

RED LAKE WATERSHED DISTRICT

February 11, 2021, 9:00 a.m.

Agenda

The meeting has a Zoom option due to the current pandemic situation.

Meeting Participation via Zoom Information:

[Join by Zoom Meeting](#)

Telephone: 1-312-626-6799 ~ Meeting ID: 934 1836 4955 ~ Passcode: 931720

9:00 a.m.	Call to Order	Action
	Review and approve agenda	Action
	Requests to appear	Information
	January 28, 2021 Minutes	Action
	Financial Report dated February 10, 2021	Action
	2020 General Fund Budget	Information
	Black River Impoundment, RLWD Project No. 176	Information
	Utilities Meeting – February 23, 2021 at 2:00 p.m.	Information
9:15 a.m.	Threatt Ring Dike, RLWD Project No.	Info/Action
	Bids and Specifications	Action
	Set Bid Opening- March 11, 9:30 a.m.	Action
	Pine Lake, RLWD Project No. 35 - Aeration Update	Information
	Clearwater River 1W1P, RLWD Project No. 149B	Information
	Parnell Impoundment Advisory Committee Meeting-February 23, 2021	Information
	Moose River Interagency Meeting-March 3, 2021	Information
	BWSR - Board Vacancy	Information
	Administrators Update	Information
	Legal Counsel Update	Information
	Managers' updates	Information
	Adjourn	Action

UPCOMING MEETINGS

February 16, 2021	RRWMB Meeting, 10:00 a.m. (virtual)
February 23, 2021	Parnell Impoundment Advisory Meeting, 10:00 a.m.
February 25, 2021	RLWD Board Meeting, 9:00 a.m.
March 3, 2021	Moose River Interagency Meeting, 9:30 a.m.
March 15, 2021	RLWD Advisory Committee Meeting, 9:30 a.m.

DRAFT

RED LAKE WATERSHED DISTRICT
Board of Manager's Minutes
January 28, 2021

President Dale M. Nelson called the meeting to order at 9:00 a.m. at the Red Lake Watershed District Office, Thief River Falls, MN.

Present in person: Managers Dale M. Nelson, Allan Page, LeRoy Ose, Terry Sorenson, Gene Tiedemann, and Tom Anderson. Present via Zoom: Brian Dwight. Staff Present: Myron Jesme and Tammy Audette, and Legal Counsel, Delray Sparby.

The Board reviewed the agenda. A motion was made by Ose, seconded by Tiedemann, and passed by unanimous vote that the Board approve the agenda. Motion carried.

The Board reviewed the January 14, 2021 minutes. Motion by Tiedemann, seconded by Sorenson, to approve the January 14, 2021 Board meeting minutes as presented. Motion carried.

The Board reviewed the Financial Report dated January 27, 2021. Motion by Tiedemann, seconded by Dwight, to approve the Financial Report dated January 27, 2021. Motion carried.

The Board reviewed Pay Estimate No. 15 in the amount of \$407,978.83 to R.J. Zavoral & Sons, Inc. for construction of the Thief River Falls Westside Flood Damage Reduction Project, RLWD Project No. 178. Motion by Ose, seconded by Tiedemann, to approve Pay Estimate No. 15 in the amount of \$407,978.83 to R.J. Zavoral & Sons, Inc., for construction of the Thief River Falls Westside Flood Damage Reduction Project, RLWD Project No. 178. Motion carried. Engineer Nate Dalager, HDR Engineering, Inc., discussed Change Order No. 8, which includes unexpected rock blockages that the subcontractor encountered under State Hwy 32 at the intersection of Greenwood Street, while boring a culvert under Highway 32. Dalager discussed the construction sequence chosen by the contractor that was not consistent with sequencing discussed at the preconstruction meeting, which specifically, was the lack of completing the diversion portion of the project prior to the directional bore of the culvert under Highway 32. Dalager stated that because of the sequence chosen by the contractor and due to nuisance rainfall events, the boring area had to be dewatered various times due to the prime contractor's decision to allow water from a six square mile drainage area continue to flow towards the Highway 32 boring site, noting that contractor continued to work with no approval of overages from the District. Dalager stated that he is not able to tell the difference between encountering rock or water removal from the contractor's invoice, stating that the hours the subcontractor submitted should be the responsibility of the prime contractor to control. Dalager also noted that water management is incidental to the work. The contractor is requesting \$85,400, with Dalager recommending payment in the amount of \$30,035.34. Dalager informed the Board that there is a provision in the contract documents that if there is going to be a change order, they need prior approval before moving forward without permission or approval. If the contractor does not agree Dalager's recommendation, the contractor can make a claim. Discussion was held that the staging and sequencing of the project is all on the contractor, and that unknown subsurface conditions are a thing that should be taken into consideration when making a bid. Legal Counsel Sparby stated that he would like to see them break down their costs further. Staff from HDR

