

Plate 3 List of Plates Depicting Existing Conditions and Alternative Measures:

Plate 4 Site Plan – Existing Condition – Pumping Station Dam

Plate 5 Site Plan – Fish Ladder – Pumping Station Dam

Plate 6 Pumping Station Dam – Fishway Plan & Profiles

Plate 7 Pumping Station Dam – Sections

Plate 8 Site Plan – Existing Condition – Swimming Pool Dam

Plate 9 Site Plan – Fish Ladder – Swimming Pool Dam

Plate 10 Swimming Pool Dam – Plan, Section & Profile

Plate 11 Swimming Pool Dam – Sections & Details

Plate 12 Site Plan – Existing Condition – Mill Street Dam

Plate 13 Site Plan – Remove Existing Dam – Mill Street Dam

Plate 14 Site Plan – Fish Ladder – Mill Street Dam

Plate 15 Mill Street Dam – Sections & Details

Plate 16 Mill Street Dam – Sections & Details

Plate 17 Site Plan – Existing Condition – Wiley & Russell Dam

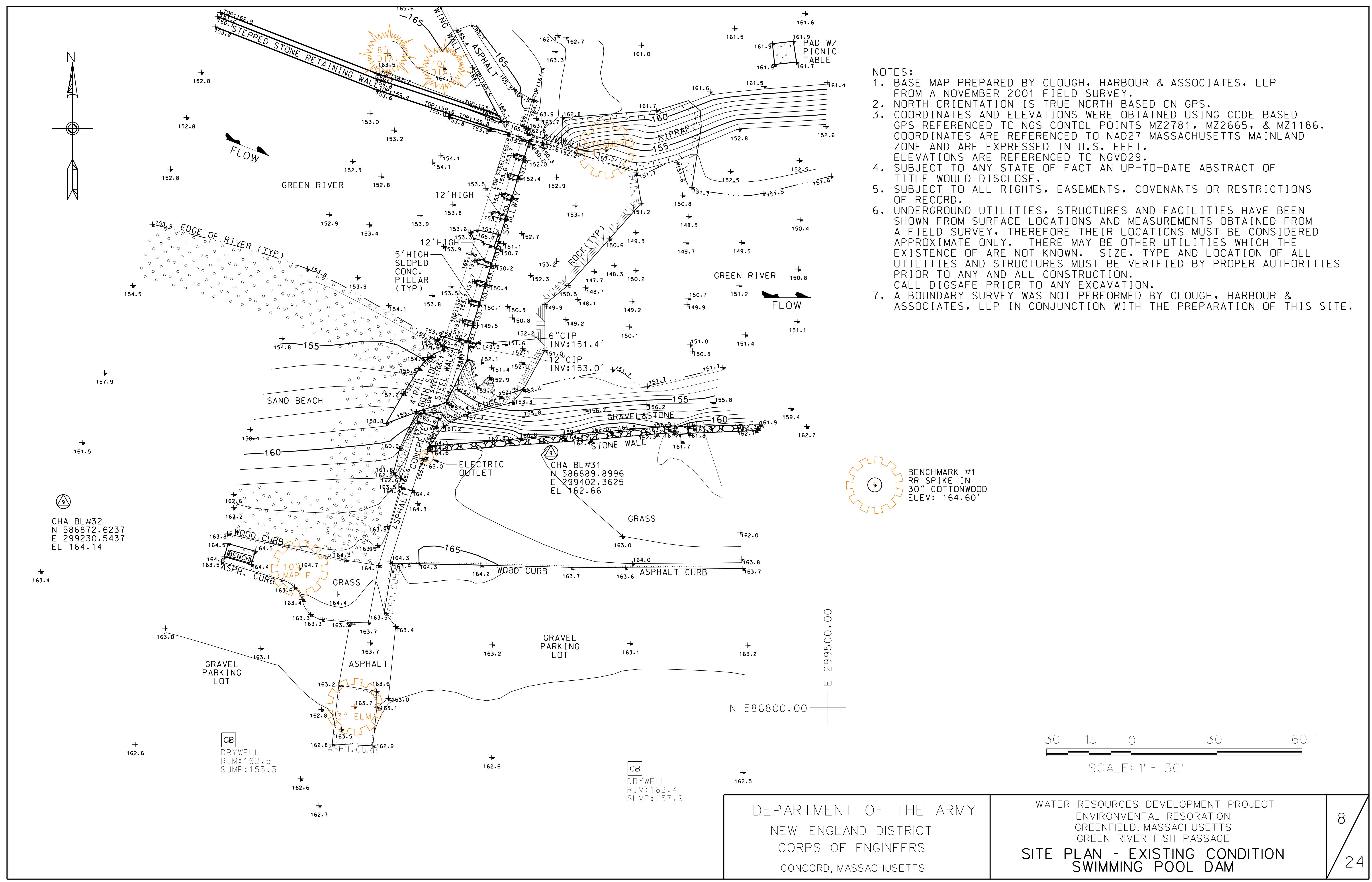
Plate 18 Site Plan – Remove Existing Dam – Wiley & Russell Dam

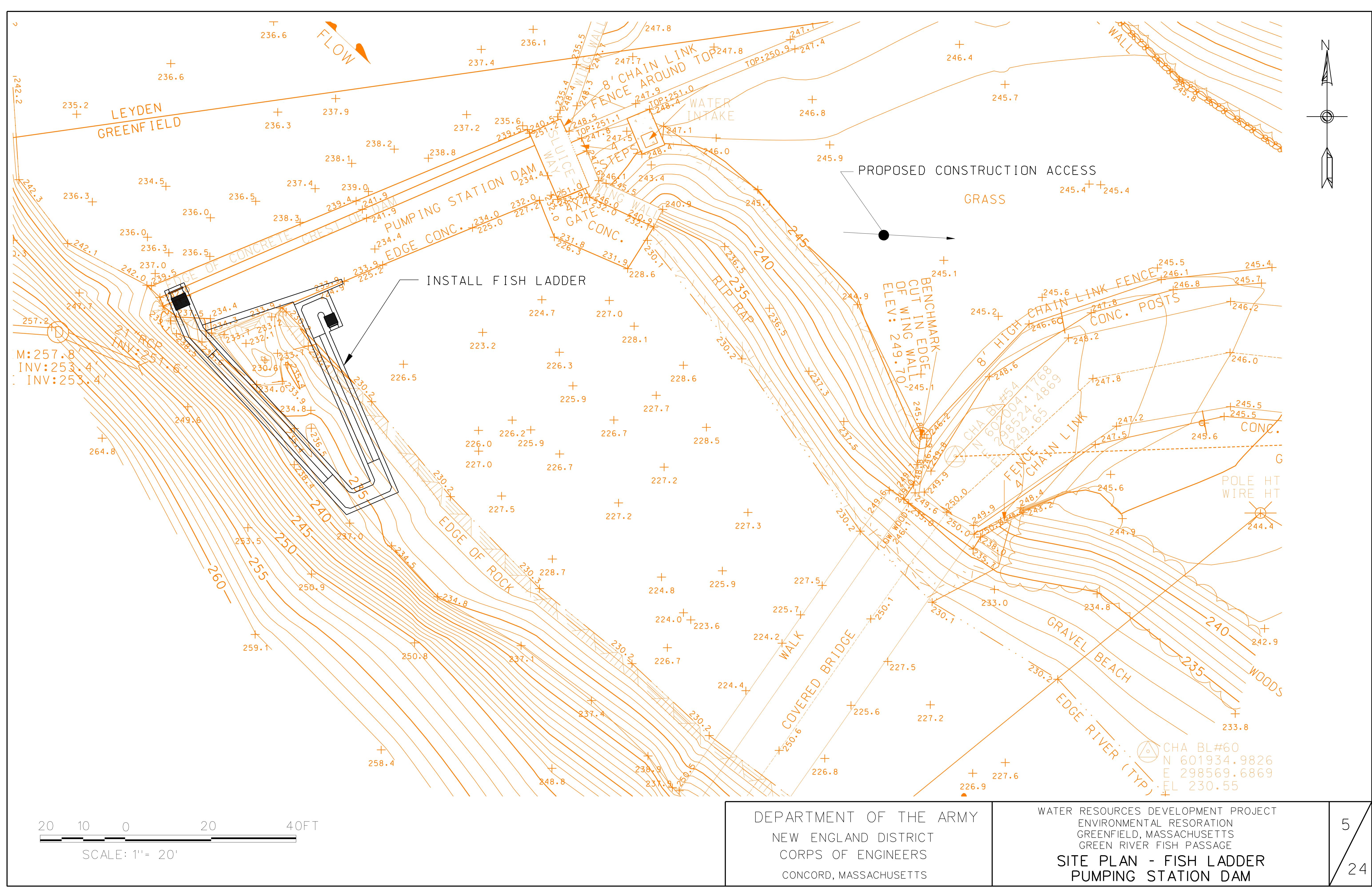
Plate 19 Site Plan – Fish Ladder – Wiley & Russell Dam

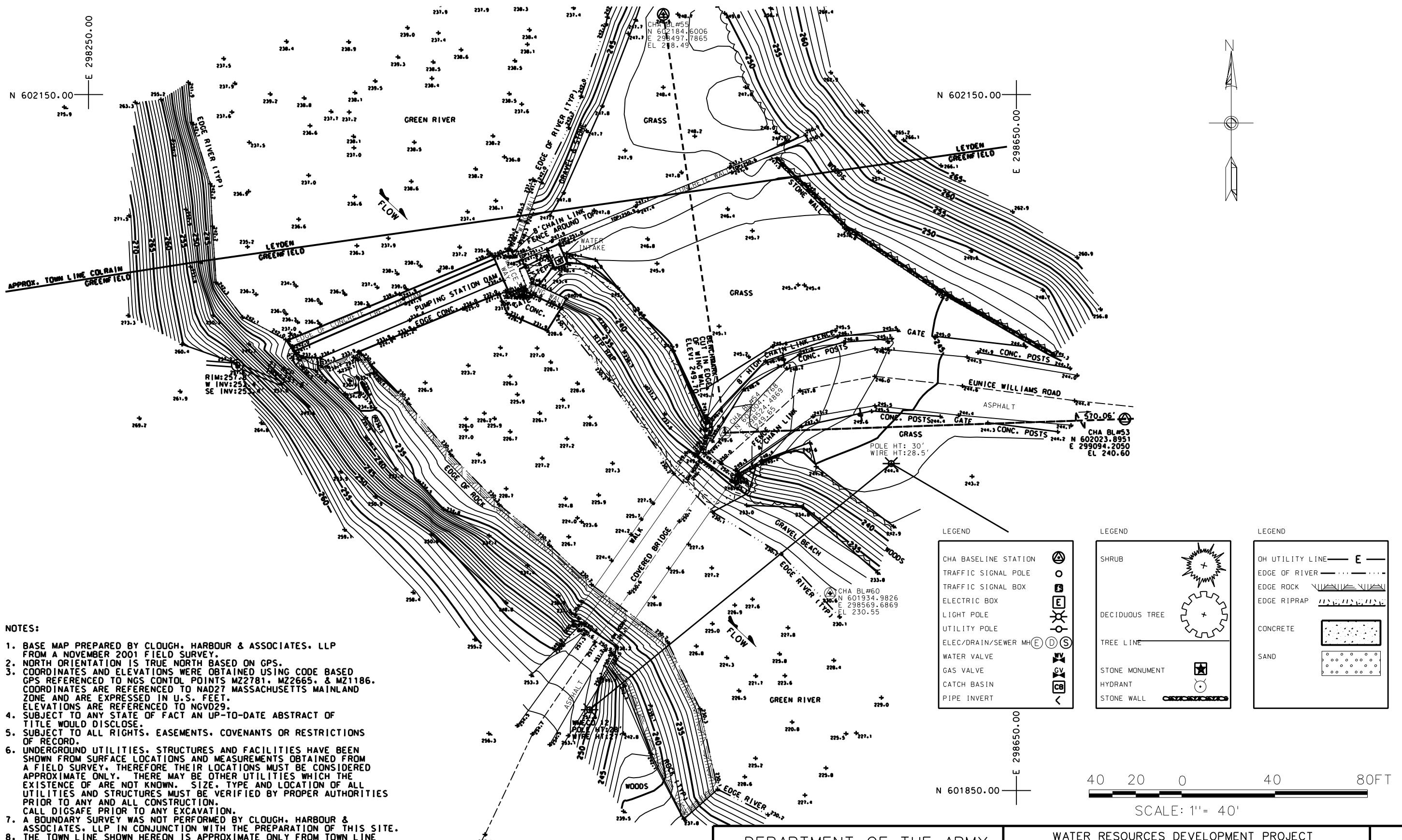
Plate 20 Site Plan – Rock Ramp Fishway – Wiley and Russell Dam

