WETLAND
- DELINEATED WETLAND BOUNDARY

NOTES:

1. TOPOGRAPHIC SURVEYS WERE PERFORMED BY INTER-FLUVE MAY 14, AND JUNE 22, 2021.
2. FOR SURROUNDING TOPOGRAPHY, 1 FT CONTOURS ARE FROM USGS, COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY AFTER HURRICANE SANDY AND RELEASED IN 2014.
3. PARCEL DATA WAS OBTAINED FROM RIGIS.
4. THE HORIZONTAL COORDINATE SYSTEM IS THE NORTH AMERICAN DATUM OF 1983, RHODE ISLAND STATE PLANE, US FEET.
5. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988, US FEET.
6. AERIAL COLLECTED IN SPRING OF 2018 AND WAS OBTAINED FROM RIGIS.
7. ALL UTILITY LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR. SANITARY SEWER LINES APPEAR TO CROSS THE LIMIT OF DISTURBANCE.

0 — 150 — 300
SCALE IN FEET

NO.	BY	DATE	REVISION DESCRIPTION

DRAWN	DESIGNED	CHECKED
MYS	SS, NN, CC	CC, MH
APPROVED	DATE	PROJECT
----	11-18-2021	21-05-14

TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

EXISTING CONDITIONS, ACCESS, AND STAGING

SHEET 2 OF 8

G:\Work\Middleton\Maidford River\Maidford River_30pct.aprx - Maidford River_30pct - layout - 11/18/21

REPLACE CULVERT PER ACCOMPANYING DESIGN PLANS BY FUSS AND O'NEILL, INC.

BERKELEY AVE

MICROTOPOGRAPHY TO BE GRADED INTO FLOODPLAIN.THIS IS A FIELD FIT ITEM TO BE CONDUCTED WITH THE ONSITE PRESENCE OF THE ENGINEER AT THE TIME OF CONSTRUCTION.

EXCAVATE NEW CHANNEL AND FLOODPLAIN

BERKELEY AVE EXT

REPLACE CULVERT PER ACCOMPANYING DESIGN PLANS BY FUSS AND O'NEILL, INC.

MAIDFORD RIVER

GRADING IN THIS AREA MAY CHANGE IN SUBSEQUENT DESIGN ITERATION

EXCAVATE OFF-CHANNEL FLOODPLAIN WETLAND FOR AMPHIBIAN HABITAT

0 80 160

SCALE IN FEET

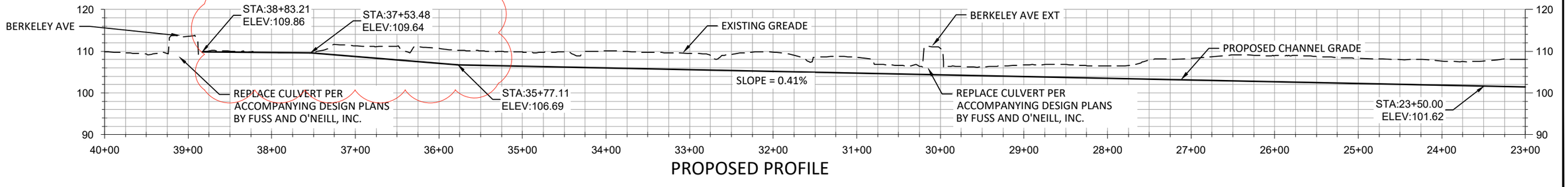
MATCHLINE

LEGEND

- TEMPORARY ACCESS
- LIMITS OF DISTURBANCE
- STAGING AREA
- TAX PARCEL
- SILT FENCE
- EXISTING 1FT CONTOUR
- PROPOSED 1FT CONTOUR
- PROPOSED ALIGNMENT
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING ALIGNMENT

10+00 11+00

PROFILE IN THIS AREA MAY CHANGE IN SUBSEQUENT DESIGN ITERATION



PROPOSED PROFILE

5x VERTICAL EXAGGERATION

SCALE: 1" = 24'

PROFILE SCALE

SCALE: 1" = 120'

NO.	BY	DATE	REVISION DESCRIPTION

MYS	SS, NN, CC	CC, MH
DRAWN	DESIGNED	CHECKED
----	11-18-2021	21-05-14
APPROVED	DATE	PROJECT

TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

GRADING PLAN (1 OF 2)

