



Community Infrastructure • Architecture • Environmental Services

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Date	August 5, 2026
To	Town of Osceola Board
From	Joe Pingel, PE & Ryan Koth, PE
Subject	Dundee Dam Grant/Design Update

Cedar Corporation was hired by the Town of Osceola to evaluate ways to increase the spillway capacity for the Dundee Dam located in Dundee Mill & Park on the East Branch of the Milwaukee River. The Dundee Dam is classified as a large dam with a significant hazard rating. The significant hazard rating is a result of a Dam Failure Analysis (DFA) completed in 2016 by others. The assessment was completed in February of 2026. The WDNR was consulted several times concerning how the DFA was modeled as well as verbal concurrence with the proposed recommendation on expanding the spillway capacity to meet NR 333 with a reinforced earthen embankment spillway.

The WDNR Municipal Dam Grant program was funded in the FY2025-2027 State Budget. Grant applications were due at the end of February 2026. Cedar Corporation was hired to submit the grant application on behalf of the Town of Osceola. The Needs Assessment Report was included in the grant application submittal including the opinion of probable cost and concept plans for the reinforced earthen embankment spillway. The Town of Osceola was notified at the end of May that they were successful in securing a grant for the needed improvements at the dam.

A meeting was held with the WDNR in early July to discuss the requirements of the grant. The municipal dam grant is a 50/50 grant. Eligible costs are engineering and construction costs associated with repairing and modifying the dam. Unfortunately, costs associated with repairs needed associated with power generation are not eligible grant costs. The general procedure for moving forward with the design work was also discussed at this meeting. The Town is to move forward with design, WDNR permitting and bidding of the project. After bids are received, the WDNR and the Town will finalize costs on the grant. It was also discussed that the reinforced earthen embankment will not be accepted to increase the spillway capacity of the dam due to the frequency of use as well as WDNR experience with undermining of the proposed reinforced mats. As a result, Cedar Corporation has developed four potential concepts to bring the dam in compliance with NR333. As with the reinforced earthen embankment, the proposed concepts were submitted to the WDNR for comment. The WDNR has stated that at this time, they do not see anything in the concepts that would not be approvable. The options presented to the WDNR are as follows:

Option 1:

- Modify the spillway of the existing dam to be a labyrinth spillway. A labyrinth spillway is in a zigzag pattern which increases the length of the spillway and capacity.
- It is not known if this will increase capacity to the 500-year storm event at this time.
- Retrofitting the spillway could also result in significant change orders during construction due to unknown construction of the existing dam.
- Option is therefore not recommended.

Option 2

- Design and construct a new structure adjacent to the existing spillway.
- The new structure would be designed to safely pass the 500-Year event by itself.
- The current dam would be operated as it currently is for construction with no lake drawdown anticipated.
- In the future, if we have a situation where the existing spillway needs repair or is beyond repair, the existing spillway can be removed.

