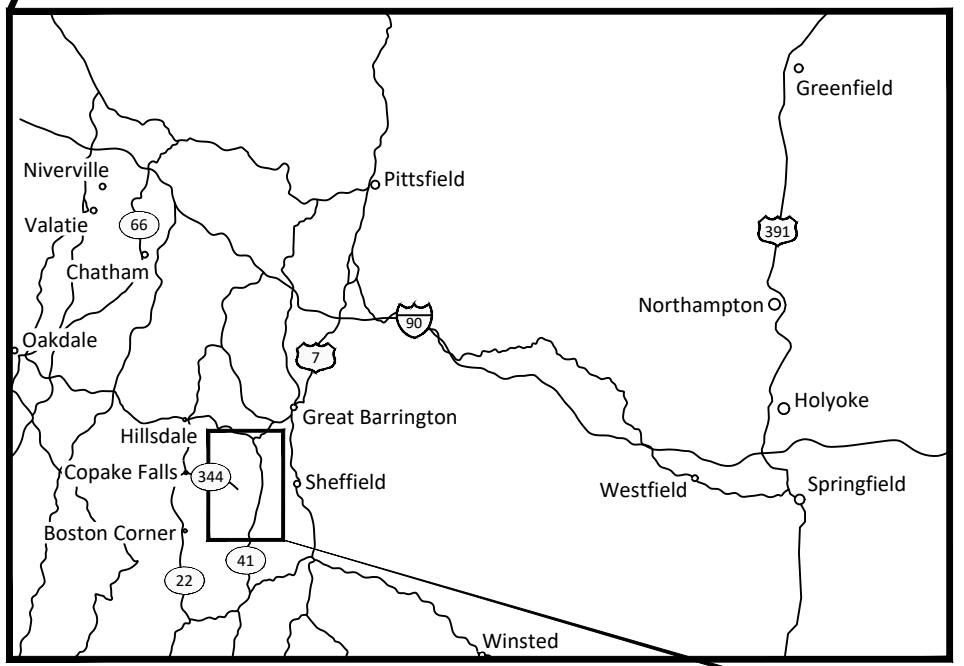


BECKER POND DAM REMOVAL

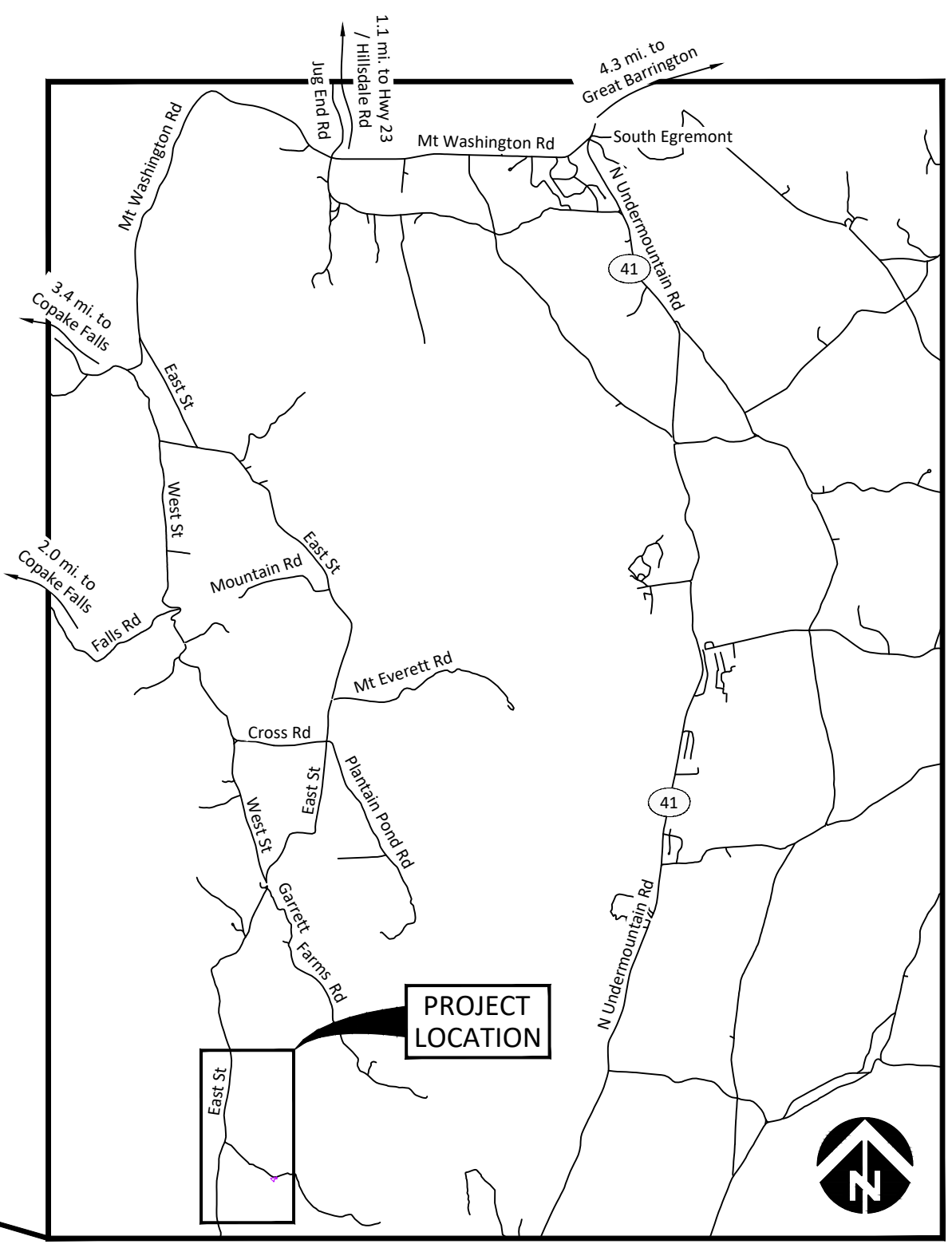
75% DESIGN PLANS AUGUST 17, 2022

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LOCATION MAP
STATE OF MASSACHUSETTS
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 15 MI.



SITE MAP
SCALE: 1" = 1 MI.

SHEET LIST

- 1 Cover, Location and Sheet List
- 2 Existing Conditions, Ownership, and Survey Control
- 3 Access and Staging, Erosion and Sediment Control
- 4 Existing Conditions
- 5 Dam Removal Plan and Profile STA 1+50 to STA 2+75
- 6 Pilot Channel Plan and Profile STA 2+75 to STA 5+75
- 7 Pilot Channel Plan and Profile STA 5+75 to STA 8+00
- 8 Dam Removal Grading Cross Sections
- 9 Dam Removal Grading Cross Sections and Details
- 10 Pilot Channel Construction Cross Sections
- 11 Large Wood Structure Details
- 12 Resource Area Impacts

COORDINATES:
 LATITUDE 42°03'29.88" N
 LONGITUDE 73°27'33.12" W

MOUNT WASHINGTON, BERKSHIRE COUNTY, MASSACHUSETTS

WATERBODY: BECKER POND
TRIBUTARY OF: SHENOB BROOK AND HOUSATONIC RIVER

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NO.	BY	DATE	REVISION DESCRIPTION

DF,SW	NN,SW	CC
DRAWN	DESIGNED	CHECKED
---	08/12/2022	18-05-01
APPROVED	DATE	PROJECT

BECKER POND DAM REMOVAL
THE NATURE CONSERVANCY
BERKSHIRE COUNTY, MASSACHUSETTS



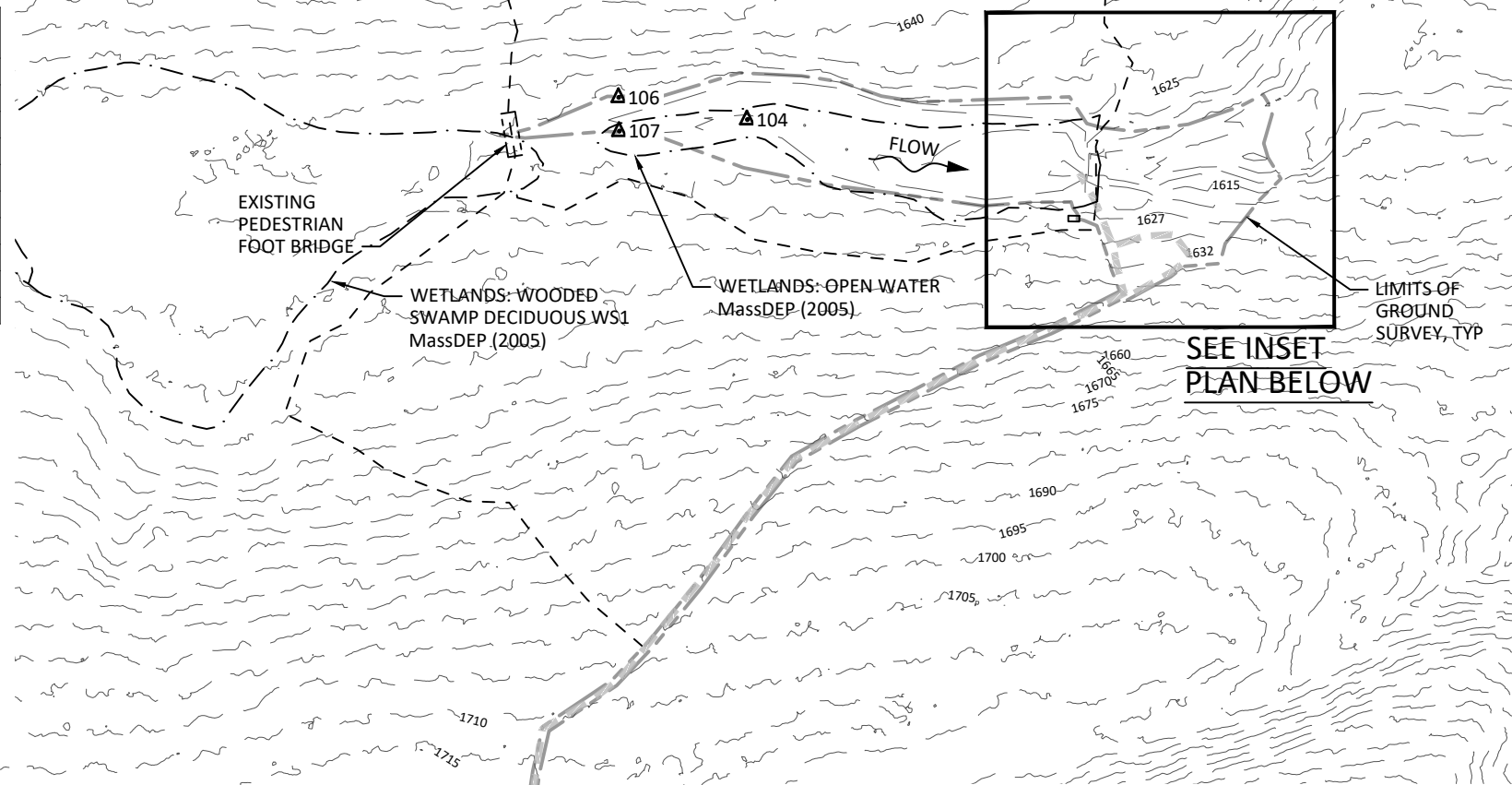
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COVER, LOCATION AND SHEET LIST

SURVEY CONTROL POINTS				
PT NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	2852371.25'	124142.01'	1620.87'	STAKE
101	2852290.85'	124078.40'	1635.07'	CAPPED REBAR
102	2852374.56'	124096.57'	1627.66'	CAPPED REBAR
103	2852422.40'	124232.01'	1626.99'	CAPPED REBAR
104	2852767.31'	124112.83'	1620.78'	STAKE
105	2852391.20'	124189.53'	1622.10'	PK NAIL
106	2852914.11'	124099.55'	1624.06'	STAKE
107	2822903.58'	124062.79'	1621.03'	STAKE
301	2853108.94'	122251.53'	1790.53'	PK NAIL

