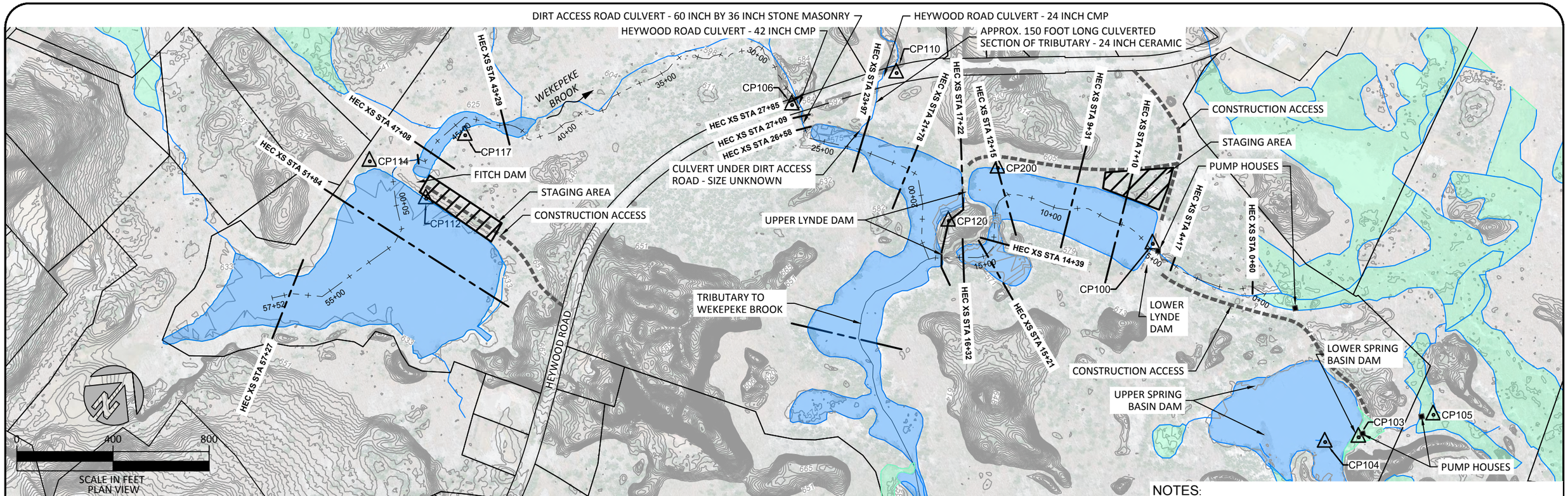
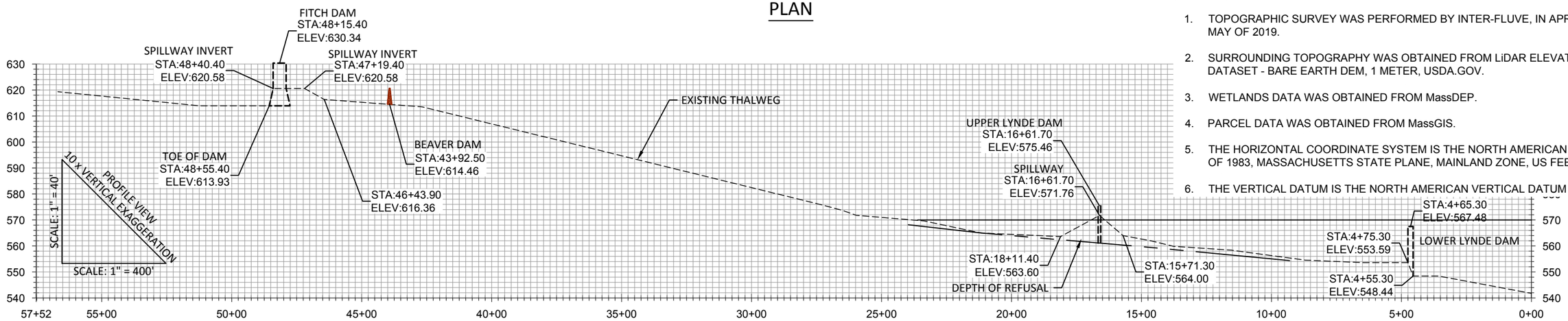


