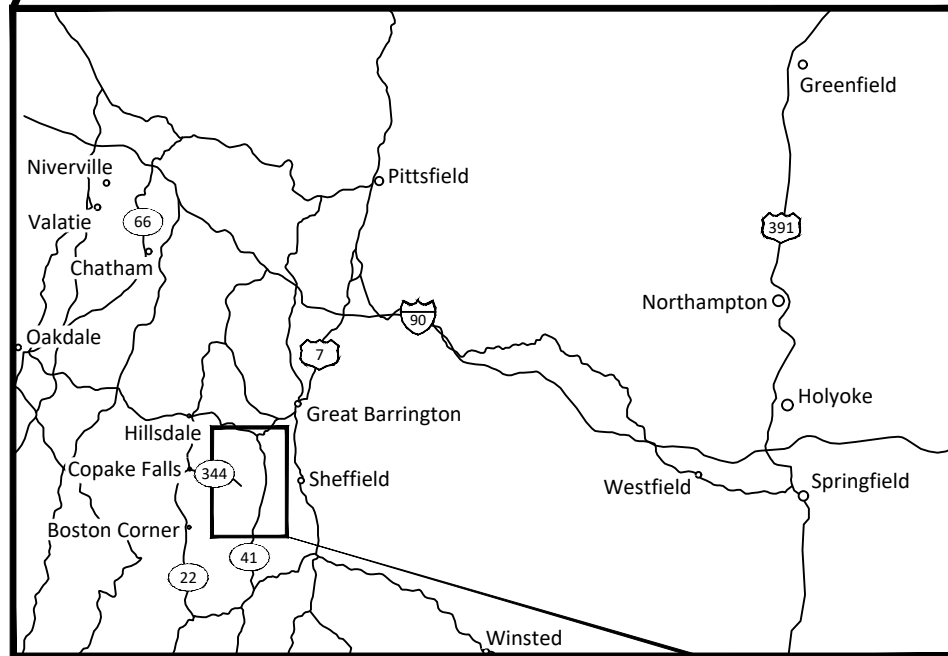


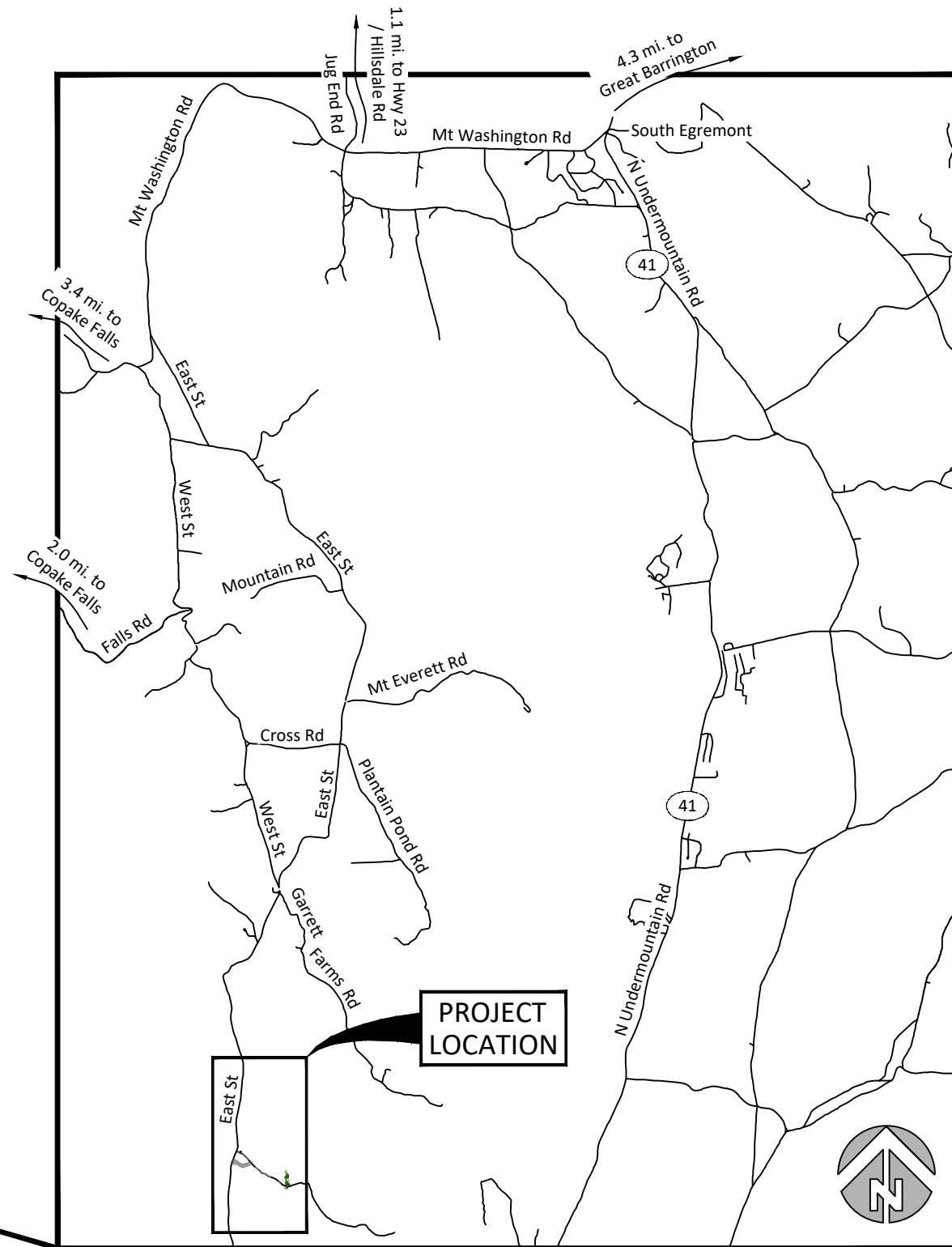
BECKER POND DAM REMOVAL

75% DESIGN PLANS SEPTEMBER 4, 2020

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 Grading Cross Sections
- 11 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

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SW APPROVED	9/4/2020 DATE	18-05-01 PROJECT

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COVER, LOCATION
AND SHEET LIST

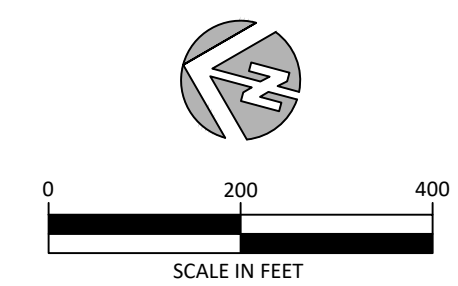
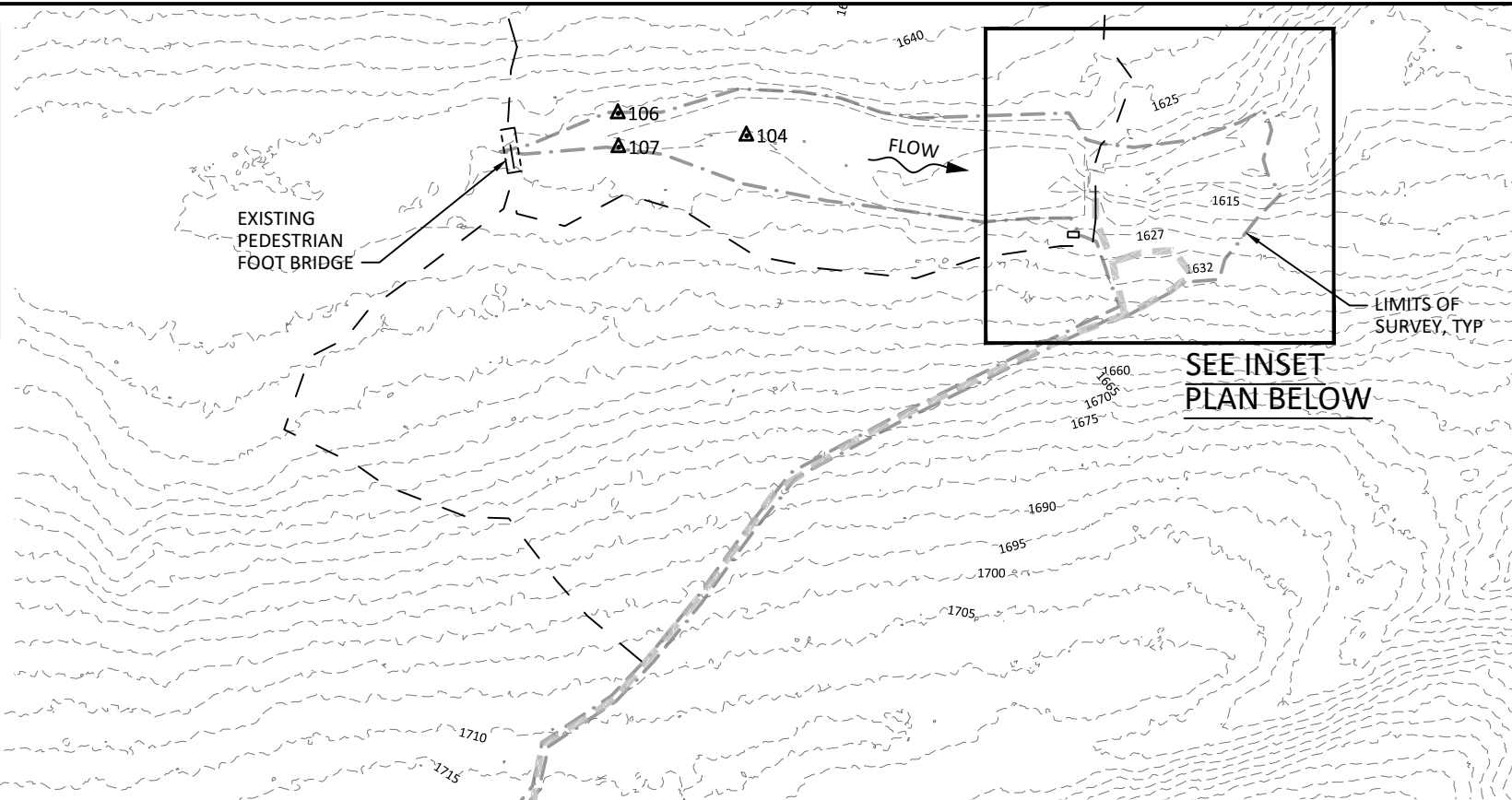
SHEET