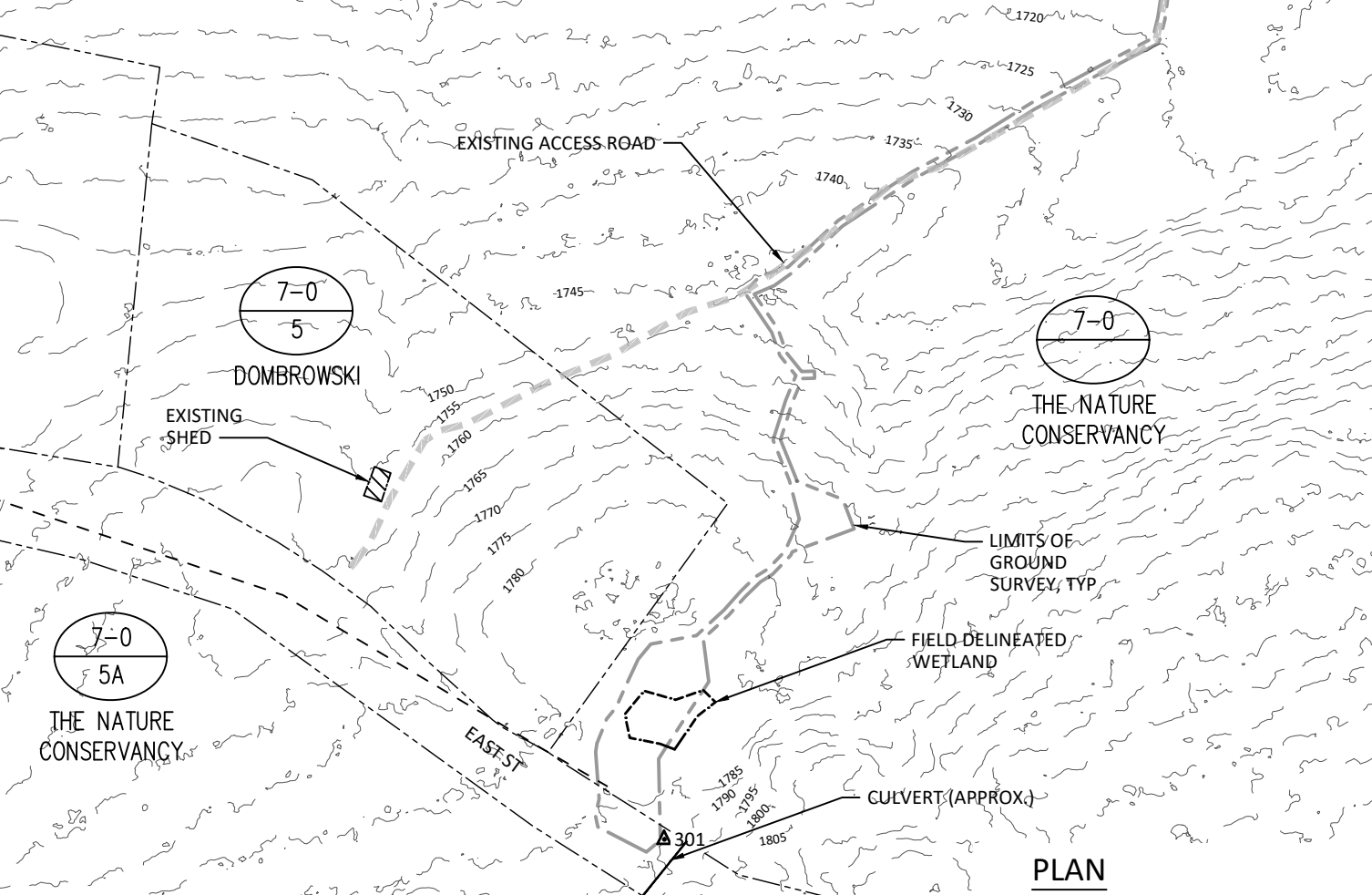
SURVEY NOTES:

1. Ground survey completed within the Limit of Survey by Inter-Fluve in April 2018 and May 2019.
2. Depth of refusal survey completed within the impoundment by Inter-Fluve in April 2018.
3. Contours beyond the Limits of Survey in upland areas from LiDAR Digital Elevation Model: 2016 USGS CoNED Topobathymetric Model (1887-2016) New England Dataset (obtained from NOAA June 2019).
4. The horizontal coordinate system is the North American Datum of 1983 (NAD83), Massachusetts State Plane, Mainland Zone, US feet. Elevations are presented in feet and referenced to the North American Vertical Datum 1988 (NAVD88)
5. Existing parcel data provided by TNC (2019) and obtained by MassGIS. Existing trail data provided by TNC (2019).
6. The wetland delineation was completed by BSC Group on May 16, 2022 using handheld GPS with sub-meter accuracy.

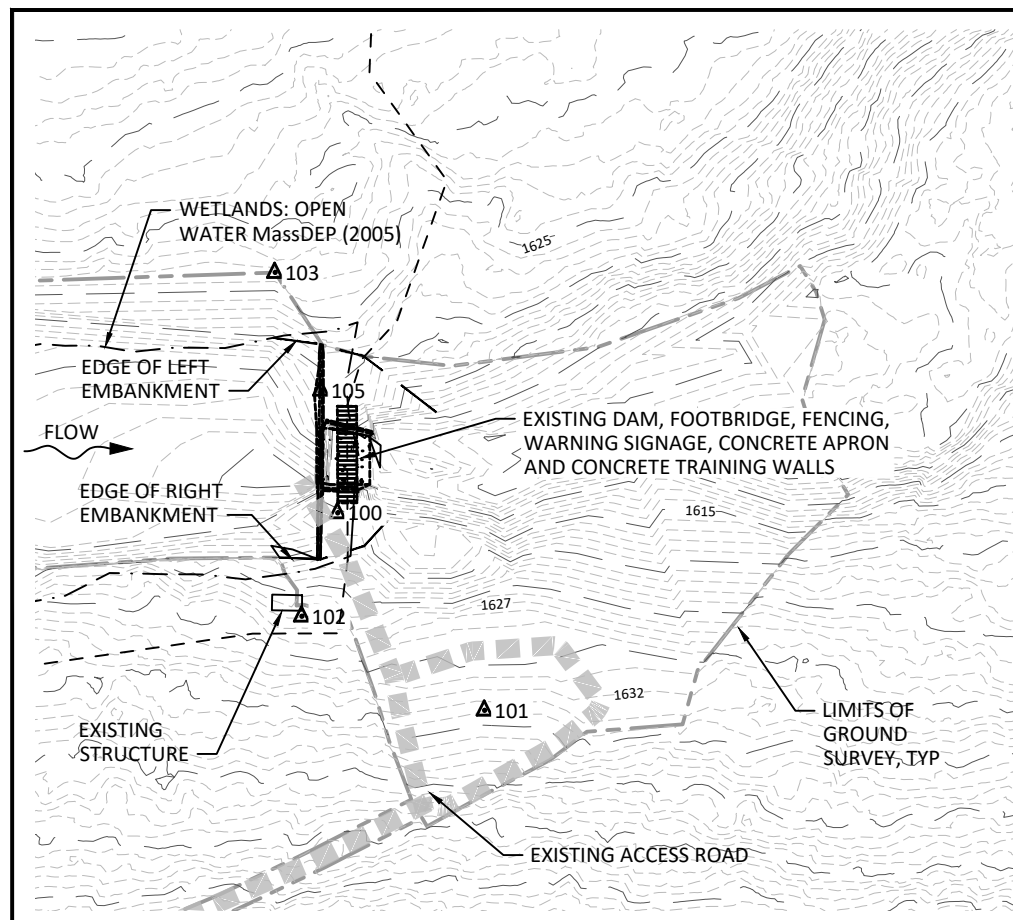


LEGEND

- SURVEY CONTROL POINT
- EXISTING 5-FT CONTOURS
- PROPERTY LINE (MassGIS)
- PROPERTY LINE (TNC GIS)
- EXISTING TRAIL
- LIMITS OF GROUND SURVEY
- EXISTING ROAD
- FIELD DELINEATED WETLAND
- MAP NUMBER
- LOT NUMBER
- PROPERTY OWNER
- WETLANDS MassDEP (2005)



PLAN



INSET PLAN

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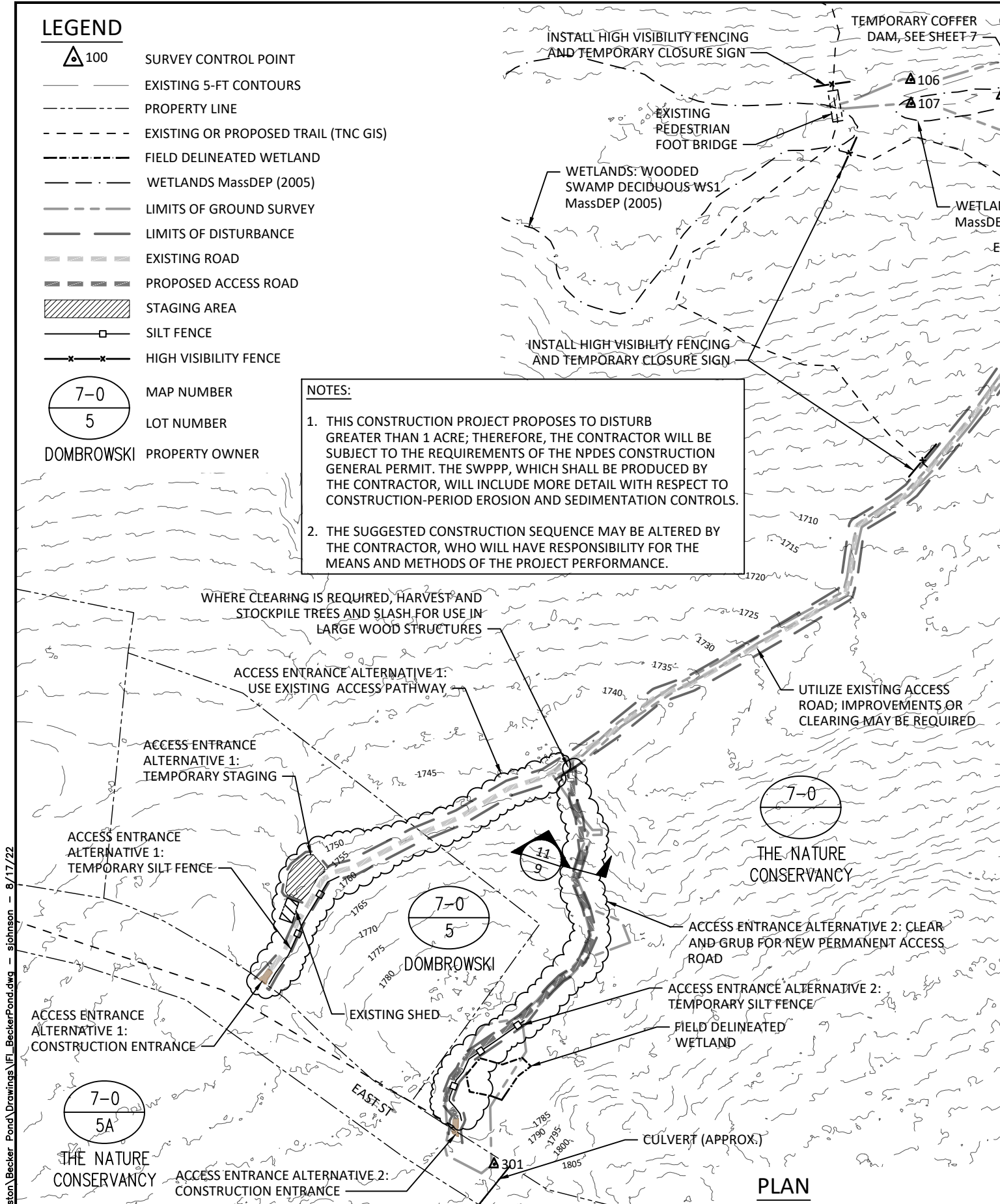
**EXISTING CONDITIONS,
OWNERSHIP, AND
SURVEY CONTROL**