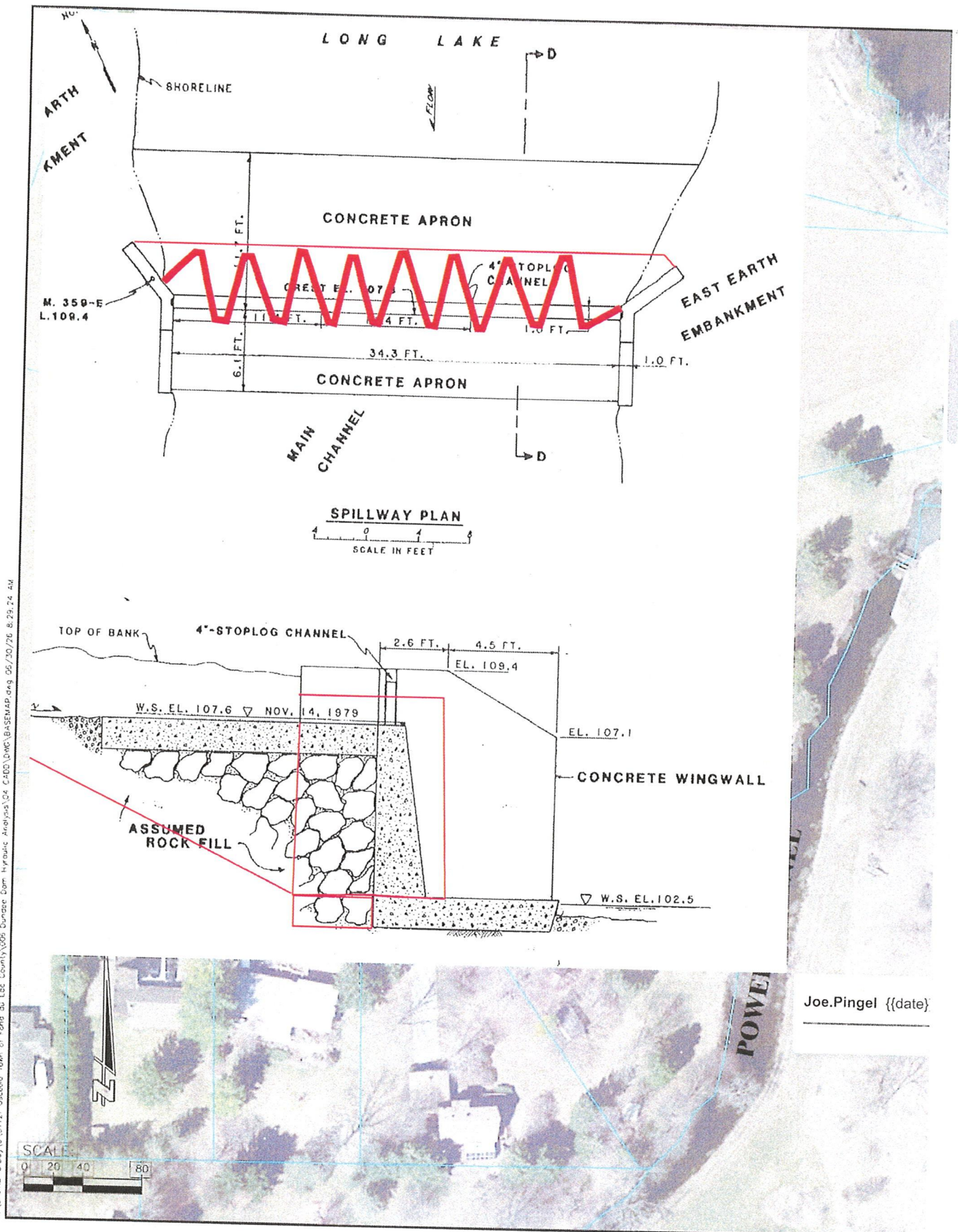
Option 3

- Design and construct a new structure adjacent to the existing spillway and the existing spillway would be removed.
- The current dam would be operated as it currently is for construction with no lake drawdown anticipated. Sheet piling would be used during the removal of the existing spillway and remain in place. The void area to be filled with clayey soils.