1 OF 11

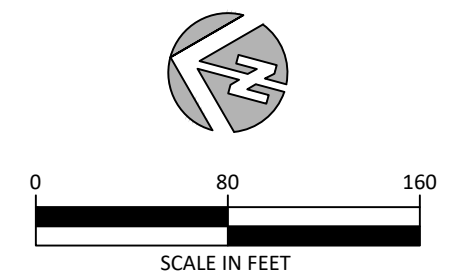
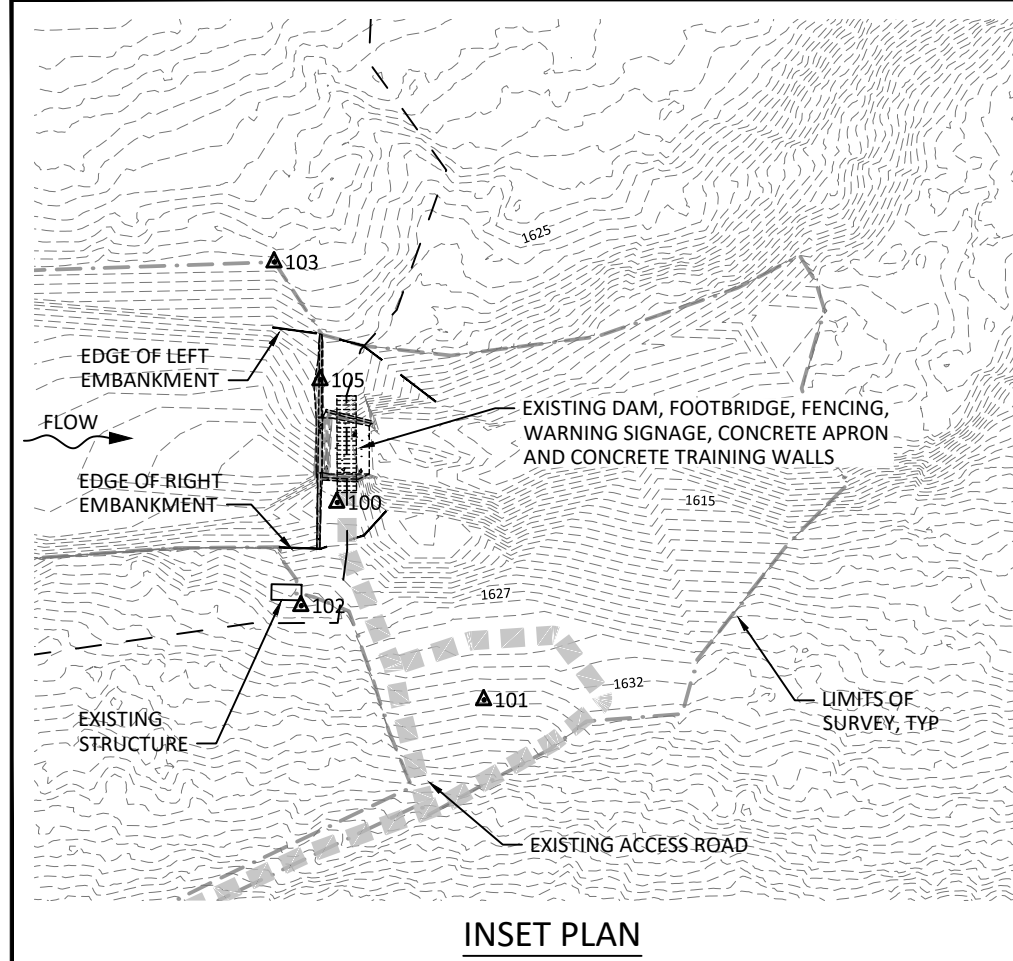
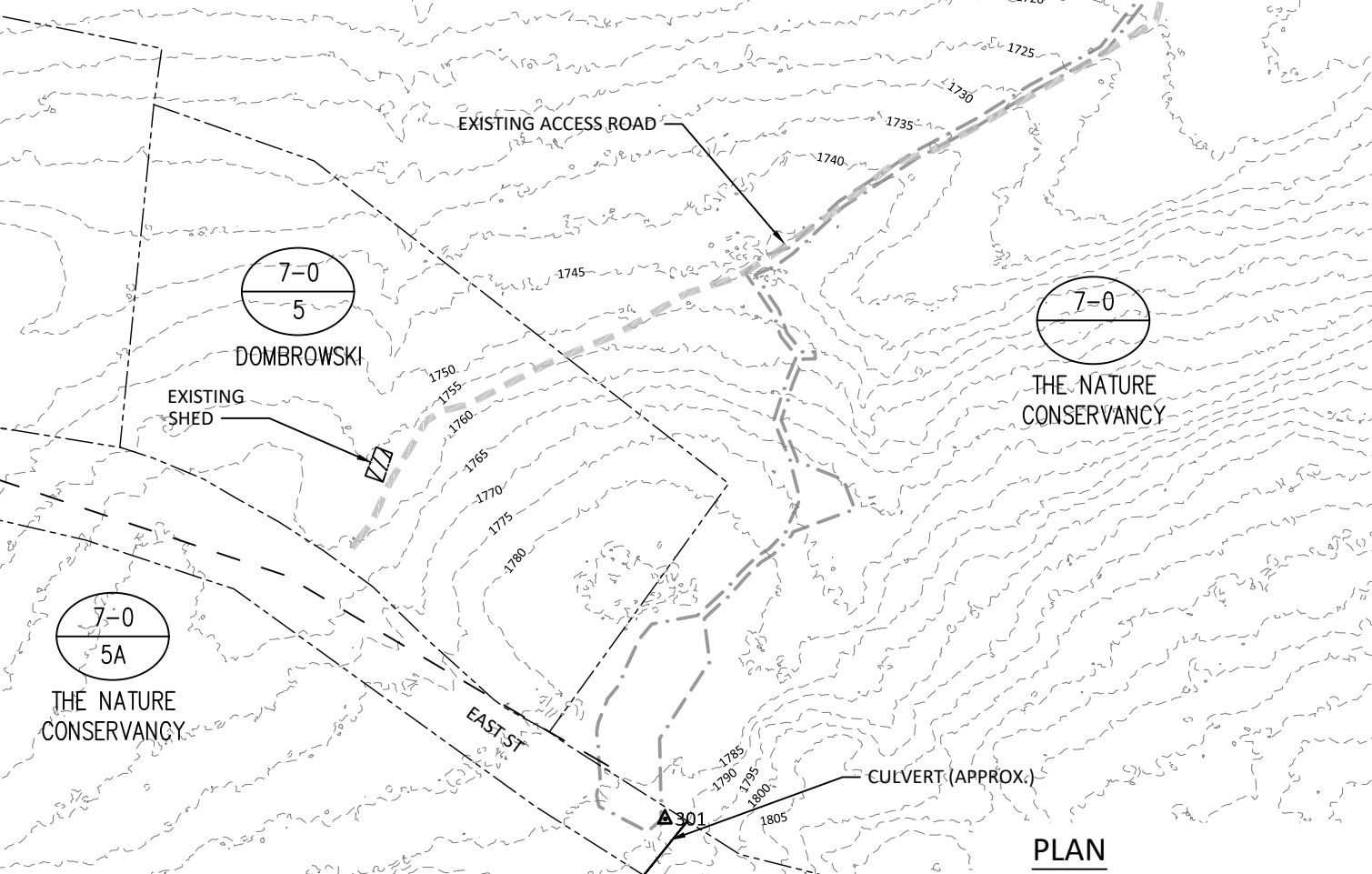
SURVEY CONTROL POINTS				
PT NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	2852371.25'	124142.01'	1620.87'	STAKE
101	2852290.85'	124078.40'	1635.07'	CAPPED REBAR
102	2852374.56'	124096.57'	1627.66'	CAPPED REBAR
103	2852422.40'	124232.01'	1626.99'	CAPPED REBAR
104	2852767.31'	124112.83'	1620.78'	STAKE
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).



- LEGEND**
- SURVEY CONTROL POINT
 - EXISTING 5-FT CONTOURS
 - PROPERTY LINE (MassGIS)
 - PROPERTY LINE (TNC GIS)
 - EXISTING TRAIL (TNC GIS)
 - LIMITS OF SURVEY
 - EXISTING ROAD
- MAP NUMBER
 LOT NUMBER
 DOMBROWSKI PROPERTY OWNER



- LEGEND**
- SURVEY CONTROL POINT
 - EXISTING 1-FT CONTOURS
 - LIMITS OF SURVEY
 - EXISTING ROAD
 - EXISTING TRAIL (TNC GIS)

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



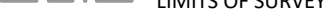
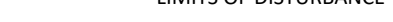


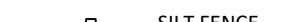


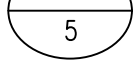
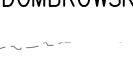
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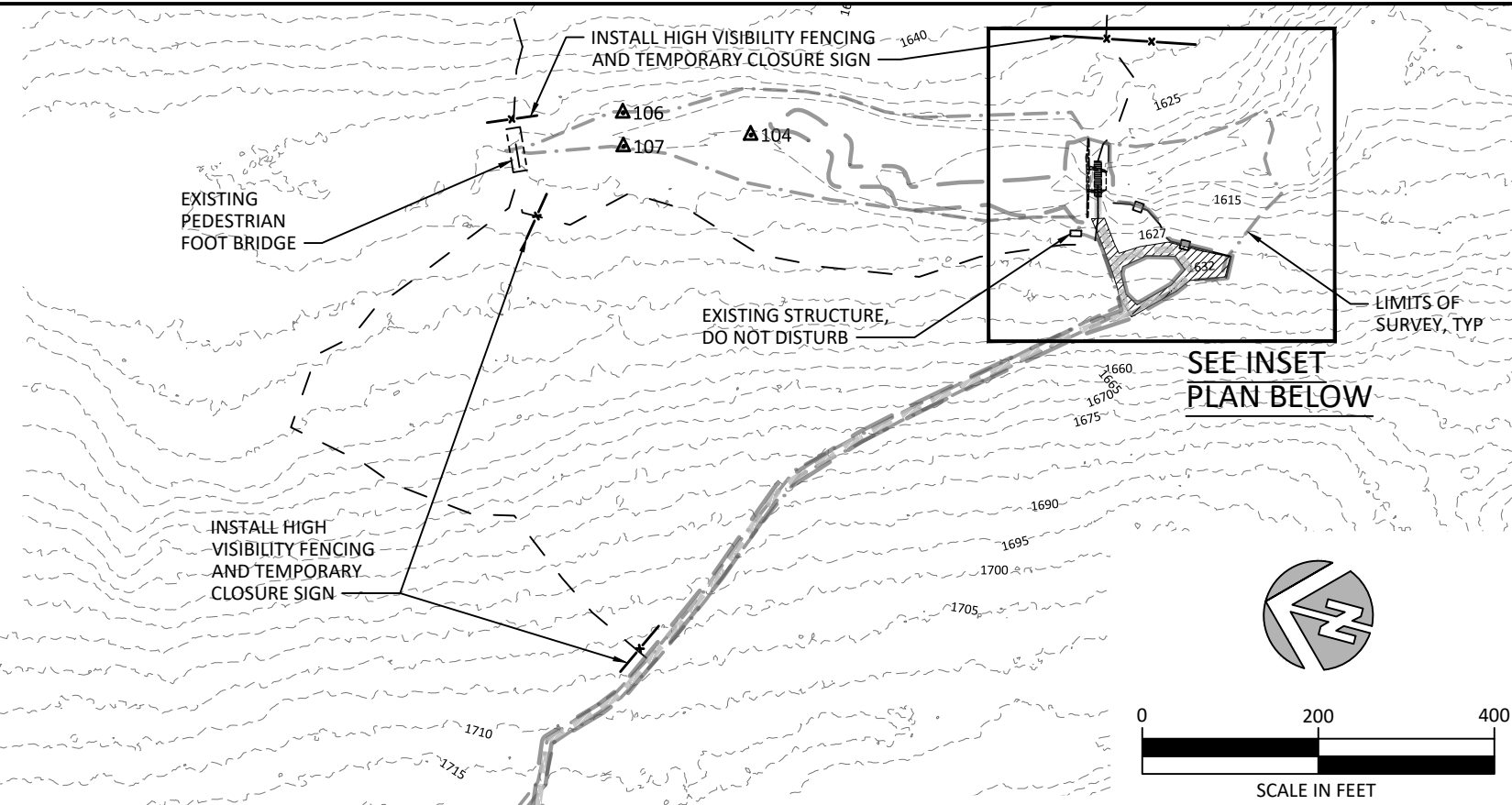