LEGEND

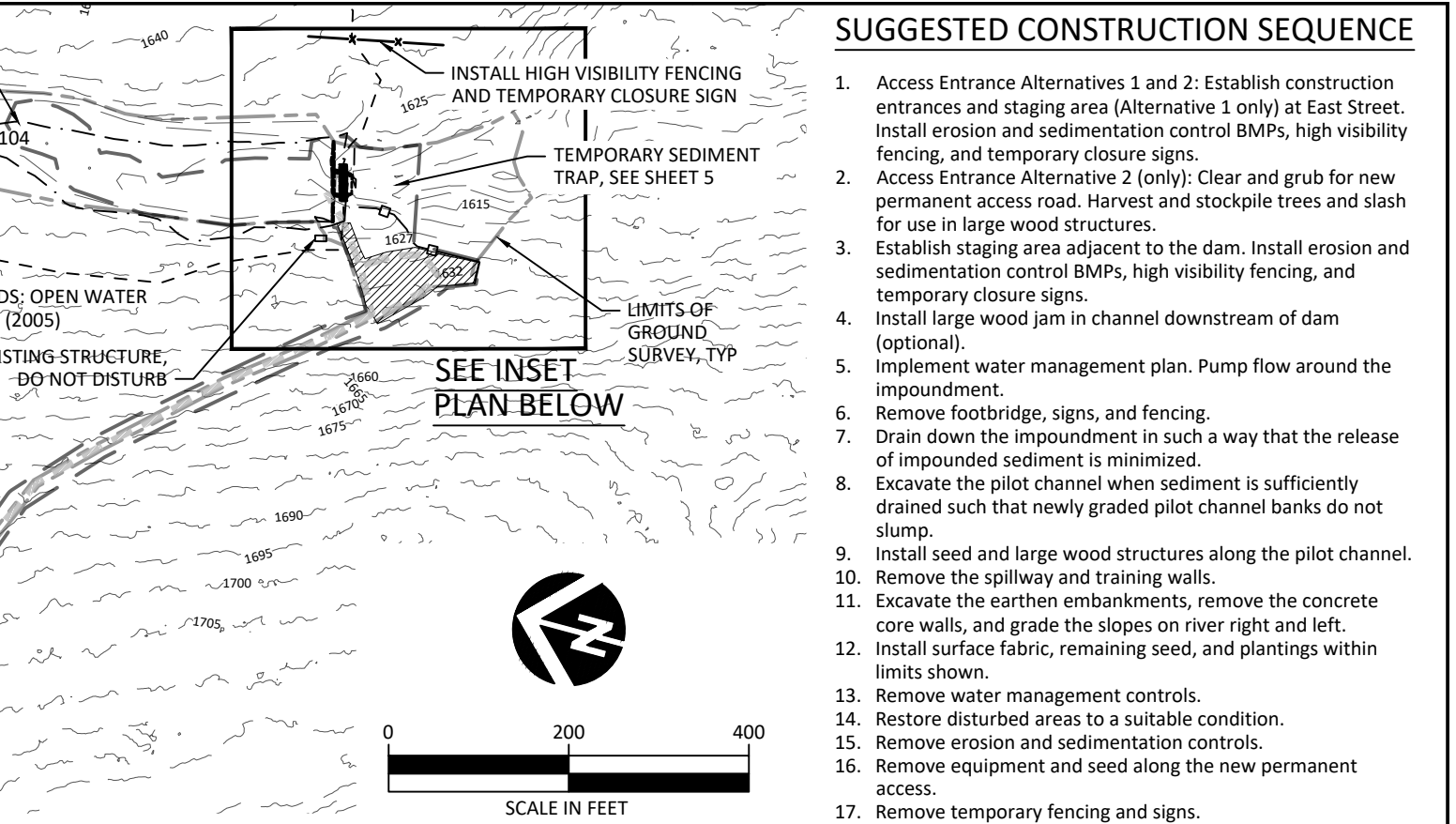
- 100 SURVEY CONTROL POINT
- EXISTING 5-FT CONTOURS
- PROPERTY LINE
- EXISTING OR PROPOSED TRAIL (TNC GIS)
- FIELD DELINEATED WETLAND
- WETLANDS MassDEP (2005)
- LIMITS OF GROUND SURVEY
- LIMITS OF DISTURBANCE
- EXISTING ROAD
- PROPOSED ACCESS ROAD
- STAGING AREA
- SILT FENCE
- HIGH VISIBILITY FENCE
- 7-0 MAP NUMBER
- 5 LOT NUMBER
- DOMBROWSKI PROPERTY OWNER

NOTES:

1. THIS CONSTRUCTION PROJECT PROPOSES TO DISTURB GREATER THAN 1 ACRE; THEREFORE, THE CONTRACTOR WILL BE SUBJECT TO THE REQUIREMENTS OF THE NPDES CONSTRUCTION GENERAL PERMIT. THE SWPPP, WHICH SHALL BE PRODUCED BY THE CONTRACTOR, WILL INCLUDE MORE DETAIL WITH RESPECT TO CONSTRUCTION-PERIOD EROSION AND SEDIMENTATION CONTROLS.
2. THE SUGGESTED CONSTRUCTION SEQUENCE MAY BE ALTERED BY THE CONTRACTOR, WHO WILL HAVE RESPONSIBILITY FOR THE MEANS AND METHODS OF THE PROJECT PERFORMANCE.



PLAN



INSET PLAN

SUGGESTED CONSTRUCTION SEQUENCE

1. Access Entrance Alternatives 1 and 2: Establish construction entrances and staging area (Alternative 1 only) at East Street. Install erosion and sedimentation control BMPs, high visibility fencing, and temporary closure signs.
2. Access Entrance Alternative 2 (only): Clear and grub for new permanent access road. Harvest and stockpile trees and slash for use in large wood structures.
3. Establish staging area adjacent to the dam. Install erosion and sedimentation control BMPs, high visibility fencing, and temporary closure signs.
4. Install large wood jam in channel downstream of dam (optional).
5. Implement water management plan. Pump flow around the impoundment.
6. Remove footbridge, signs, and fencing.
7. Drain down the impoundment in such a way that the release of impounded sediment is minimized.
8. Excavate the pilot channel when sediment is sufficiently drained such that newly graded pilot channel banks do not slump.
9. Install seed and large wood structures along the pilot channel.
10. Remove the spillway and training walls.
11. Excavate the earthen embankments, remove the concrete core walls, and grade the slopes on river right and left.
12. Install surface fabric, remaining seed, and plantings within limits shown.
13. Remove water management controls.
14. Restore disturbed areas to a suitable condition.
15. Remove erosion and sedimentation controls.
16. Remove equipment and seed along the new permanent access.
17. Remove temporary fencing and signs.

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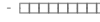

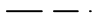


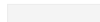

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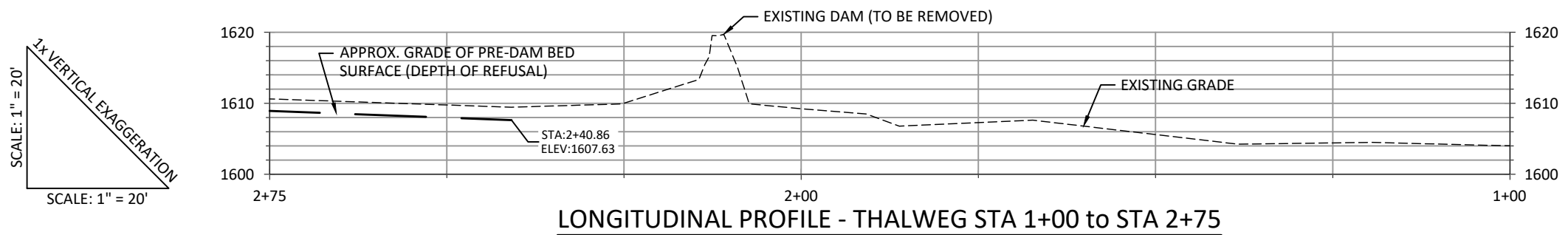
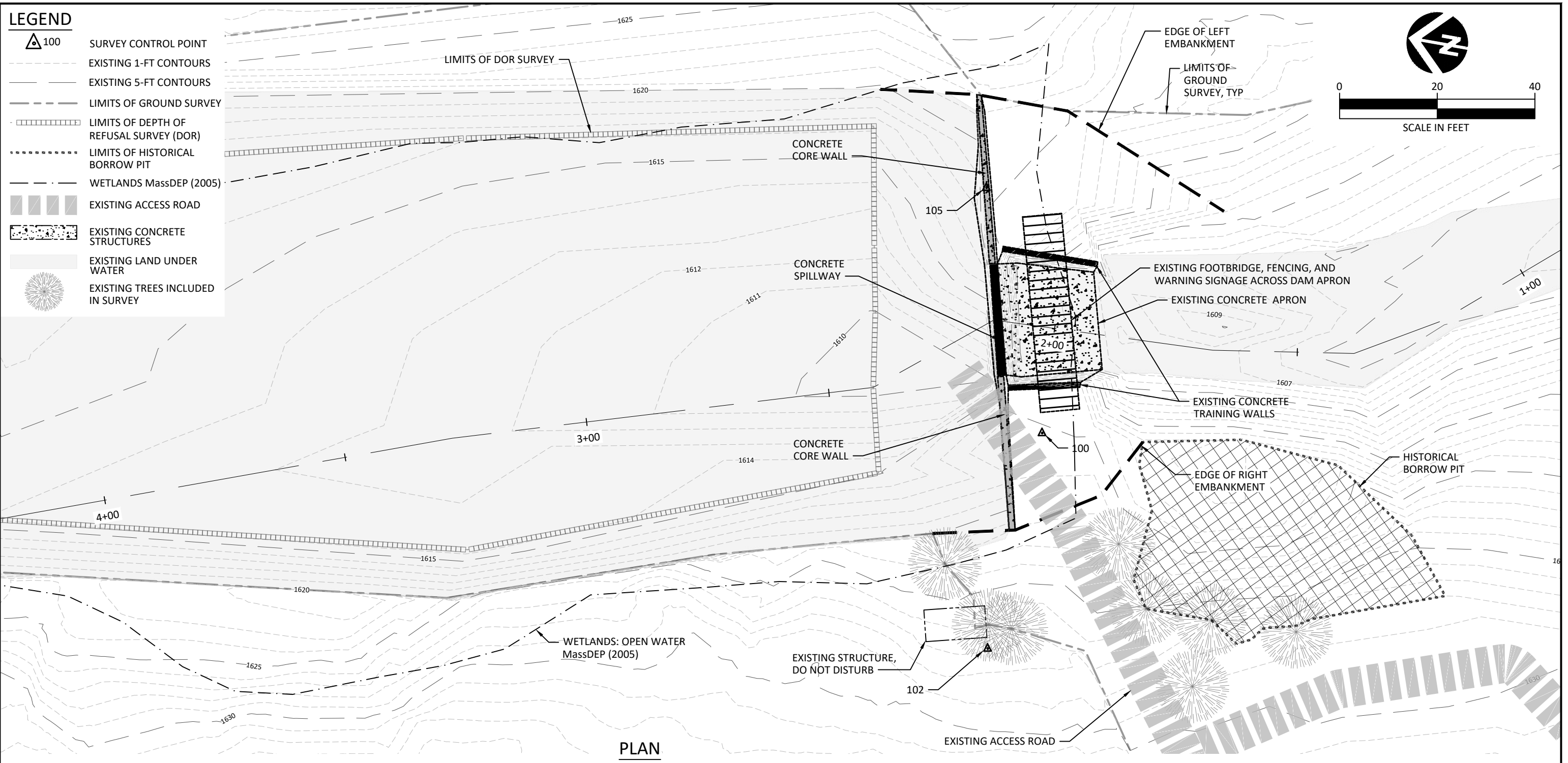
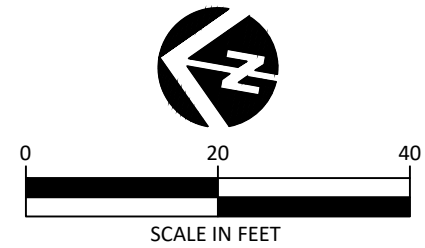
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LEGEND

-  SURVEY CONTROL POINT
-  EXISTING 1-FT CONTOURS
-  EXISTING 5-FT CONTOURS
-  LIMITS OF GROUND SURVEY
-  LIMITS OF DEPTH OF REFUSAL SURVEY (DOR)
-  LIMITS OF HISTORICAL BORROW PIT
-  WETLANDS MassDEP (2005)
-  EXISTING ACCESS ROAD
-  EXISTING CONCRETE STRUCTURES
-  EXISTING LAND UNDER WATER
-  EXISTING TREES INCLUDED IN SURVEY



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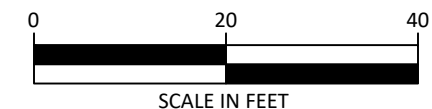
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EXISTING CONDITIONS