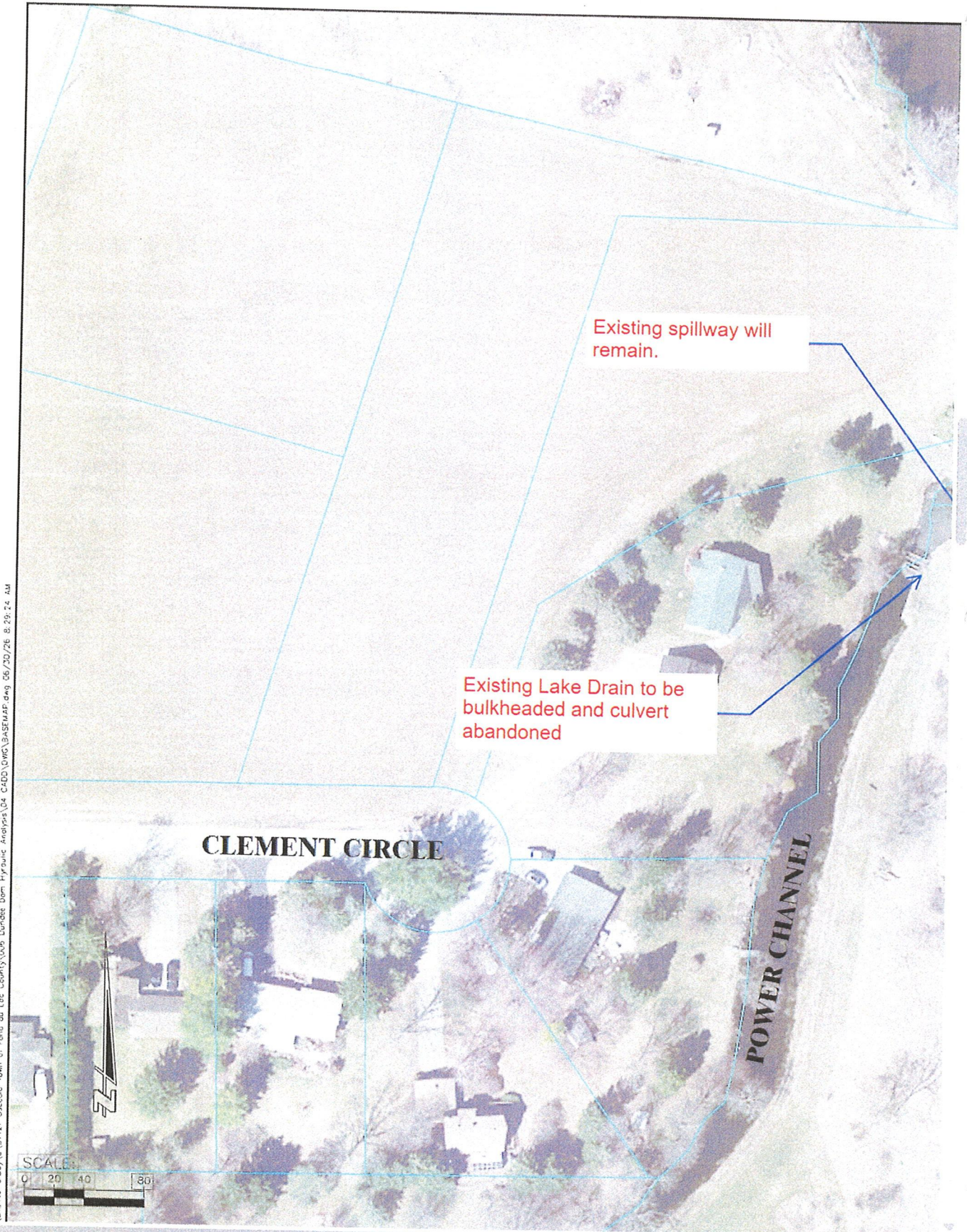
Option 4

- The design and construction of a new structure, adjacent to the existing spillway.
- The new structure and existing spillway will be used in combination to safely pass the 500-Year event. This will result in a slightly smaller new spillway
- The current dam would be operated as it currently is for construction with no lake drawdown anticipated.





Joe.Pingel {{date}}



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OPINION OF PROBABLE PROJECT COST