Plate 21 Wiley & Russell Dam – Fish Ladder Plan, Profiles, Section & Details

Plate 22 Wiley & Russell Dam – Rock Ramp Fishway Sections

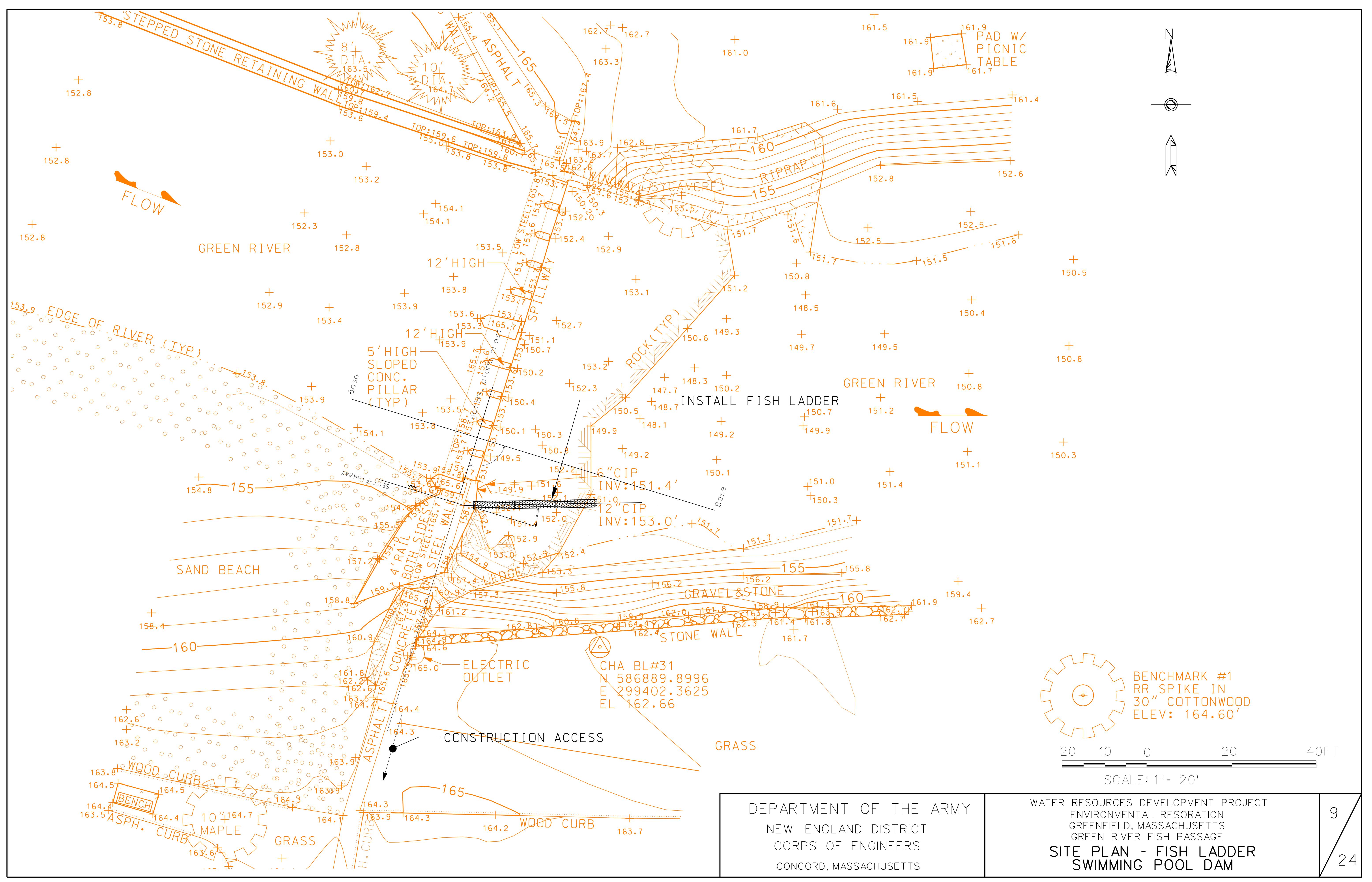


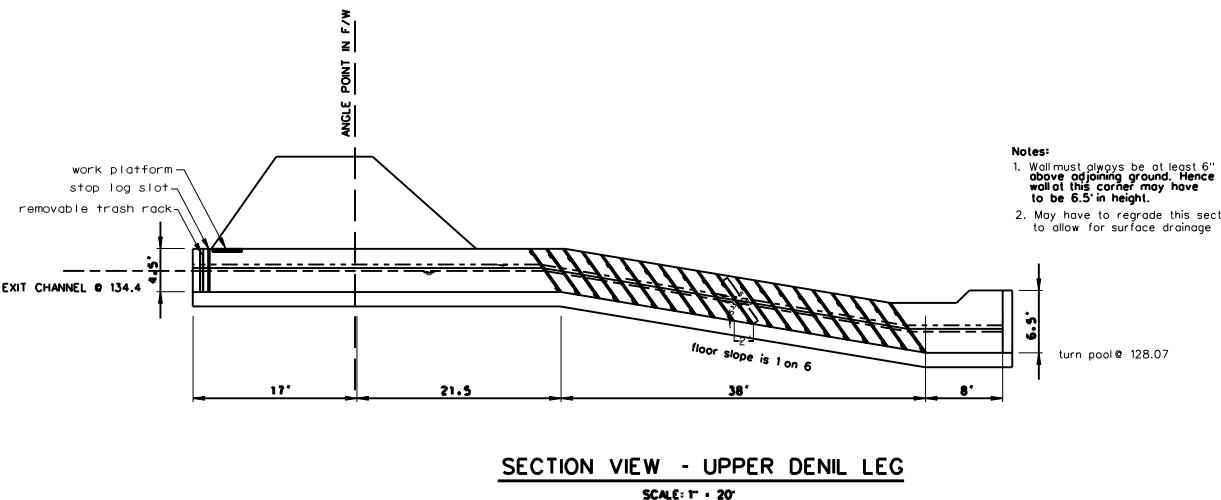
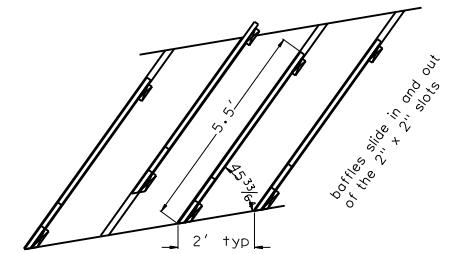
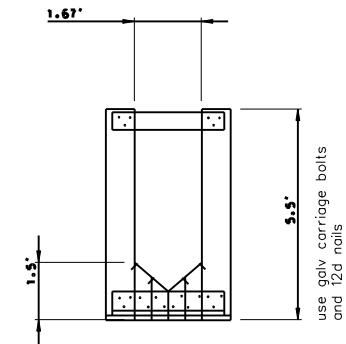
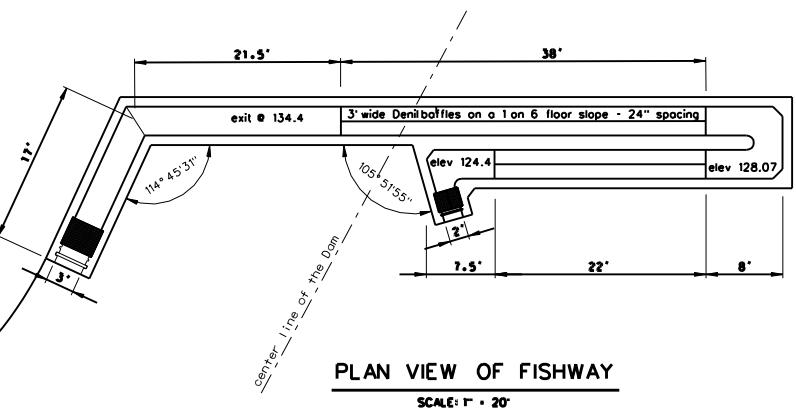




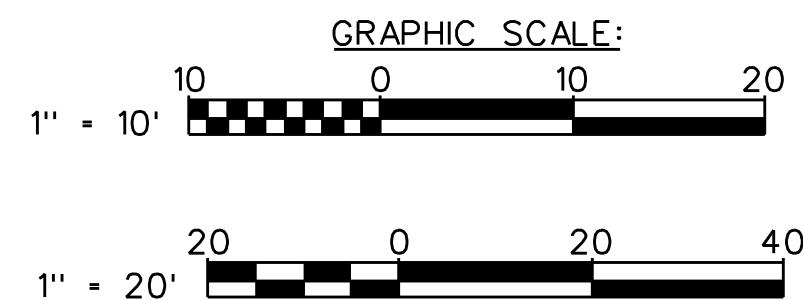
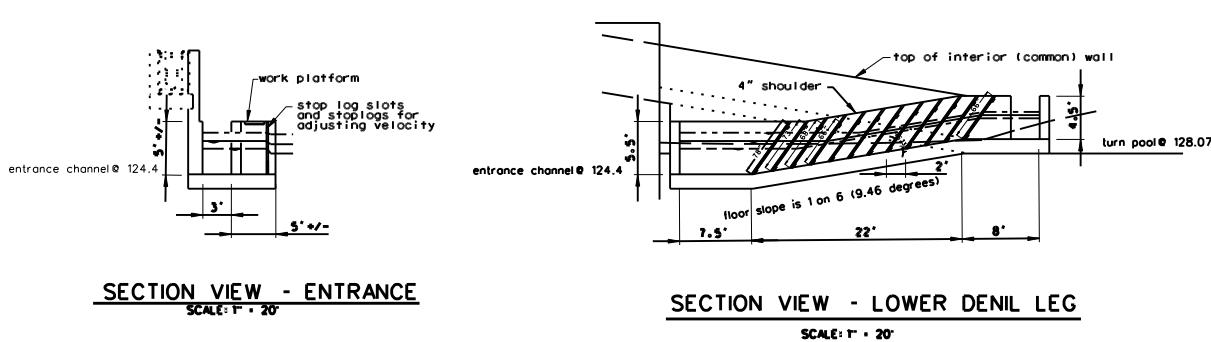
DEPARTMENT OF THE ARMY
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CONCORD, MASSACHUSETTS

WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
SITE PLAN - EXISTING CONDITION
PUMPING STATION DAM



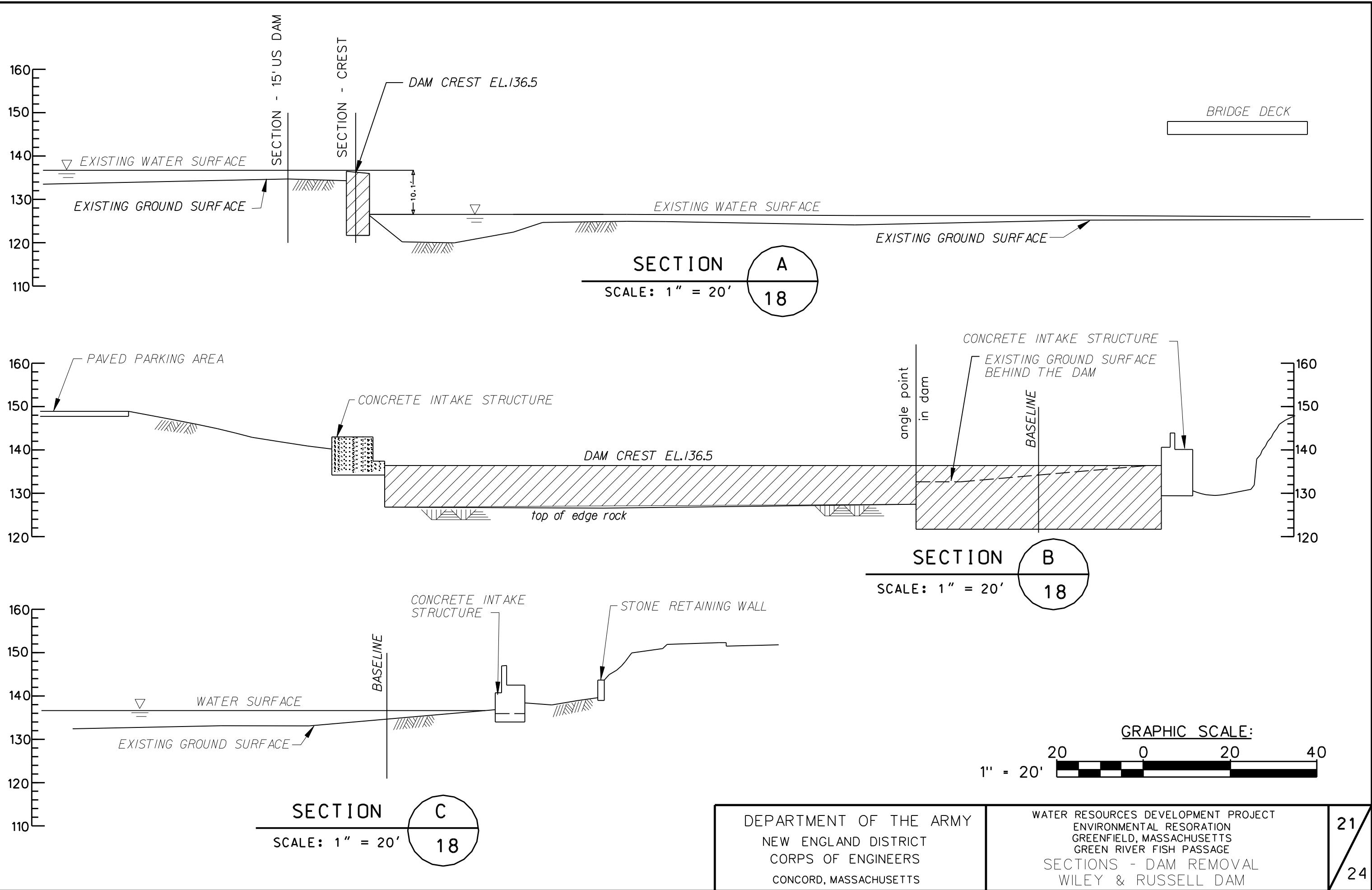


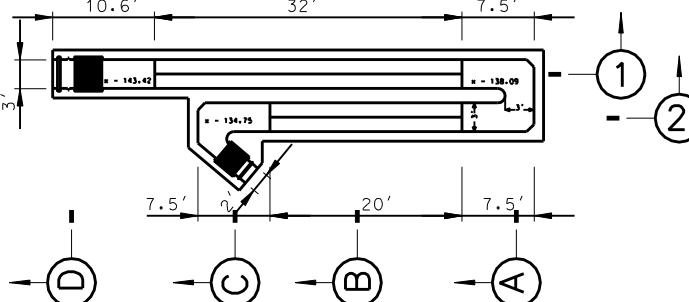
DENIL BAFFLE DETAILS
SCALE: 1" = 10'