Engineering documented work while they were completing the directional bore, and was keeping the City of Thief River Falls, Pennington County and the District aware of the situation. Motion by Dwight, to authorize approval of Change Order No. 8 in the amount of \$30,035.34, to R.J. Zavoral & Sons, Inc., provided the Change Order has the support of the City of Thief Falls. The motion died for a lack of a second. Mark Borseth, City of Thief River Falls, stated that the city was frustrated with the contractor's procedure of starting the boring without having the diversion in place. Sparby asked if this change order was a pass through for the city to pay or are the costs split between entities? Borseth indicated that the city would accept any help the District would give towards the cost of the change order. Motion by Ose, seconded by Tiedemann, to authorize Dalager and Administrator Jesme to negotiate with the contractor in regard to Change Order No. 8, for construction of the Thief River Falls Westside Flood Damage Reduction Project, RLWD Project No. 179 and report back to the Board with their recommendations. Motion passed with Manager Dwight opposed.

Engineer Nate Dalager, HDR Engineering, Inc., stated that the Engineers Report for the Pine Lake Flood Damage Reduction and Fish Habitat Project, RLWD Project No. 26B, was submitted to BWSR and MnDNR for their review. Dalager indicated that a hearing date should be scheduled in the near future. Motion by Ose, seconded by Anderson, to schedule the hearing for the Pine Lake Flood Damage Reduction and Fish Habitat Project, RLWD Project No. 26B, for March 11, 2021 at 10:30 a.m. at the District office. Motion carried. Staff member Nick Olson stated that advertising notice has begun for aeration on Pine Lake, with the Gonvick Sportsman Club monitoring the oxygen levels.

Engineer Tony Nordby, Houston Engineering, Inc., reviewed Change Order No. 1 for construction of the Black River Impoundment, RLWD Project No. 176 in the amount of \$51,564.65. Motion by Page, seconded by Tiedemann, to approve Change Order No. 1 in the amount of \$51,564.65 for construction of the Black River Impoundment, RLWD Project No. 176. Motion carried. Nordby reviewed Pay Estimate No. 5 in the amount of \$45,351.10. Motion by Page, seconded by Ose, to approve Pay Estimate No. 5 for the construction of the Black River Impoundment, RLWD Project No. 176, in the amount of \$45,351.10 to R.J. Zavoral & Sons, Inc. Motion carried. Administrator Jesme and Legal Counsel Sparby are working on easements for the diversion ditches. Jesme indicated that additional verbiage is needed from Sparby prior to submittal to the landowners.

District Manager, Peter Nelson, Pennington SWCD, updated the Board on construction projects for all the LGU's within the Red Lake River 1W1P, RLWD Project No. 149. Nelson and Staff member, Arlene Novak, stated that BWSR recently completed a reconciliation of the first 50% allocation of the 2018 grant, which approves the release of the next 40% of the available funding.

Engineer Tony Nordby, Houston Engineering, Inc., stated that after review of the bids for the Ditch 10 Outlet Repairs, RLWD Project No. 161, Nordby submitted the contract documents to R.J. Zavoral & Sons, Inc. for review.