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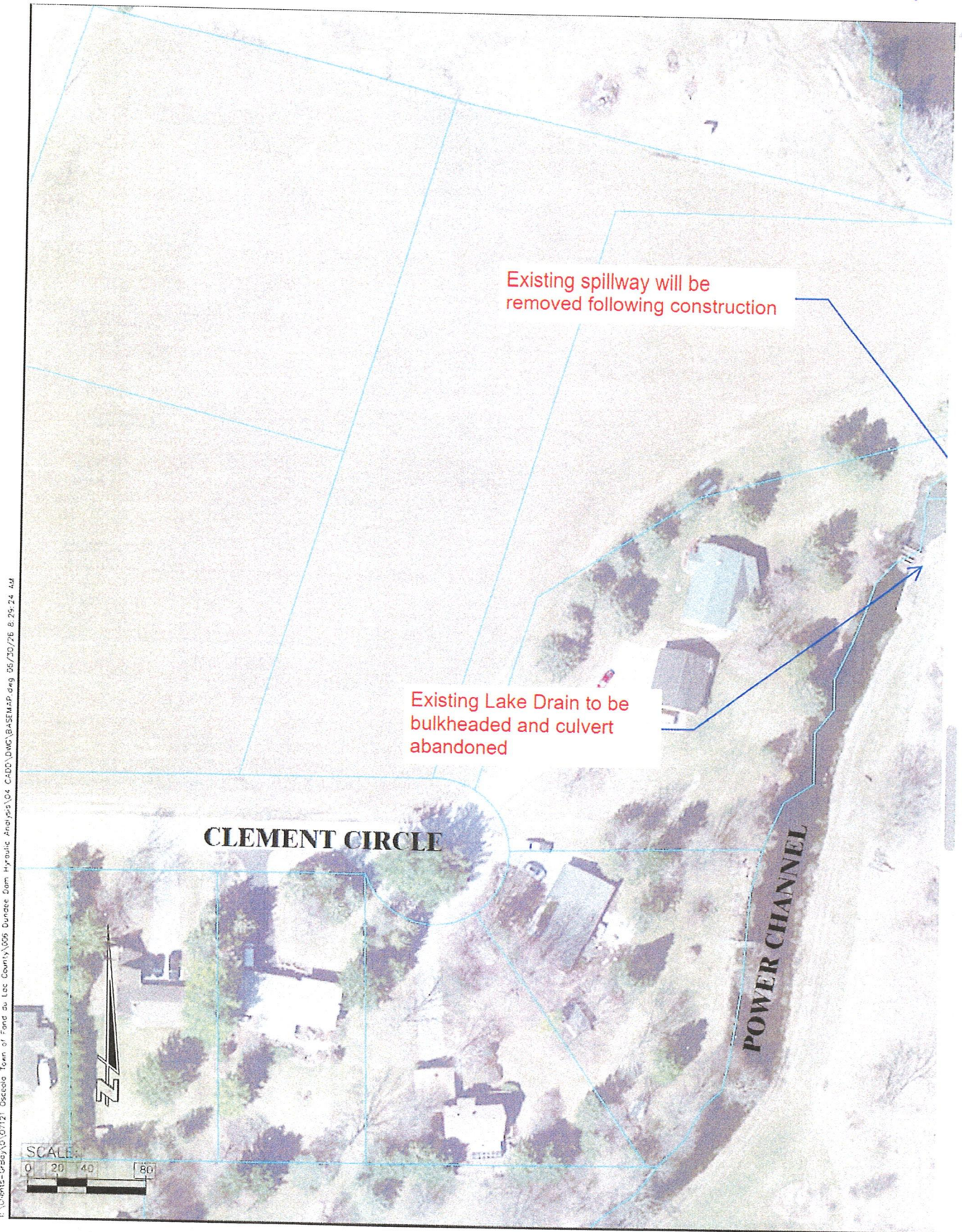
Client	Village of Osceola	Project No.	07121-0009
Project	Dundee Dam Conceptual Design Options-Option 2	Date	8/5/2026
Prepared By	Ryan W. Kloth, P.E., CFM	Revised Date	