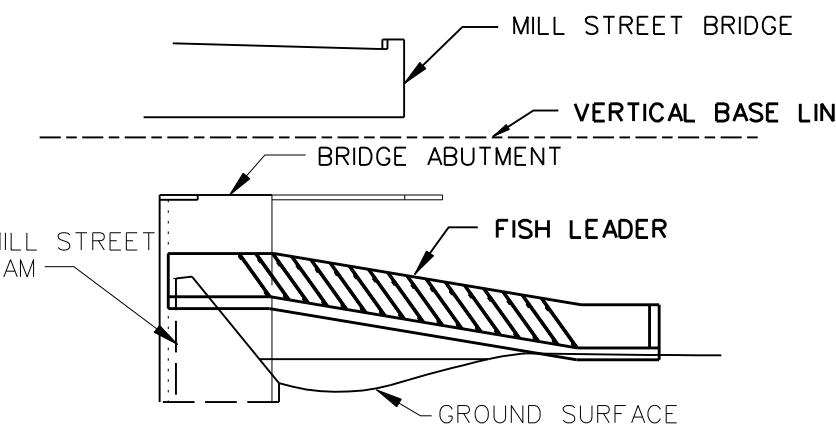
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WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESTORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
PLAN, PROFILES, SECTION & DETAILS
WILEY AND RUSSELL DAM

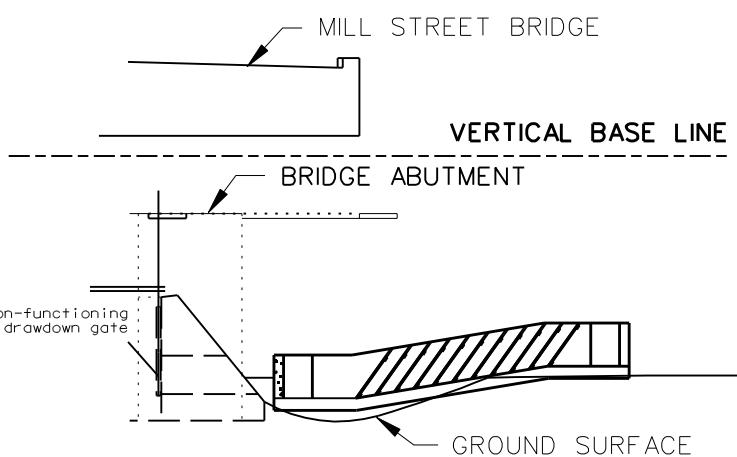




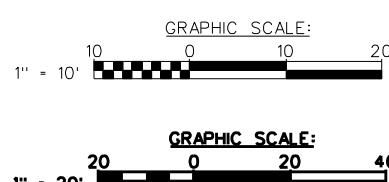
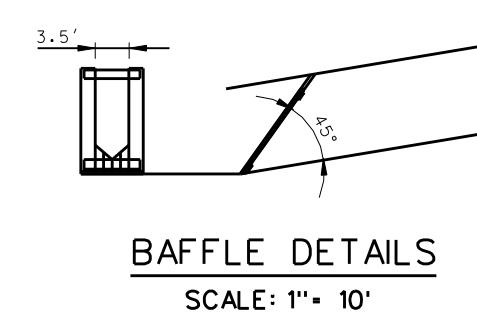
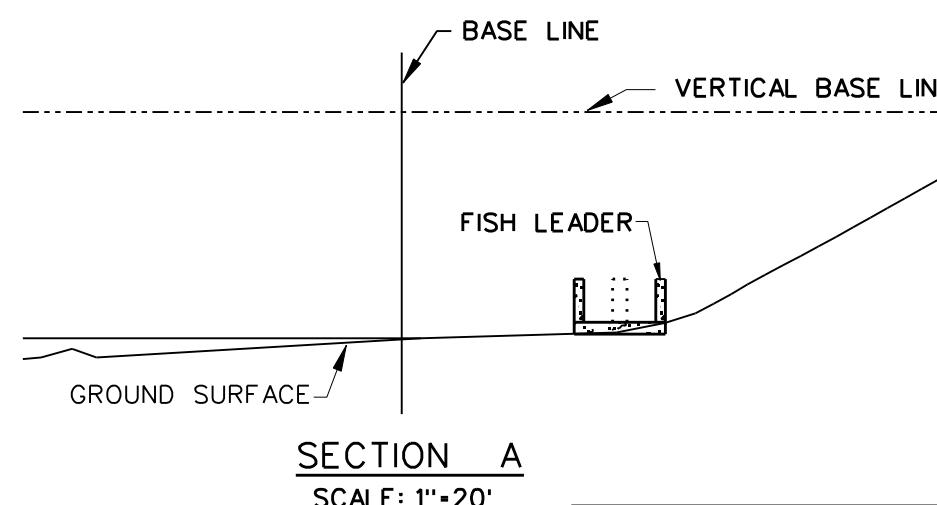
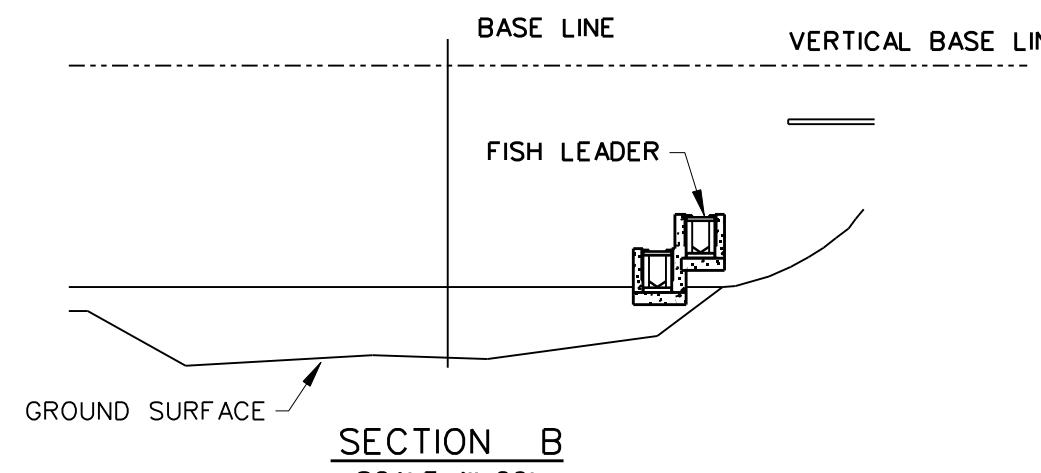
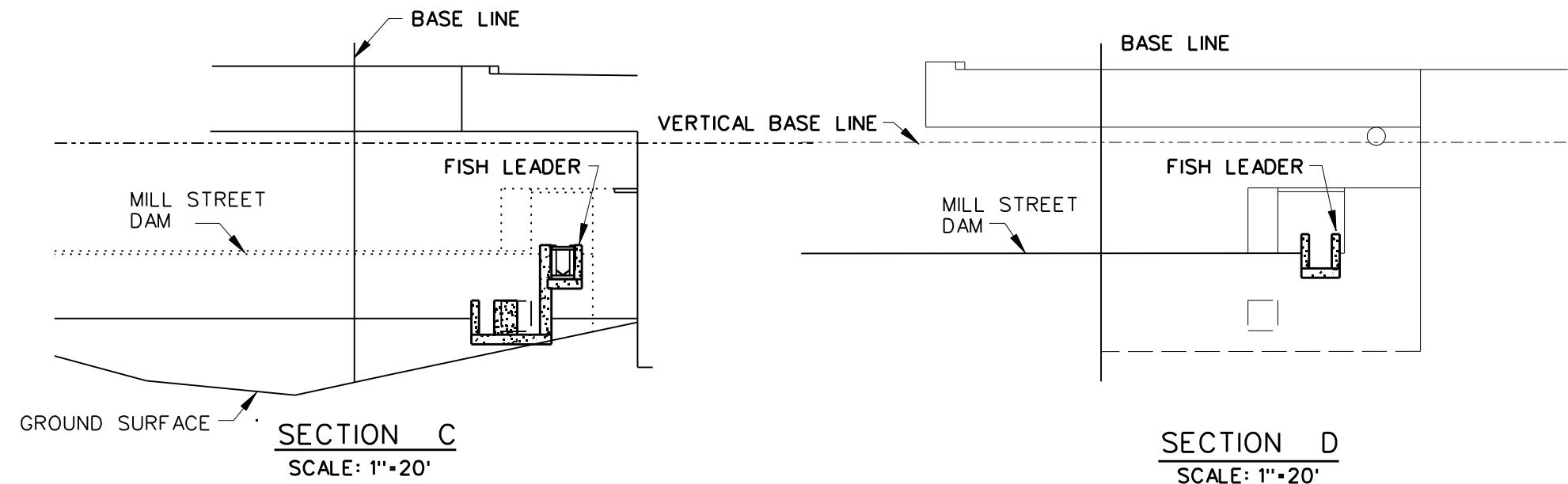
PLAN
SCALE: 1"-20'



PROFILE 1
SCALE: 1"-20'

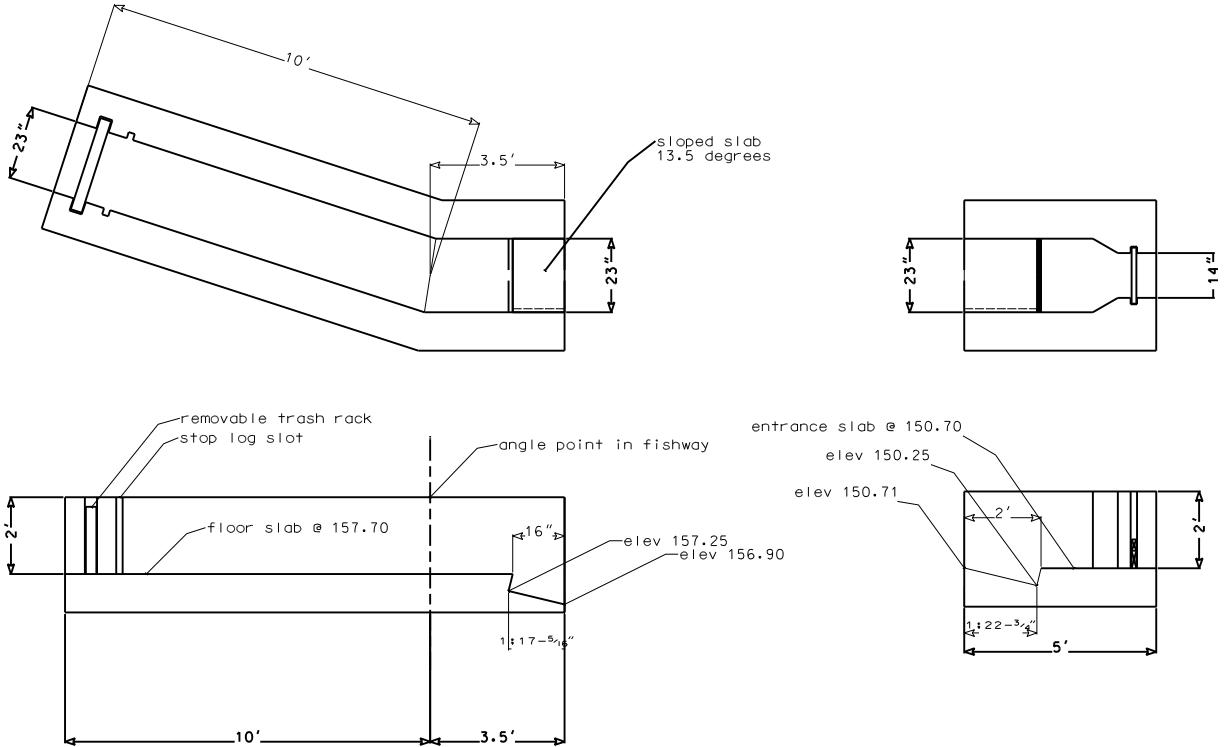


PROFILE 2
SCALE: 1"-20'



