

# JULY 2024 DAM REVIEW



# THE SHORT SIDE OF OUR SITUATION

We own property \*\*\*

We have a viable design for 100 year storm conditions

Our permits are weeks away

We have spent \$ 166,725 to get this far

**We are approximately \$ 120,000 short of our goal to build.**

**OPTION A:** We raise the money and proceed here in 2024 and complete the project

**OPTION B:** We do not raise the money, the project moves into 2025, we lose the towns \$ 50,000 and must ask for it again and the cost increases 15% to 20%

Both choices are uncomfortable but one closes the door on our journey one leaves it open indefinitely

**OUR WINDOW IS CLOSING. DECISIONS ARE NECESSARY IN THE NEXT 20 DAYS**

# DEADLINE

The three builders we are working with all have availability in 2024. TODAY not TOMORROW

Any of them could sign a contract tomorrow and take themselves out of the running

By **August 15** it is imperative that we have your financial commitment in the form of a pledge or a payment

We cannot sign a contract without the funding. It is not ethical, and it is clearly unfair to the Builder to commit and later withdraw

Sitting back and seeing what others do or if we can find money someplace else could cause us to pass on completing this in 2024 and jeopardize a successful outcome

*January 1961, John F. Kennedy*

*“Ask not what your country can do for you, ask what you can do for your country.”*

**Truer words could not apply to our dam world right now.**

# FINAL NUMBERS

## SOV COMPARISON

LINE	CATEGORY	EXTENDED COST	EXTENDED COST	EXTENDED COST
		DANIALS	TFORD	AJ VIRGILIO
1	MOBILIZATION	\$ 75,000.00	\$ 40,000.00	\$ 21,300.00
2	STREAM BYPASS PIPE	\$ 32,000.00		
3	COFFERDAM & DEWATER	\$ 84,000.00	\$ 140,000.00	\$ 41,400.00
4	DEMOLITION	\$ 11,000.00		\$ 9,000.00
5	STRUCTURE EXCAVATION	\$ 31,800.00	\$ 90,000.00	\$ 97,460.00
6	CONCRETE FOOTINGS	\$ 50,020.00	\$ 167,500.00	\$ 78,500.00
7	CONCRETE WALLS	\$ 142,000.00	\$ 167,500.00	\$ 78,500.00
8	REBAR	\$ 62,100.00		\$ 47,100.00
9	S.S. SLIDE GATE	\$ 12,000.00		\$ 16,850.00
10	24" DIP DRAIN	\$ 14,000.00	\$ 25,000.00	\$ 17,990.00
11	GALV. PLATFORM W/RACKS	\$ 11,000.00	\$ 20,000.00	\$ 22,000.00
12	UPSTREAM RIPRAP WALLS	\$ 14,850.00	\$ 28,000.00	
13	DAM EMBANKMENT	\$ 37,800.00		
14	SAND FILTER BLANKET	\$ 6,675.00	\$ 13,333.33	
15	3/8" STONE FILTER BLANKET	\$ 3,900.00	\$ 13,333.00	
16	CLASS C STONE FILTER BLANKET	\$ 3,800.00	\$ 13,333.00	
17	GROUTED CLASS I STONE APRON	\$ 29,400.00		\$ 48,000.00
18	RESTORATION	\$ 24,000.00	\$ 30,000.67	\$ 25,200.00
19	EROSION CONTROL	\$ 10,000.00	\$ 11,000.00	\$ 10,000.00
20	PERMITS			
21	CONCRETE WALL BACKFILL	\$ 54,600.00		
	<b>TOTALS</b>	<b>\$ 709,945.00</b>	<b>\$ 759,000.00</b>	<b>\$ 513,300.00</b>

CASH ON HAND	\$	170,830.00	\$	170,830.00	\$	170,830.00
BOD GIFTS	\$	20,000.00	\$	20,000.00	\$	20,000.00
PLEDGES NOT COLLECTED	\$	155,000.00	\$	155,000.00	\$	155,000.00
TOWN CONTRIBUTION	\$	50,000.00	\$	50,000.00	\$	50,000.00

**MONEY AVAILABLE TO SPEND**      \$      **395,830.00**      \$      **395,830.00**      \$      **395,830.00**

**DEFICIT**      \$      **314,115.00**      \$      **363,170.00**      \$      **117,470.00**

# OPTION A FUNDING

To the members of the FLIA, if you are unsure where to start your thought process, try this.

There are 115 families that own water accessible property around Forest Lake

\$1,000 per family generates \$ 115,000 dollars

The Board of Directors have in the past week contributed \$ 20,000 to this final ask. 100% of the BOD have contributed to show our commitment to what we are asking of you.