Item	Unit	Qty	Unit Price	Cost
Mobilization	L.S.	1	\$10,000.00	\$10,000.00
Concrete Spillway	L.S.	1	\$320,000.00	\$320,000.00
Remove and Replace Existing Gate	EA.	1	\$20,000.00	\$20,000.00
Remove and Replace Existing Concrete Headwall	L.S.	1	\$30,000.00	\$30,000.00
Common Excavation (Estimated 500 C.Y.)	L.S.	1	\$30,000.00	\$30,000.00
Topsoil Stripping and Stockpiling	S.Y.	1000	\$26.00	\$26,000.00
Temporary Ditch Checks	L.F.	200	\$5.00	\$1,000.00
Temporary Silt Fence	L.F.	200	\$5.00	\$1,000.00
Temporary Stone Tracking Pad	EA.	1	\$2,000.00	\$2,000.00
Access Road Restoration	L.S.	1	\$20,000.00	\$20,000.00
Topsoil, Turf, Grasses, and Erosion Mat	S.Y.	12000	\$5.00	\$60,000.00

Project Totals

Total Construction	\$520,000.00
Total Contingency	\$26,000.00
Total Engineering and Administration	\$78,000.00
TOTAL PROJECT COST	\$624,000.00







OPINION OF PROBABLE PROJECT COST

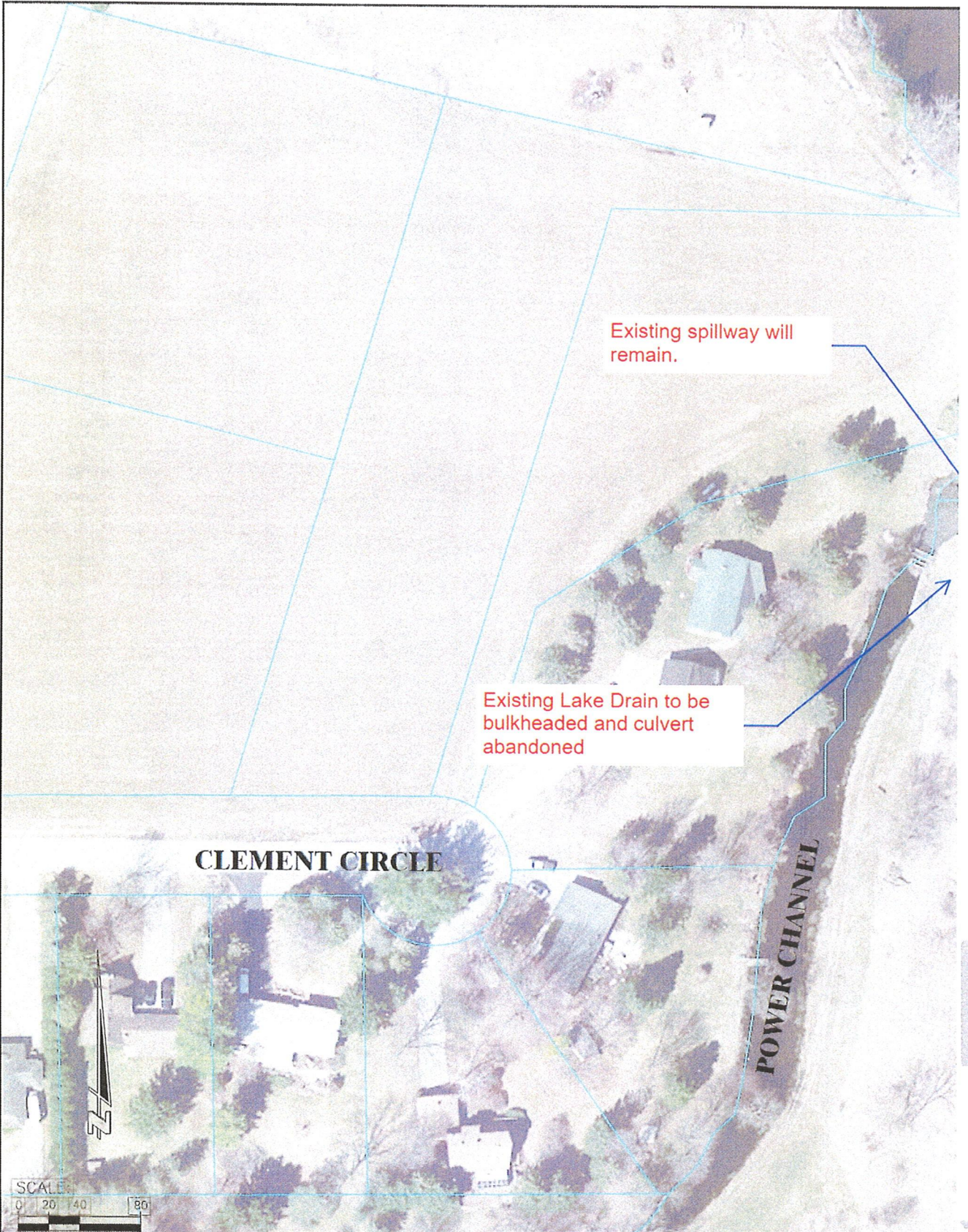
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Client	Village of Osceola	Project No.	07121-0009
Project	Dundee Dam Conceptual Design Options-Option 3	Date	8/5/2026
Prepared By	Ryan W. Kloth, P.E., CFM	Revised Date	