SHEET
4 OF 12



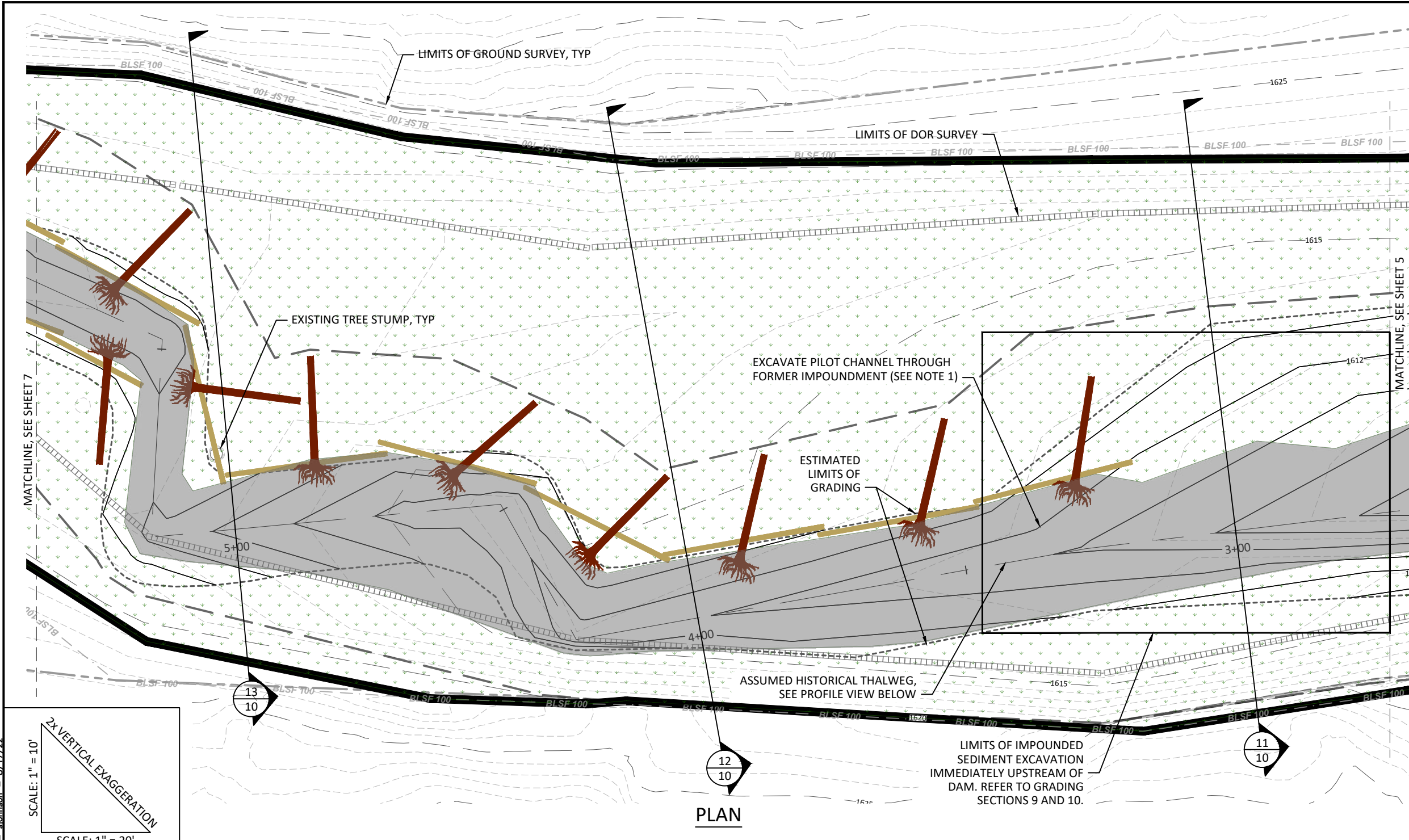
LEGEND

- EXISTING 1-FT CONTOURS
- EXISTING 5-FT CONTOURS
- ORDINARY HIGH WATER (EXISTING CONDITIONS)
- BORDERING LAND SUBJECT TO FLOODING (BLSF EXISTING CONDITIONS)
- PROPOSED 1-FT CONTOURS
- LIMITS OF GROUND SURVEY
- LIMITS OF DISTURBANCE
- ESTIMATED LIMIT OF GRADING
- LIMITS OF DEPTH OF REFUSAL SURVEY (DOR)
- ANTICIPATED LAND UNDER WATER AFTER DAM REMOVAL
- NATIVE SEED APPLICATION
- LARGE WOOD STRUCTURE

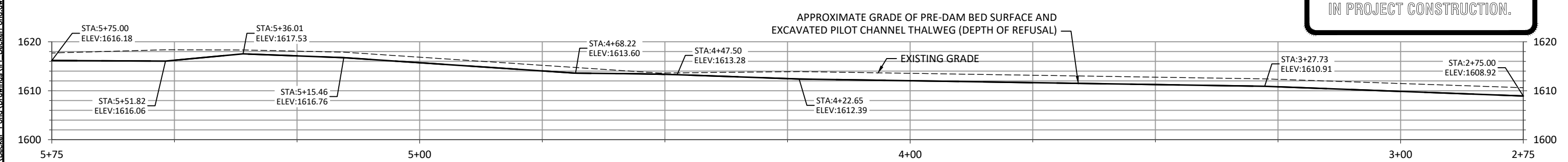
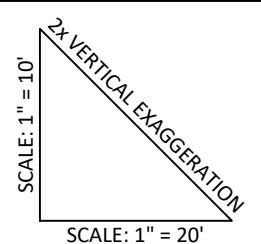
NOTES:

1. FOR PILOT CHANNEL GRADING, EXCAVATE PILOT CHANNEL WITHIN LIMIT OF DISTURBANCE. EXCAVATION SHOULD BE FROM THE DEPTH OF REFUSAL AT THE ASSUMED THALWEG, WITH SIDE SLOPES AT APPROXIMATELY 1:1 TO EXISTING BED WITH A MAXIMUM TOP WIDTH OF 23 FEET UNLESS OTHERWISE SHOWN. IF HISTORIC NATIVE CHANNEL MATERIAL IS ENCOUNTERED, IT SHALL REMAIN IN PLACE.
2. STAKE AND FLAG LIMIT OF DISTURBANCE FOR VISUAL IDENTIFICATION IN THE FIELD.

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PLAN



LONGITUDINAL PROFILE - THALWEG STA 2+75 TO STA 5+75

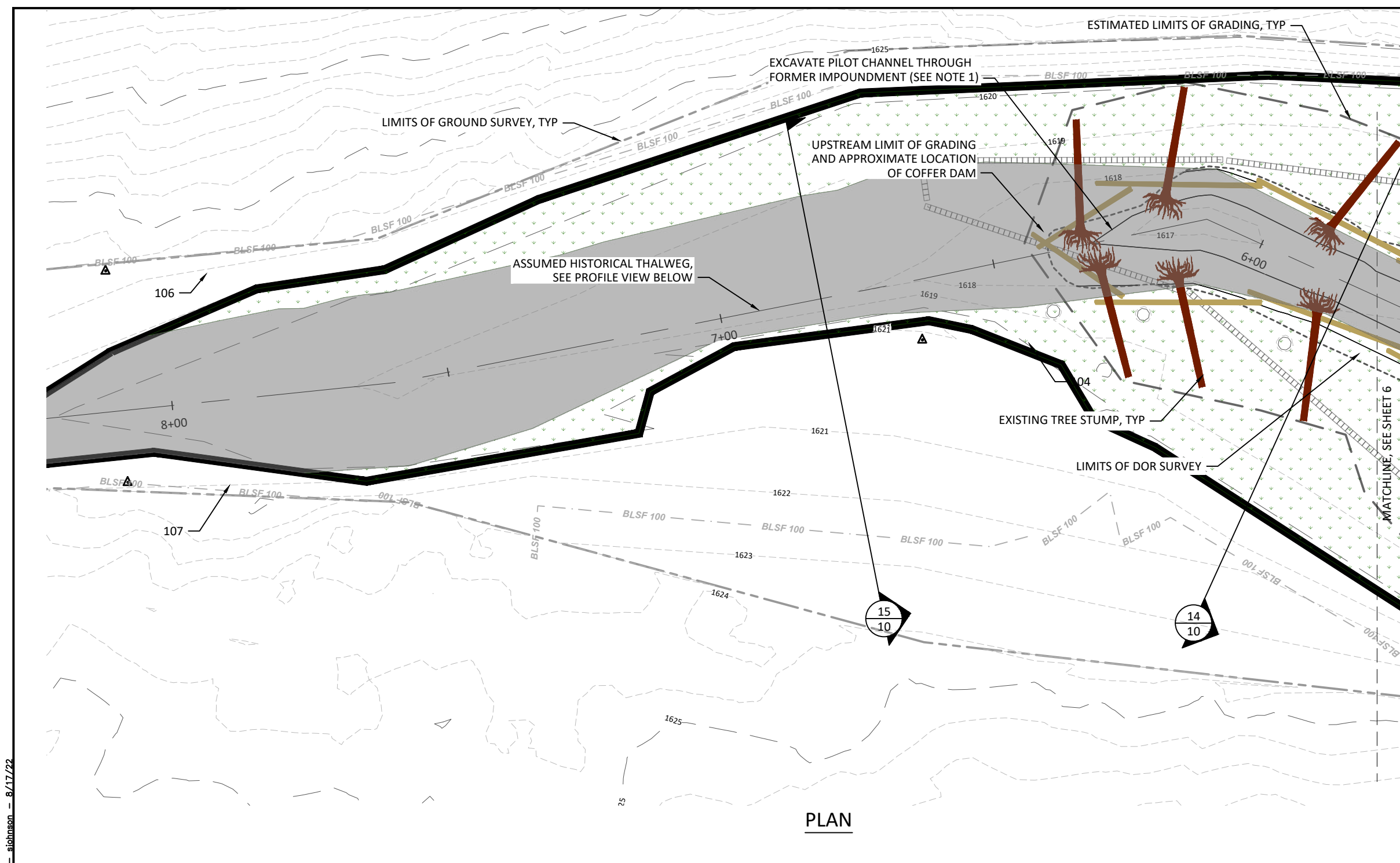
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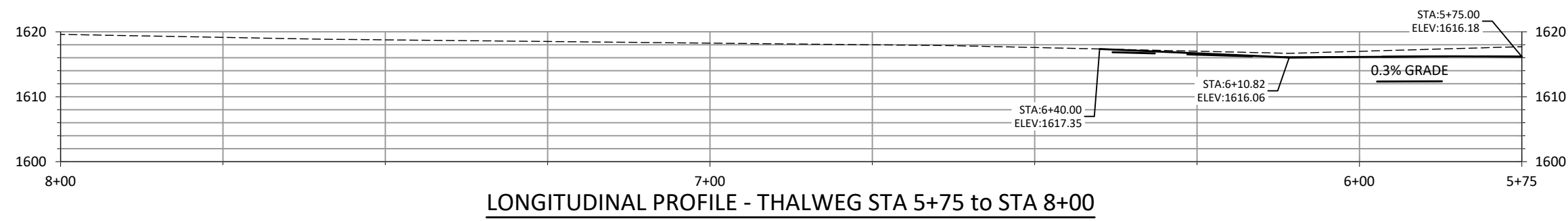


- LEGEND**
- - - - - EXISTING 1-FT CONTOURS
 - - - - - EXISTING 5-FT CONTOURS
 - ORDINARY HIGH WATER (EXISTING CONDITIONS)
 - - - - - BLSF 100
 - - - - - BORDERING LAND SUBJECT TO FLOODING (BLSF EXISTING CONDITIONS)
 - PROPOSED 1-FT CONTOURS
 - - - - - LIMITS OF GROUND SURVEY
 - - - - - LIMITS OF DEPTH OF REFUSAL SURVEY (DOR)
 - - - - - LIMITS OF DISTURBANCE
 - - - - - ESTIMATED LIMIT OF GRADING
 - ANTICIPATED LAND UNDER WATER AFTER DAM REMOVAL
 - NATIVE SEED APPLICATION
 - ✂ LARGE WOOD STRUCTURE

- NOTES:**
1. FOR PILOT CHANNEL GRADING, EXCAVATE PILOT CHANNEL WITHIN LIMIT OF DISTURBANCE. EXCAVATION SHOULD BE FROM THE DEPTH OF REFUSAL AT THE ASSUMED THALWEG, WITH SIDE SLOPES AT APPROXIMATELY 2:1 TO EXISTING BED WITH A MAXIMUM TOP WIDTH OF 23 FEET. IF HISTORIC NATIVE CHANNEL MATERIAL IS ENCOUNTERED, IT SHALL REMAIN IN PLACE.
 2. STAKE AND FLAG LIMIT OF DISTURBANCE FOR VISUAL IDENTIFICATION IN THE FIELD.