PLAN



PROFILE

NOTES:

1. TOPOGRAPHIC SURVEY WAS PERFORMED BY INTER-FLUVE, IN APRIL AND MAY OF 2019.
2. SURROUNDING TOPOGRAPHY WAS OBTAINED FROM LiDAR ELEVATION DATASET - BARE EARTH DEM, 1 METER, USDA.GOV.
3. WETLANDS DATA WAS OBTAINED FROM MassDEP.
4. PARCEL DATA WAS OBTAINED FROM MassGIS.
5. THE HORIZONTAL COORDINATE SYSTEM IS THE NORTH AMERICAN DATUM OF 1983, MASSACHUSETTS STATE PLANE, MAINLAND ZONE, US FEET.
6. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988.

SURVEY CONTROL

PN	EASTING	NORTHING	ELEVATION (FT)
CP100	582100.14	2997502.47	571.23
CP103	583275.01	2997471.94	545.85
CP104	583183.95	2997363.92	544.61
CP105	583445.32	2997748.51	535.37
CP106	580594.76	2996935.45	585.53
CP110	580831.05	2997323.88	590.61
CP117	579663.18	2995936.21	624.36
CP120	581402.90	2997008.25	581.59
CP200	581408.67	2997309.46	569.52
CP112	579717.32	2995630.93	632.02
CP114	579438.57	2995591.34	639.66

LEGEND

- EXISTING CONTOUR
- PARCEL BOUNDARY
- EXISTING MassDEP WETLANDS
- EXISTING SURFACE WATER
- PROPOSED STAGING AREA
- PROPOSED CONSTRUCTION ACCESS

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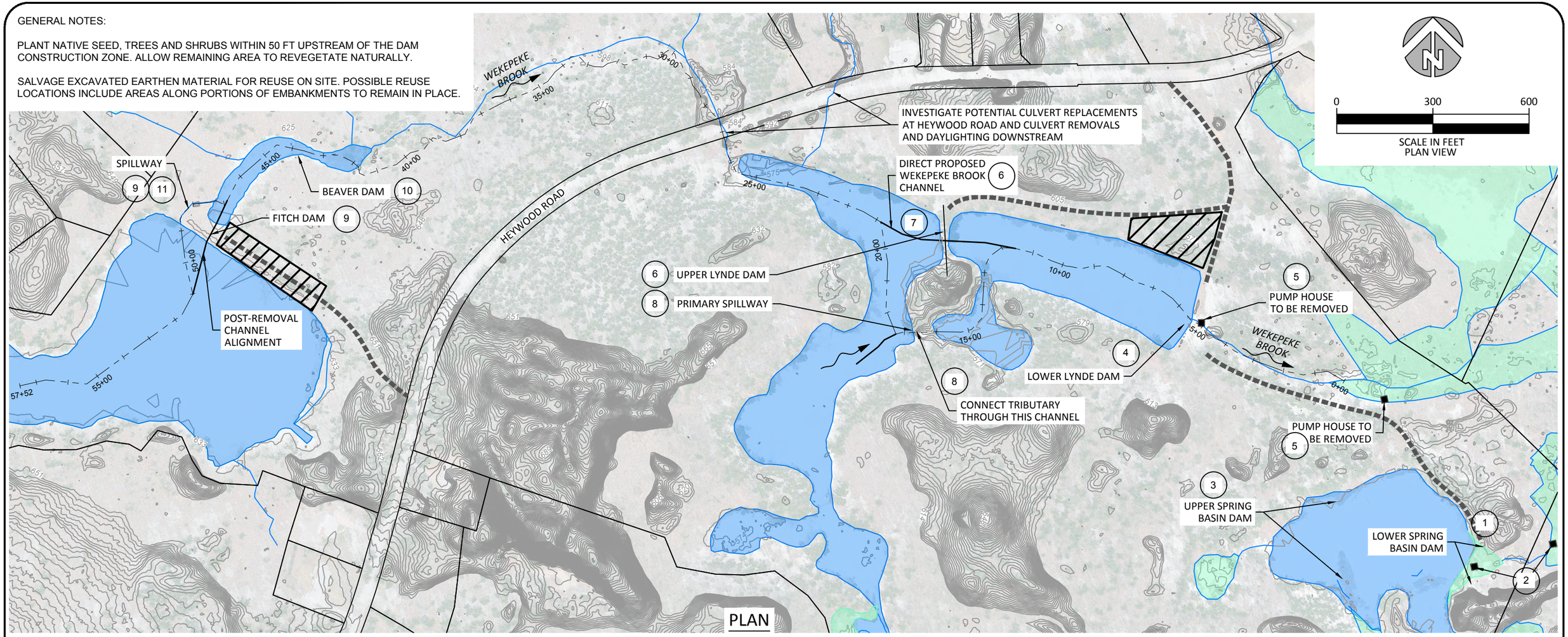
WEKEPEKE BROOK EXISTING CONDITIONS AND PROPOSED CONSTRUCTION STAGING AND ACCESS