A signed pledge is as good as a signed check

**THIS IS NOT THE TIME TO LOOK LEFT OR RIGHT AND  
ASK WHAT OTHERS ARE DOING.**

**IT IS CRITICAL THAT INDIVIDUALLY, WE ADDRESS  
HOW MUCH THIS PROJECT IS WORTH TO OUR OWN  
HOUSEHOLD AND THE TOWN.**

**WAITING IS NO LONGER AN OPTION**

# PLEDGE PROGRAM

You will be allowed 16 months to complete your pledge.  
July 2024 through December 25, 2025

Our PayPal system lets you set up monthly payments that take place automatically. \$ 100 a month for 12 months yields \$ 1,200 for the program.

If you use online banking systems, they too allow you to set up designated autopay needs.

The use of RMD's, and year end tax tools can often generate good gift planning. Tax returns might be another way to contribute. A pledge supports the use of those tools.

We have aligned with some backers sensitive to our cause that want to help. They have agreed to cover our end of project payment needs, when needed, to allow those of us who want to extend our pledges over the next 16 months. This will allow us to cover the bills with the Builder and spread the gift giving out over time for anyone who chooses to or needs to do so.

# CASH EXTENSION EXPLAINED

I want to be crystal clear about this pledge program opportunity which we voted to accept.

It is a cash extension opportunity

If a person pledges \$ 100 for 12 months that means we will be receiving some of their money in 2025 as late as July / August, even December.

However, we will have to pay the Builder in 2024

Therefore, the BOD would draw on the cash extension resources up to \$ 100,000 to pay bills on time. Later when your pledge arrives in 2025 we will re-pay the money we draw out of the \$ 100,000. Plus 3%

We will not in any way draw more than we have pledges for per the vote of the Members

Think of this as a simple IOU, we write pledges, the IOU and we have the cash to pay the bills on time.

# FEMA, CONGRESS, STATE AND OTHER SOURCES OF FUNDING

## Critical point # 1

We don't have time to wait on the government agencies. Their process take years, IF YOU QUALIFY and we only have days.

## Critical Point # 2

For three years we have been exploring all of the sourcing options you will think of. Currently there are no funds in the US for small non-profit organizations to build or re-build dams.

With 95,000 dams in the US removing them is a preferred choice of elected officials.

## Critical Point # 3

Every opportunity you see on the news has a qualification requirement. The news never talks about that. Army Corp of Engineers, 8 Billion to hand out. Starting size is \$ 20,000,000, just to be considered.



# ORIGINAL BIDS FOR THE CONSTRUCTION OF THE DAM

\$ 1,995,000

\$ 1,089,000

\$ 1,032,00

\$ 874,825

\$ 836,445

\$ 658,000

*eight companies visited the dam*

1	AJ Virgilio Construction Inc	BID SUBMITTED	\$ 658,000.00
3	Daniels Construction	BID SUBMITTED	\$ 836,445.00
14	T Ford Company, Inc.	BID SUBMITTED	\$ 874,825.00
5	Evroks Corporation	BID SUBMITTED	<del>\$ 1,032,000.00</del>
8	Kingsbury Companies LLC	BID SUBMITTED	<del>\$ 1,089,000.00</del>
11	New England Infrastructure, LLC	BID SUBMITTED	<del>\$ 1,995,000.00</del>
4	E.T. & L. Corp.	NO BID	REMOVED
6	J.F. Brennan Company	NO BID	REMOVED
7	JCL Septic and Construction	NO BID	REMOVED
13	Renaud Brothers Inc	NO BID	REMOVED
15	Untied Construction	NO BID	REMOVED
2	ASI Construction, LLC	PASSED	REMOVED
10	Morello Construction	PASSED	REMOVED
12	Pine Hill Construction	PASSED	REMOVED
9	M&K Diving & Construction	PENDING	

