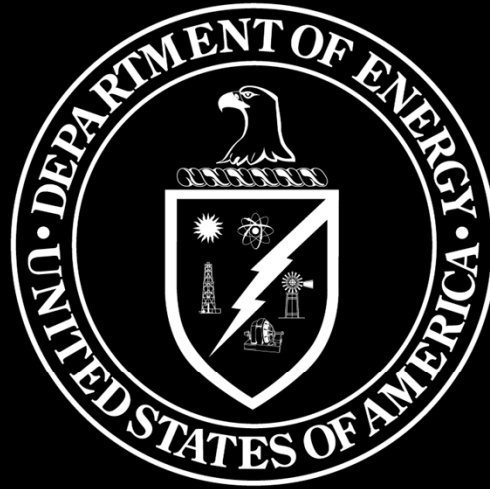




U.S. DEPARTMENT *of* ENERGY

Office of Environmental Management

Lakes and Dams System, West Valley, NY

Lakes and Dams System West Valley, NY

Quarterly Public Meeting

February 2026



U.S. DEPARTMENT
of **ENERGY**

Office of Environmental
Management

Ongoing USACE/DOE Work – Lake 1 Construction Contract

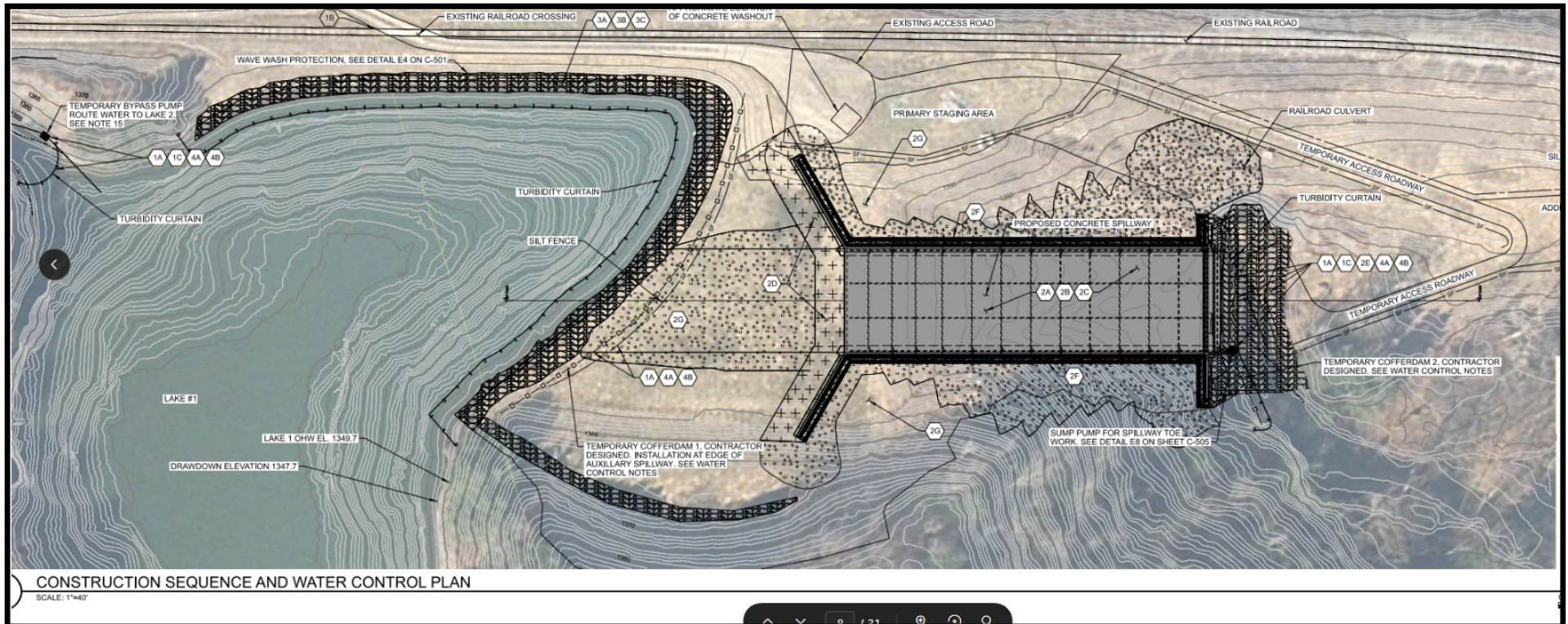


- Exacerbated Condition
- Need Futureproof Solution



U.S. DEPARTMENT
of **ENERGY**

What Did We Do?