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PLAN



SCALE: 1" = 20'
 2x VERTICAL EXAGGERATION
 SCALE: 1" = 10'

LONGITUDINAL PROFILE - THALWEG STA 5+75 to STA 8+00

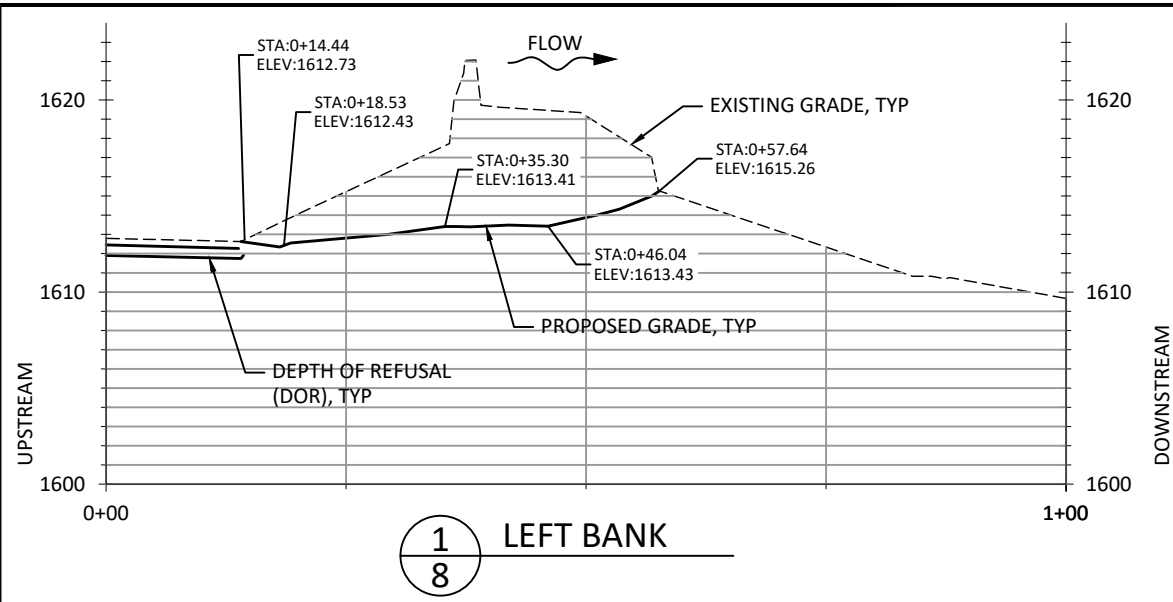
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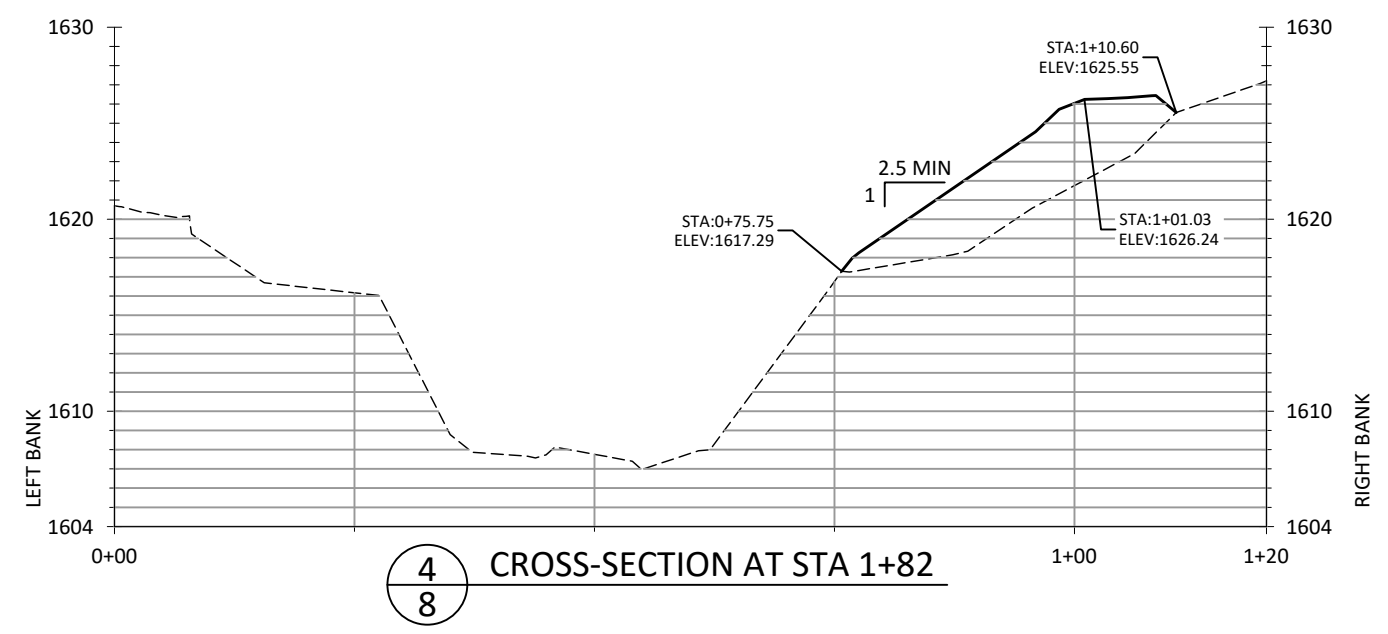
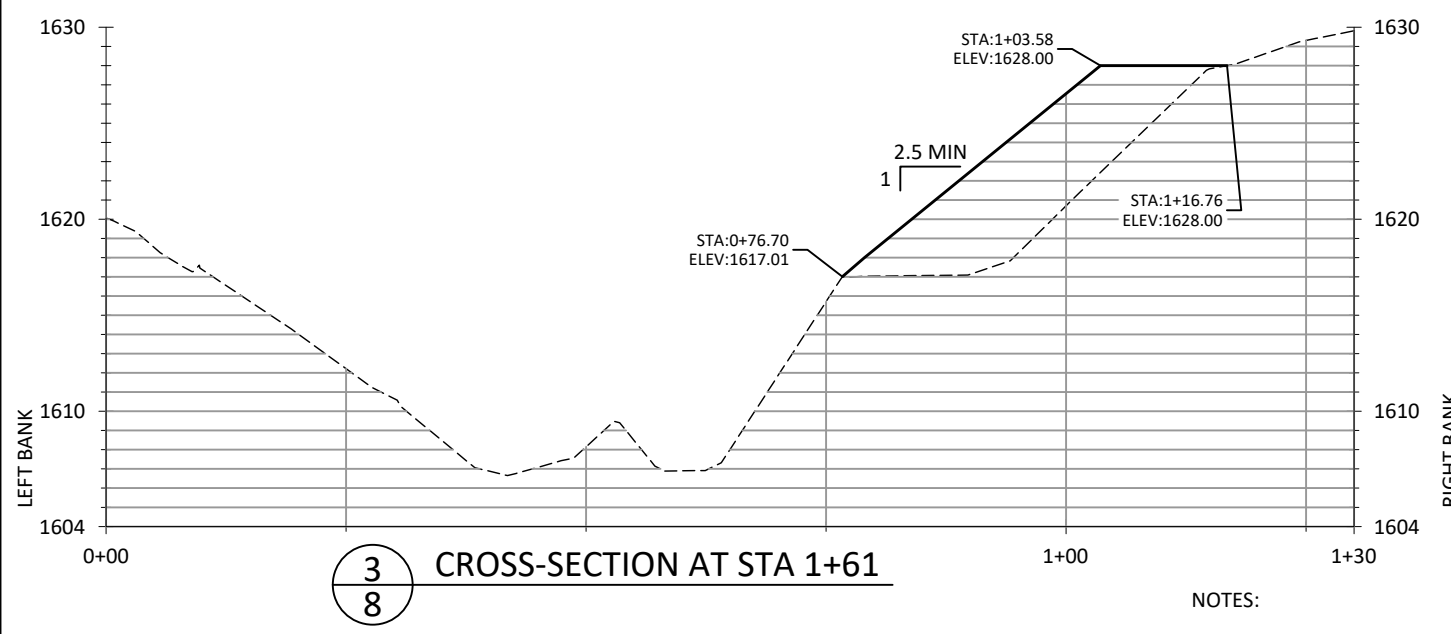
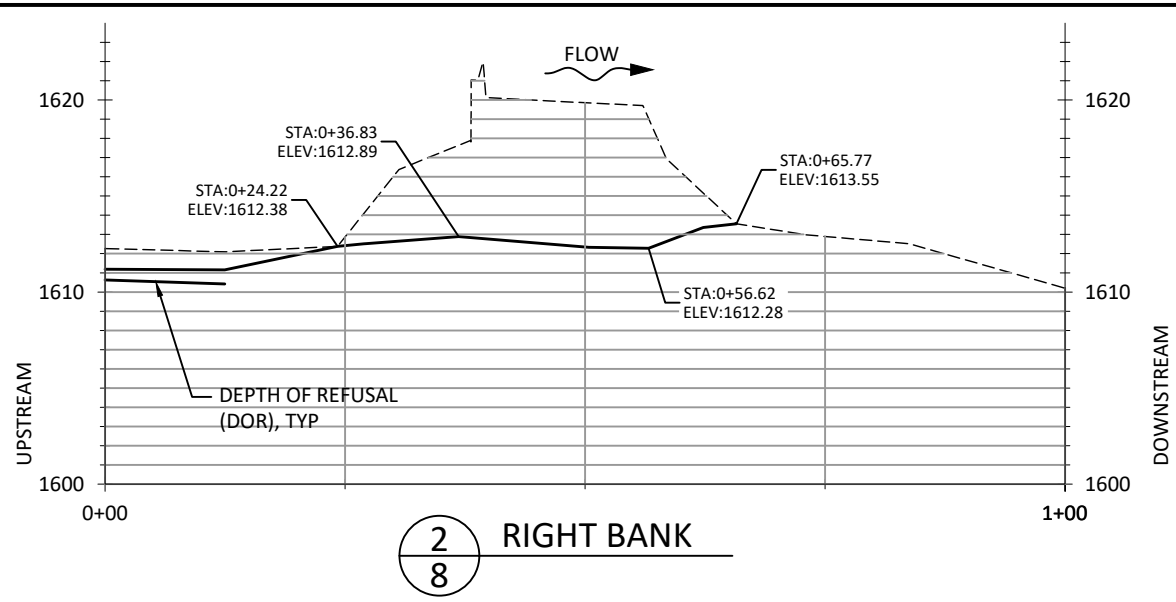
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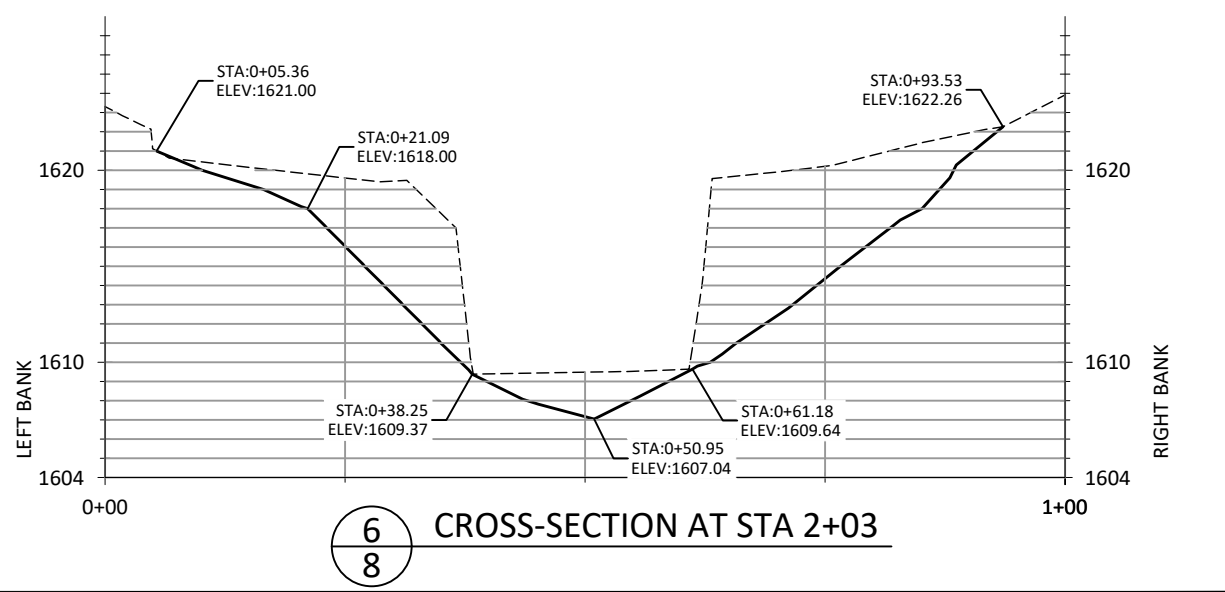
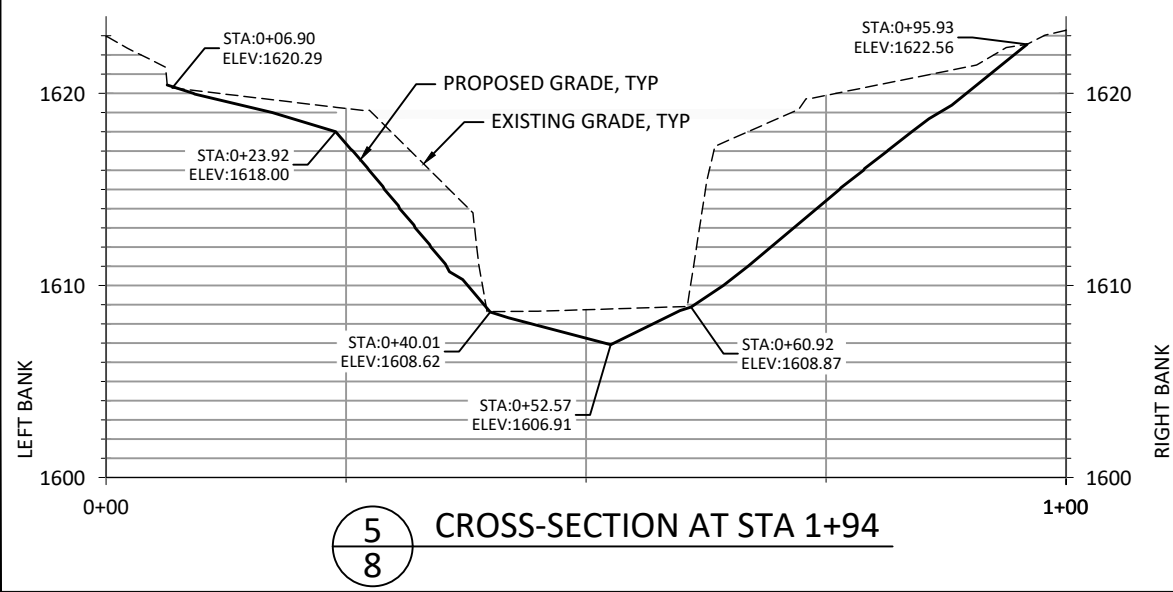