SHEET 3 OF 8

G:\Users\mys\Documents\Active Projects\Maidford_River\Maidford_River_30.dwg -- mys -- 11/18/21

EXCAVATE OFF-CHANNEL FLOODPLAIN WETLAND FOR AMPHIBIAN HABITAT

BERKELEY AVE

MAIDFORD RIVER

EXISTING CULVERT TO REMAIN

EXCAVATE NEW CHANNEL AND FLOODPLAIN

MICROTOPOGRAPHY TO BE GRADED INTO FLOODPLAIN.THIS IS A FIELD FIT ITEM TO BE CONDUCTED WITH THE ONSITE PRESENCE OF THE ENGINEER AT THE TIME OF CONSTRUCTION.

EXCAVATE OFF-CHANNEL FLOODPLAIN WETLAND FOR AMPHIBIAN HABITAT

GREEN END AVE

MATCHLINE

0 80 160

SCALE IN FEET

LEGEND

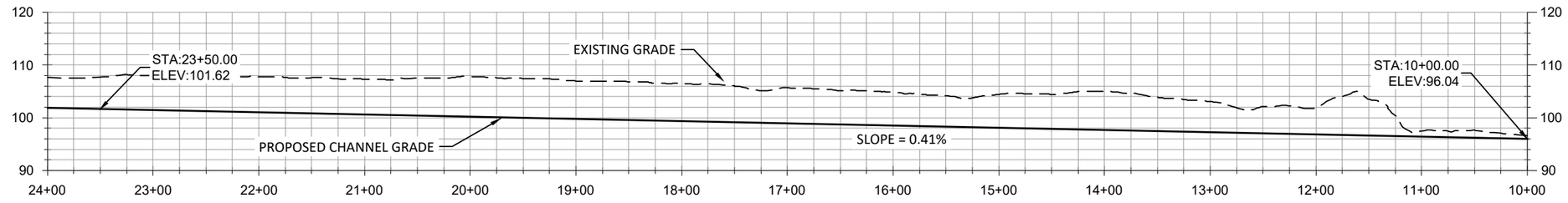
- TEMPORARY ACCESS
- LIMITS OF DISTURBANCE
- STAGING AREA
- TAX PARCEL
- SILT FENCE
- EXISTING 1FT CONTOUR
- PROPOSED 1FT CONTOUR
- PROPOSED ALIGNMENT
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING ALIGNMENT

5x VERTICAL EXAGGERATION

SCALE: 1" = 24'

PROFILE SCALE

SCALE: 1" = 120'



PROPOSED PROFILE

NO.	BY	DATE	REVISION DESCRIPTION

MYS	SS, NN, CC	CC, MH
DRAWN	DESIGNED	CHECKED
----	11-18-2021	21-05-14
APPROVED	DATE	PROJECT

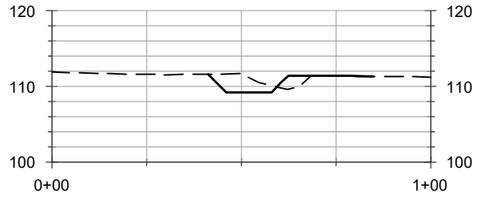
TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

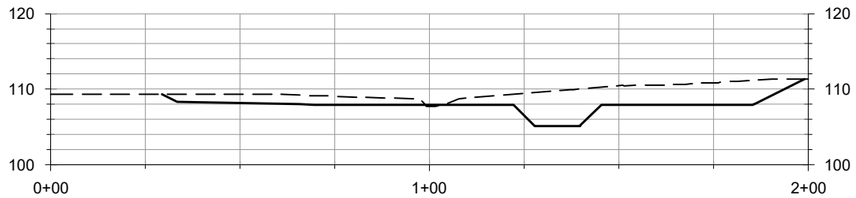
GRADING PLAN (2 OF 2)

SHEET 4 OF 8

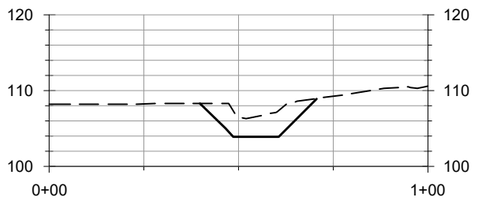
C:\Users\mysse\Documents\Maidford_River\Maidford_River_detailed_11-18-21.dwg