U.S. DEPARTMENT
of ENERGY

What Did We Do?

Table 4-1: Project Features (NVGD29)

Lake No. 1 Dam		
Dam Feature	Measure	Notes
Top of Embankment	Elev. 1358.5 (NAVD88) 1359.0 (NGVD29)	Design plans indicate that top of rail is Elev. 1360 (NGVD29)/1359.5 (NAVD88). The current effective top of dam is Elev. 1359 (NGVD29)/1358.5 (NAVD88).
Dam length	326 feet	Approximate length
Dam height	70 feet	Approximate height. 2010 topography shows average downstream slope is approx. 2.75H:1V.
Lake 1 Spillway	Elev. 1353.5 (NAVD88)	Spillway slopes 0.42 percent for 260 feet beyond invert as shown on Design plans Sheet 7.
Crest elevation	1354.0 (NGVD29)	
Crest width	150 feet	
Normal Pool	Elev. 1349.1(NAVD88) 1349.6(NGVD29)	

	Elevation (NAVD-88)	Storage Capacity (Lake 1, Gallon)
	1353 to 1354.3	7,031,688
Top of Spillway	1352-1353	5,685,194
	1351-1352	5,535,584
	1350-1351	5,834,805
	1349.6 to 1351	2,748,310
	1349.1 to 1349.6	2,748,308
Canal Invert (1349 NAVD-88)	1348.6 to 1349.1	1,627,950
	1348.1 to 1348.6	1,627,946
	1347.5-1348.5	3,148,655
	1346.5-1347.5	2,927,636
	1345.5-1346.5	2,927,636
	1344.5 to 1345.5	2,515,308
	1343.5 to 1344.5	2,515,308
	1342.5 to 1343.5	2,515,308



U.S. DEPARTMENT
of ENERGY

Regulatory Actions

Permit No. 9-0422-00121 – December 31, 2024

Modification #1 – May 16, 2025 – 2 x 5' Concrete Culverts

Closure of Modification #1 - September 23, 2025 – Removal of 2 x 5' Concrete Culverts

Modification #2 – July 3, 2025 – Reroute Buttermilk Creek

Closure of Modification #2 – September 29, 2025 – Buttermilk Creek Dam and Pump Removed

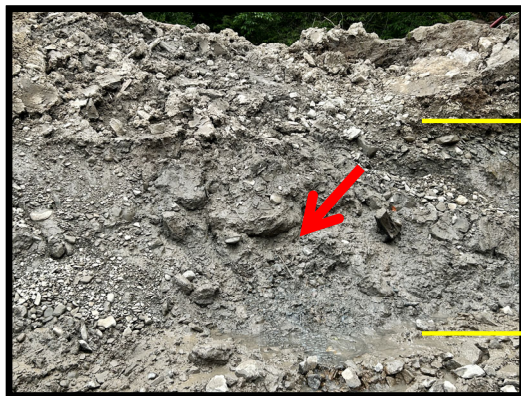


U.S. DEPARTMENT
of **ENERGY**

Conditions at Request (Creek & Geologic Creek Bed)

6/30/2025

- Approximate depth of Buttermilk creek ~3'
- Approximate depth of geologic Buttermilk creek bed ~2.5' (piping indicated by gold arrow).
- Approximate location of the end of the creek bed
- Geologic creek bed extended further West than anticipated