GENERAL NOTES:

PLANT NATIVE SEED, TREES AND SHRUBS WITHIN 50 FT UPSTREAM OF THE DAM CONSTRUCTION ZONE. ALLOW REMAINING AREA TO REVEGETATE NATURALLY.

SALVAGE EXCAVATED EARTHEN MATERIAL FOR REUSE ON SITE. POSSIBLE REUSE LOCATIONS INCLUDE AREAS ALONG PORTIONS OF EMBANKMENTS TO REMAIN IN PLACE.



FITCH DAM NOTES:

9 NOTCH DAM AND ALLOW RESERVOIR TO DRAW DOWN. REMOVE FULL VERTICAL EXTENT OF DAM. USE EXCAVATED MATERIAL FOR FILL IN FORMER SPILLWAY.

10 NOTE THAT BEAVER DAMS DOWNSTREAM OF FITCH DAM ELEVATE THE WATER UPSTREAM.

11 MOVE SPILLWAY FOOTBRIDGE TO THE NEW STREAM LOCATION TO MAINTAIN PEDESTRIAN ACCESS.

UPPER LYNDE DAM NOTES:

6 REMOVE 50 FEET OF EARTHEN BERM TO FULL VERTICAL EXTENT, AND SLOPE UP 2:1 TO EXISTING GROUND. DIRECT PROPOSED WEKEPEKE BROOK CHANNEL THROUGH NEW CHANNEL.

7 SALVAGE TREES REMOVED TO ENABLE DAM REMOVAL AND REUSE FOR CHANNEL AND FLOODPLAIN HABITAT PLACEMENT.

8 REMOVE PRIMARY SPILLWAY AND ALLOW TRIBUTARY TO FLOW THROUGH.

LOWER LYNDE DAM NOTES:

4 REMOVE EARTHEN BERM AND SLOPE UP 2:1 TO EXISTING GROUND.

5 DEMOLISH AND REMOVE TWO PUMP HOUSES. FILL ANY HOLES LEFT BY REMOVAL.

SPRING BASIN NOTES:

1 REMOVE 20 FEET OF LOWER SPRING BASIN EARTHEN DAM WITH CONTROLLED, SLOW DRAWDOWN. NO TRAIL/CROSSING NEEDED.

2 DEMOLISH AND REMOVE TWO PUMP HOUSES. FILL ANY HOLES LEFT BY REMOVAL.

3 REMOVE 20 FEET OF FORMER UPPER SPRING BASIN DAM IF PERCHED CONDITION EXISTS AFTER LOWER DAM REMOVAL.

LEGEND

- EXISTING CONTOUR
- PARCEL BOUNDARY
- EXISTING DEP WETLANDS (2005)
- EXISTING IMPOUNDED WATER
- PROPOSED STAGING AREA
- PROPOSED CONSTRUCTION ACCESS