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EXISTING CONDITIONS,
OWNERSHIP, AND
SURVEY CONTROL

LEGEND

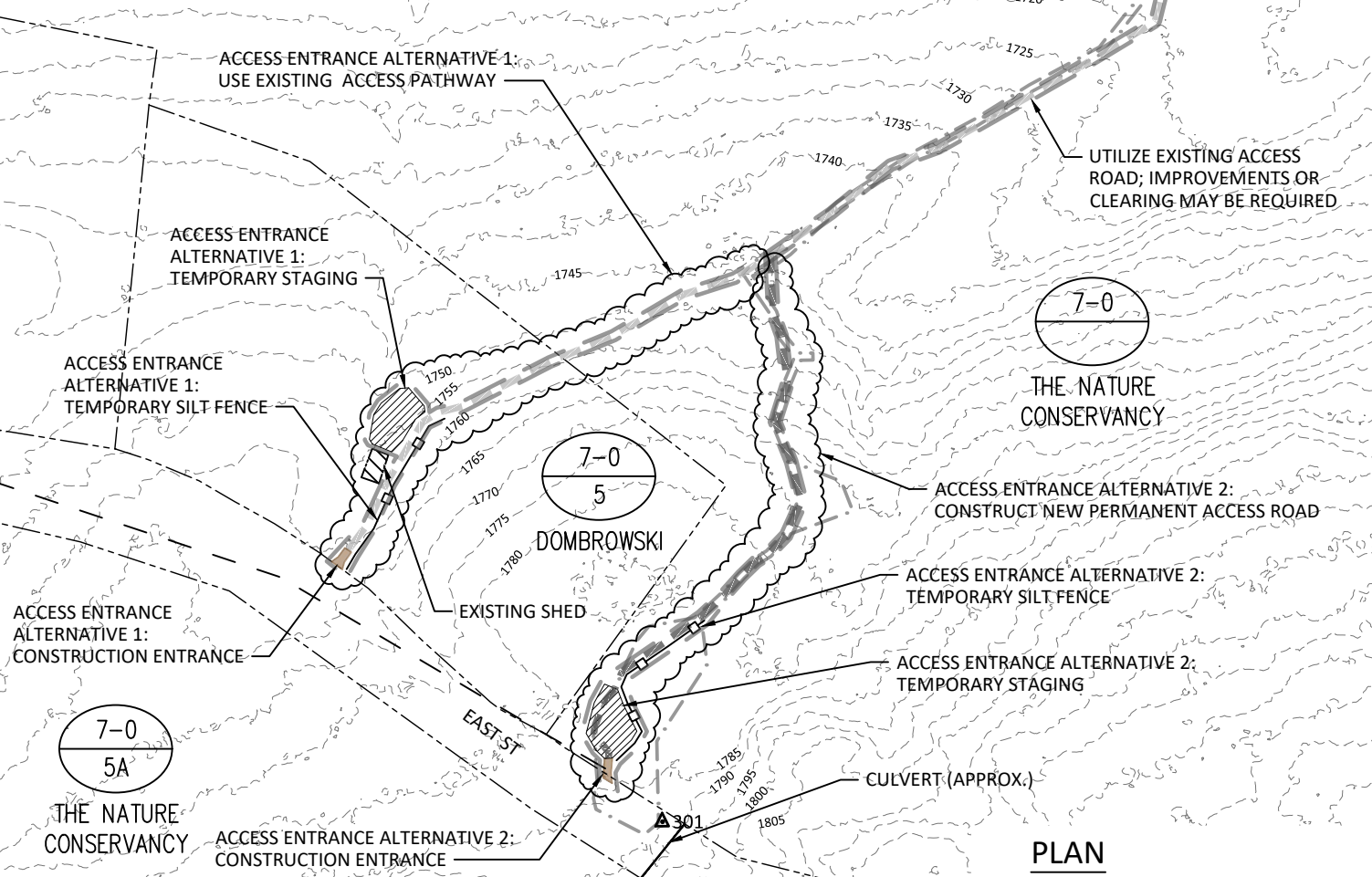
-  SURVEY CONTROL POINT
-  EXISTING 5-FT CONTOURS
-  PROPERTY LINE
-  EXISTING OR PROPOSED TRAIL (TNC GIS)
-  LIMITS OF SURVEY
-  LIMITS OF DISTURBANCE
-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  STAGING AREA
-  SILT FENCE
-  HIGH VISIBILITY FENCE
-  MAP NUMBER
-  LOT NUMBER
- DOMBROWSKI PROPERTY OWNER



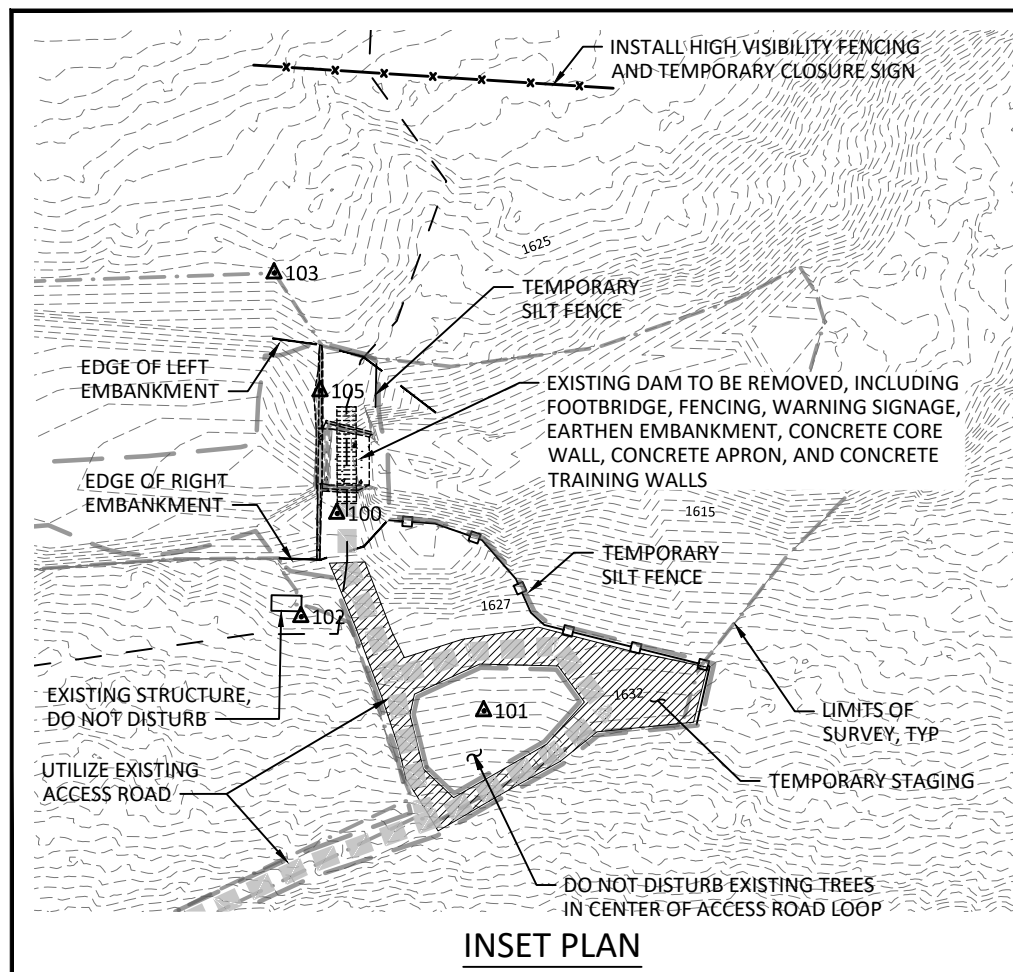
SUGGESTED CONSTRUCTION SEQUENCE

1. Entrance Alternatives 1 and 2: Establish new construction entrance and staging area at East Street. Install erosion and sedimentation control BMPs and temporary closure signs.
2. Entrance Alternative 2 (only): Construct new permanent access road.
3. Establish staging area adjacent to the dam. Install erosion and sedimentation control BMPs, high visibility fencing and temporary closure signs.
4. Implement water management plan.
5. Remove the dam spillway.
6. Remove the right-hand training wall.
7. Excavate the earthen embankment, remove the concrete core wall and grade the slope on the river right.
8. Remove the left-hand training wall.
9. Excavate the earthen embankment, remove the concrete core wall, and grade the slope on river left.
10. Excavate the pilot channel.
11. Install surface fabric, seed, and plantings within limits shown.
12. Remove water management controls.
13. Restore disturbed areas to a suitable condition.
14. Remove erosion and sedimentation controls.
15. Remove equipment and seed and plant along the new permanent access. Details TBD.
16. Remove fencing and signs.

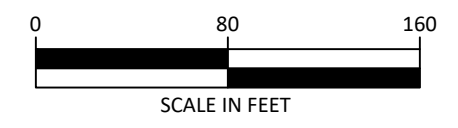
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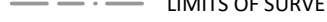
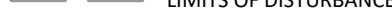

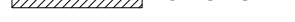



PLAN



INSET PLAN



LEGEND

-  SURVEY CONTROL POINT
-  EXISTING 1-FT CONTOURS
-  LIMITS OF SURVEY
-  LIMITS OF DISTURBANCE
-  EXISTING ROAD
-  STAGING AREA
-  SILT FENCE
-  HIGH VISIBILITY FENCE
-  EXISTING OR PROPOSED TRAIL (TNC GIS)

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SW APPROVED	9/4/2020 DATE	18-05-01 PROJECT







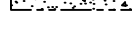

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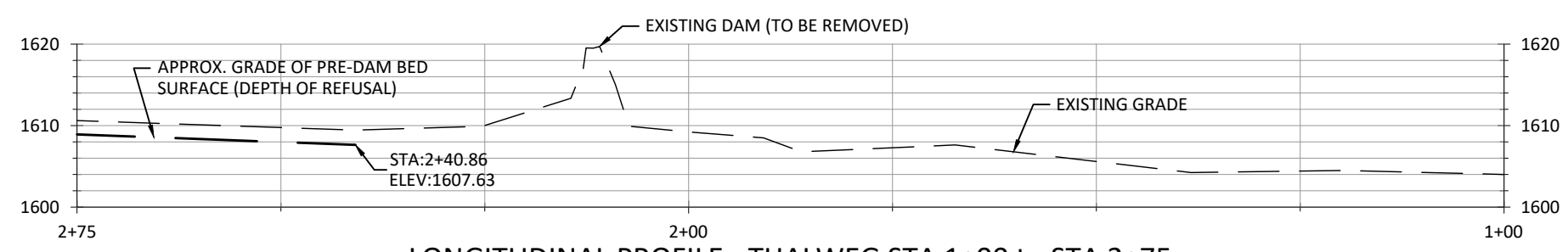
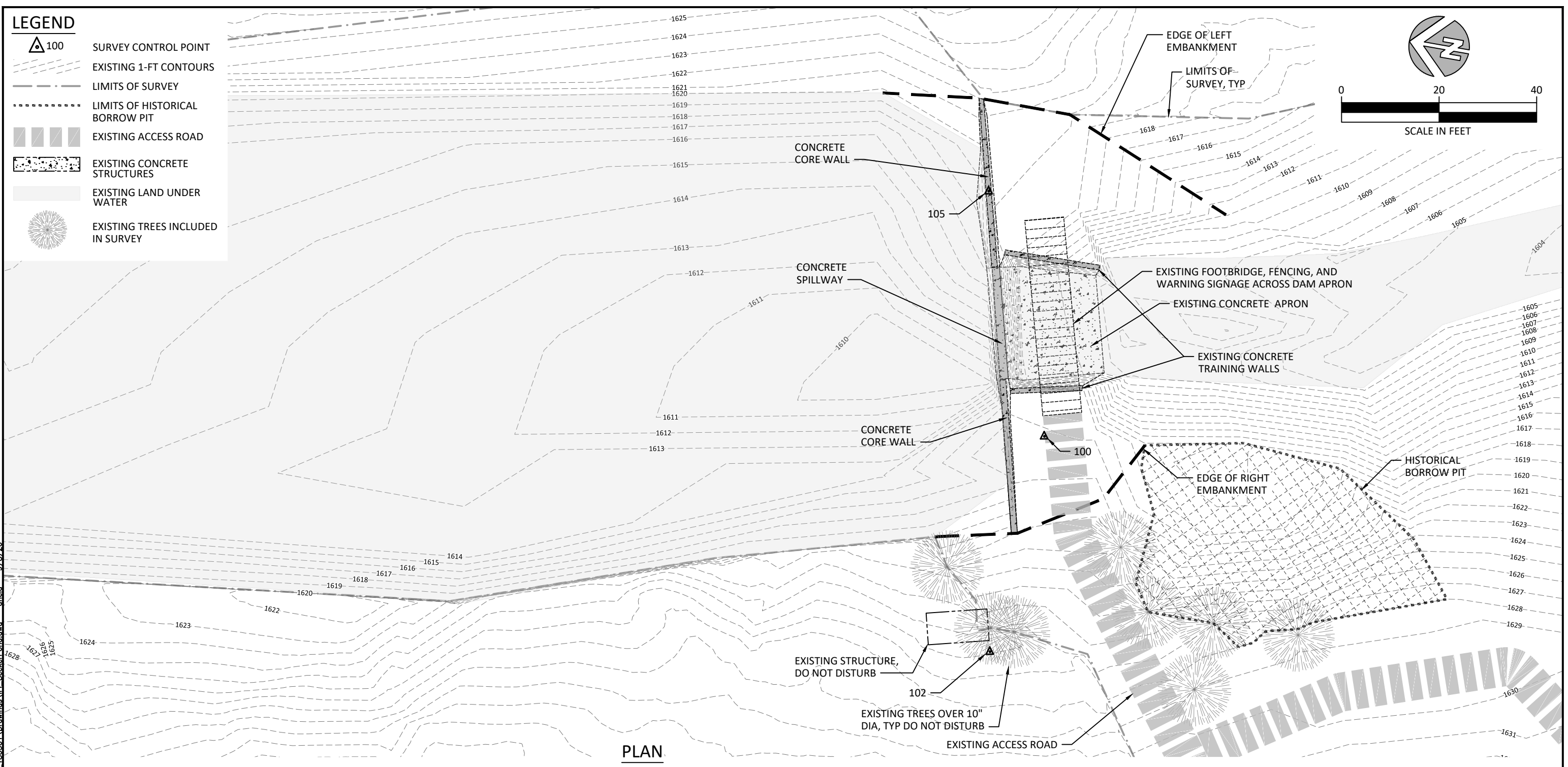
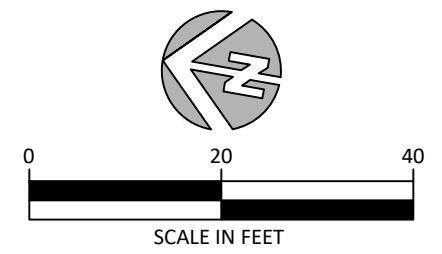