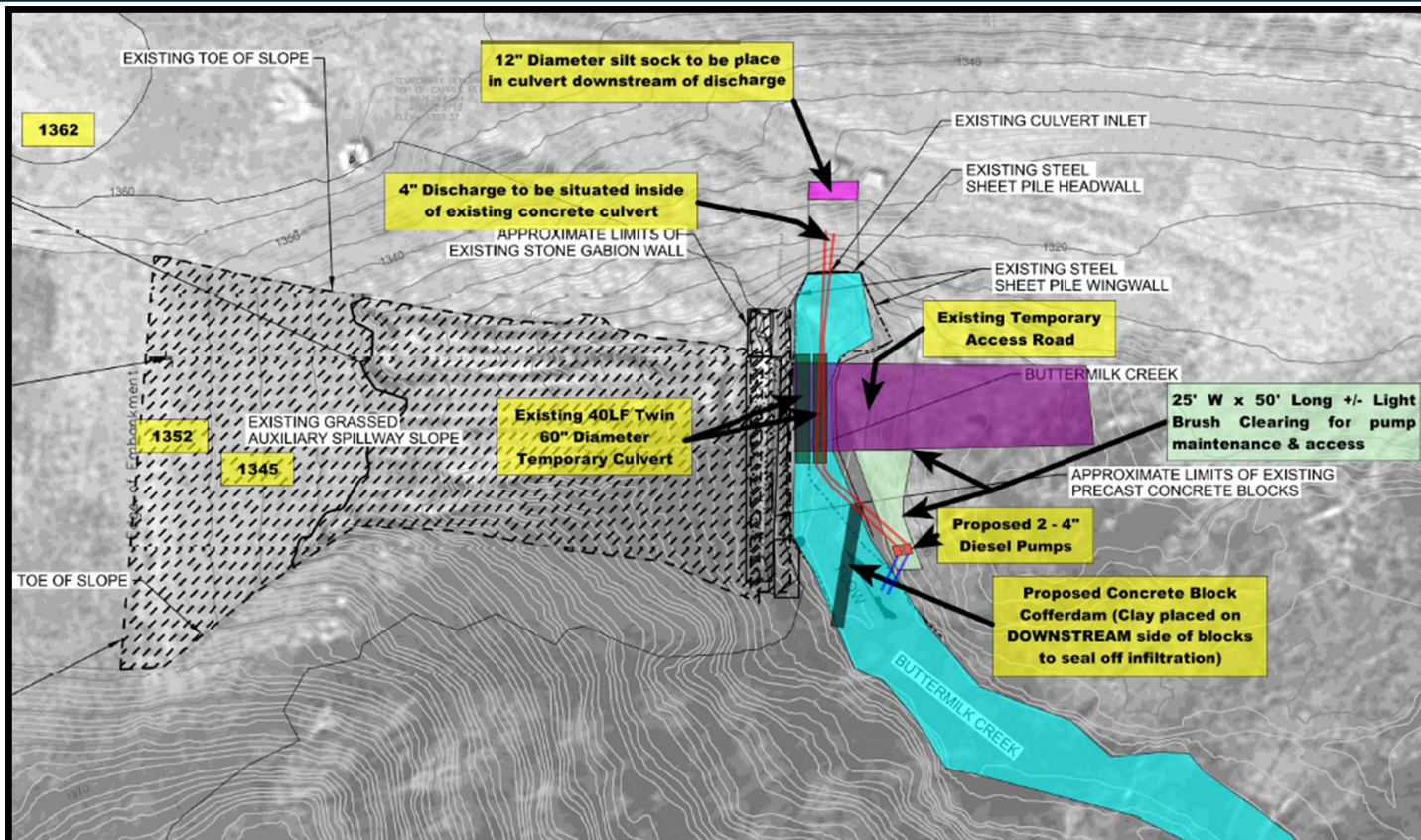


U.S. DEPARTMENT
of **ENERGY**

Proposed Alternative

Revision #3.

- Efficient methodology to dewater the stream in the immediate vicinity of the Spillway toe.
- 2-4" Diesel Pumps
- Sufficient to dewater the freeboard and existing geologic creek bed.
- Will be primary means, dam and pump for Buttermilk Creek reroute.



U.S. DEPARTMENT
of **ENERGY**

Stream Relocation Start Point



Stream Relocation Start Point is just upstream of the project location

- Picture 2 is panning to Picture 3 with the location of the three threaded bars.
- Picture 4 is a drawing of the 36" to 24" stream relocation pipe.



U.S. DEPARTMENT
of **ENERGY**

Stream Relocation Mid Point



U.S. DEPARTMENT
of ENERGY

Stream Relocation End Point



Upstream



Downstream



U.S. DEPARTMENT
of ENERGY

What did/does it look like?