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NOTES:

1. SECTIONS ARE ORIENTED LEFT TO RIGHT FACING DOWNSTREAM.
2. THE MAXIMUM SLOPE IN FILL AREAS SHALL BE 2.5:1.
3. THE PROPOSED CUT SLOPES PRESENTED ON THESE SECTIONS REPRESENT OUR BEST ESTIMATES OF THE PRE-DAM RIVER CHANNEL GEOMETRY.
4. THE PROPOSED CUT-SLOPES ARE NOT INTENDED TO BE PRESCRIPTIVE. THE INTENT OF EXCAVATION ACTIVITIES IS TO REMOVE FILL MATERIAL OR IMPOUNDED SEDIMENT THAT IS ON TOP OF THE HISTORIC NATIVE MATERIAL, WHICH IS LIKELY TO CONSIST OF COBBLES, BOULDERS, AND ROCK. IF HISTORIC NATIVE MATERIAL IS ENCOUNTERED ABOVE THE PROPOSED GRADE, IT SHALL REMAIN IN PLACE. IF HISTORIC NATIVE MATERIAL IS NOT ENCOUNTERED AT THE PROPOSED GRADE, NO FURTHER EXCAVATION IS REQUESTED.
5. THE PROPOSED CUT-SLOPES MAY BE USED TO ESTIMATE THE VOLUME OF SALVAGED MATERIAL THAT WILL NEED TO BE DISPOSED OF, EITHER IN DESIGNATED AREAS ON-SITE, OR AT OFF-SITE FACILITIES.



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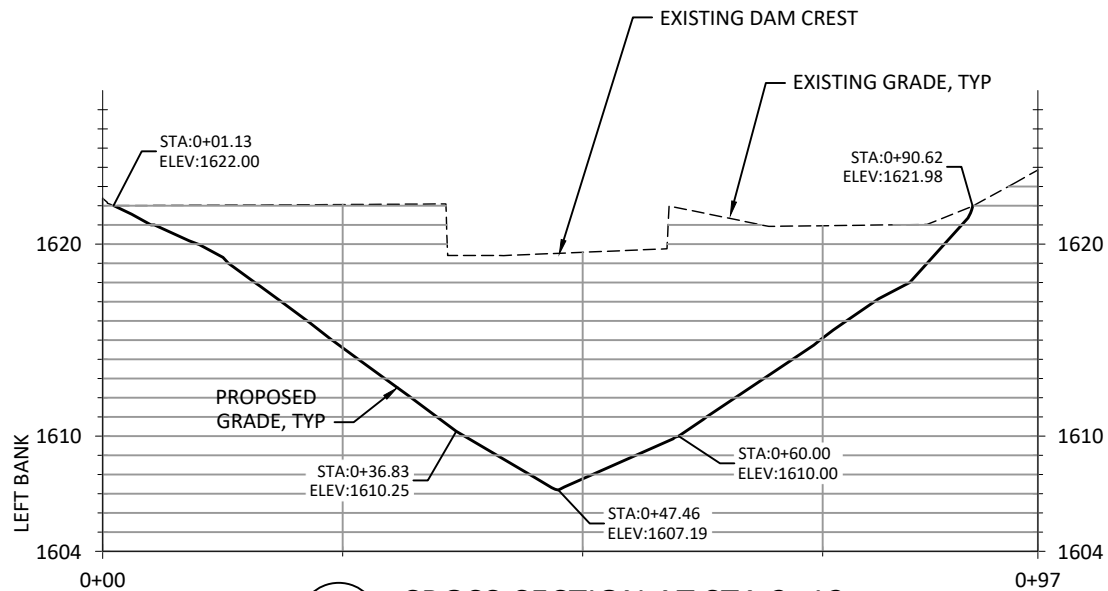
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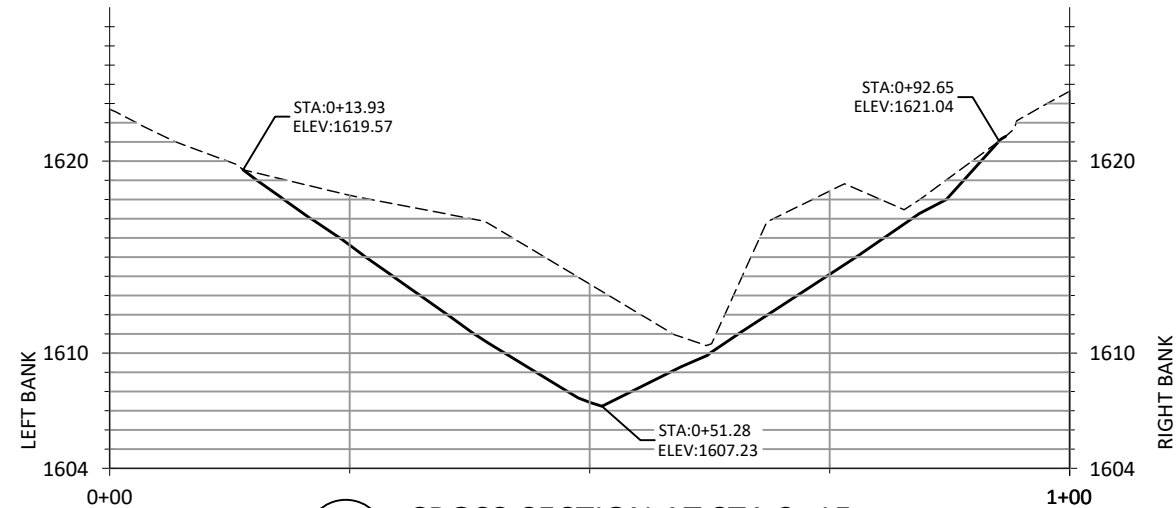
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DAM REMOVAL GRADING
CROSS SECTIONS



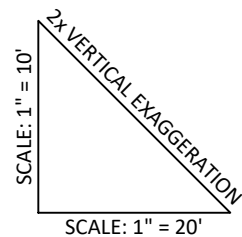
7
9 CROSS-SECTION AT STA 2+12



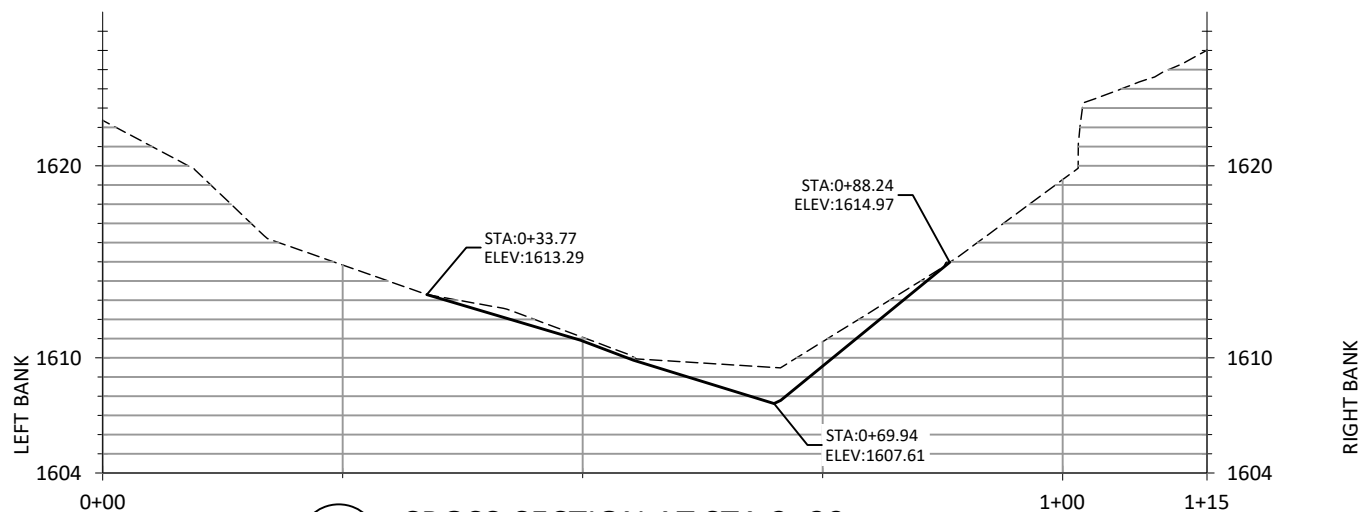
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9 CROSS-SECTION AT STA 2+15

NOTES:

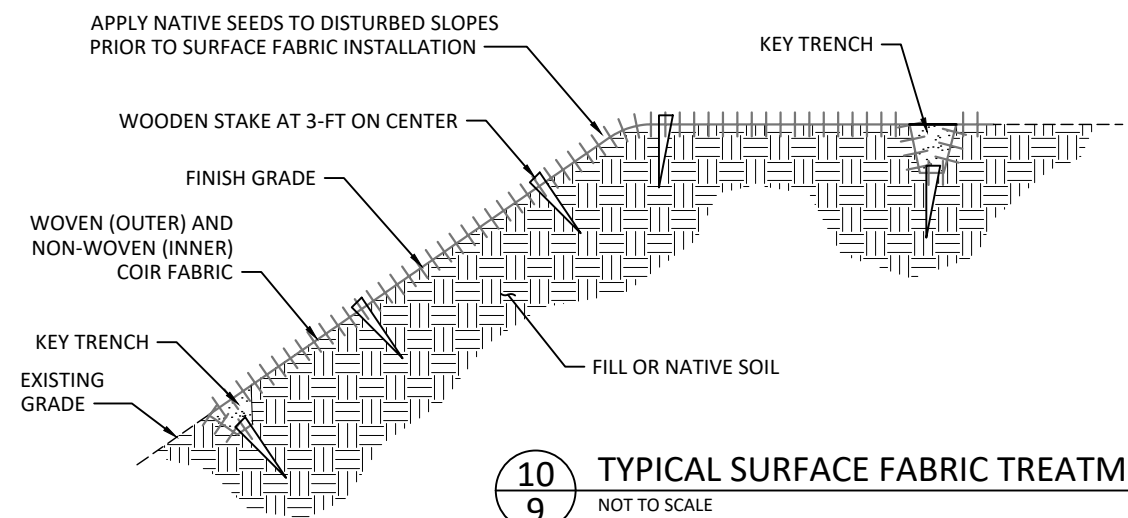
1. SECTIONS ARE ORIENTED LEFT TO RIGHT FACING DOWNSTREAM.
2. THE MAXIMUM SLOPE IN FILL AREAS SHALL BE 2.5:1.
3. THE PROPOSED CUT SLOPES PRESENTED ON THESE SECTIONS REPRESENT OUR BEST ESTIMATES OF THE PRE-DAM RIVER CHANNEL GEOMETRY.
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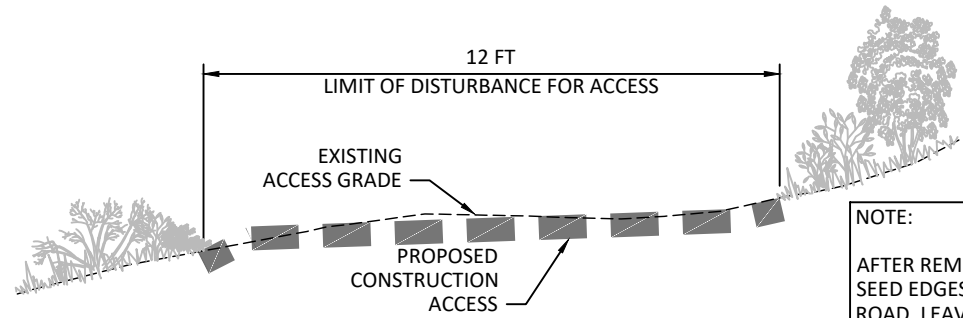
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9
9 CROSS-SECTION AT STA 2+39



10
9 TYPICAL SURFACE FABRIC TREATMENT
NOT TO SCALE



11
9 TYPICAL NEW ACCESS ROAD CROSS-SECTION
NOT TO SCALE

NOTE:
AFTER REMOVING EQUIPMENT FROM SITE, SEED EDGES OF NEWLY CONSTRUCTED ACCESS ROAD, LEAVING FOUR FEET IN THE CENTER CLEAR FOR PERMANENT PEDESTRIAN USE.