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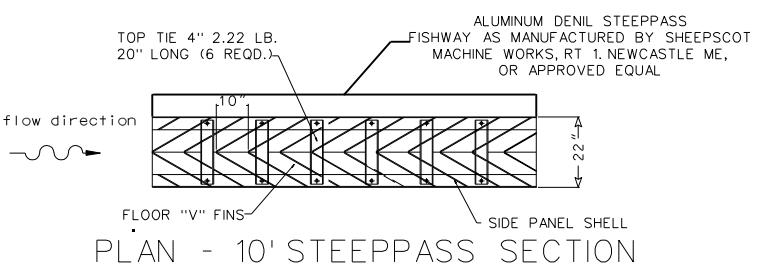
WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESTORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
SECTIONS AND DETAILS
MILL STREET DAM



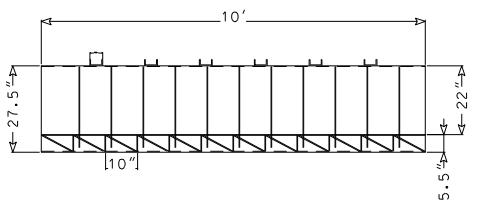
Note:
Measurements are along the center line of the fishway

ENTRANCE & EXIT DETAILS

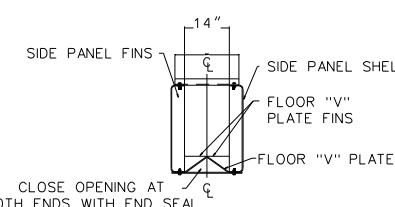
N.T.S.



PLAN - 10' STEEPPASS SECTION



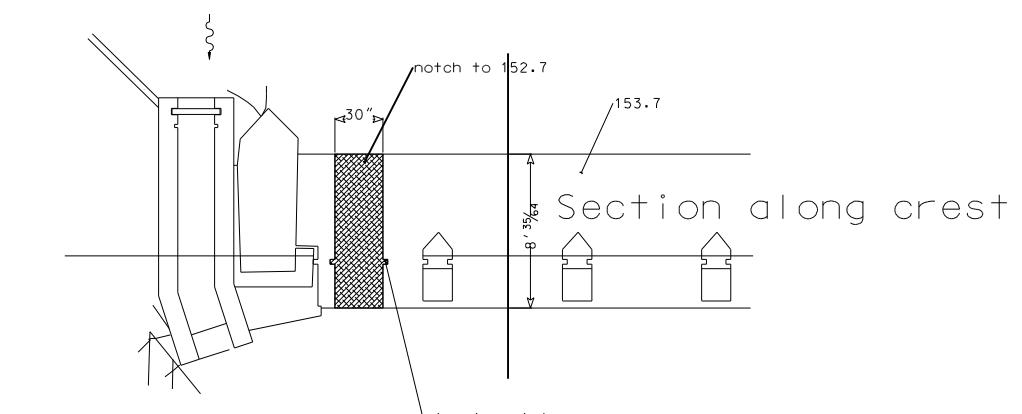
SECTION



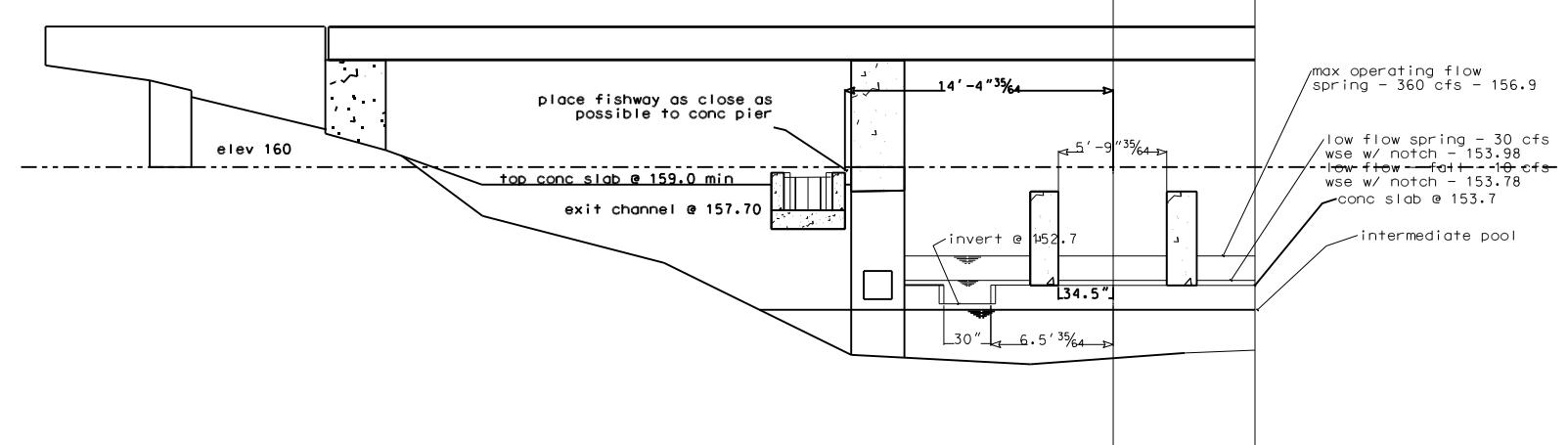
END SECTION

STEEPPASS DETAILS

N.T.S.



Base



Section along crest - fall/spring ops

Base

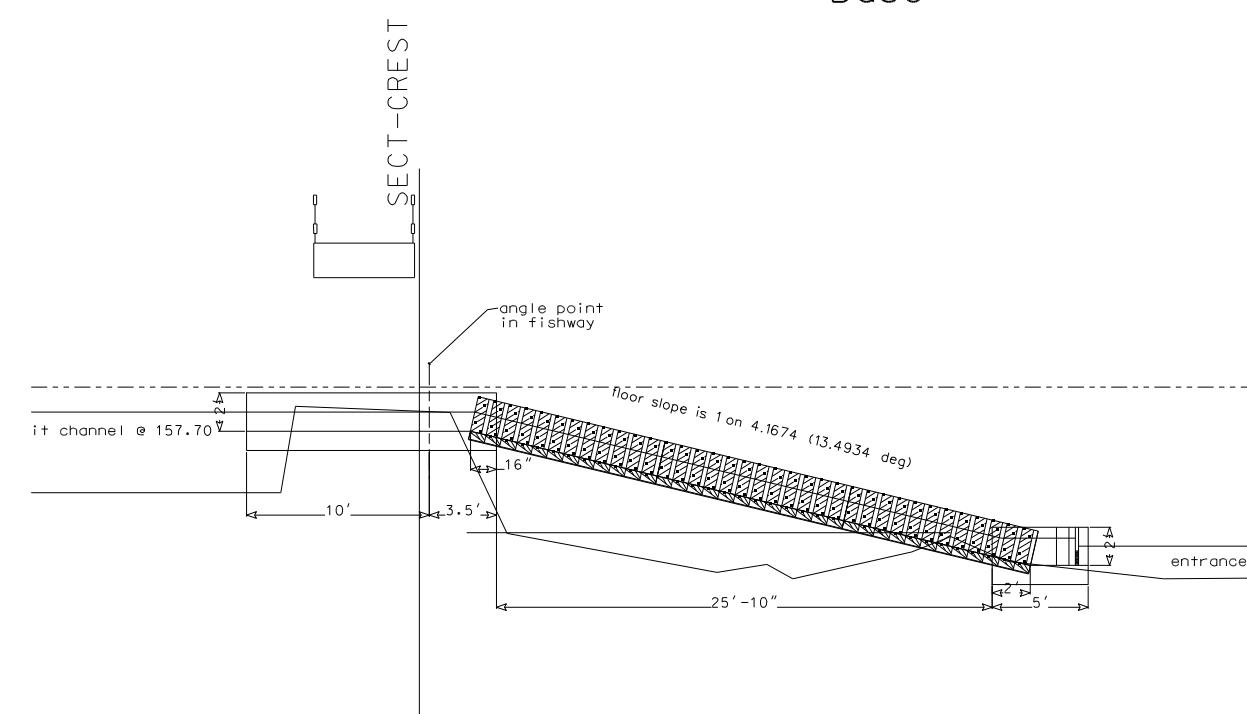
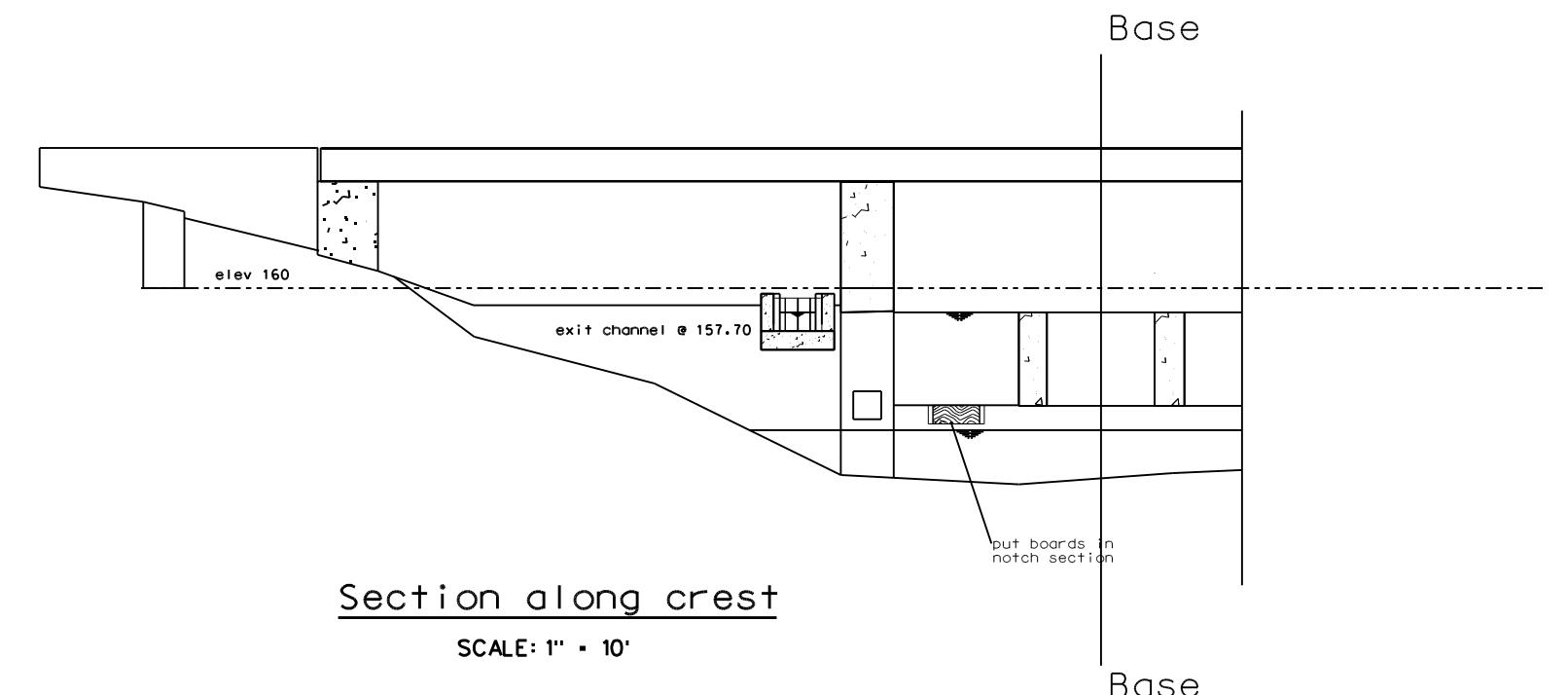
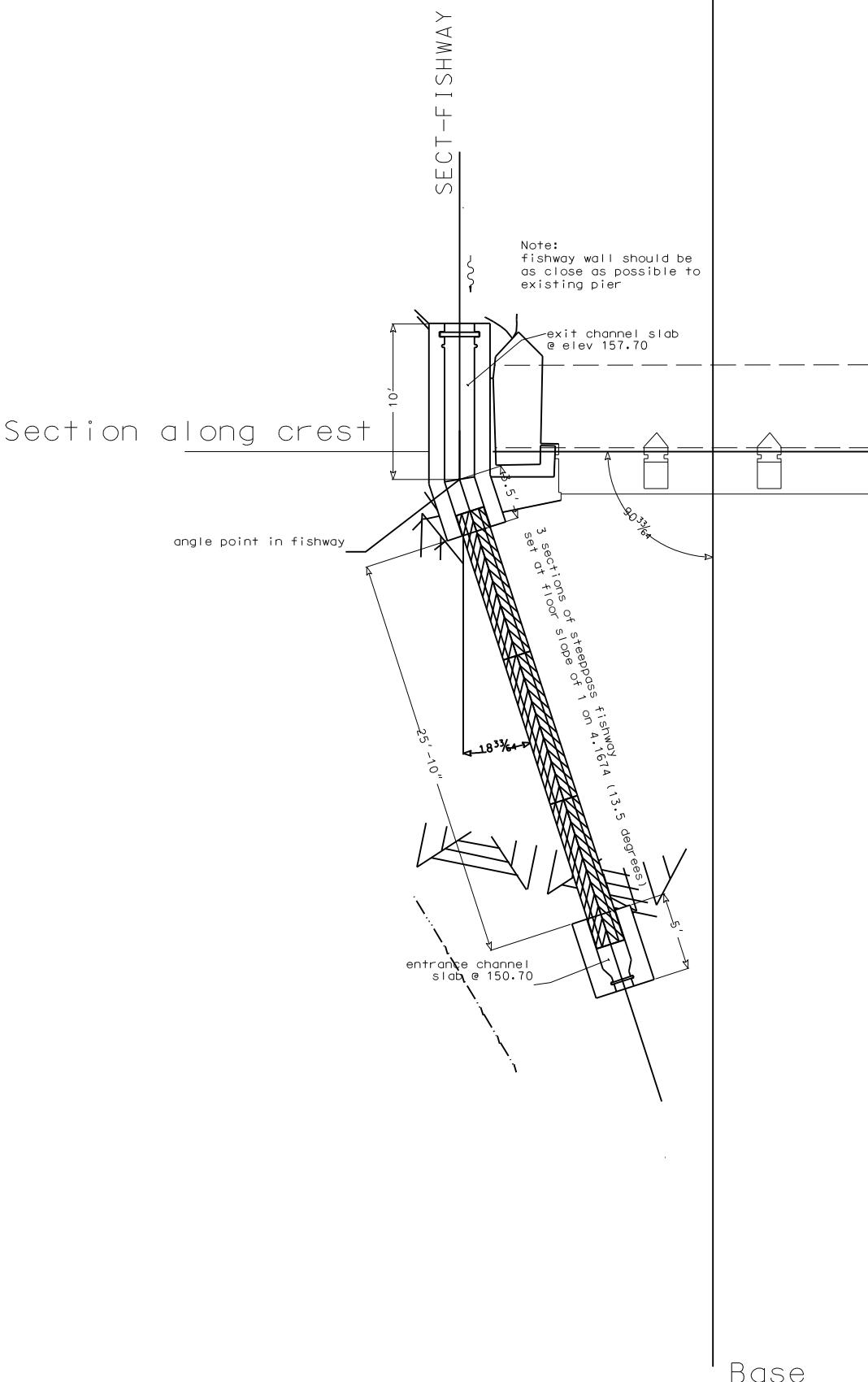
NOTCH DETAILS