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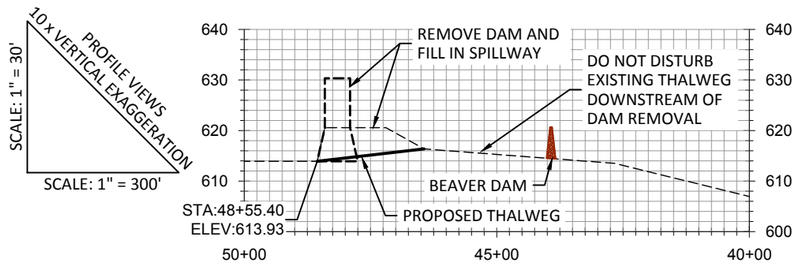
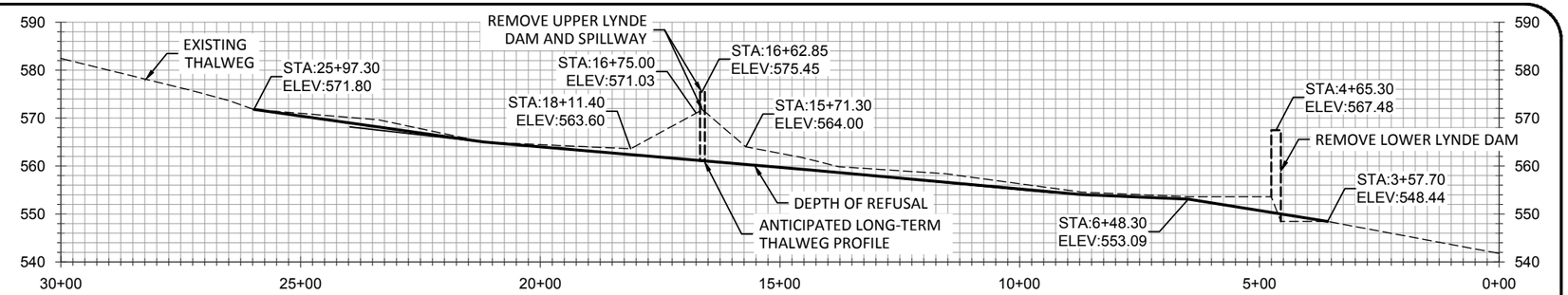
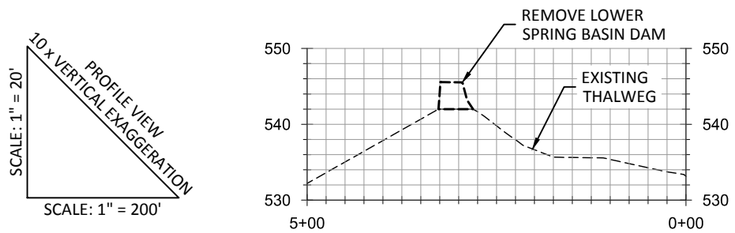
WEKEPEKE PROPOSED CONDITIONS PLAN