U.S. DEPARTMENT
of **ENERGY**

Project Pictures



U.S. DEPARTMENT
of **ENERGY**

Project Pictures



U.S. DEPARTMENT
of **ENERGY**

Project Pictures



U.S. DEPARTMENT
of ENERGY

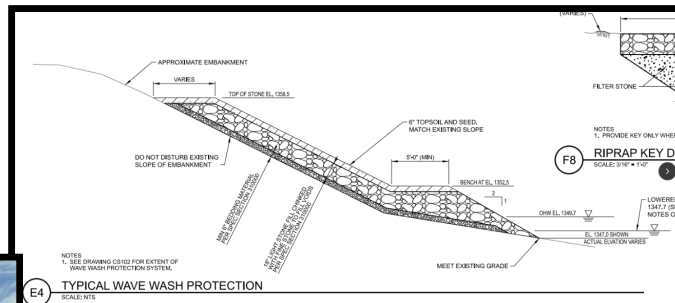
Project Pictures



U.S. DEPARTMENT
of **ENERGY**

Project Pictures

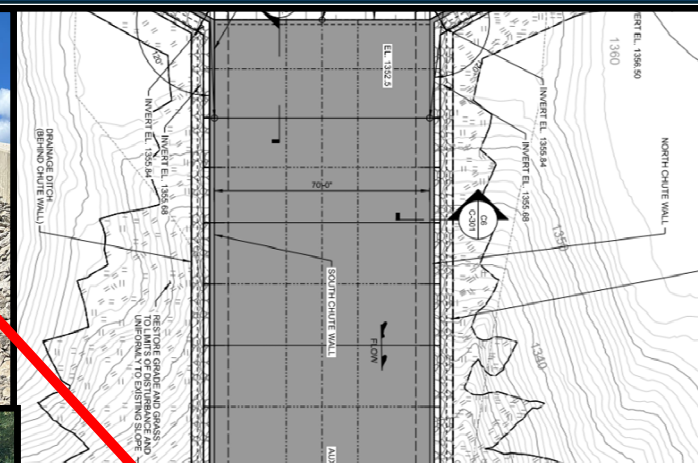
As of 5/30/2025 – First layer of wave was protection going in.



U.S. DEPARTMENT
of ENERGY

Project Pictures

As of 9/11/2025 – Re-Grade.



Project Pictures

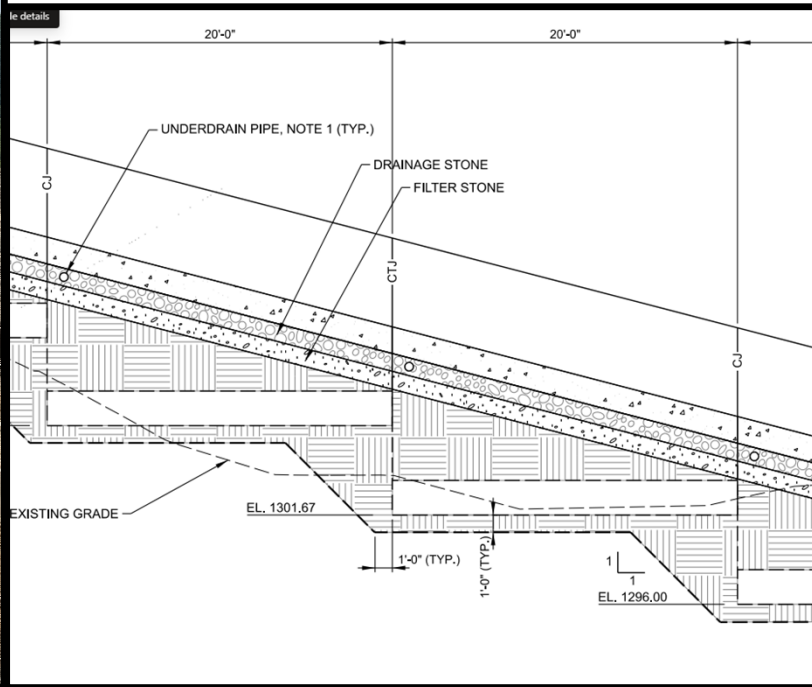


As of 8/19/2025 – Individual wall sections that have been framed, tied, and poured.