N.T.S.

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WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESTORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
SECTIONS AND DETAILS
SWIMMING POOL DAM

PLAN VIEW FISHWAY
WITHOUT NOTCH
SCALE: 1" - 10'



PROFILE ALONG FISHWAY

SCALE: 1" - 10'

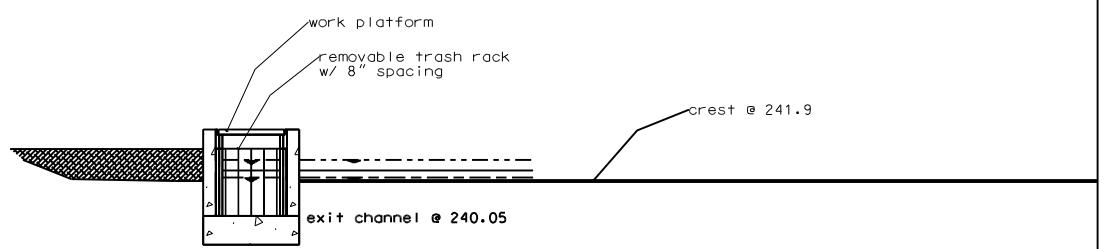
SCALE: 1" - 10'

5'	3'	1'	5'
4'	2'	0'	10'
20'			

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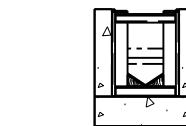
WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESTORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
SWIMMING POOL
PLAN, SECTION & PROFILE

10
24



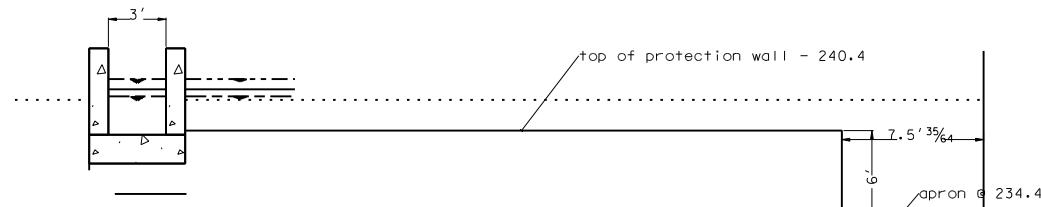
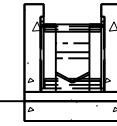
elev 230 —

SECTION VIEW
@ CREST OF DAM

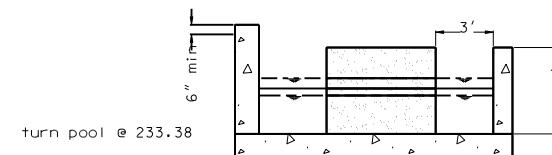


elev 230 —

SECTION A - A
25' d/s APRON

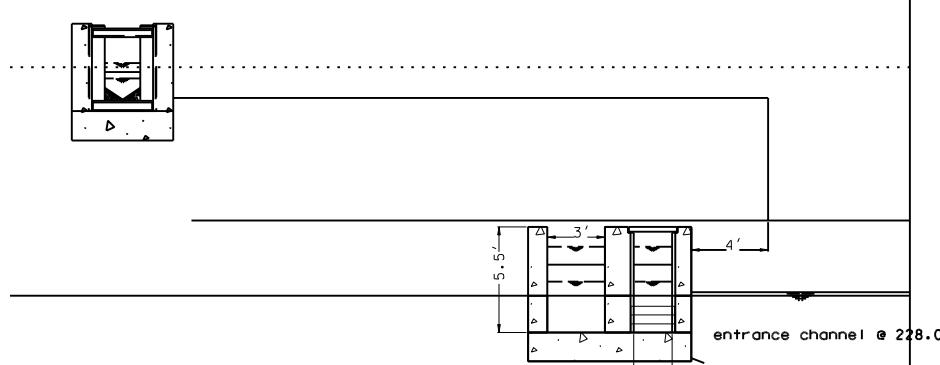


Note:
top of wall must be a minimum of
6" above finished grade.



elev 230 —

SECTION B - B
50' d/s APRON

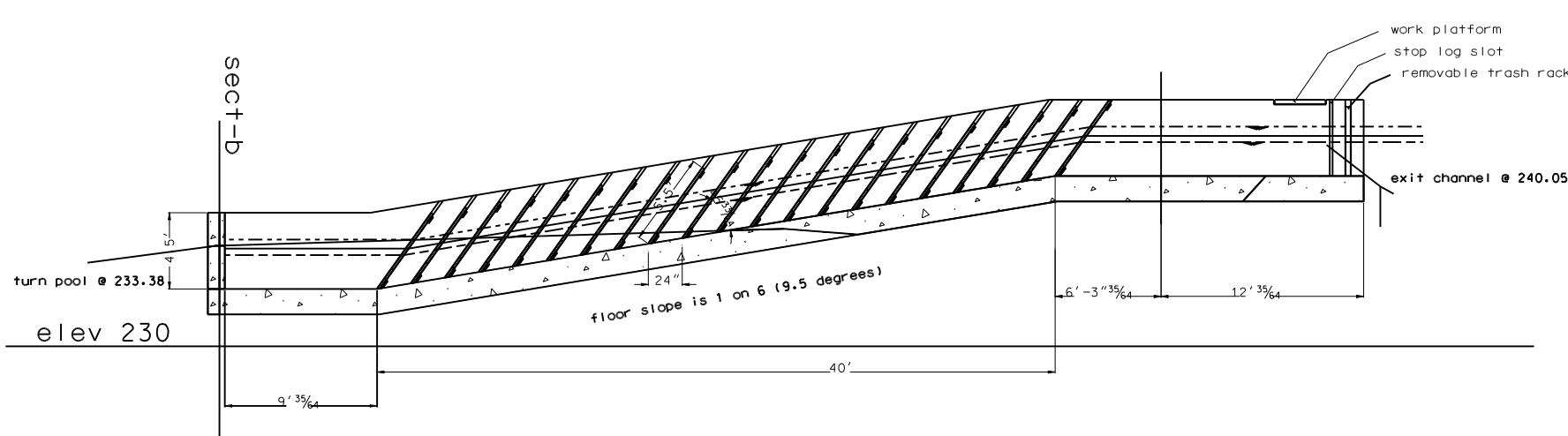
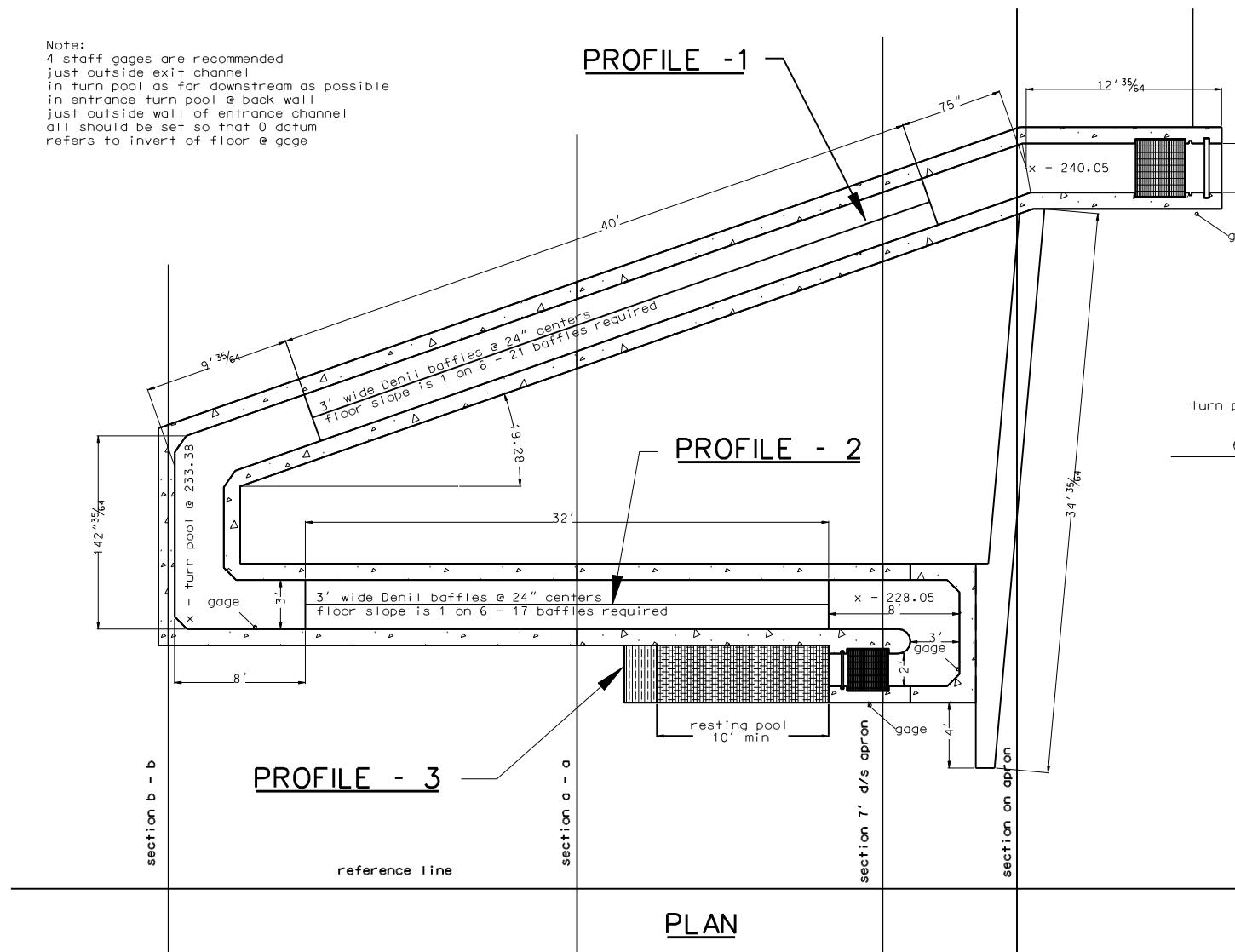