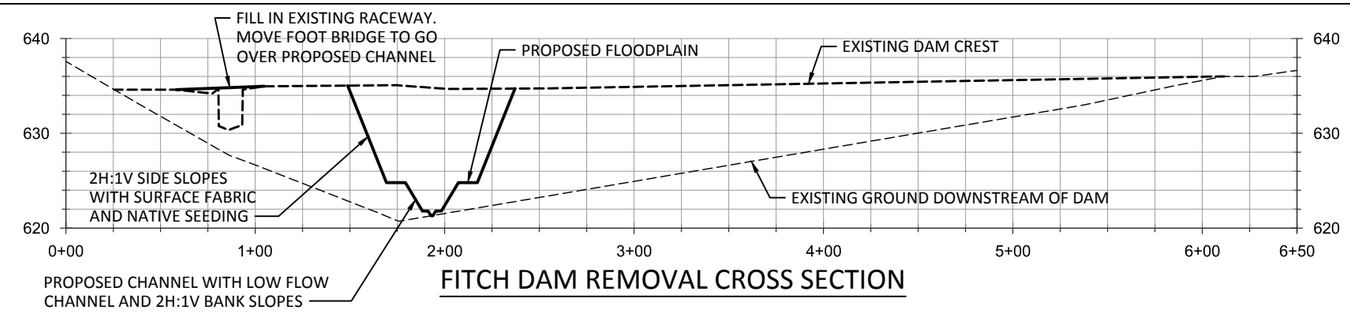
FITCH DAM REMOVAL PROFILE



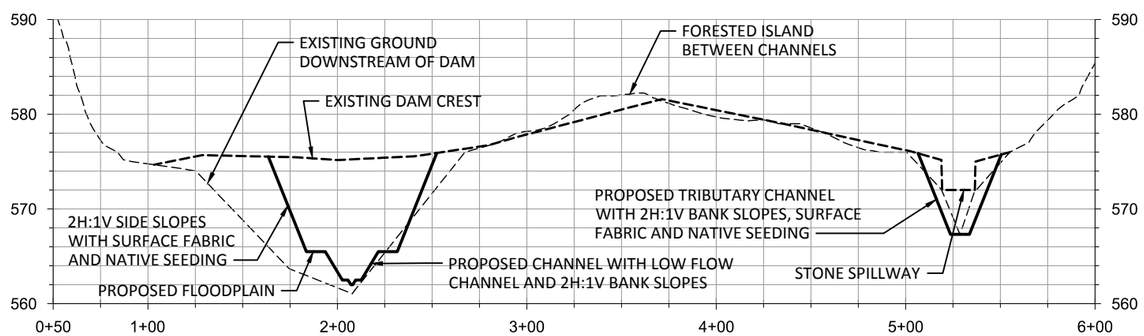
UPPER AND LOWER LYNDE DAM REMOVAL PROFILE



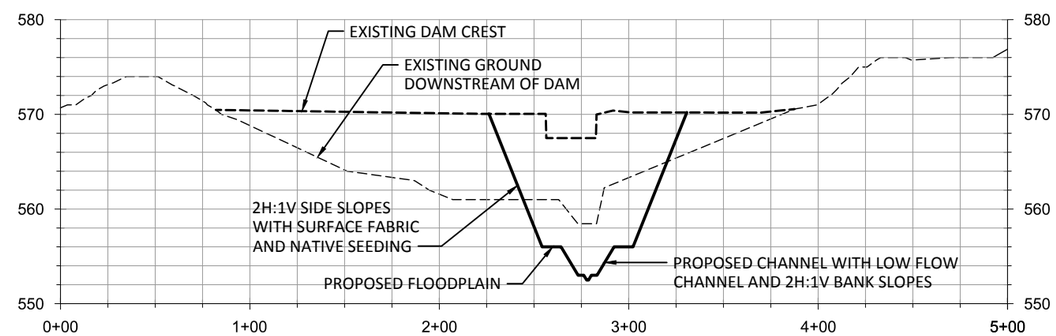
LOWER SPRING BASIN DAM REMOVAL PROFILE



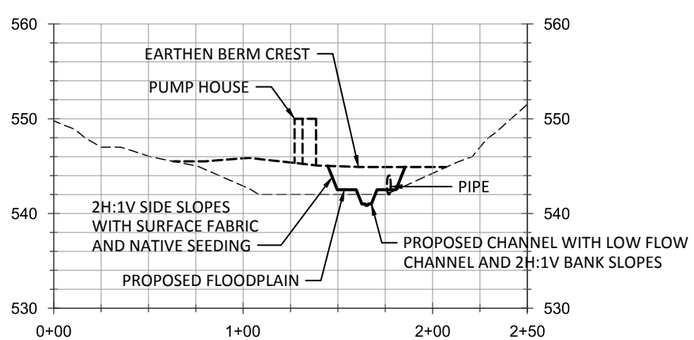
FITCH DAM REMOVAL CROSS SECTION



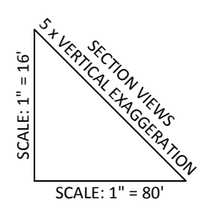
UPPER LYNDE DAM REMOVAL CROSS SECTION



LOWER LYNDE DAM REMOVAL CROSS SECTION



LOWER SPRING BASIN DAM REMOVAL CROSS SECTION



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WEKEPEKE PROPOSED CONDITIONS PROFILES & SECTIONS