U.S. DEPARTMENT
of **ENERGY**

Project Pictures



U.S. DEPARTMENT
of ENERGY

Project Pictures

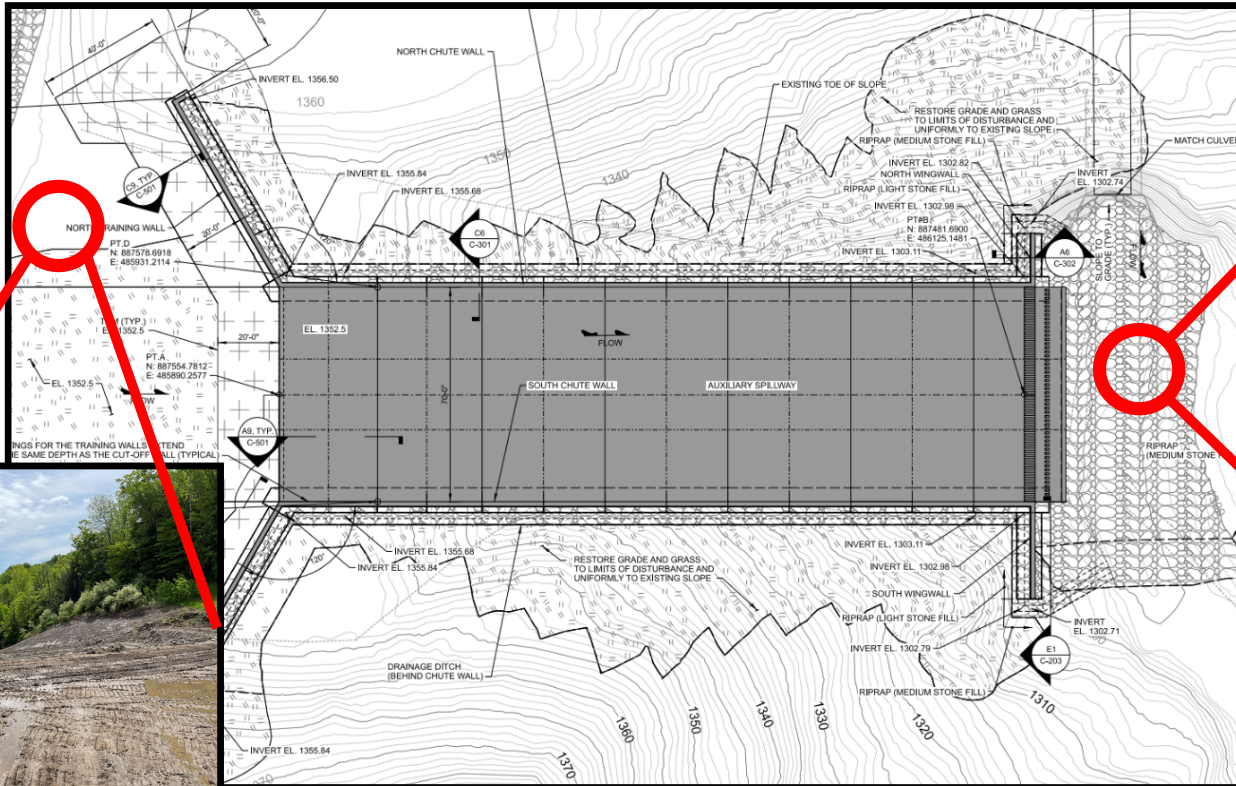
As of 9/11/2025 – Chute Section.