SECTION VIEW
7' D/S END OF APRON

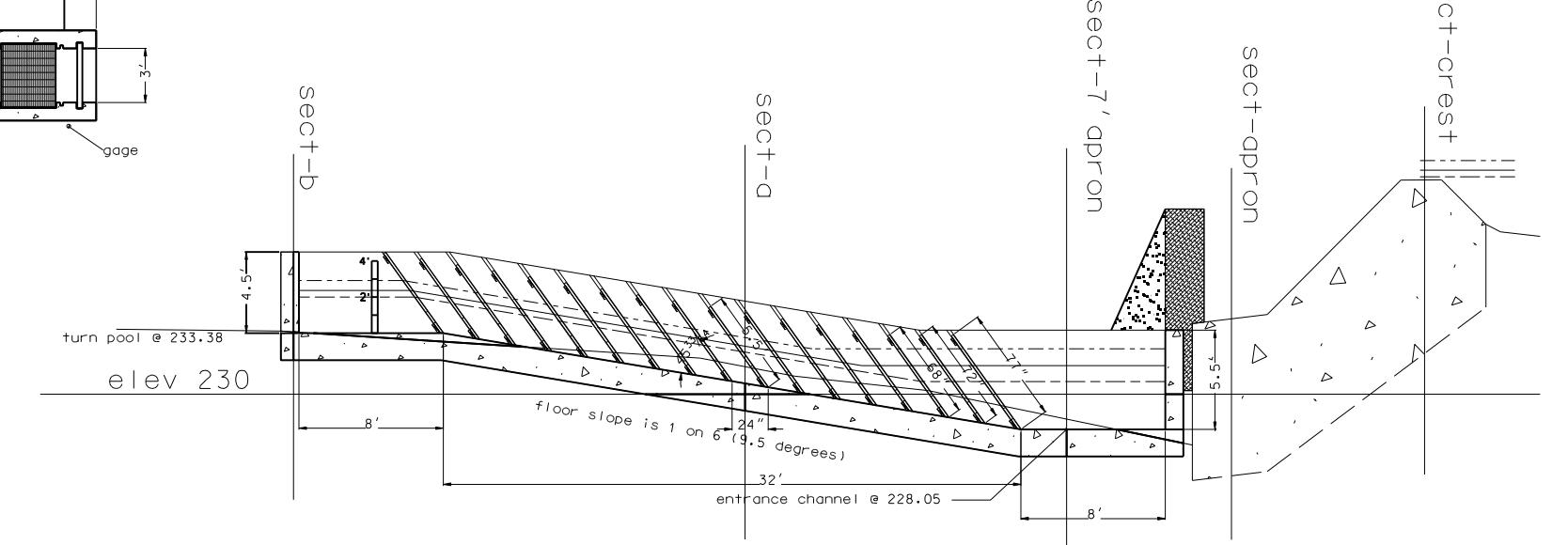
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WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESTORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
PUMPING STATION DAM
SECTIONS

Note:
 4 staff gages are recommended
 just outside exit channel
 in turn pool as far downstream as possible
 in entrance turn pool @ back wall
 just outside wall of entrance channel
 all should be set so that 0 datum
 refers to invert of floor @ gage

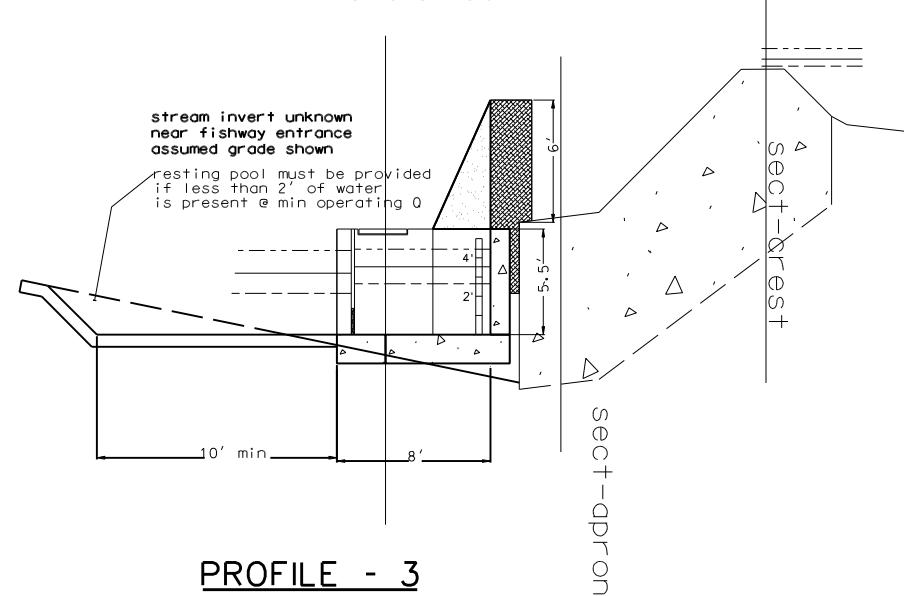


PROFILE - 1



PROFILE - 2

Note:
 stop logs must be adjusted inside of slots
 in fishway entrance to obtain a head
 difference of 6" at low flows and 4"
 at normal flows