The Board reviewed a petition from landowners James and Lori Reinbold to allow drainage of approximately 40 acres in the NE ¼ of Section 9, Equality Township, Red Lake County, to be included into the Ditch No. 7, RLWD Project No. 20 benefitted area. Staff member Nick Olson

stated that Reinbold submitted a tile permit, Permit No. 20156, in which a portion of that area currently drains into Judicial County Ditch No. 3. Legal Counsel Sparby noted that the District would need to hold a hearing to allow Reinbold to drain into the Ditch 7, RLWD Project No. 20 benefitted area. Motion by Page, seconded by Tiedemann, to approve the Petition from James and Lori Reinbold to Petition into the Ditch 7, RLWD Project No. 20 benefitted area. Motion carried. Motion by Ose, seconded by Tiedemann, to hold a hearing on April 9, 2021 at 9:30 a.m. at the District office, for the inclusion of land owned by James and Lori Reinbold into the Ditch 7, RLWD Project No. 20 benefitted area. Motion carried.

Staff member Corey Hanson reviewed a proposal for continuation of financial support for the analysis of lake samples collected by the East Polk SWCD. Hanson stated that the East Polk SWCD will collect water quality samples on nine lakes for a monitoring period of three years (2021-2023). The East Polk SWCD contribution is approximately \$8,663.04, which includes staff time, administration, and transportation. The District's contribution would cover the cost of lab testing and shipping at an approximate cost of \$7,290 over the three-year term. Motion by Sorenson, seconded by Dwight, to approve the lake monitoring proposal with the East Polk SWCD at an approximate cost of \$7,290.00 for a three-year term. Motion carried.

MAWD dues for 2021 were presented to the Board. Motion by Tiedemann, seconded by Page, and passed unanimously to approve paying \$7,500 for the 2021 MAWD dues. Motion carried.

Legal Counsel Sparby indicated that Staff member Tammy Audette completed gathering the information to submit to the courts for the appeal on the Polk County Ditch 39 Improvement, RLWD Project No. 179. Sparby will complete a Certification of Record, that will need to be signed by Secretary Ose, prior to submittal to all the parties and the court.

Administrators Update:

- Jesme and Manager Ose participated in the January 19, 2021 RRWMB meeting.
- Jesme and Staff member Olson participated in a telephone conference with BWSR to discuss the PTMApp for the Clearwater River 1W1P. Hanson also participated in a meeting to review the draft Bylaws for the Policy Committee, that will be submitted to each LGU.
- Jesme and Staff member Novak participated in a Red Lake River 1W1P reconciliation of the 2018 Red Lake River 1W1P Grant.
- Included in the packet was the 2021 MAWD Legislative recommendations for the 2021 platform.
- Included in the packet was the December 2020 Water Quality Report

Motion by Ose, seconded by Anderson, to adjourn the meeting. Motion carried.