Item	Unit	Qty	Unit Price	Cost
Mobilization	L.S.	1	\$10,000.00	\$10,000.00
Remove Existing Concrete Spillway	L.S.	1	\$350,000.00	\$350,000.00
Concrete Spillway	L.S.	1	\$320,000.00	\$320,000.00
Remove and Replace Existing Gate	EA.	1	\$20,000.00	\$20,000.00
Remove and Replace Existing Concrete Headwall	L.S.	1	\$30,000.00	\$30,000.00
Common Excavation (Estimated 500 C.Y.)	L.S.	1	\$30,000.00	\$30,000.00
Topsoil Stripping and Stockpiling	S.Y.	1000	\$26.00	\$26,000.00
Temporary Ditch Checks	L.F.	200	\$5.00	\$1,000.00
Temporary Silt Fence	L.F.	200	\$5.00	\$1,000.00
Temporary Stone Tracking Pad	EA.	1	\$2,000.00	\$2,000.00
Access Road Restoration	L.S.	1	\$20,000.00	\$20,000.00
Topsoil, Turf, Grasses, and Erosion Mat	S.Y.	12000	\$5.00	\$60,000.00

Project Totals	
Total Construction	\$870,000.00
Total Contingency	\$43,500.00
Total Engineering and Administration	\$130,500.00
TOTAL PROJECT COST	\$1,044,000.00

NO



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OPINION OF PROBABLE PROJECT COST

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Client	Village of Osceola	Project No.	07121-0009
Project	Dundee Dam Conceptual Design Options-Option 4	Date	8/5/2026
Prepared By	Ryan W. Kloth, P.E., CFM	Revised Date	

Item	Unit	Qty	Unit Price	Cost
Mobilization	L.S.	1	\$10,000.00	\$10,000.00
Concrete Spillway	L.S.	1	\$300,000.00	\$300,000.00
Remove and Replace Existing Gate	EA.	1	\$20,000.00	\$20,000.00
Remove and Replace Existing Concrete Headwall	L.S.	1	\$30,000.00	\$30,000.00
Common Excavation (Estimated 500 C.Y.)	L.S.	1	\$30,000.00	\$30,000.00
Topsoil Stripping and Stockpiling	S.Y.	1000	\$26.00	\$26,000.00
Temporary Ditch Checks	L.F.	200	\$5.00	\$1,000.00
Temporary Silt Fence	L.F.	200	\$5.00	\$1,000.00
Temporary Stone Tracking Pad	EA.	1	\$2,000.00	\$2,000.00
Access Road Restoration	L.S.	1	\$20,000.00	\$20,000.00
Topsoil, Turf, Grasses, and Erosion Mat	S.Y.	12000	\$5.00	\$60,000.00

Project Totals

Total Construction	\$500,000.00
Total Contingency	\$25,000.00
Total Engineering and Administration	\$75,000.00
TOTAL PROJECT COST	\$600,000.00