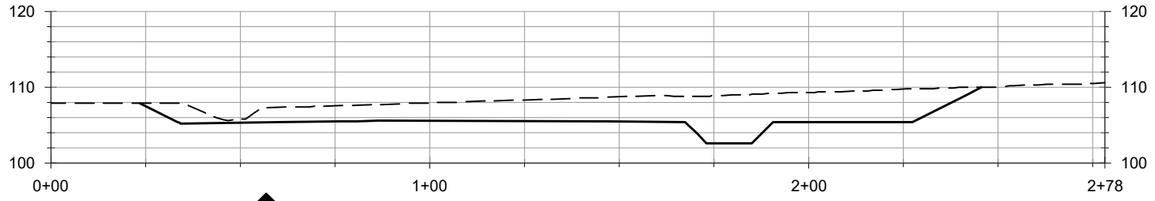
1/5 GRADING SECTION



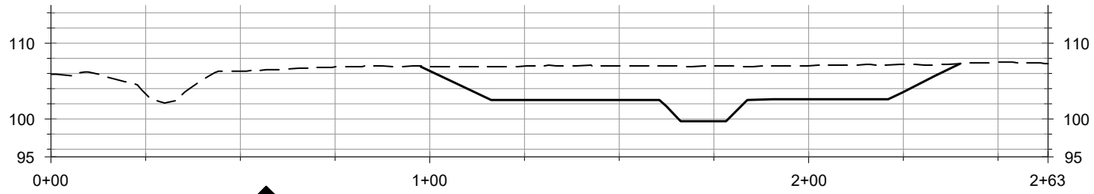
2/5 GRADING SECTION



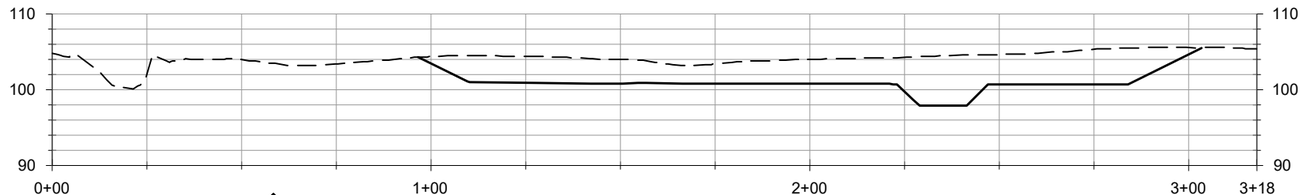
3/5 GRADING SECTION



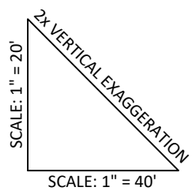
4/5 GRADING SECTION



5/5 GRADING SECTION



6/5 GRADING SECTION



LEGEND

EXISTING GRADE

PROPOSED GRADE

NO.	BY	DATE	REVISION DESCRIPTION

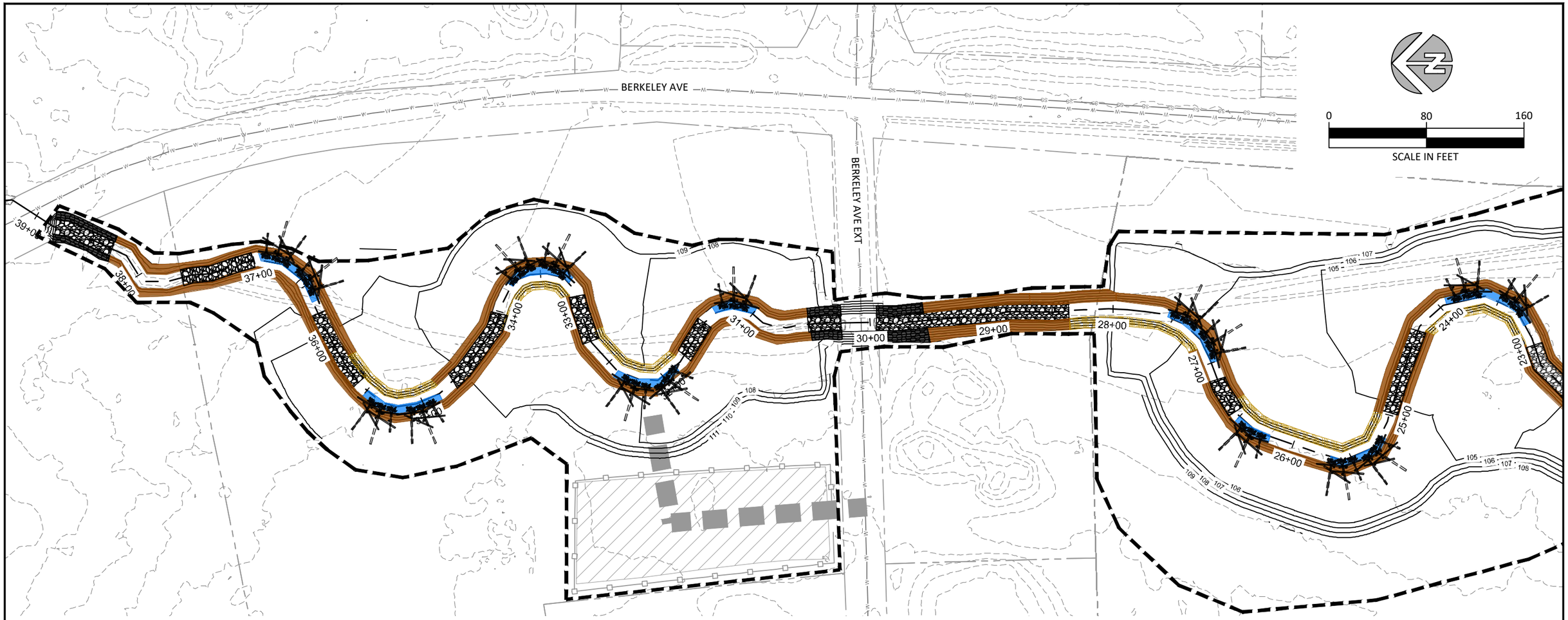
MYS	SS, NN, CC	CC, MH
DRAWN	DESIGNED	CHECKED
----	11-18-2021	21-05-14
APPROVED	DATE	PROJECT

TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

GRADING SECTIONS

SHEET
5 OF 8



LEGEND

- TEMPORARY ACCESS
- LIMITS OF DISTURBANCE
- STAGING AREA
- TAX PARCEL
- SILT FENCE
- EXISTING 1FT CONTOUR
- PROPOSED 1FT CONTOUR
- PROPOSED ALIGNMENT (10+00 — 11+00)
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- POOL
- FES LIFTS
- SURFACE FABRIC
- GRADE CONTROL RIFFLE
- CHANNEL BANK RIPRAP
- LARGE WOOD BANK STABILIZATION