U.S. DEPARTMENT
of ENERGY

Project Pictures

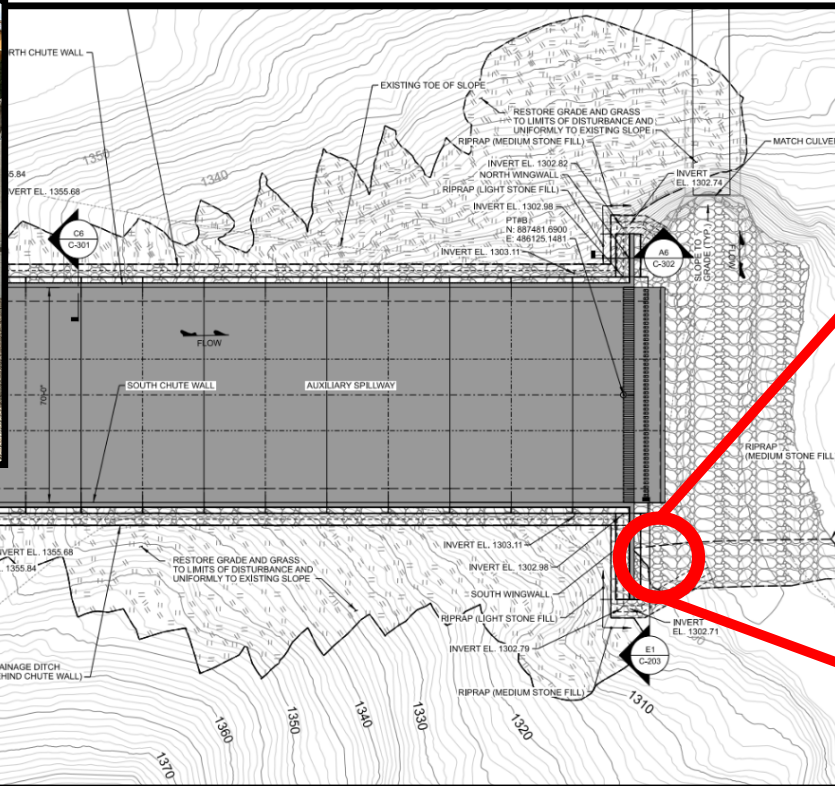
As of 5/30/2025 – First cutback of spillway face 6" to go on the face, footings.



U.S. DEPARTMENT
of ENERGY

Project Pictures

As of 9/3/2025 – Lower cutoff wall placement, *note poured an inch short.