LeRoy Ose, Secretary

RED LAKE WATERSHED DISTRICT
Financial Report for February 10, 2021

Ck#	Check Issued to:	Description	Amount
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	3,695.63
online	MN Department of Revenue	Withholding taxes	694.33
online	Public Employees Retirement Assn.	PERA	2,276.97
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	228.26
online	MN Department of Revenue	Withholding taxes	50.00
38662	MN Association of Watershed District	2021 Dues	7,500.00
38663	R.J. Zavoral and Sons, Inc.	* See below for breakout	453,329.93
38664	Steiger Farms, Inc.	Easements for Black River Impoundment	10,157.83
38665	City of Thief River Falls	Water, electricity, sewer, etc.	764.37
38666	Sjobergs Cable TV	Internet expense	106.95
38667	Ace Hardware	Sidewalk salt, mop head and refill, LED lights	331.80
38668	Aramark	Office rug rental	45.39
38669	Houston Engineering Inc.	**See below for explanation	19,406.10
38670	Hudson Electric LLC	Bathroom timer/install and install LED light fixture in kitchen	214.33
38671	Hugo's #7	Board meeting supplies and building maintenance supplies	144.68
38672	Les' Sanitation	Garbage pickup	35.74
38673	Marco Technologies LLC	Monthly copier maintenance	73.40
38674	Minnesota Energy Resources	Heating expense	46.27
38675	Northwest Beverage	H2O for office	16.25
38676	Olson Construction	Plow and sand parking lot in January	280.00
38677	Pennington SWCD	2020 RL1W1P project expense	683.46
38678	Purchase Power	Postage plus meter fee	301.50
38679	Quill LLC	5 Deskpads calendars and 5 pk flash drives	76.92
38680	Richards Publishing Company	Aeration notice ad for Pine Lake	16.88
direct	Tom Anderson	Mileage	132.16
direct	Terry Sorenson	Mileage	42.00
online	Further	HSA account employee contribution (Feb.9)	177.50
online	Further	Medical FSA	181.63
online	Further	Medical FSA	107.43
online	Further	Medical FSA	40.19
	Payroll		
	Check #12154-12162		12,340.00
	Total Checks		\$ 513,497.90
	Additional Payables:		
	Tammy Audette	Clean offices in January	\$ 320.00
	East Polk SWCD	Reimburse sample analysis of lake sampling in Clwtr Rvr ws	\$ 2,325.00
	Rinke Noonan	Legal services for Polk Co. Dt. 39 Improv., RLWD Proj. 179	\$ 773.00
	*R.J. Zavoral & Sons, Inc.		
	Proj. 176 Black River Imp.-Pay #5		45,351.10
	Proj. 178 TRF Westside-Pay #15		<u>407,978.83</u>
	Total		453,329.93
	** Houston Engineering Inc.		
	State Ditch 83 Streambank Stab.		3,841.50
	RLWD Ditch 10 Repair		2,393.75
	Black River Impoundment		11,378.25
	Demarais Hanson Project		<u>1,792.60</u>
	Total		19,406.10

Banking

Northern State Bank

Balance as of January 27, 2021	\$ 209,677.14
Total Checks Written	(513,497.90)
Receipt #989892 State of Minnesota-Reimburse for the Burnham Creek Wildlife Habitat grant	135,167.70
Receipt #989900 Transfer to Northern State Bank	400,000.00
Receipt #989903 State of Minnesota-Final payment for TR PTMapp grant	6,056.00
Receipt #989905 Northern State Bank-Monthly interest	106.51
Receipt #989909 State of Minnesota-40% of Red Lake 1W1P 2018 grant	271,020.00
Balance as of February 10, 2021	<u>\$ 508,529.45</u>

Current interest rate is .20%

American Federal Bank-Fosston

Balance as of January 27, 2021	\$ 2,030,704.01
Receipt #989900 Transfer to Northern State Bank	(400,000.00)
Receipt #989901 Mahnomen County-Delinquent taxes	143.47
Receipt #989902 Pennington County-Delinquent taxes	17,613.39
Receipt #989904 Itasca County-Delinquent taxes	18.32
Receipt #989906 American Federal Bank-Monthly interest	952.77
Receipt #989907 Loren/Marjean Sanderson-Reimburse for insurances	795.45
Receipt #989908 Unity Bank-Interest on CD	422.67
Balance as of February 10, 2021	<u>\$ 1,650,650.08</u>

Current interest rate is .65%

Unity Bank-CD

12 month CD @ .84% Mature July 2021	\$ 200,000.00
Interest paid quarterly	

2020 GENERAL FUND BUDGET

as of December 31, 2020

(unaudited)

	2020 BUDGET	2020 Exp	(over) under
		TO 12-31-20	
Manager's fees, salaries	33,400.00	27,315.40	6,084.60
Board of Manager's expense	22,000.00	10,106.49	11,893.51
Staff salaries	460,000.00	447,259.60	12,740.40
Payroll taxes	35,190.00	38,909.03	(3,719.03) 1
Employee benefits	60,000.00	72,647.94	(12,647.94) 1
Travel and meetings(inc. mileage & exp.	5,000.00	1,488.73	3,511.27
Audit	9,450.00	9,450.00	0.00
Legal	16,000.00	15,342.00	658.00
Office supplies	20,000.00	13,203.31	6,796.69
Office equipment	50,000.00	12,235.89	37,764.11
Appraiser/Viewer Expense	2,000.00	782.45	1,217.55
Professional services (inc. Eng. Fees)	20,000.00	23,407.05	(3,407.05) 2
Dues and subscriptions	10,000.00	9,993.00	7.00
Insurance and bonds	25,000.00	29,239.00	(4,239.00) 3
Repairs and maintenance-Building	15,000.00	14,326.02	673.98
Utilities	10,000.00	9,126.12	873.88
Advertising and publications	4,000.00	9,169.23	(5,169.23) 4
Telephone	11,000.00	8,784.34	2,215.66
Vehicle expense and maintenance	14,000.00	10,690.37	3,309.63
Engineering supplies	3,000.00	(1,770.17)	4,770.17 5
Engineering equipment	18,000.00	12,434.37	5,565.63
Interest	0.00	4,421.24	(4,421.24)
TOTAL	843,040.00	778,561.41	64,478.59
Less: Overhead	690,000.00	731,226.01	41,226.01
Less: Miscellaneous revenue	7,000.00	1,340.40	(5,659.60)
General Fund Budget	146,040.00	45,995.00	100,045.00