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**ACCESS AND STAGING, EROSION
AND SEDIMENT CONTROL**

LEGEND

-  SURVEY CONTROL POINT
-  EXISTING 1-FT CONTOURS
-  LIMITS OF SURVEY
-  LIMITS OF HISTORICAL BORROW PIT
-  EXISTING ACCESS ROAD
-  EXISTING CONCRETE STRUCTURES
-  EXISTING LAND UNDER WATER
-  EXISTING TREES INCLUDED IN SURVEY



LONGITUDINAL PROFILE - THALWEG STA 1+00 to STA 2+75

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
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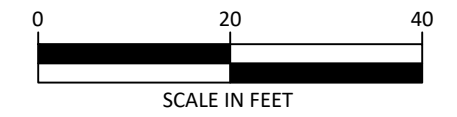
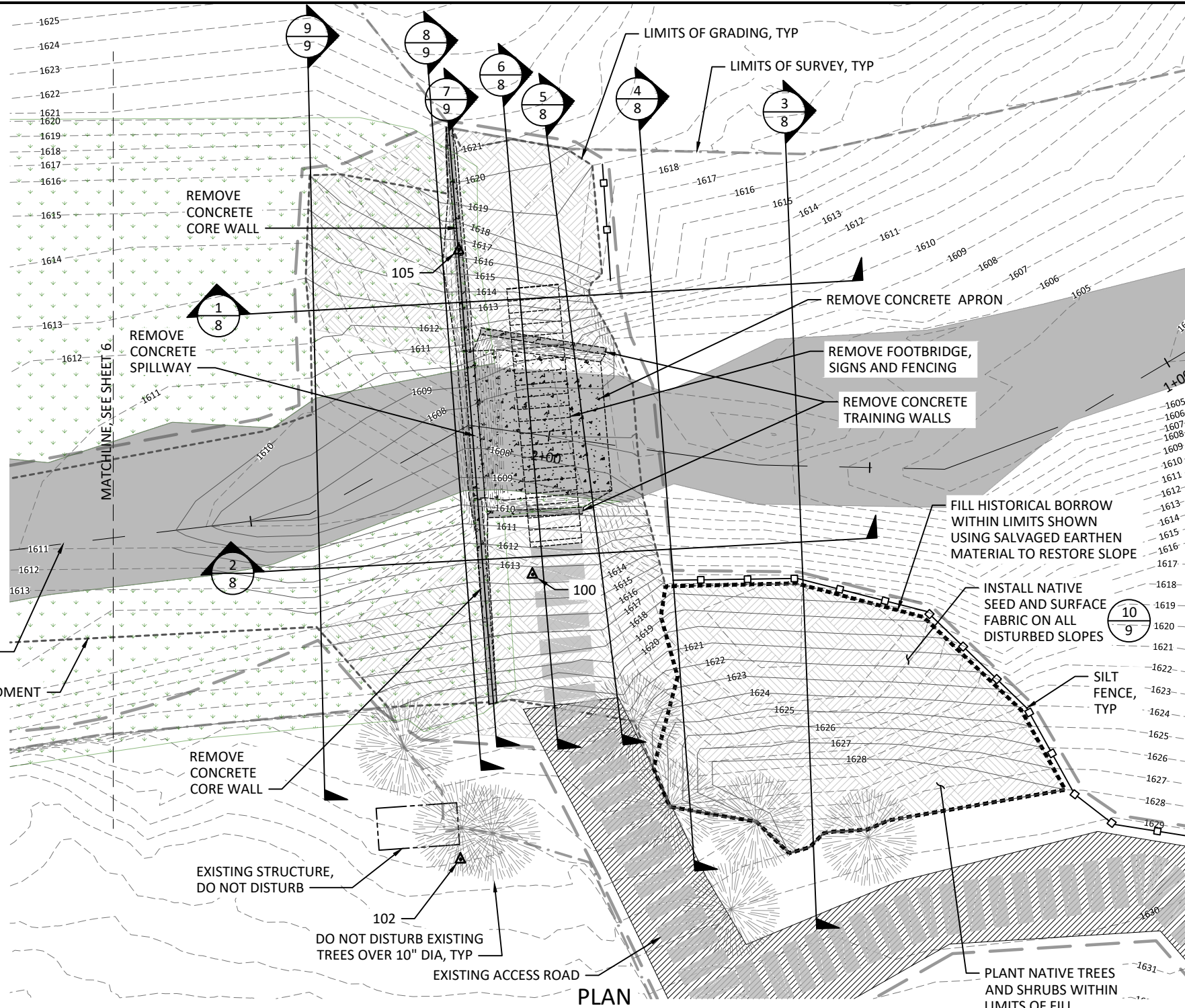


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
EXISTING CONDITIONS

NOTES:

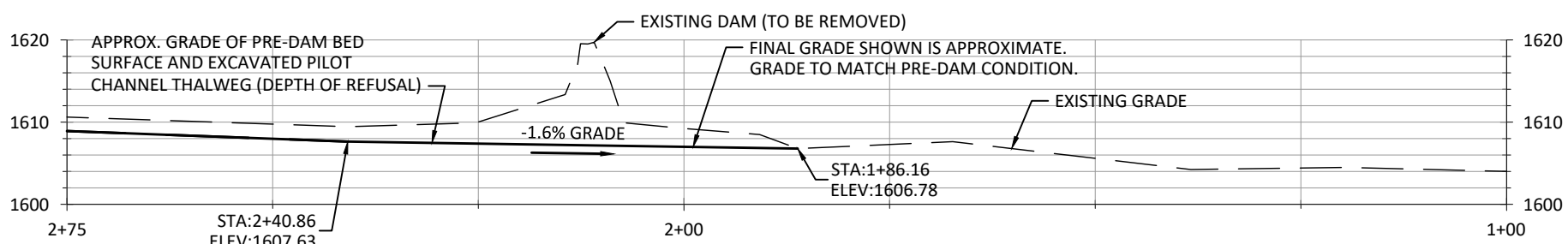
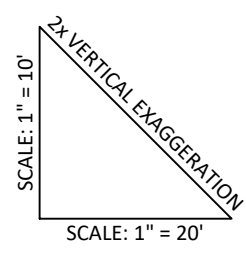
1. REMOVE FULL LATERAL AND VERTICAL EXTENTS OF THE FOLLOWING DAM COMPONENTS: CONCRETE CORE WALL, CONCRETE TRAINING WALLS, CONCRETE APRON, AND ALL ASSOCIATED APPURTANCES. DISPOSE OF CONCRETE OFF SITE.
2. THE FULL LATERAL AND VERTICAL EXTENTS OF SUBSURFACE FEATURES INCLUDING THE CONCRETE CORE WALL ARE NOT KNOWN AT THIS TIME.
3. REMOVE THE EARTHEN EMBANKMENT AS SHOWN IN THE PROPOSED GRADING.
4. REUSE SALVAGED EARTHEN MATERIAL ON-SITE. FILL HISTORICAL BORROW PIT, IDENTIFIED ON THIS PLAN.
5. GRADE BANKS AND CHANNEL AS SHOWN FROM DOWNSTREAM LIMIT OF DISTURBANCE TO STATION 1+83, SEE 
6. FOR PILOT CHANNEL GRADING FROM STATION 1+83 TO POINTS UPSTREAM, EXCAVATE PILOT CHANNEL WITHIN LIMIT OF DISTURBANCE. PILOT EXCAVATION SHOULD BE FROM THE DEPTH OF REFUSAL AT THE ASSUMED THALWEG, WITH SIDE SLOPES AT APPROXIMATELY 6:1 TO EXISTING BED AND A MAXIMUM TOP WIDTH OF APPROXIMATELY 23 FEET. IF HISTORIC NATIVE CHANNEL MATERIAL IS ENCOUNTERED, IT SHALL REMAIN IN PLACE.
7. STOCKPILE EXCAVATED SEDIMENT FOR POTENTIAL REUSE.
8. REMOVE AND DISPOSE OFF-SITE THE EXISTING FOOT BRIDGE, SIGNS, AND FENCING.
9. REFER TO SPECIFICATIONS FOR FILL REQUIREMENTS INCLUDING THE PREPARATION OF THE EXISTING SURFACE.
10. STAKE AND FLAG THE LIMIT OF DISTURBANCE FOR VISUAL IDENTIFICATION IN THE FIELD.



LEGEND

- EXISTING 1-FT CONTOURS
- PROPOSED 1-FT CONTOURS
- LIMITS OF SURVEY
- LIMITS OF DISTURBANCE
- ESTIMATED LIMIT OF GRADING
- EXISTING ACCESS ROAD
- TEMPORARY STAGING AND STOCKPILE AREA
- EXISTING CONCRETE STRUCTURES
- ANTICIPATED LAND UNDER WATER AFTER DAM REMOVAL
- EXISTING TREES
- PROPOSED SURFACE FABRIC INSTALLATION 
- TEMPORARY SILT FENCE
- APPROXIMATE FILL AREA BOUNDARY
- NATIVE SEED APPLICATION

ASSUMED HISTORICAL THALWEG, SEE PROFILE VIEW BELOW
EXCAVATE PILOT CHANNEL THROUGH FORMER IMPOUNDMENT



LONGITUDINAL PROFILE - THALWEG STA 1+00 to STA 2+75

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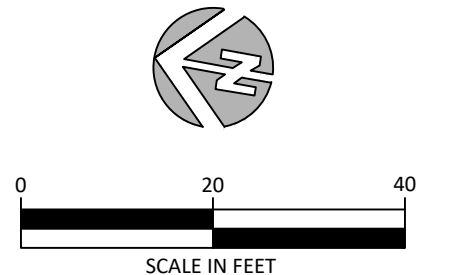
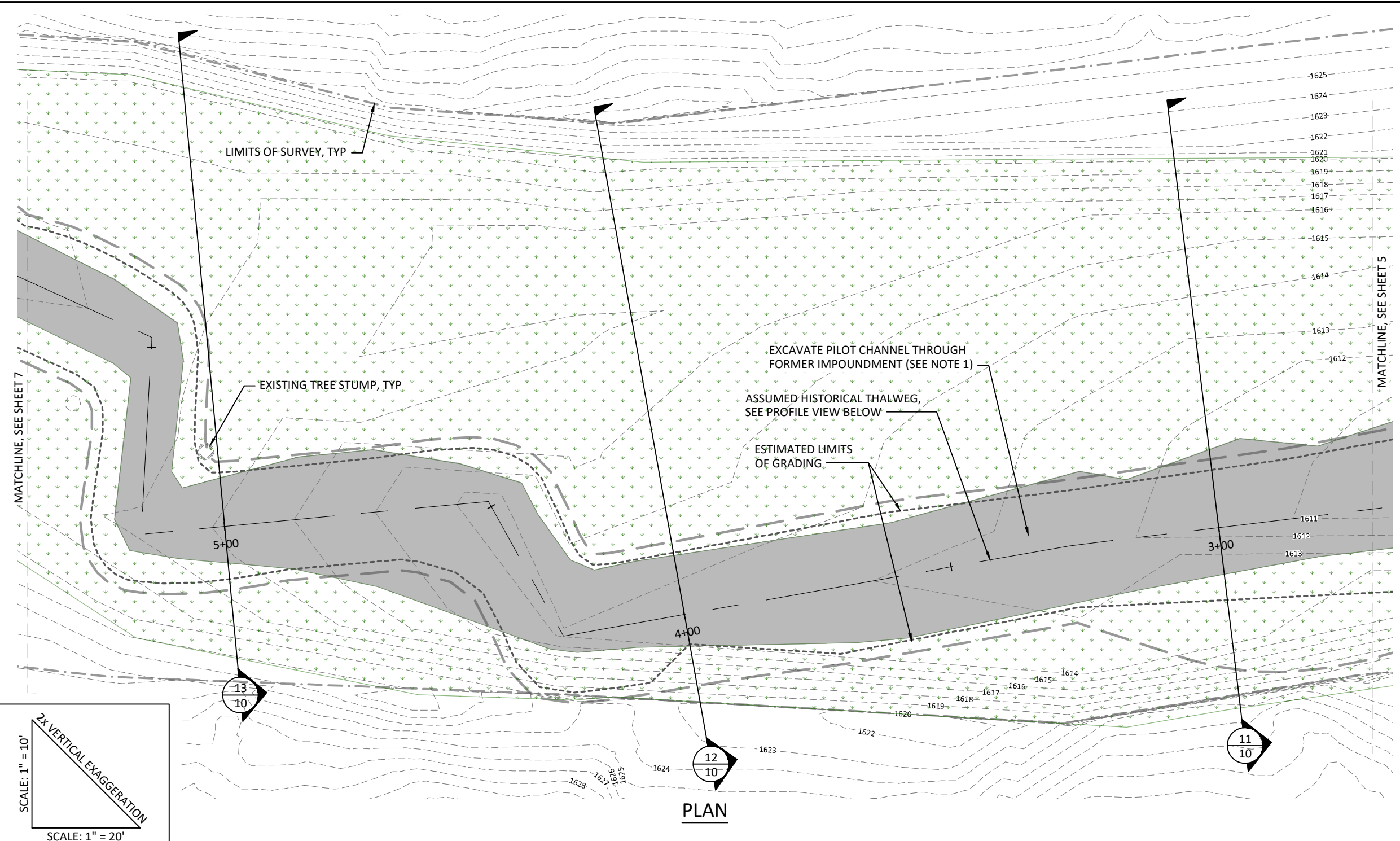
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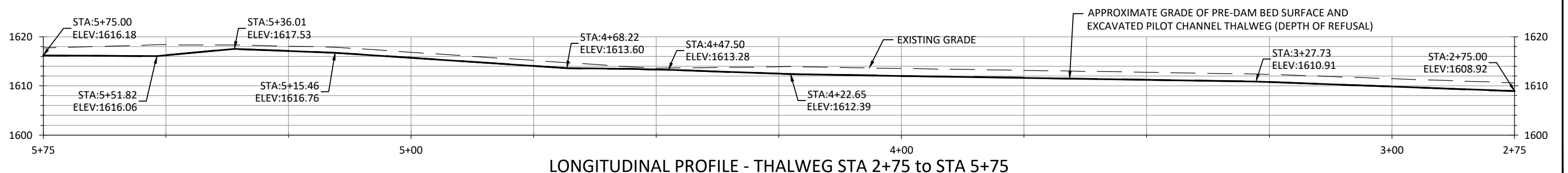
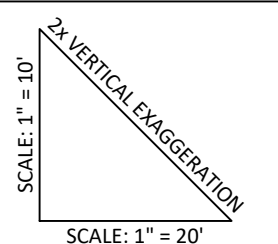
**DAM REMOVAL PLAN AND
PROFILE STA 1+50 TO STA 2+75**