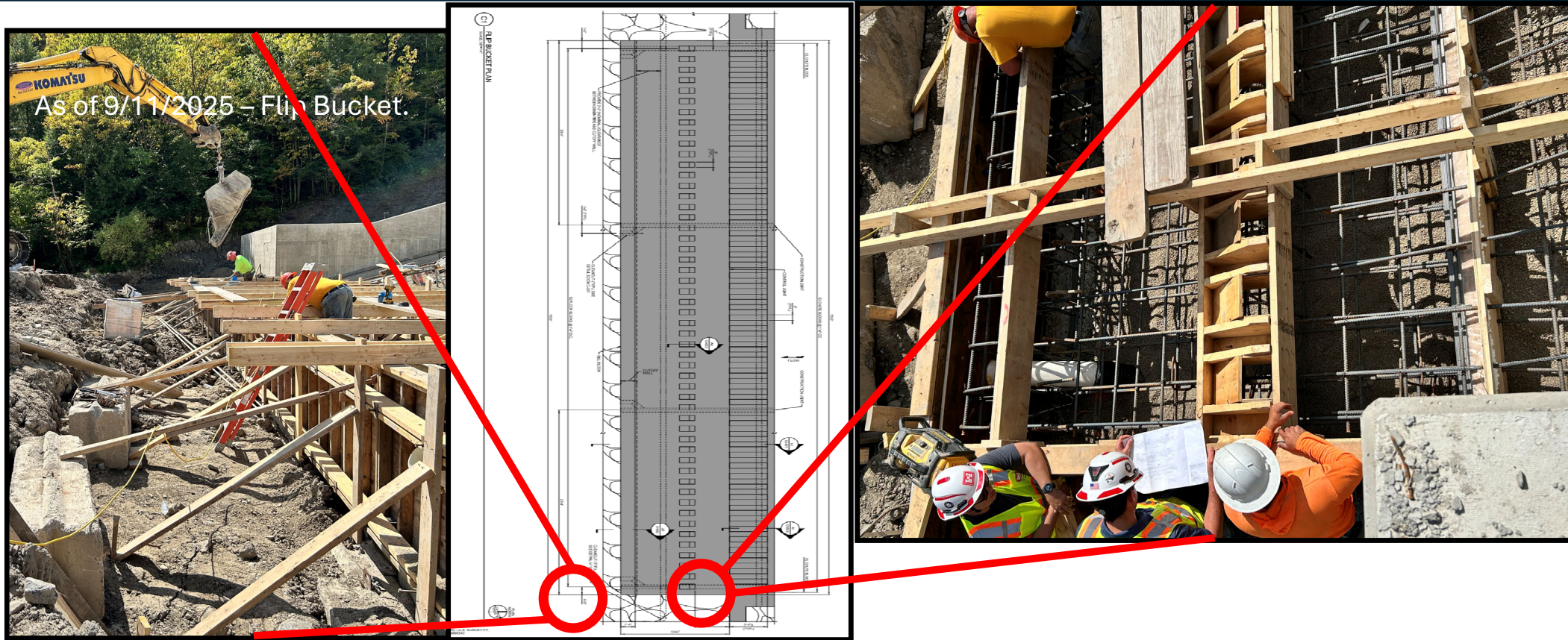
As of
9/11/2025

Looking
downslope



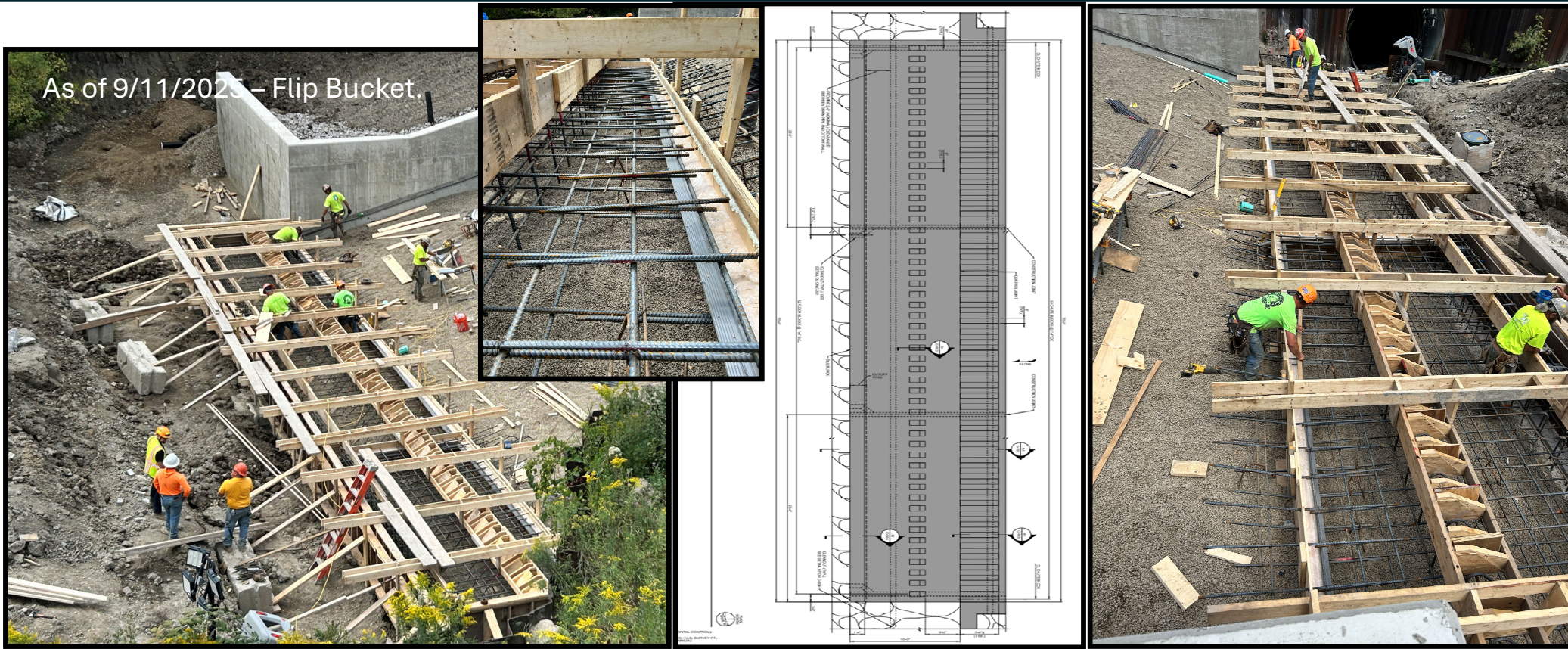
U.S. DEPARTMENT
of ENERGY

Project Pictures



U.S. DEPARTMENT
of ENERGY

Project Pictures



U.S. DEPARTMENT
of ENERGY

Project Pictures

As of 9/29/2025



U.S. DEPARTMENT
of **ENERGY**

Project Pictures

As of 10/3/2025



U.S. DEPARTMENT
of ENERGY

Project Pictures



November 4, 2025



U.S. DEPARTMENT
of **ENERGY**

QUESTIONS



U.S. DEPARTMENT *of* ENERGY

Office of Environmental Management