NO.	BY	DATE	REVISION DESCRIPTION

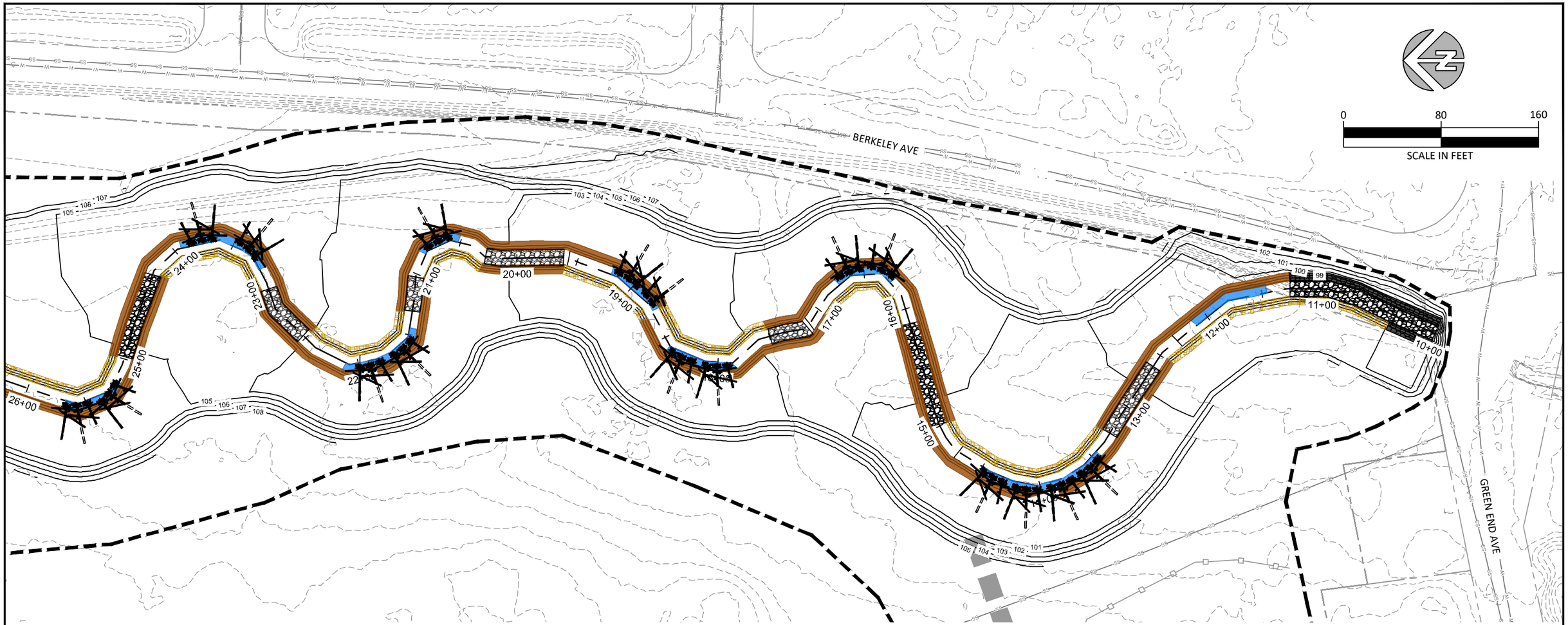
DRAWN	DESIGNED	CHECKED
MYS	SS, NN, CC	CC, MH
APPROVED	DATE	PROJECT
----	11-18-2021	21-05-14

TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

TREATMENT PLAN (1 OF 2)

SHEET 6 OF 8



LEGEND

- TEMPORARY ACCESS
- LIMITS OF DISTURBANCE
- STAGING AREA
- TAX PARCEL
- SILT FENCE
- EXISTING 1FT CONTOUR
- PROPOSED 1FT CONTOUR
- PROPOSED ALIGNMENT
- 10+00 11+00
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- POOL
- FES LIFTS
- SURFACE FABRIC
- GRADE CONTROL RIFFLE
- CHANNEL BANK RIPRAP
- LARGE WOOD BANK STABILIZATION

NO.	BY	DATE	REVISION DESCRIPTION

DRAWN	DESIGNED	CHECKED
MYS	SS, NN, CC	CC, MH
APPROVED	DATE	PROJECT
----	11-18-2021	21-05-14

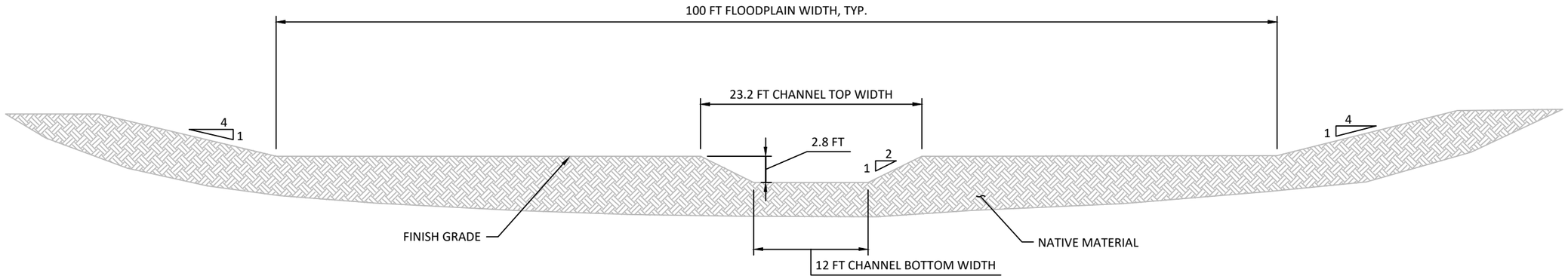
TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter-fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

TREATMENT PLAN (2 OF 2)