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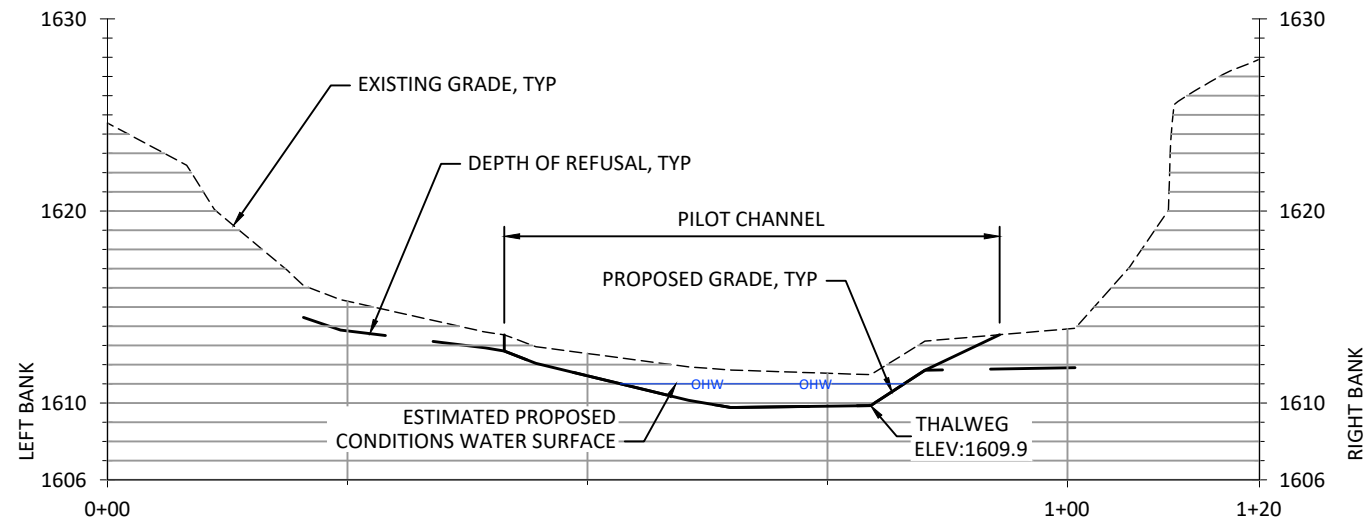
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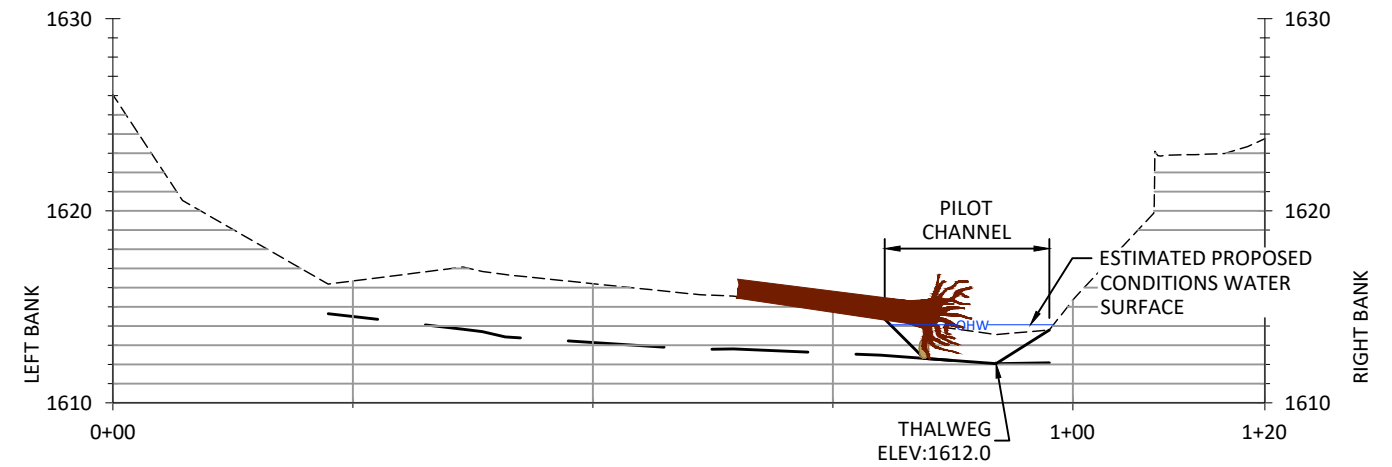
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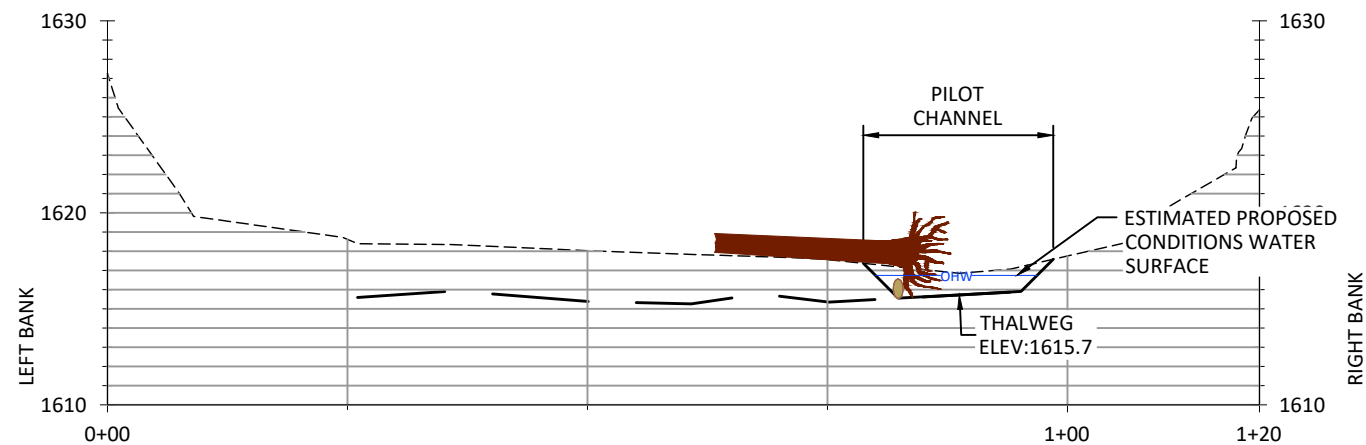
DAM REMOVAL GRADING
CROSS SECTIONS AND DETAILS



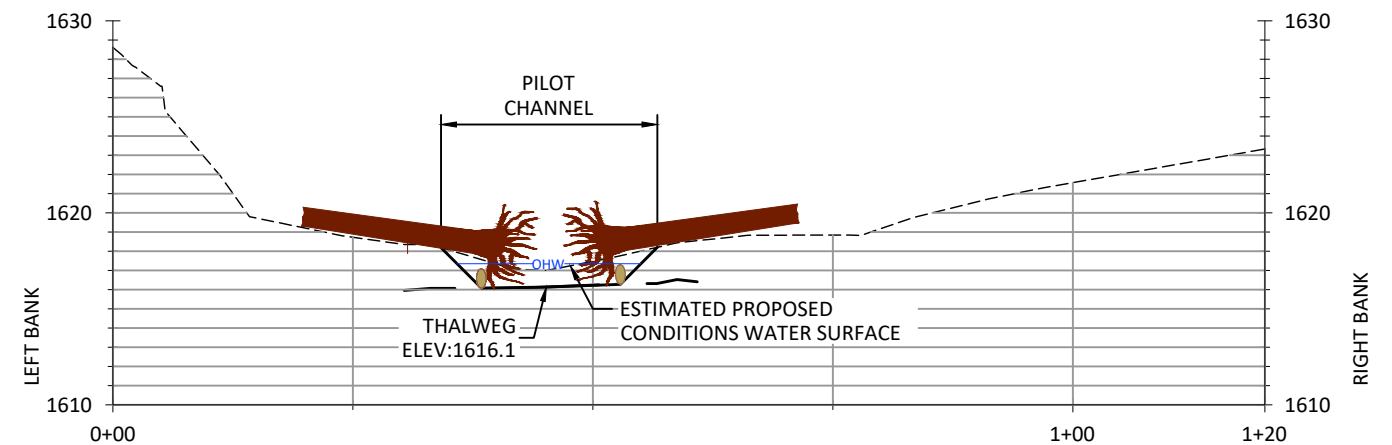
11 CROSS-SECTION AT STA 3+00
10



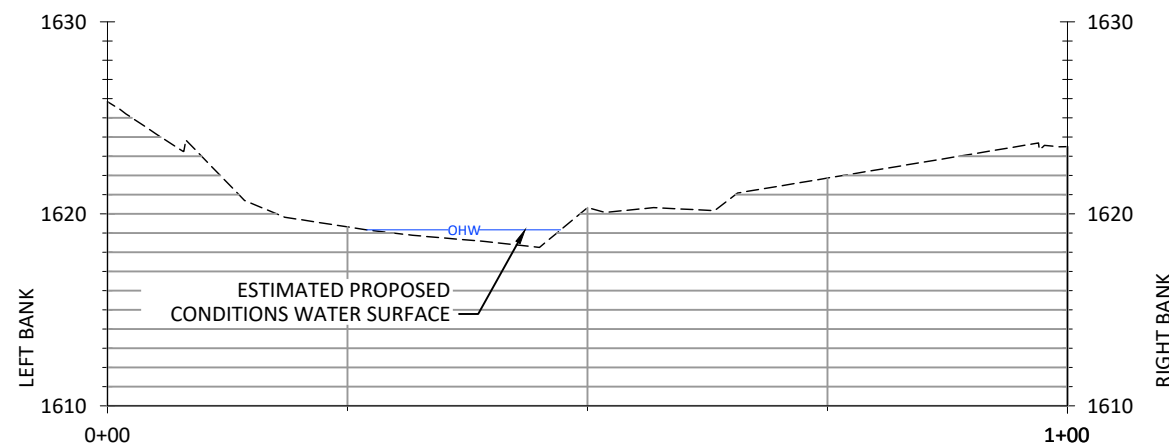
12 CROSS-SECTION AT STA 4+00
10



13 CROSS-SECTION AT STA 5+00
10



14 CROSS-SECTION AT STA 6+00
10



15 CROSS-SECTION AT STA 7+00
10

SCALE: 1" = 10'
2x VERTICAL EXAGGERATION
SCALE: 1" = 20'

NOTES:

1. SECTIONS ARE ORIENTED LEFT TO RIGHT FACING DOWNSTREAM.
2. THE PROPOSED CUT SLOPES PRESENTED ON THESE SECTIONS REPRESENT OUR BEST ESTIMATES OF THE PRE-DAM RIVER CHANNEL GEOMETRY.
3. THE PROPOSED CUT-SLOPES ARE NOT INTENDED TO BE PRESCRIPTIVE. THE INTENT OF EXCAVATION ACTIVITIES IS TO REMOVE IMPOUNDED MATERIAL THAT HAS BEEN DEPOSITED ON TOP OF THE HISTORIC NATIVE MATERIAL, WHICH IS LIKELY TO CONSIST OF COBBLES, BOULDERS, AND ROCK. IF HISTORIC NATIVE MATERIAL IS ENCOUNTERED ABOVE THE PROPOSED GRADE, IT SHALL REMAIN IN PLACE. IF HISTORIC NATIVE MATERIAL IS NOT ENCOUNTERED AT THE PROPOSED GRADE, NO FURTHER EXCAVATION IS REQUESTED.
4. THE PROPOSED CUT-SLOPES MAY BE USED TO ESTIMATE THE VOLUME OF SALVAGE MATERIAL THAT WILL NEED TO BE DISPOSED OF, EITHER IN DESIGNATED AREAS ON-SITE, OR AT OFF-SITE FACILITIES.
5. WATER SURFACE SHOWN ON SECTIONS IS THE ESTIMATED 2-YEAR FLOOD.