# THE NUMBERS YOU HAVE SEEN WERE THE STARTING NUMBERS

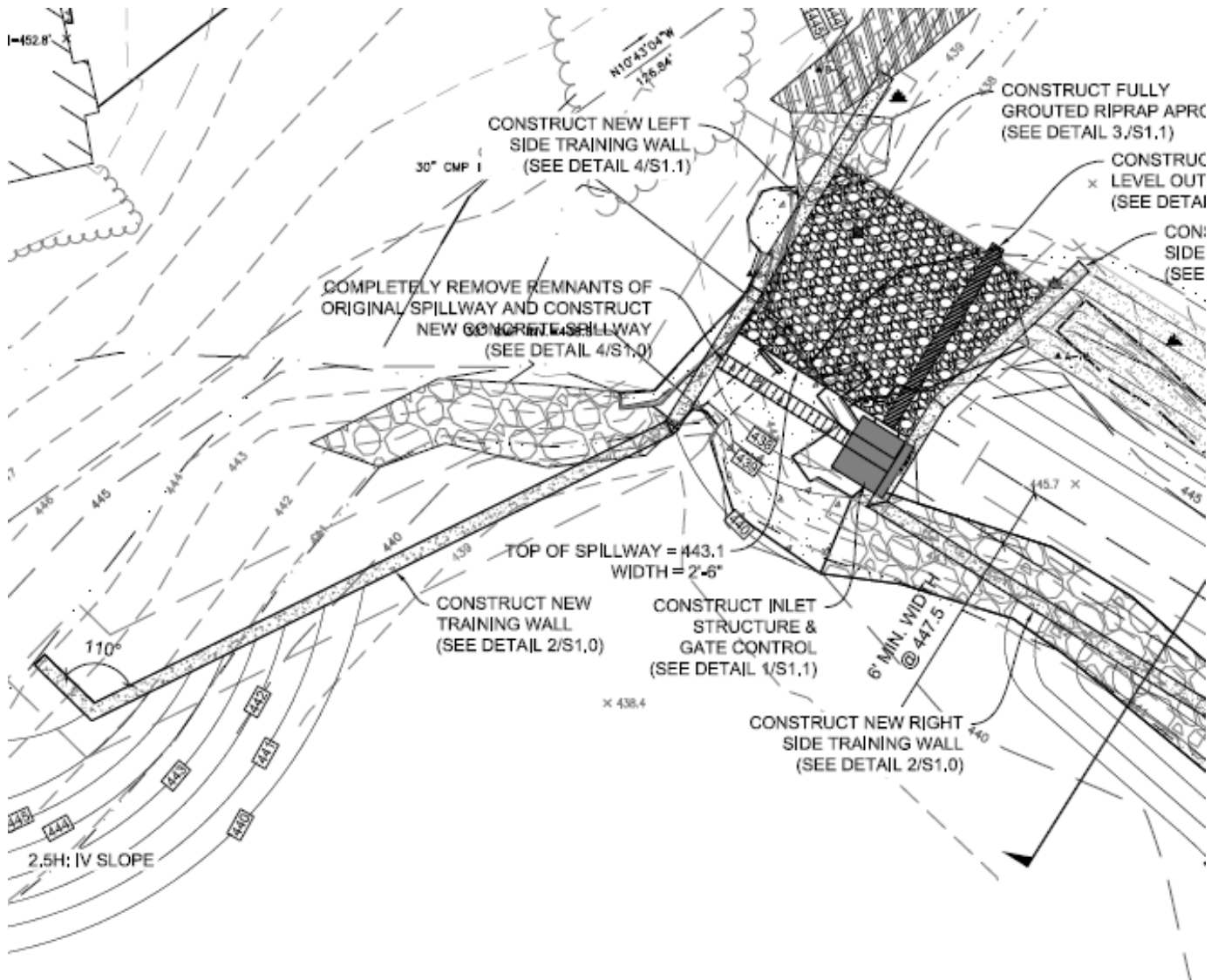
- We are blessed to have three companies close in price.
- The Builders have years of experience and have presented some "Best Practice" recommendations that are going to reduce cost
- NH DES Dam has made some comments that have given us less expensive construction costs
- Now that we have seen the numbers a few of the original design components need to be modified for less expensive options, which will not jeopardize our original design needs.
- Unfortunately, owners, engineers and builders do not get to sit at a table in the beginning and merge ideas
- The dewatering for this project in and of itself is \$ 140,000. This was not anticipated.

# DESIGN CRITERIA GIVEN TO THE ENGINEERS

- After the flood on July 9th 2023 we were told the storm reached the levels of 130 to 150 year storm conditions.
- Aerial photos of the water exiting the box culvert revealed that the water velocity in high conditions is significant and heads directly to the left side earthen shoreline
- We tasked the engineers with providing a 100 year storm event design. 150 years was out of our reach both in height and cost
- Another task we gave them was create a design capable of withstanding the box culvert discharge velocities and preventing overtopping of the left shoreline
- And finally, we charged them with a design that was up to the task of longevity