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- LEGEND**
- EXISTING 1-FT CONTOURS
 - PROPOSED 1-FT CONTOURS
 - LIMITS OF SURVEY
 - LIMITS OF DISTURBANCE
 - ESTIMATED LIMIT OF GRADING
 - ANTICIPATED LAND UNDER WATER AFTER DAM REMOVAL
 - NATIVE SEED APPLICATION

- 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 6:1 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 FOR DISTURBANCE FOR VISUAL IDENTIFICATION IN THE FIELD.



NO.	BY	DATE	REVISION DESCRIPTION

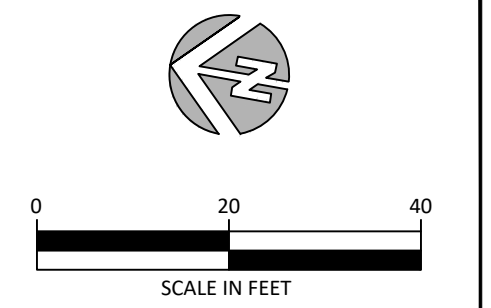
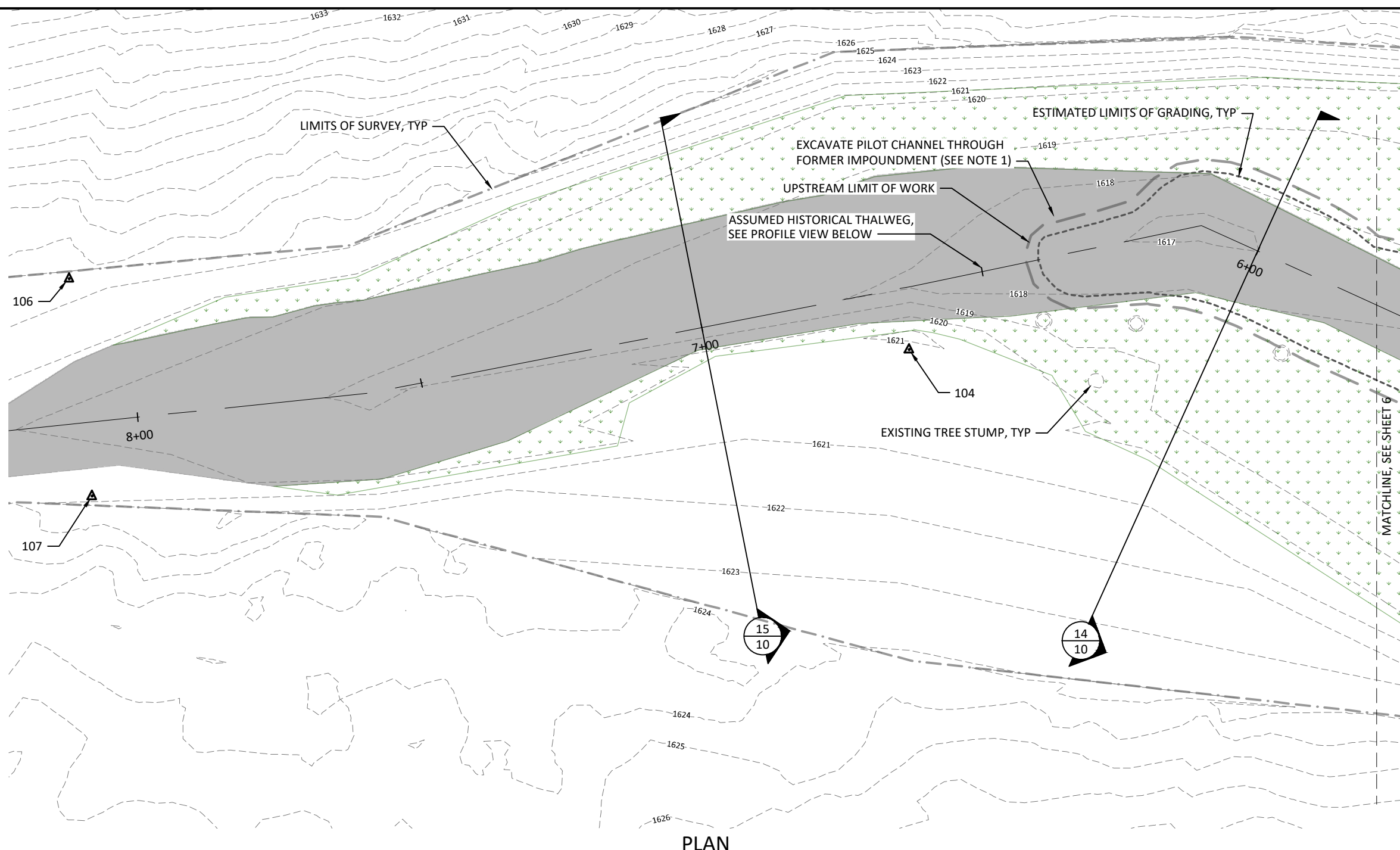
DF,SW,SJ DRAWN	NN,SW DESIGNED	CC CHECKED
SW APPROVED	9/4/2020 DATE	18-05-01 PROJECT

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**PILOT CHANNEL PLAN AND
PROFILE STA 2+75 TO STA 5+75**

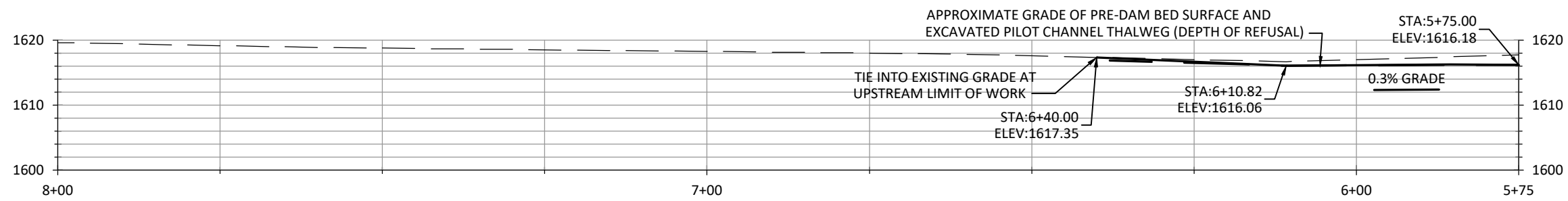
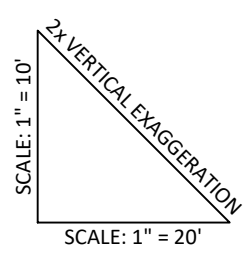
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- LEGEND**
- EXISTING 1-FT CONTOURS
 - PROPOSED 1-FT CONTOURS
 - LIMITS OF SURVEY
 - LIMITS OF DISTURBANCE
 - ESTIMATED LIMIT OF GRADING
 - ANTICIPATED LAND UNDER WATER AFTER DAM REMOVAL
 - NATIVE SEED APPLICATION

- 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 6:1 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 FOR DISTURBANCE FOR VISUAL IDENTIFICATION IN THE FIELD.