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NO.	BY	DATE	REVISION DESCRIPTION

DF,SW DRAWN	NN,SW DESIGNED	CC CHECKED
---	08/12/2022	18-05-01
APPROVED	DATE	PROJECT

BECKER POND DAM REMOVAL
THE NATURE CONSERVANCY
BERKSHIRE COUNTY, MASSACHUSETTS

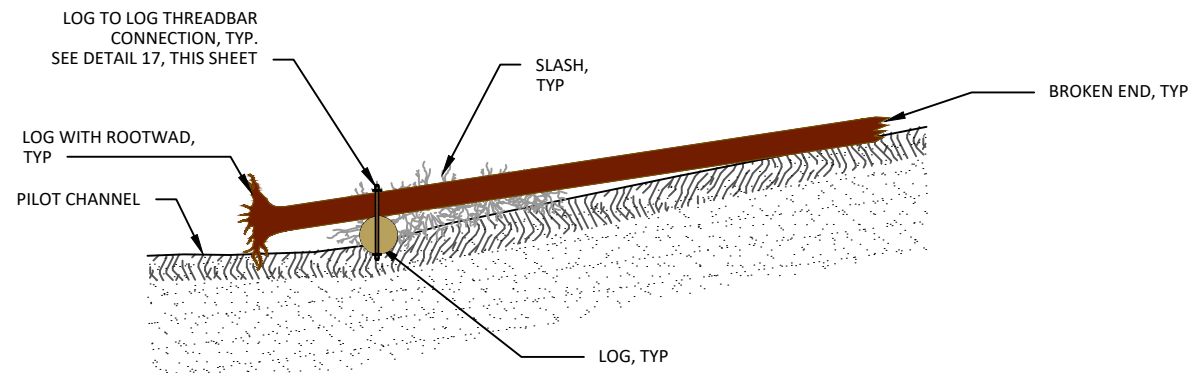


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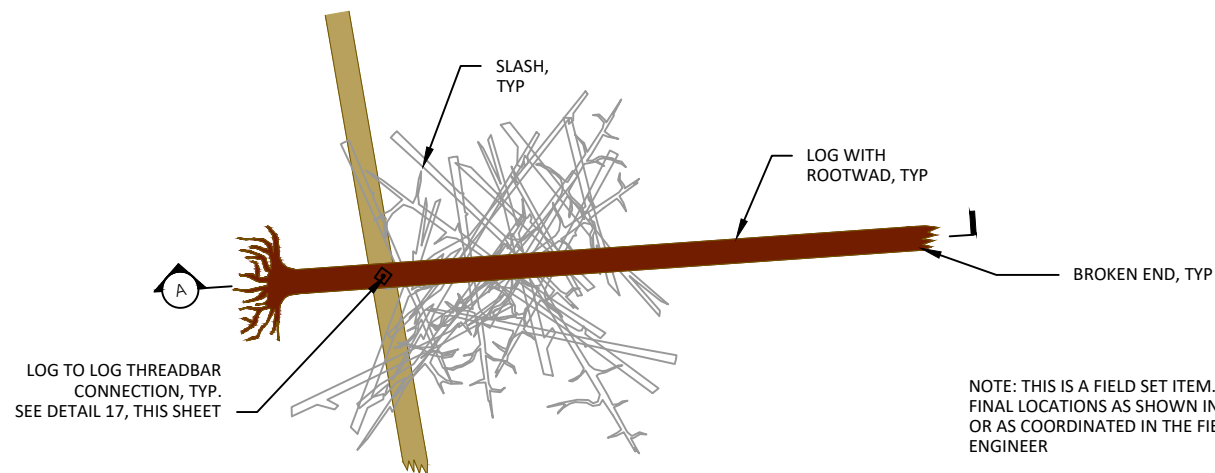
PILOT CHANNEL
CONSTRUCTION CROSS
SECTIONS

SHEET
10 OF 12

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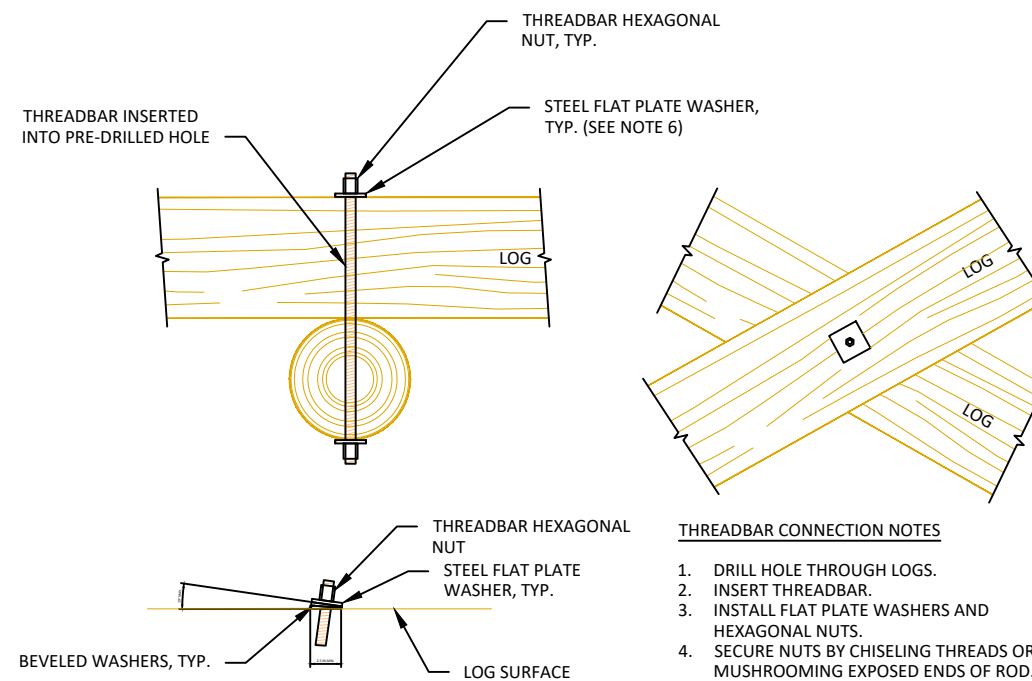
A TYPICAL SECTION VIEW



B TYPICAL PLAN VIEW

16 TYPICAL DETAIL: LARGE WOOD STRUCTURE
11

NOTE: THIS IS A FIELD SET ITEM.
FINAL LOCATIONS AS SHOWN IN THE PLANS
OR AS COORDINATED IN THE FIELD WITH THE
ENGINEER



THREADBAR CONNECTION NOTES

1. DRILL HOLE THROUGH LOGS.
2. INSERT THREADBAR.
3. INSTALL FLAT PLATE WASHERS AND HEXAGONAL NUTS.
4. SECURE NUTS BY CHISELING THREADS OR MUSHROOMING EXPOSED ENDS OF ROD.
5. FILE OR GRIND OFF SHARP EDGES.
6. BEVELED WASHERS WILL BE REQUIRED BY THE ECOLOGIST TEAM IN THE FIELD IF ANGLE OF PRE-DRILLED HOLE IS NOT PERPENDICULAR TO BOTH LOGS.

17 LOG TO LOG THREADBAR CONNECTION
11

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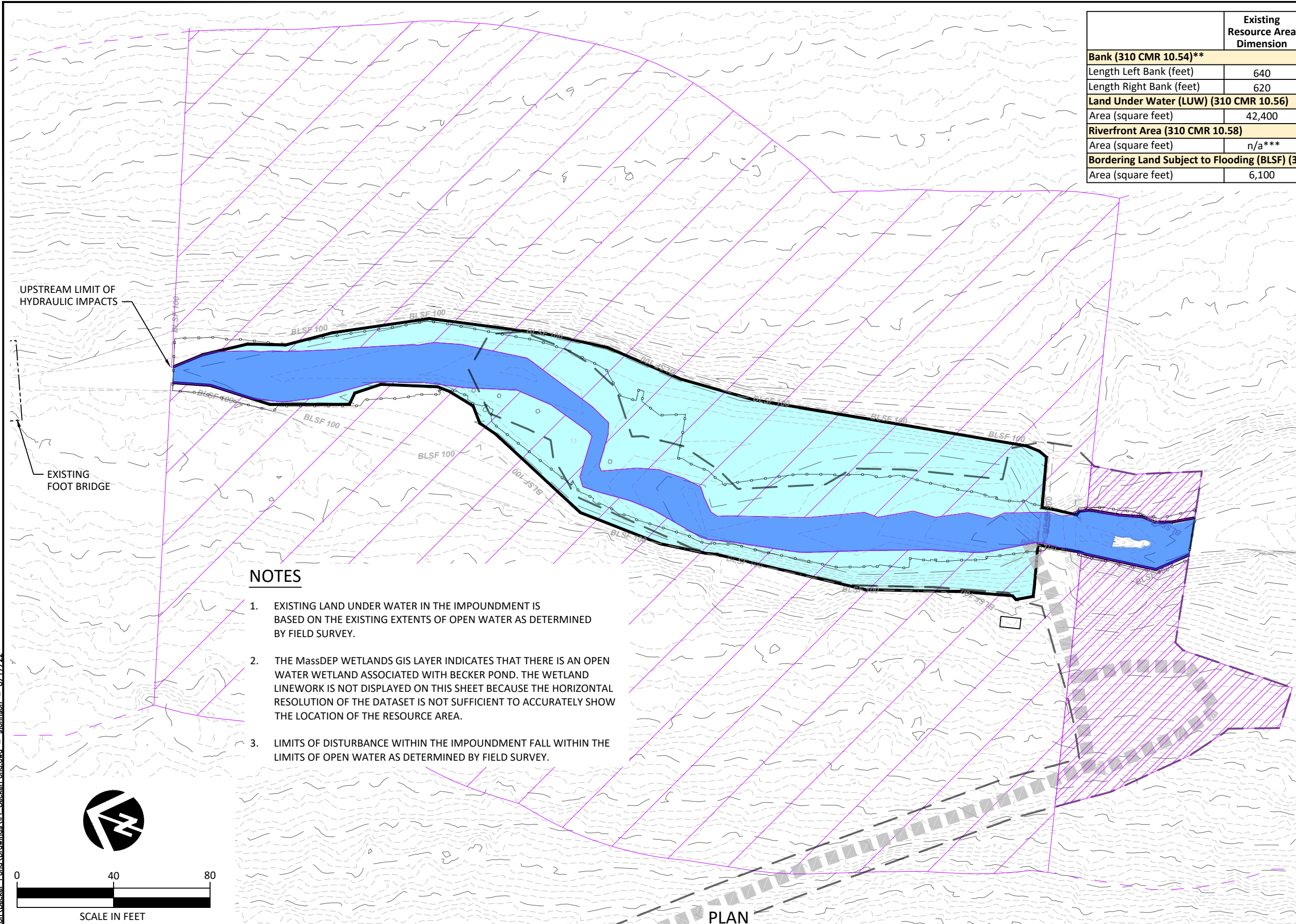
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LARGE WOOD STRUCTURE
DETAILS

SHEET

11 OF 12

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	Existing Resource Area Dimension	Proposed Resource Area Dimension	Net Change in Resource Area	Temporary Construction Impact*
Bank (310 CMR 10.54)**				
Length Left Bank (feet)	640	640	0**	140
Length Right Bank (feet)	620	620	0**	145
Land Under Water (LUW) (310 CMR 10.56)				
Area (square feet)	42,400	13,200	-29,200	25,500
Riverfront Area (310 CMR 10.58)				
Area (square feet)	n/a***	255,500	255,500	14,150
Bordering Land Subject to Flooding (BLSF) (310 CMR 10.57)				
Area (square feet)	6,100	14,300	8,200	530

NOTES:
 * The temporary construction impact is calculated relative to the Existing Resource Area and the Limit of Disturbance.
 ** 550 feet of left bank and 560 feet of right bank will be permanently relocated upon removal of the impoundment.
 *** Riverfront Area is not applicable to the existing impoundment. Riverfront Area will be created upon removal of the impoundment.

LEGEND

EXISTING AND PROPOSED RESOURCE AREAS

BANK (310CMR10.54)

— EXISTING
 — PROPOSED

LAND UNDERWATER (310CMR10.56)

EXISTING
 PROPOSED

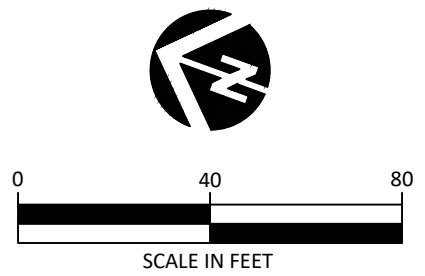
LAND SUBJECT TO FLOODING (310CMR10.57)

— BLSF 100 — EXISTING
 — BLSF 100 — PROPOSED

RIVERFRONT AREA (310CMR10.58)

NEW
 TEMPORARY IMPACTS
 EXISTING RIVERFRONT BOUNDARY
 LIMITS OF DISTURBANCE
 EXISTING ROAD

- NOTES**
- EXISTING LAND UNDER WATER IN THE IMPOUNDMENT IS BASED ON THE EXISTING EXTENTS OF OPEN WATER AS DETERMINED BY FIELD SURVEY.
 - THE MassDEP WETLANDS GIS LAYER INDICATES THAT THERE IS AN OPEN WATER WETLAND ASSOCIATED WITH BECKER POND. THE WETLAND LINEWORK IS NOT DISPLAYED ON THIS SHEET BECAUSE THE HORIZONTAL RESOLUTION OF THE DATASET IS NOT SUFFICIENT TO ACCURATELY SHOW THE LOCATION OF THE RESOURCE AREA.
 - LIMITS OF DISTURBANCE WITHIN THE IMPOUNDMENT FALL WITHIN THE LIMITS OF OPEN WATER AS DETERMINED BY FIELD SURVEY.



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RESOURCE AREA IMPACTS