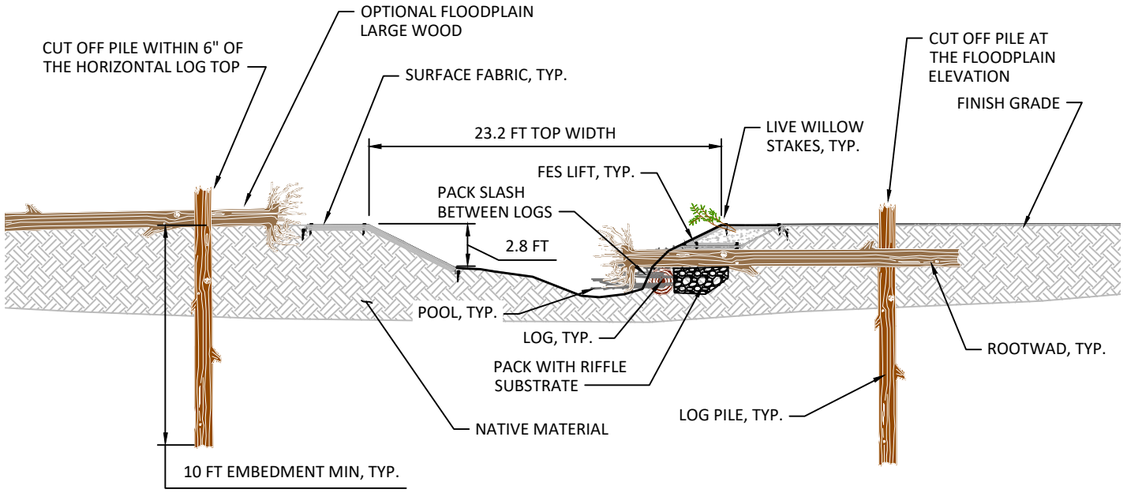
SHEET 7 OF 8

G:\Work\Projects\Middleton_RI\Maidford_River\R...mxd - 11/8/21



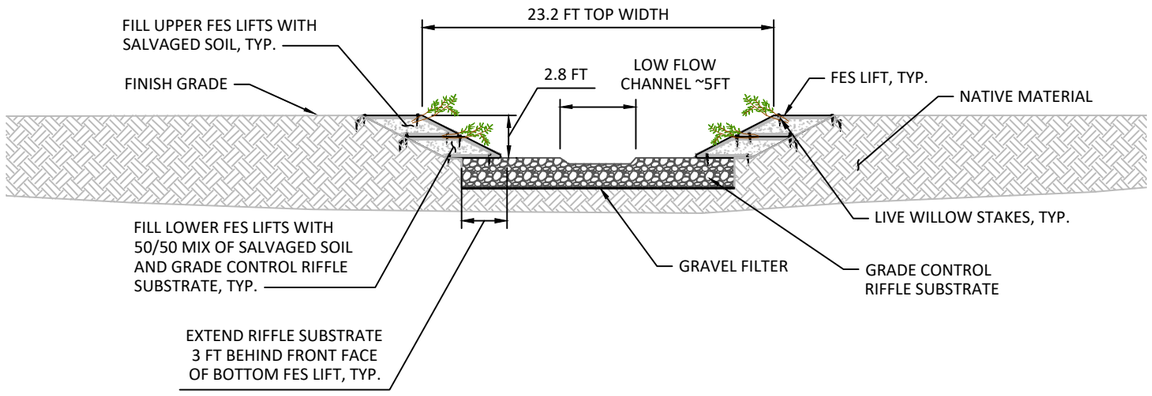
1/8 TYPICAL GRADING SECTION

NOT TO SCALE



2/8 TYPICAL POOL SECTION

NOT TO SCALE



3/8 TYPICAL RIFFLE SECTION

NOT TO SCALE

NO.	BY	DATE	REVISION DESCRIPTION

MYS	SS, NN, CC	CC, MH
DRAWN	DESIGNED	CHECKED
----	11-18-2021	21-05-14
APPROVED	DATE	PROJECT

TOWN OF MIDDLETON RI
MAIDFORD RIVER RESTORATION
30% DESIGN

inter·fluve
220 Concord Avenue, 2nd Floor
Cambridge, MA 02136
617.714.5537
www.interfluve.com

TYPICAL SECTIONS

SHEET 8 OF 8

G:\Users\conor\Documents\Work_Projects\Middleton_RI\Maidford_River\R_Maidford_River_Plans_-_morel_-_11-18-21