PLAN



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

NO.	BY	DATE	REVISION DESCRIPTION

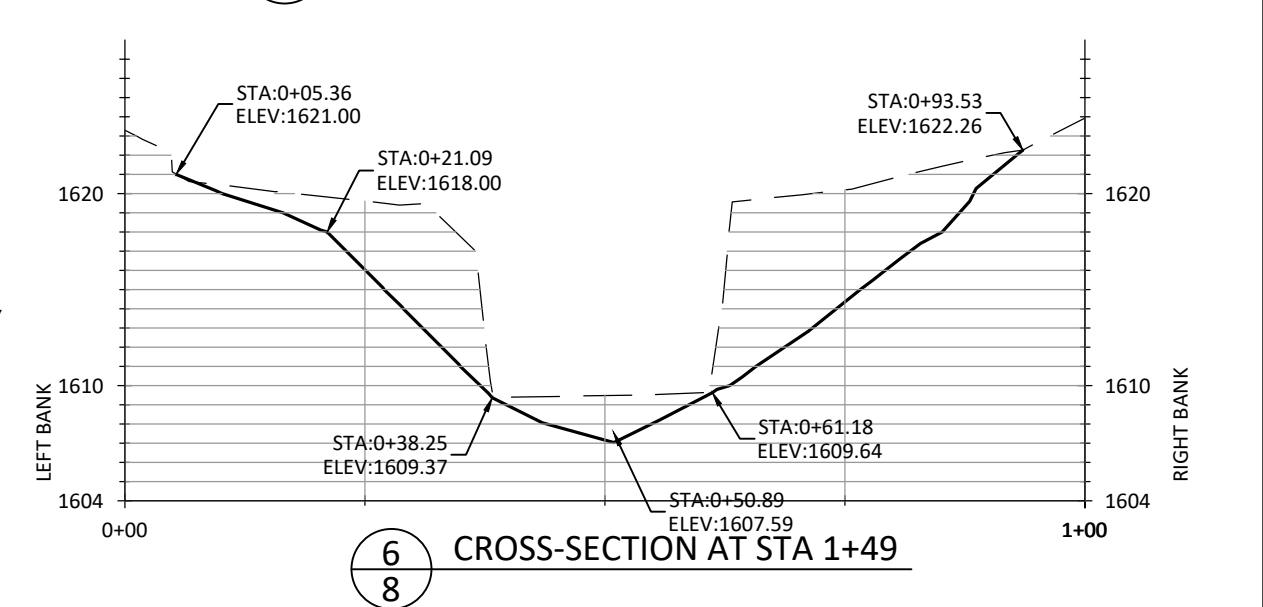
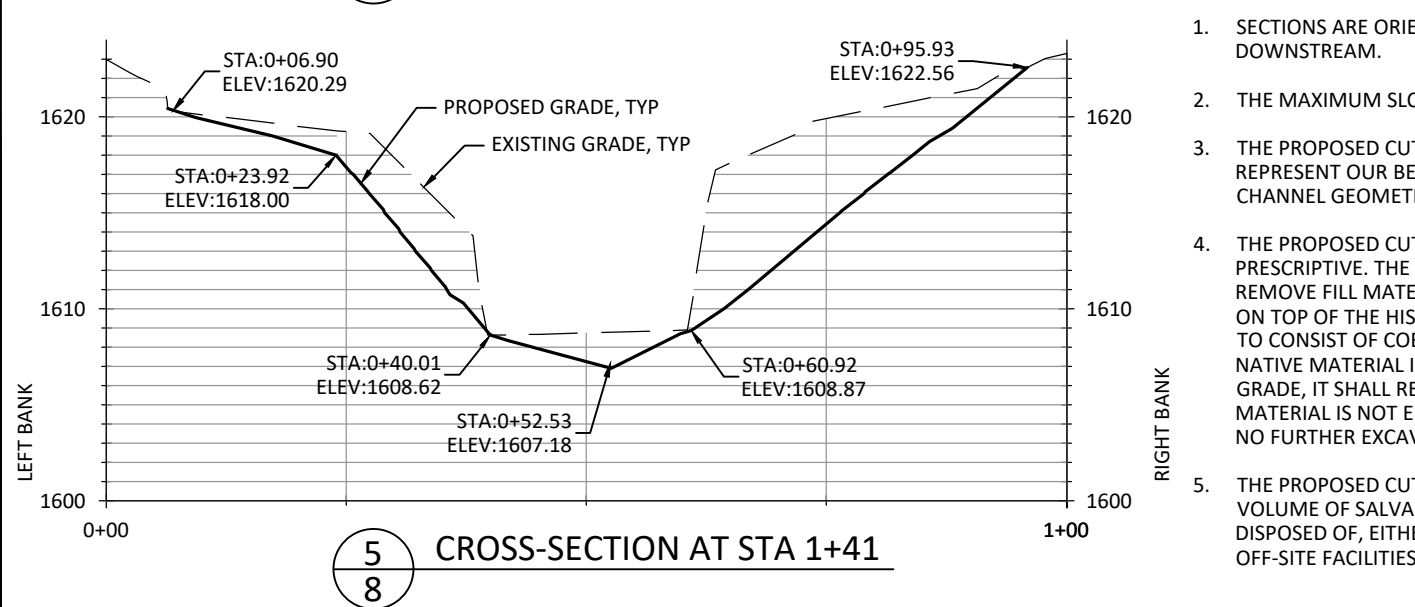
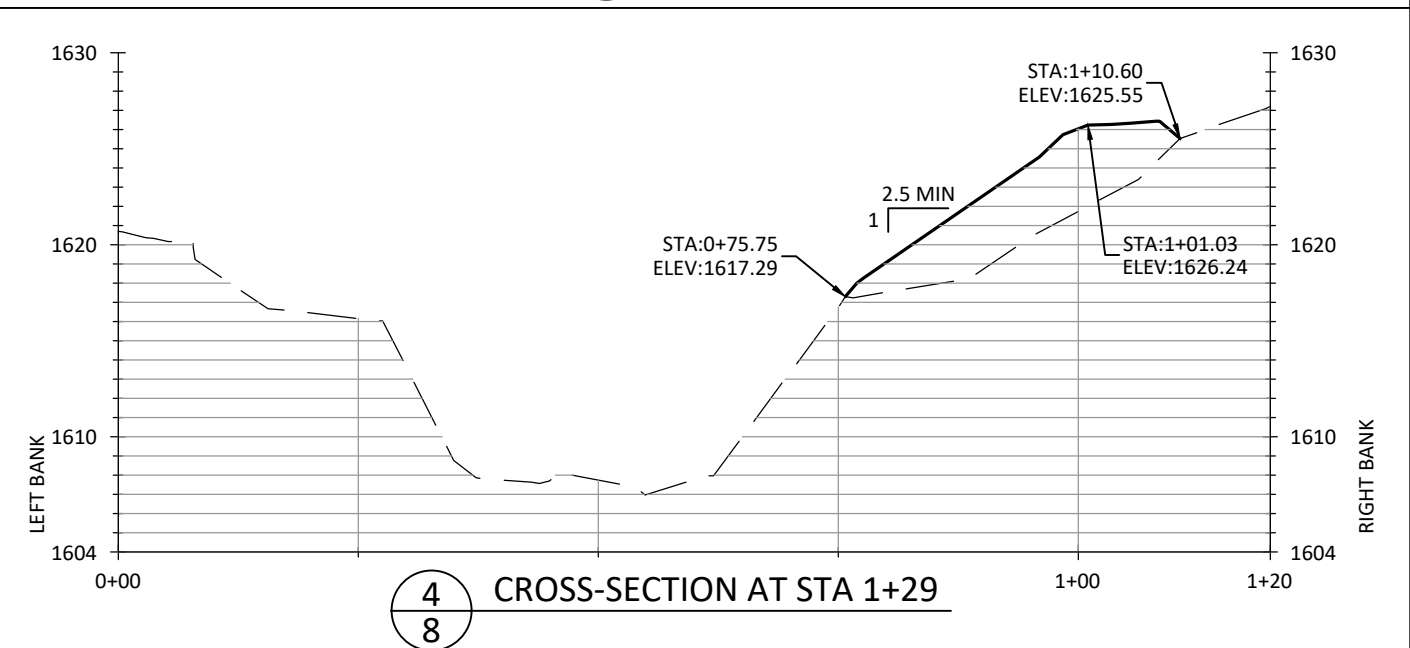
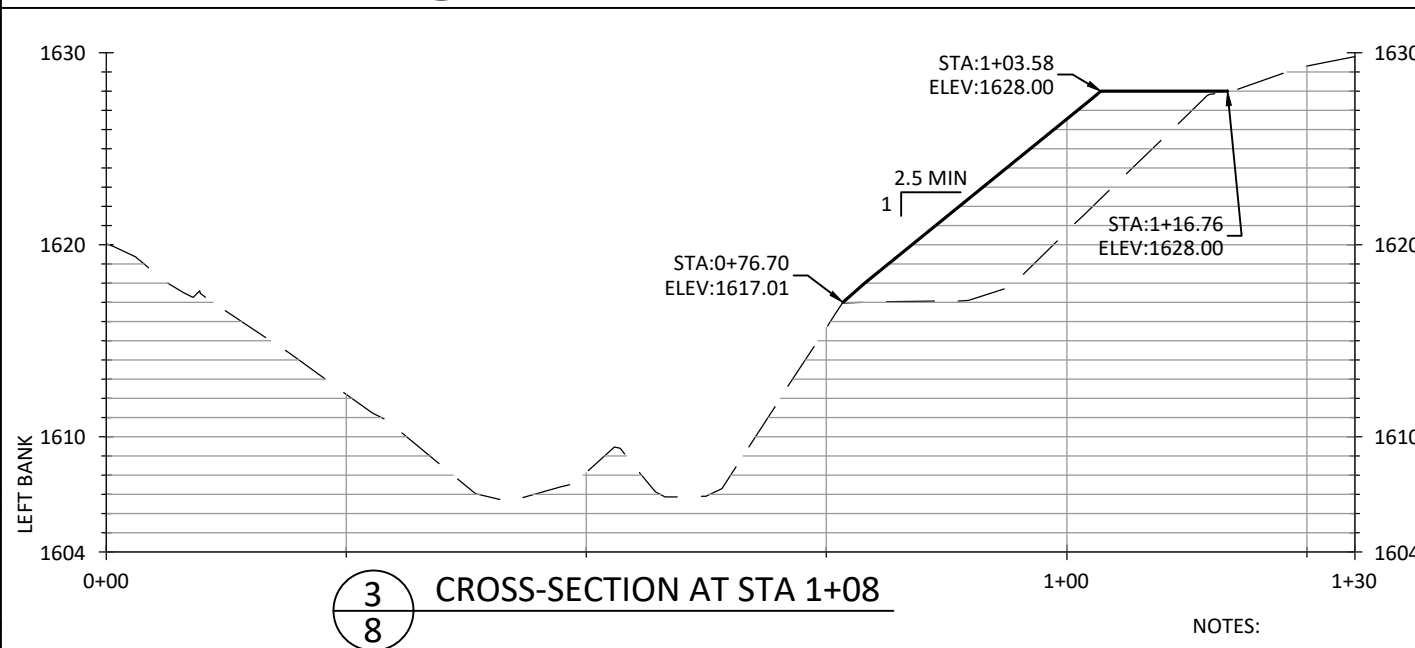
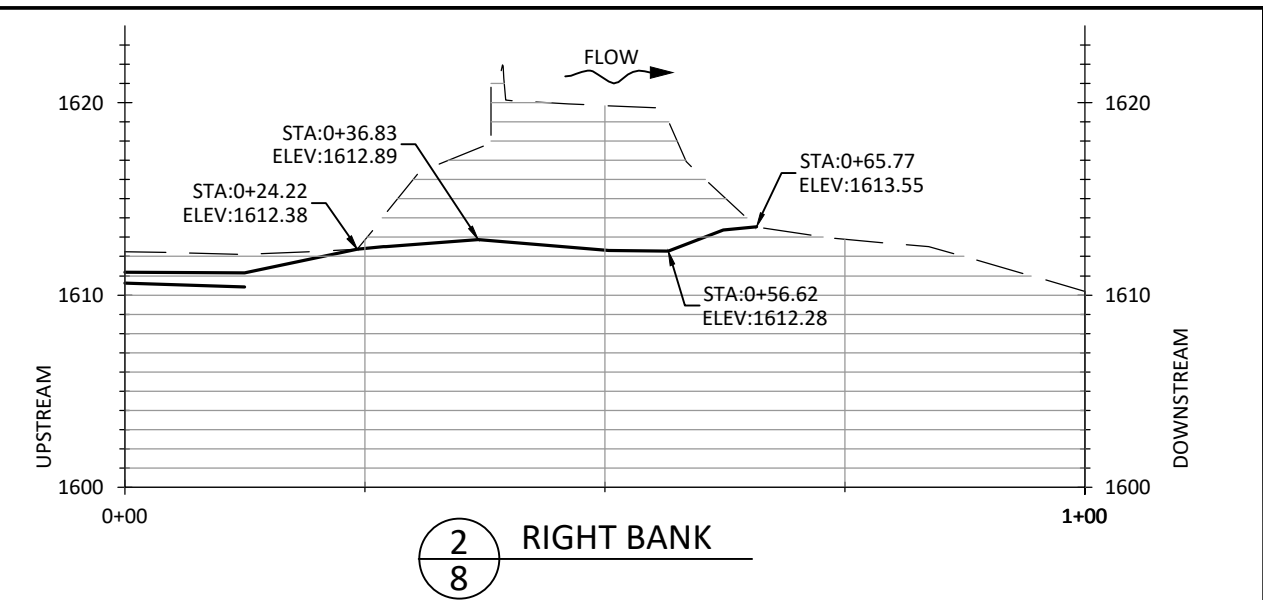
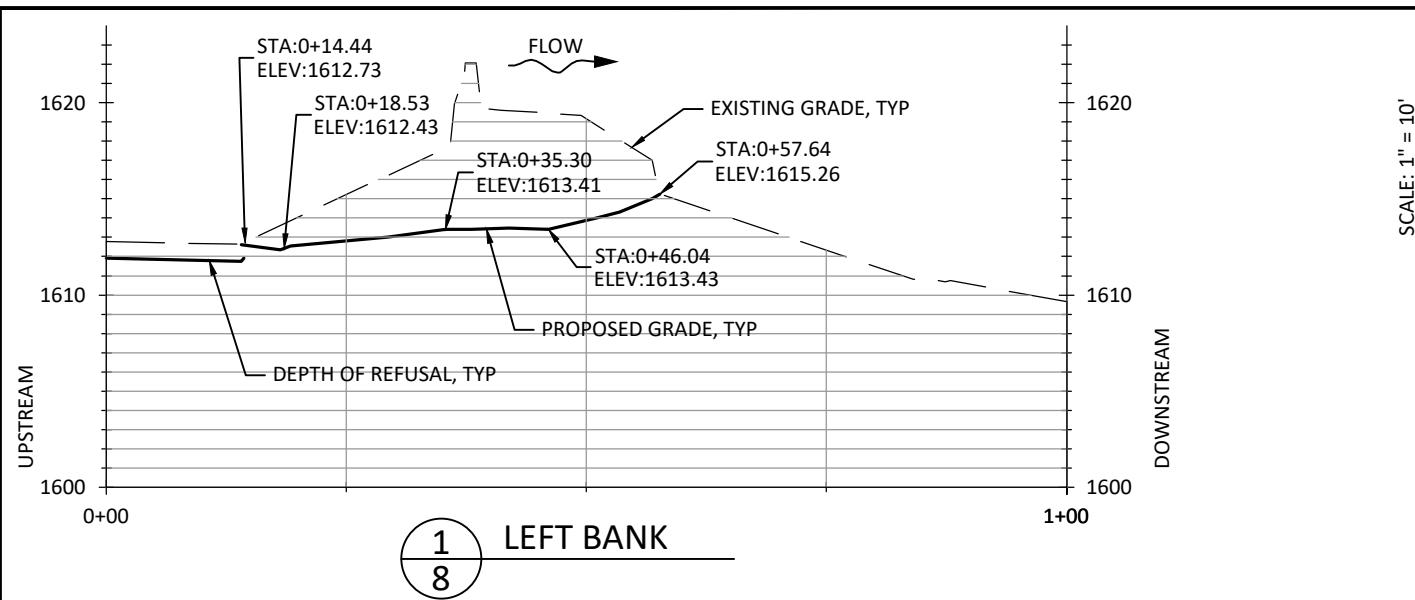
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**PILOT CHANNEL PLAN AND
PROFILE STA 5+75 TO STA 8+00**