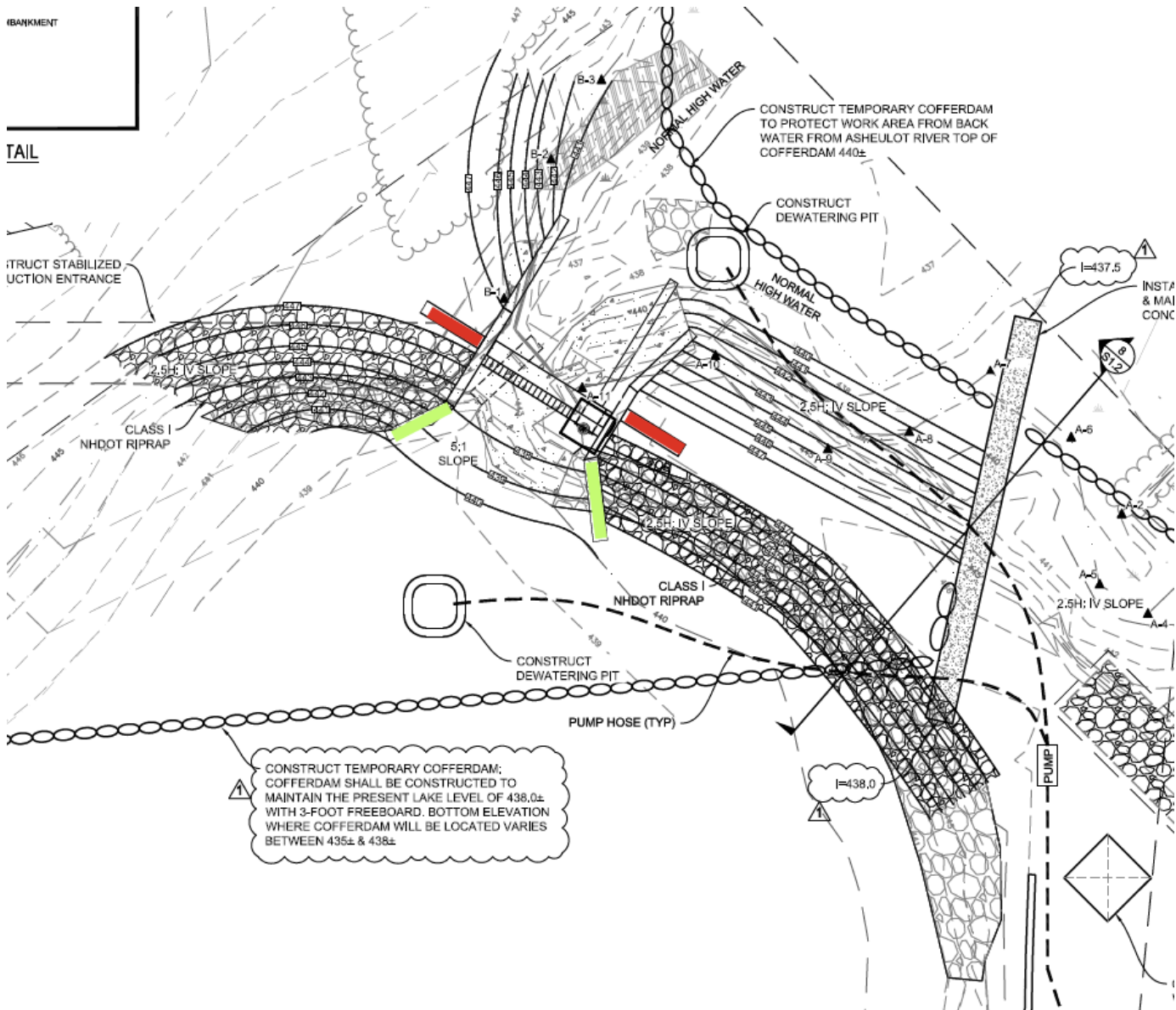
# WHY WAS THE ORIGINAL ESTIMATE LOWER THAN ACTUAL

- The original estimate was created in 2022
- The original design criteria in 2021/22 did not have 95 feet of upstream training wall \*\*
- The flood of July 2023 added the design concept of the long upstream training walls
- Construction firms are busy and being selective on the jobs they take. Timing has a lot to do with it.
- DES Dam reports that the last 5 permits they saw in 2024 had a 20% cost increase, based on estimates created one year prior.
- The American Rescue Plan Act (ARPA) has inserted a great deal of money into our economy for heavy construction which has minimized the availability of construction firms



**ORIGINAL 2024 DESIGN  
CAPABLE OF A 100 YEAR  
STORM EVENT**

# RED LINE OF FINAL DESIGN USING RIPRAP



# COST REDUCTION OPPORTUNITIES

Convert 18 inch, 12 foot high upstream training walls to NH DOT Class I Riprap, seven feet in height from stream bed.

Concrete walls are approximately \$ 2000 per liner foot. We have 80 liner feet of wall that could be converted.

Remove the need for drainpipe at the toe of all the concrete wall. Approved by DES Dam.

Reduce the size of the Operator Platform and convert it to paint instead of galvanized.

And others small and large items the design / build team discussed.

# FUTURE CAPABILITY

MAX CAPABILITY 4 FEET IN HEIGHT