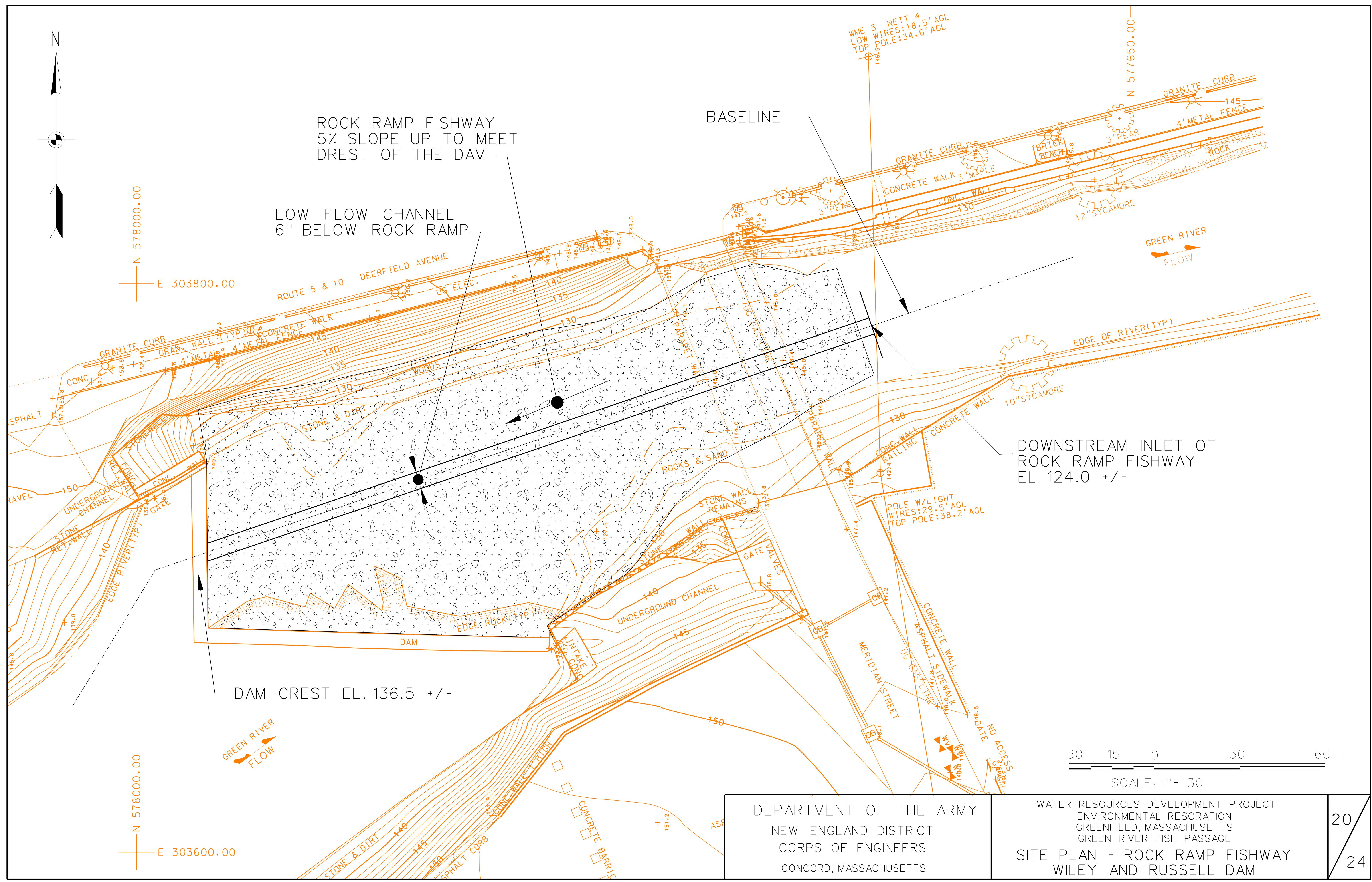
PROFILE - 3

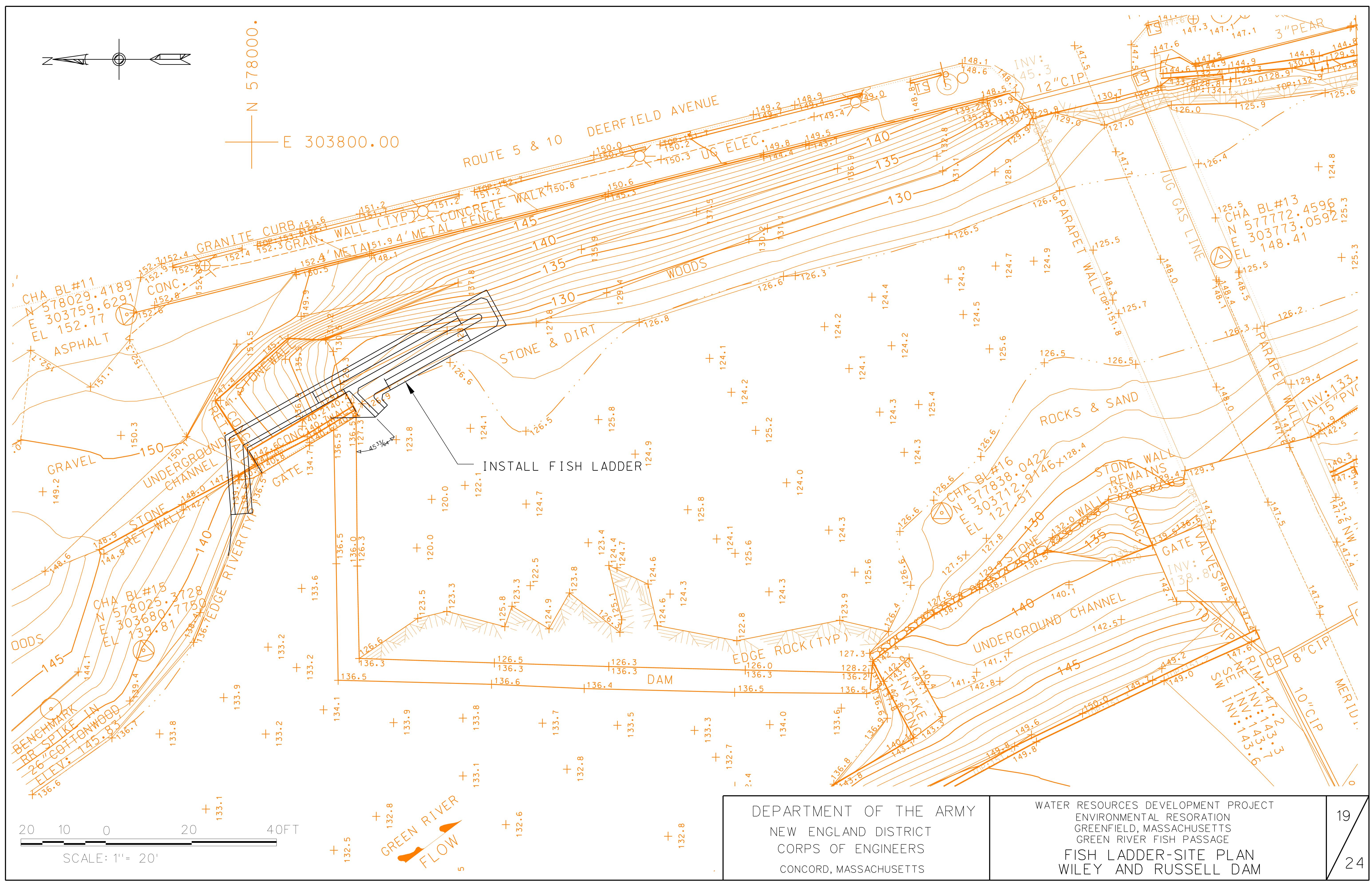
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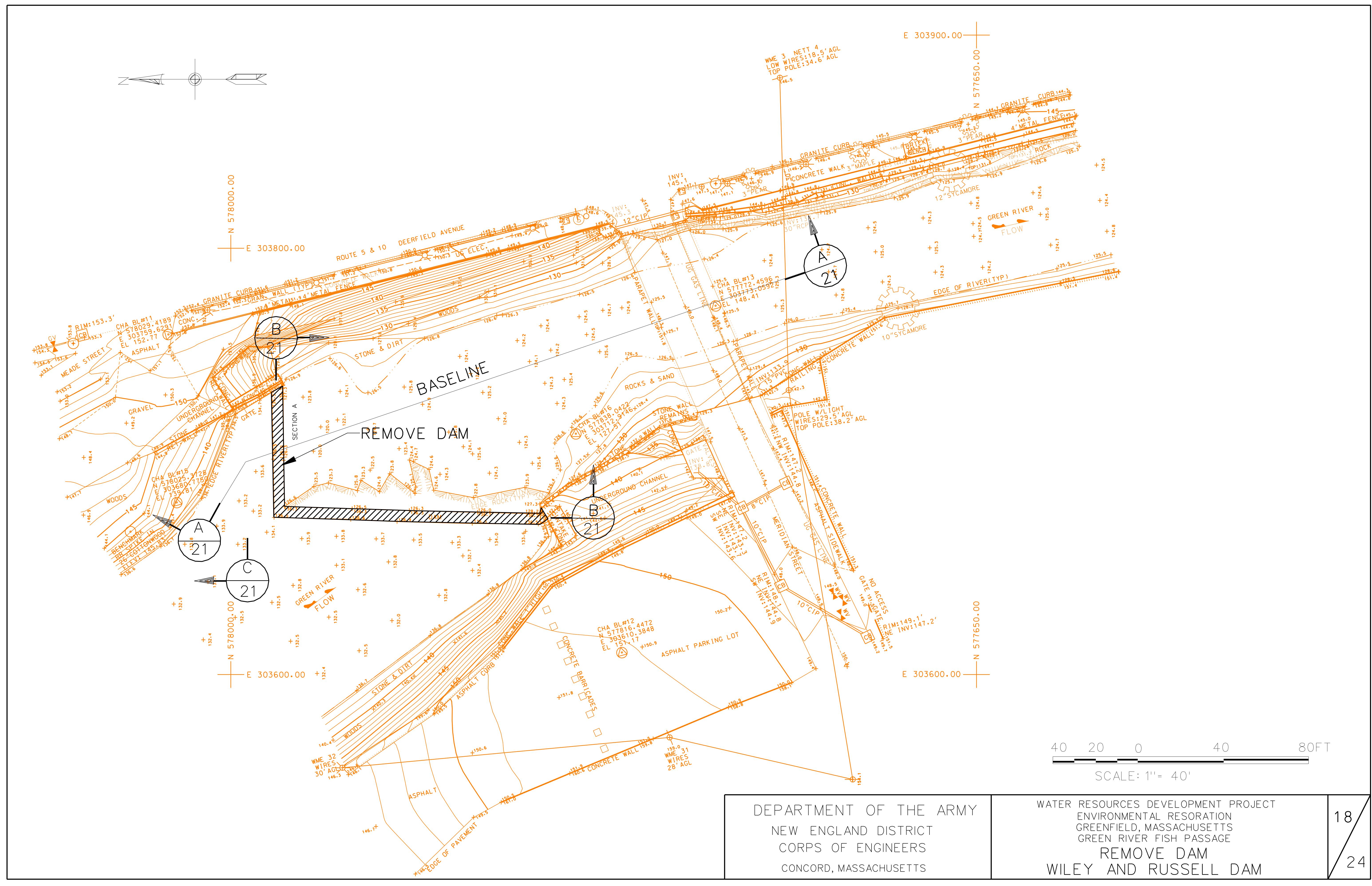
SCALE: 1" = 10'

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WATER RESOURCES DEVELOPMENT PROJECT
 ENVIRONMENTAL RESTORATION
 GREENFIELD, MASSACHUSETTS
 GREEN RIVER FISH PASSAGE
**PUMPING STATION DAM
 FISHWAY PLAN & PROFILES**