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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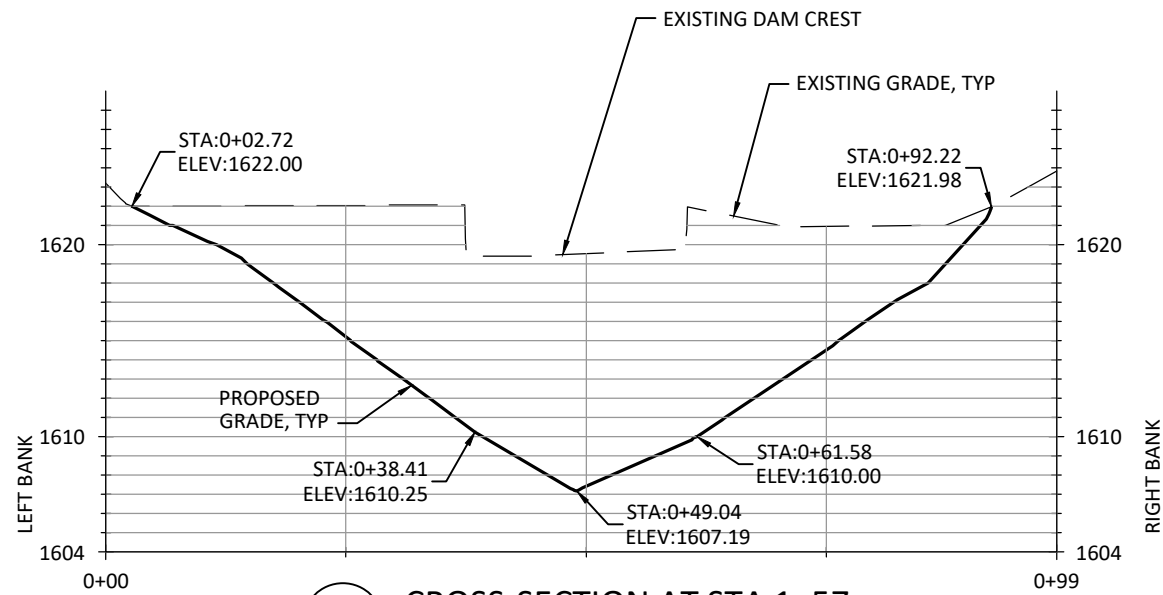
NO.	BY	DATE	REVISION DESCRIPTION

DF,SW,SJ DRAWN	NN,SW DESIGNED	CC CHECKED
SW APPROVED	9/4/2020 DATE	18-05-01 PROJECT

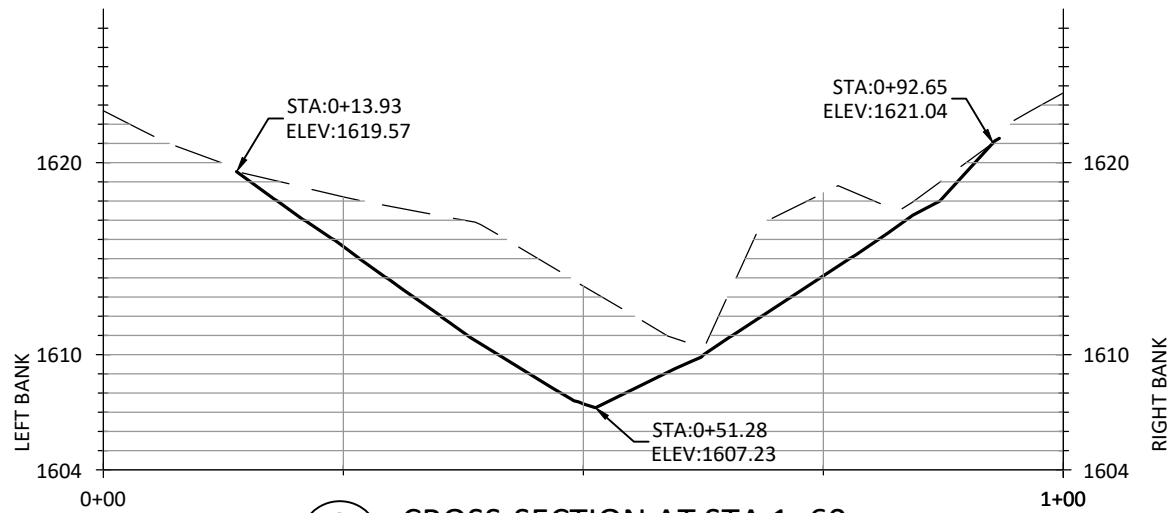
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THE NATURE CONSERVANCY
BERKSHIRE COUNTY, MASSACHUSETTS

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DAM REMOVAL GRADING
CROSS SECTIONS



7
9 CROSS-SECTION AT STA 1+57

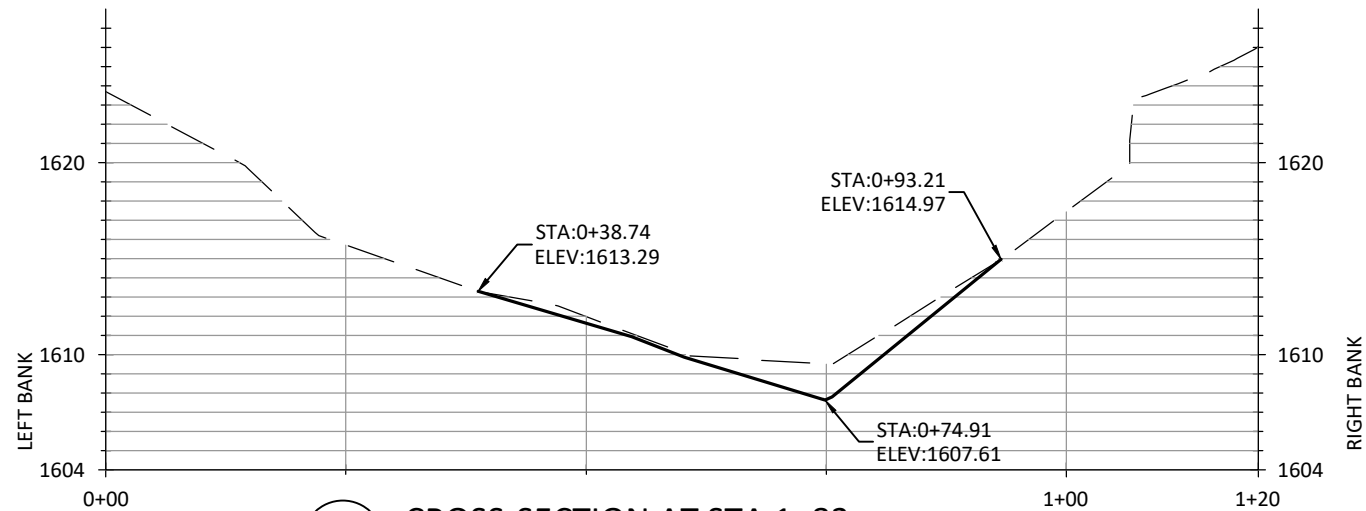


8
9 CROSS-SECTION AT STA 1+60

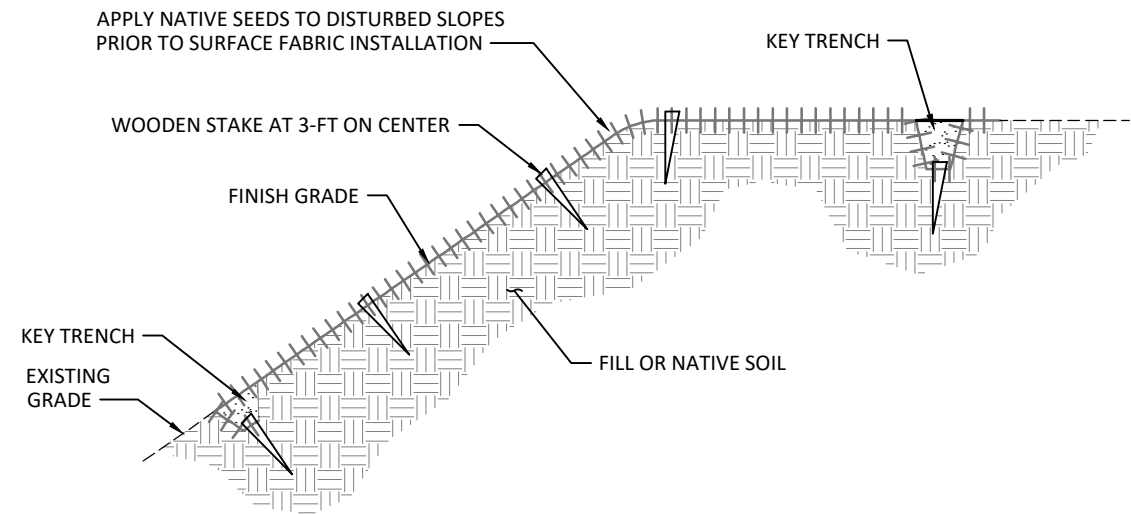
SCALE: 1" = 10'
2x VERTICAL EXAGGERATION
SCALE: 1" = 20'

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9
9 CROSS-SECTION AT STA 1+83



10
9 TYPICAL SURFACE FABRIC TREATMENT
NOT TO SCALE

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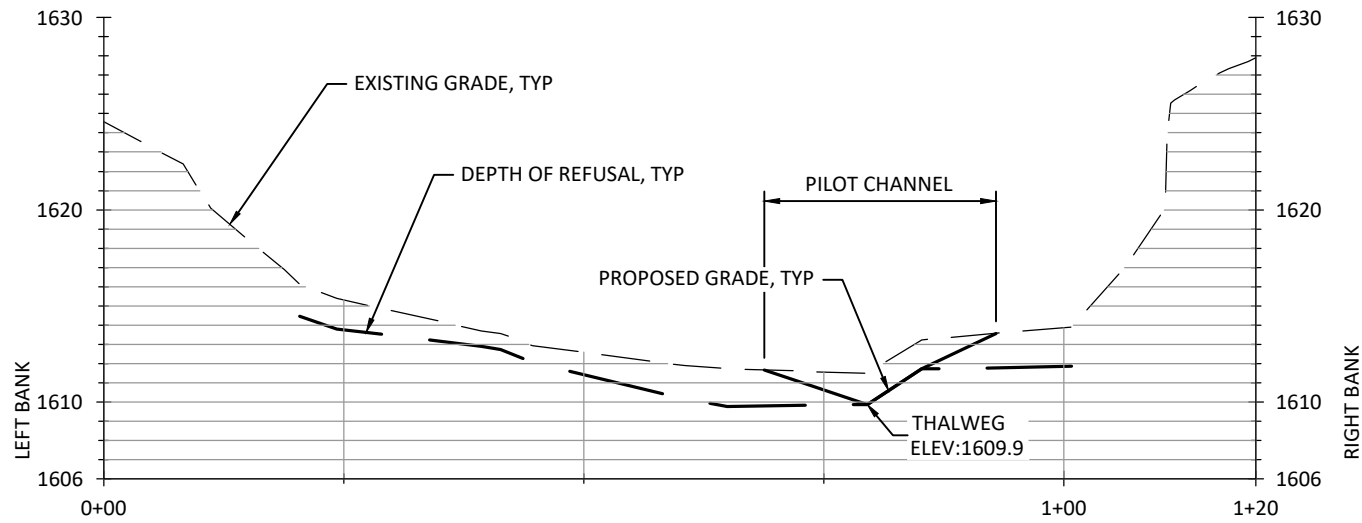
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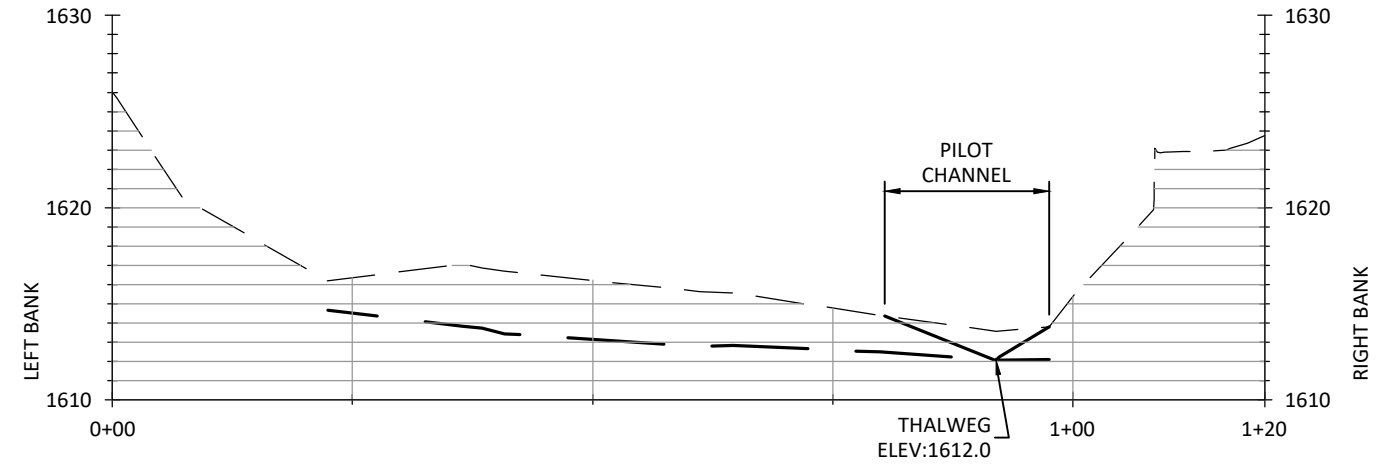
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DAM REMOVAL GRADING
CROSS SECTIONS AND DETAILS

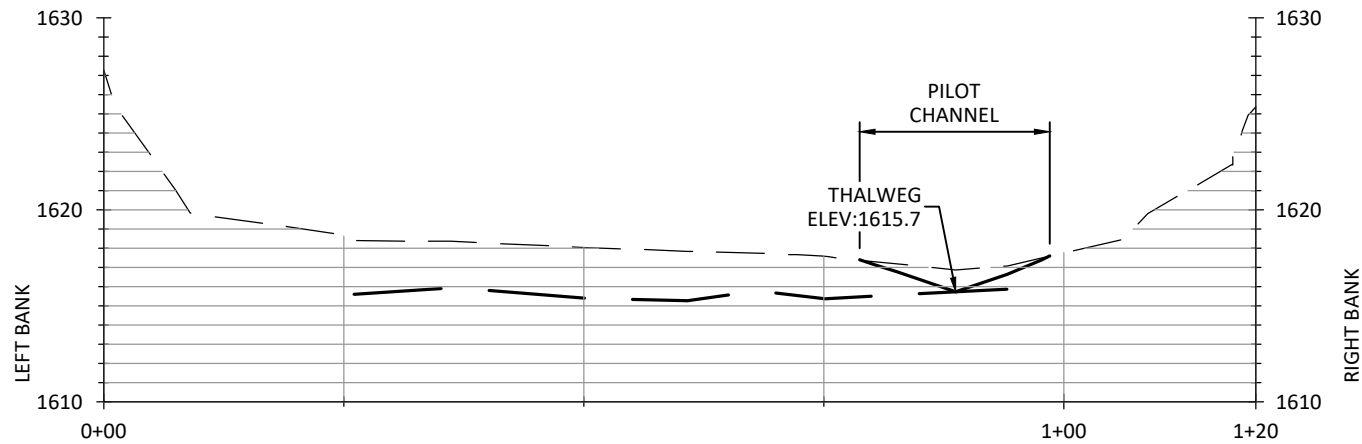
SHEET
9 OF 11



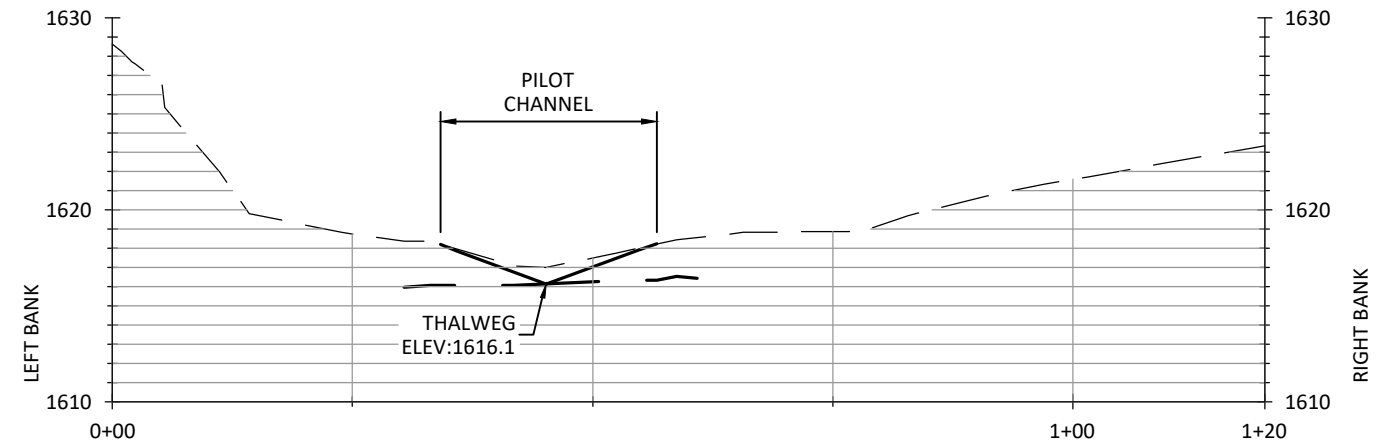
11 CROSS-SECTION AT STA 3+00
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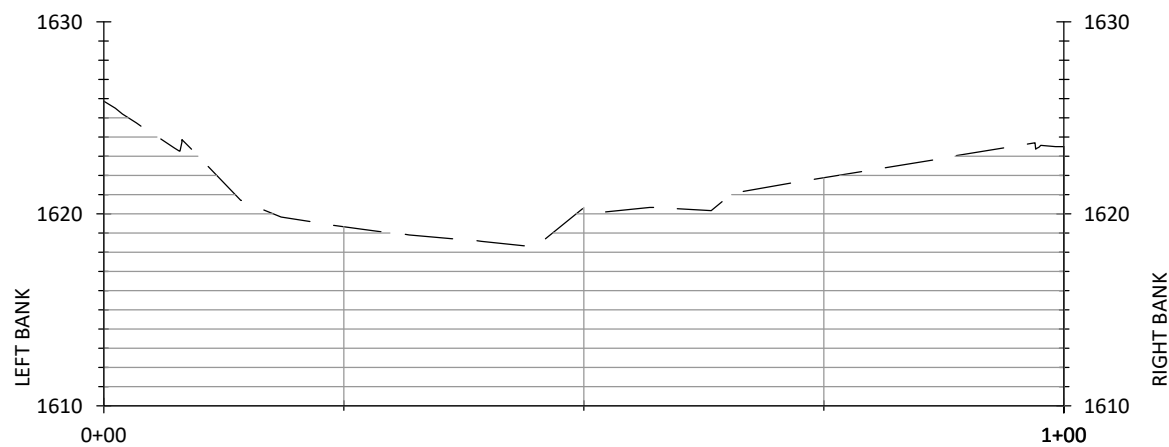
12 CROSS-SECTION AT STA 4+00
10



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'

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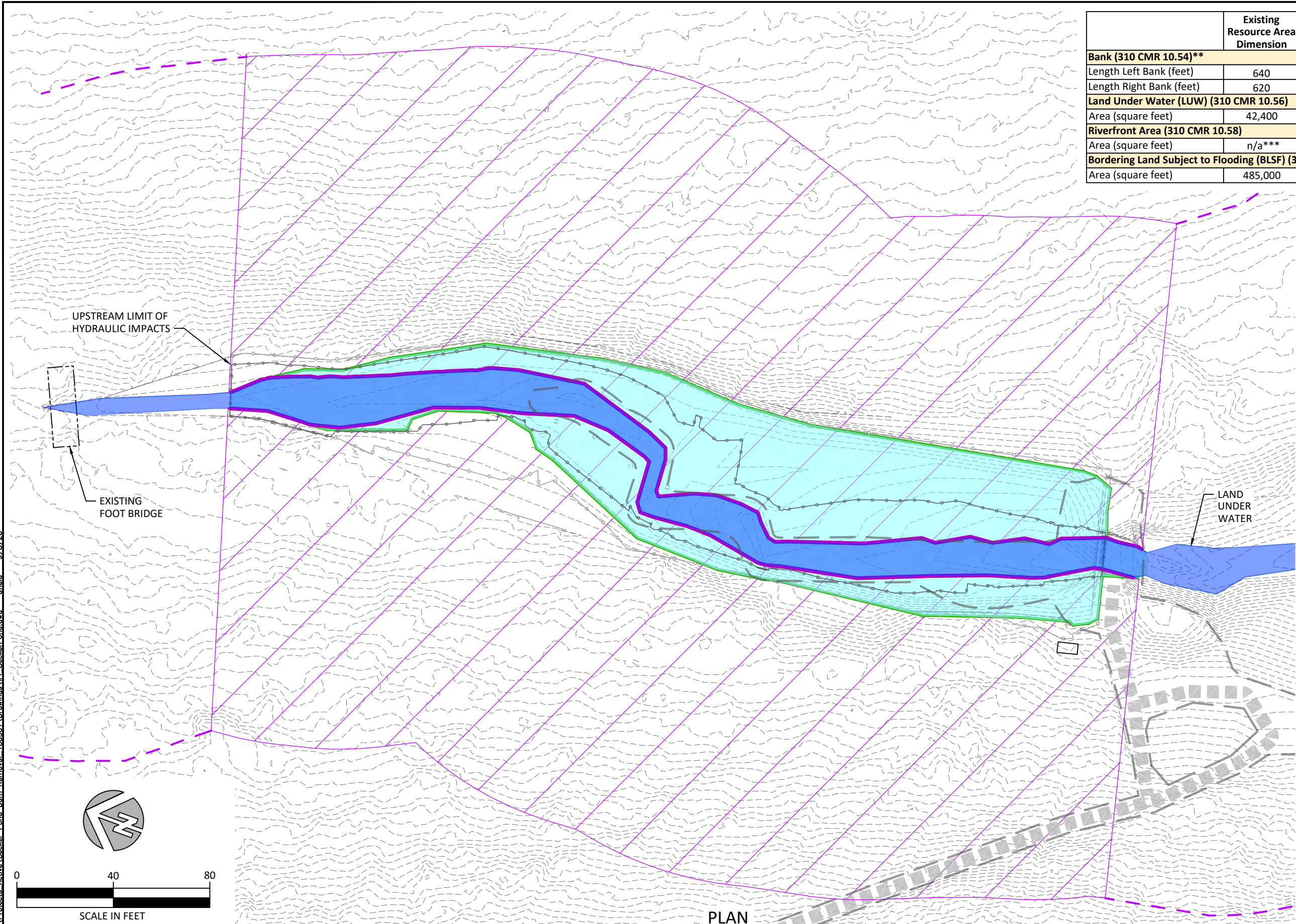
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PILOT CHANNEL GRADING
CROSS SECTIONS

SHEET

10 OF 11

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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**	65
Length Right Bank (feet)	620	620	0**	85
Land Under Water (LUW) (310 CMR 10.56)				
Area (square feet)	42,400	13,200	-29,200	13,800
Riverfront Area (310 CMR 10.58)				
Area (square feet)	n/a***	255,500	255,500	8,000
Bordering Land Subject to Flooding (BLSF) (310 CMR 10.57)				
Area (square feet)	485,000	275,000	-210,000	not calculated

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)

— EXISTING
 — PROPOSED

RIVERFRONT AREA (310CMR10.58)

NEW
 EXISTING RIVERFRONT BOUNDARY

PLAN

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RESOURCE AREA IMPACTS