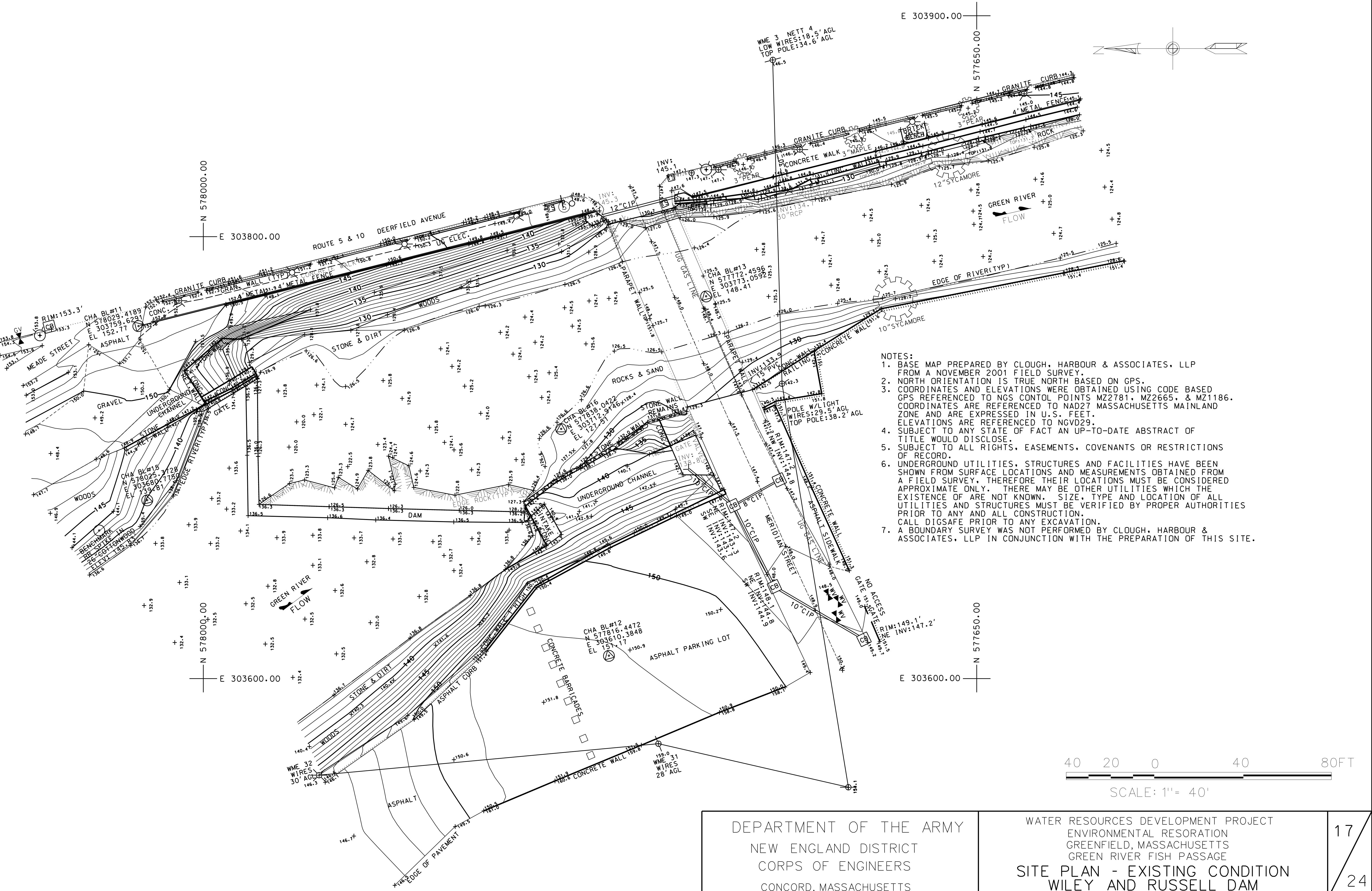


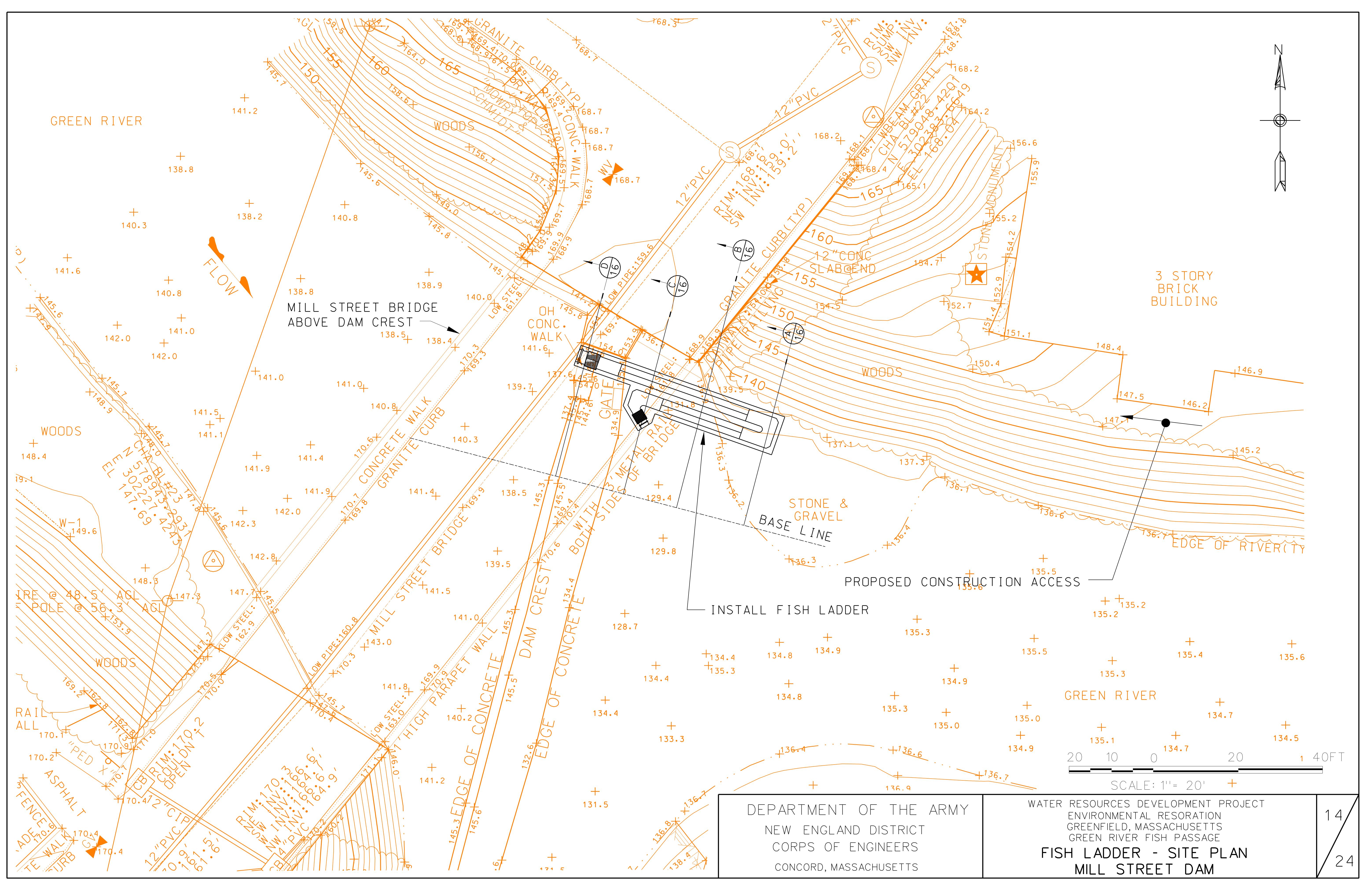


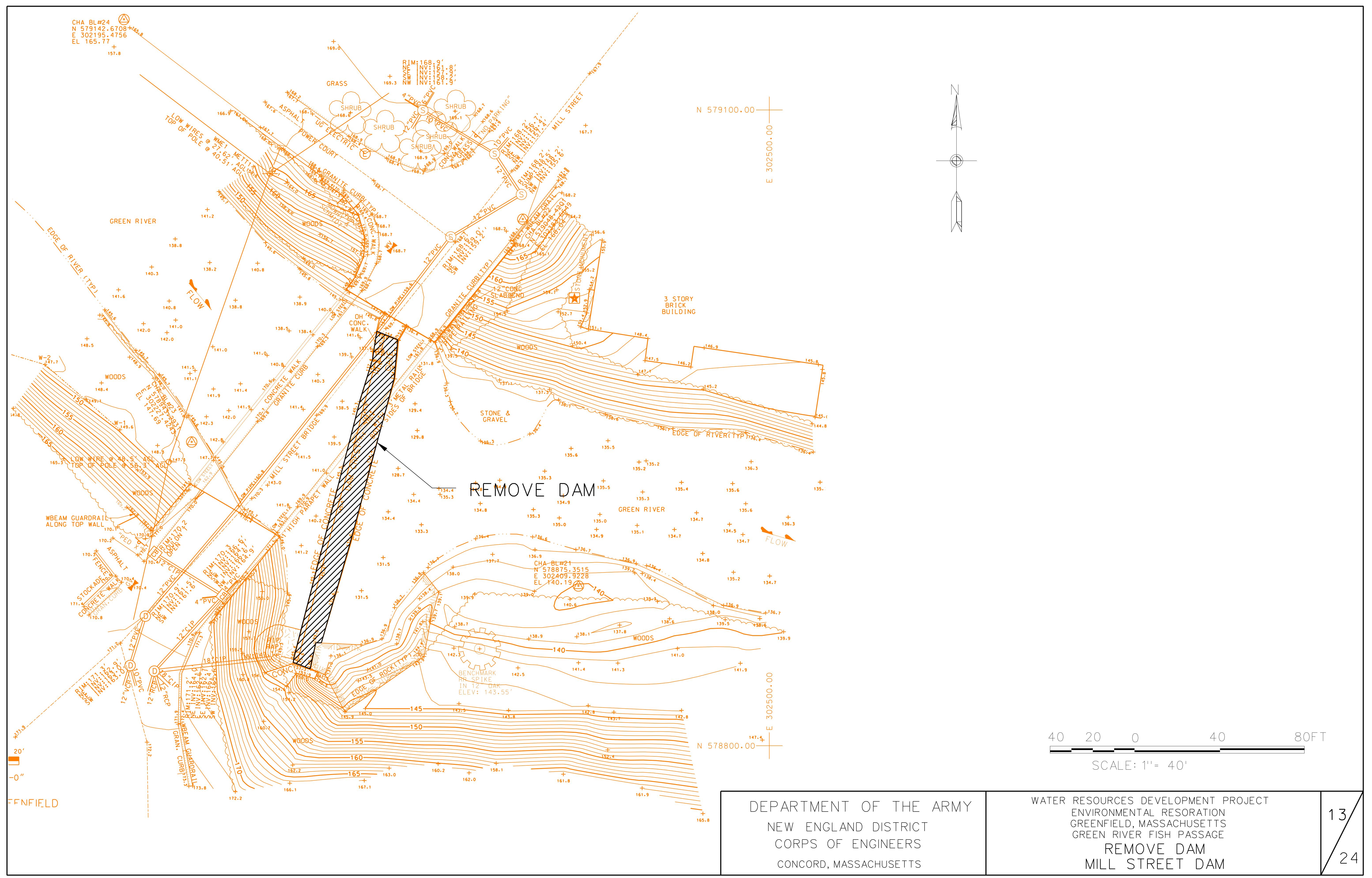
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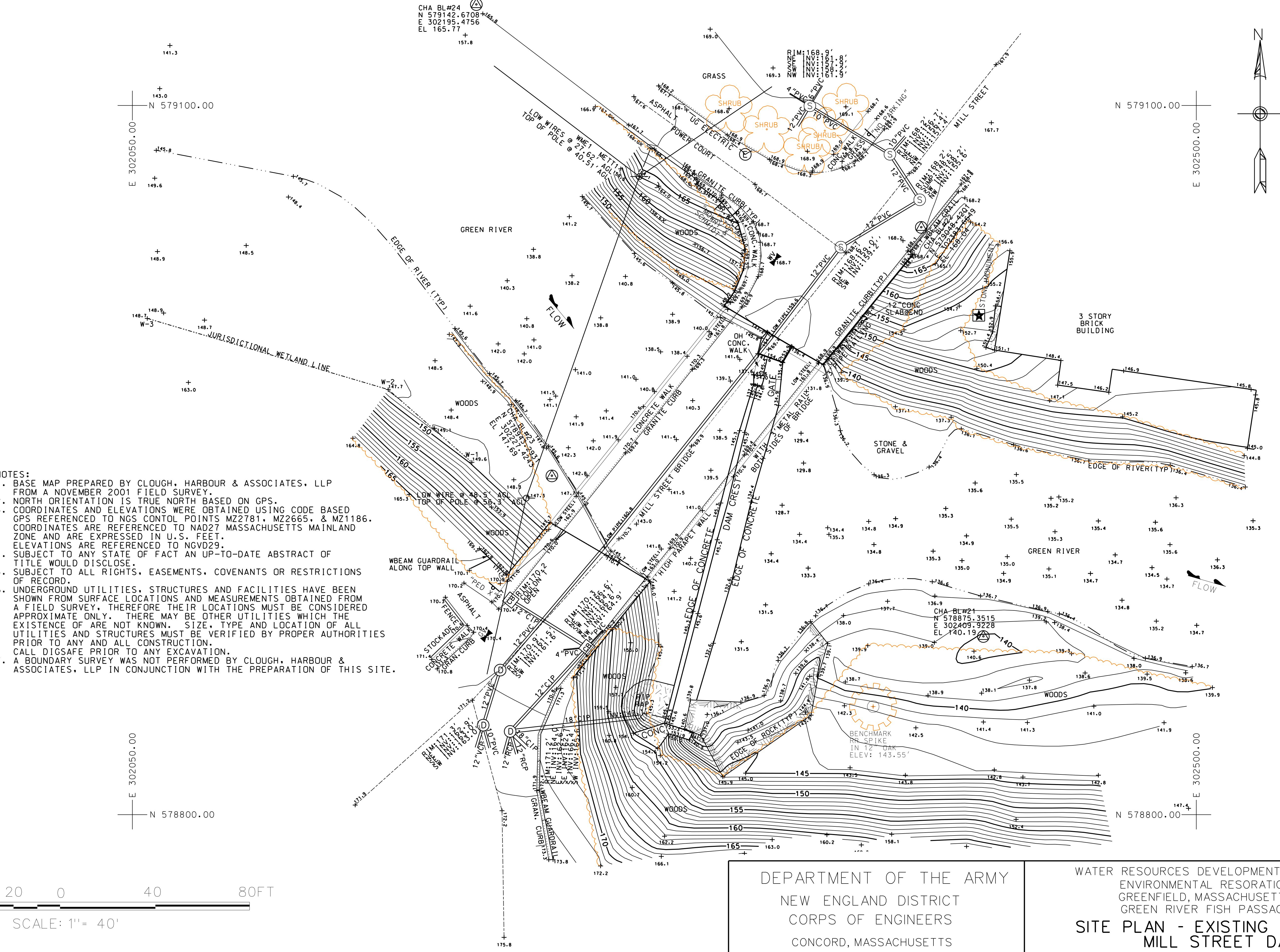
WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
REMOVE DAM
WILEY AND RUSSELL DAM

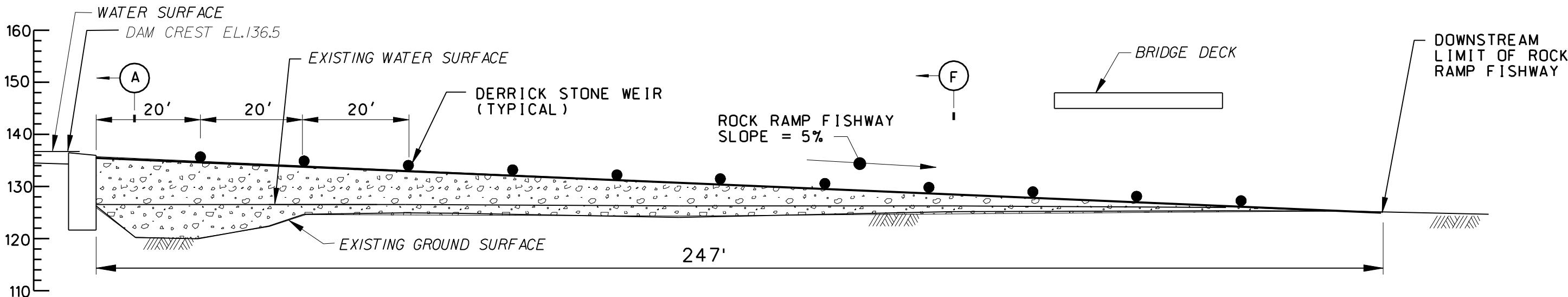
18
24





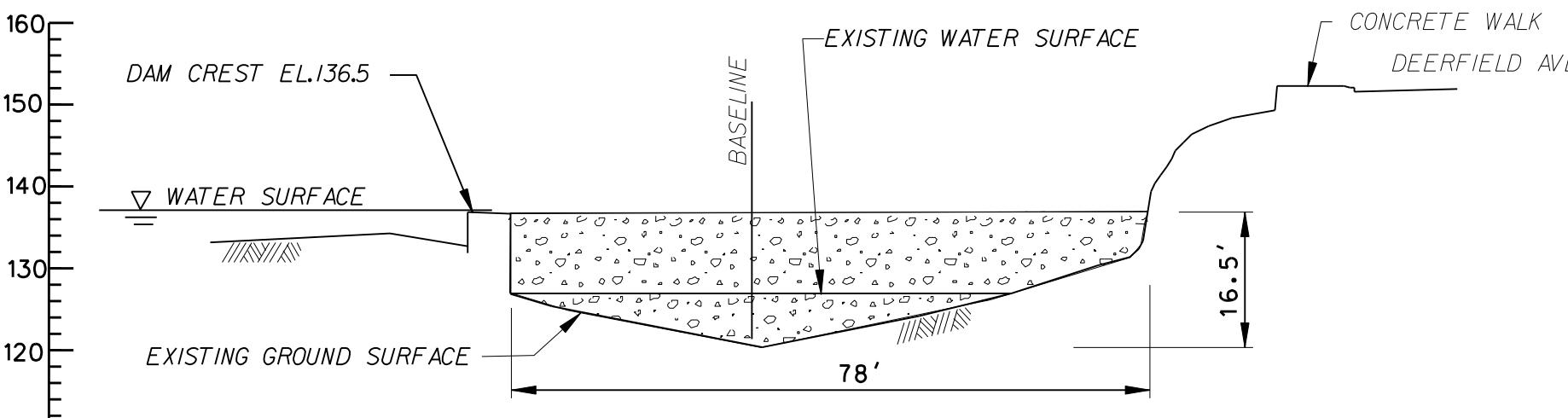






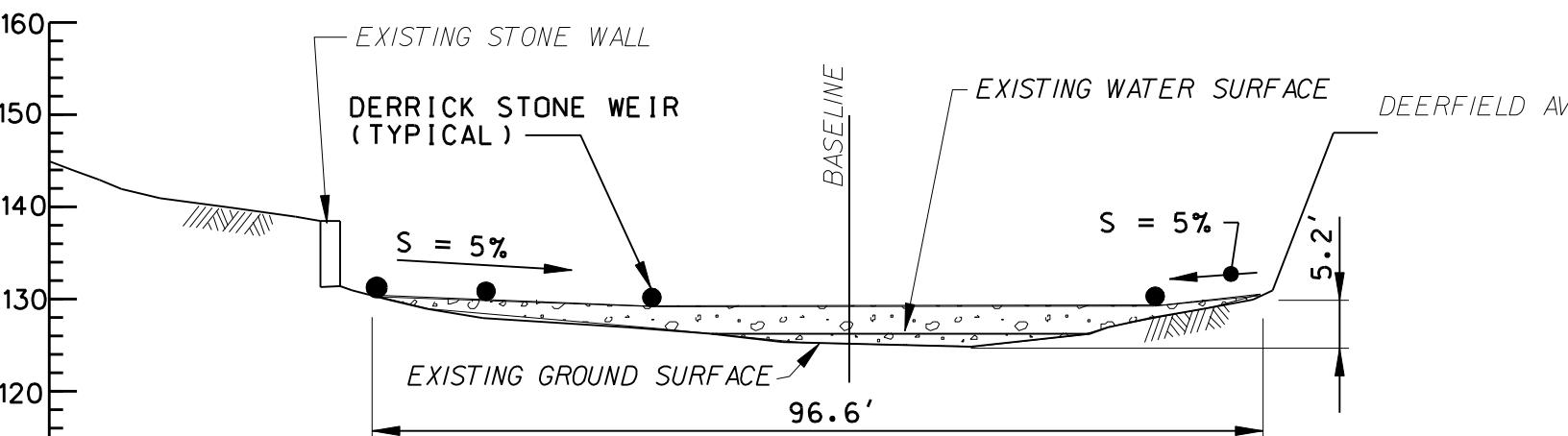
SECTION - BASELINE

SCALE: 1" = 20'



SECTION - A - A

SCALE: 1" = 20'



SECTION - F - F

GRAPHIC SCALE:
1" = 20'
20 0 20 40

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WATER RESOURCES DEVELOPMENT PROJECT
ENVIRONMENTAL RESTORATION
GREENFIELD, MASSACHUSETTS
GREEN RIVER FISH PASSAGE
ROCK RAMP FISHWAY SECTIONS
WILEY & RUSSELL DAM