		TO 12-31-20
January 1, 2020 Beg. Balance	151,168.90	151,168.90
County levies revenue	100,000.00	100,000.00
Misc. revenue		0.00
Gross balance with revenue		251,168.90
Less net expenses		(45,995.00)
Subtotal- General Fund w/o allocated interest		205,173.90
Plus interest earned		7,013.15
General Fund Balance 12-31-20		212,187.05

1 Additional staff added = additional benefits paid(some will be adjusted by BCBS for cancelled coverage)

2 Miraki support for 3 years (2,127) and Trimble training (\$1,800)

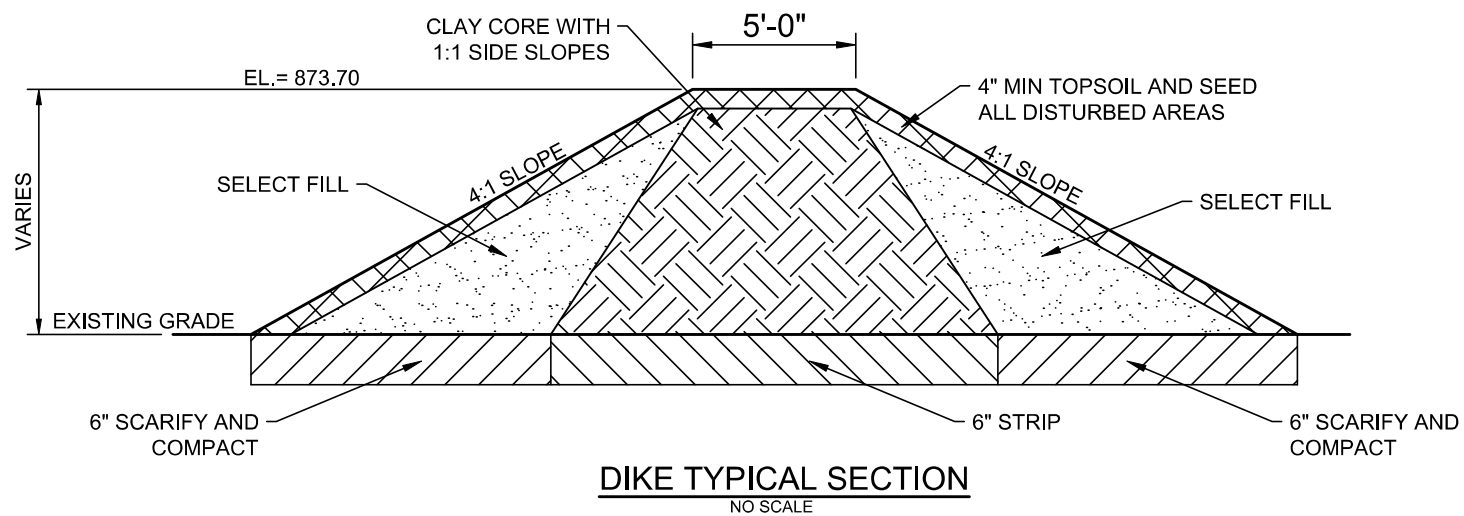
3.Liability insurance was additional for accounts payable in 2020 (construction)

4 Advertising & Publications-over for advertising for Engineer and Engineering Tech. (\$6,216.48)

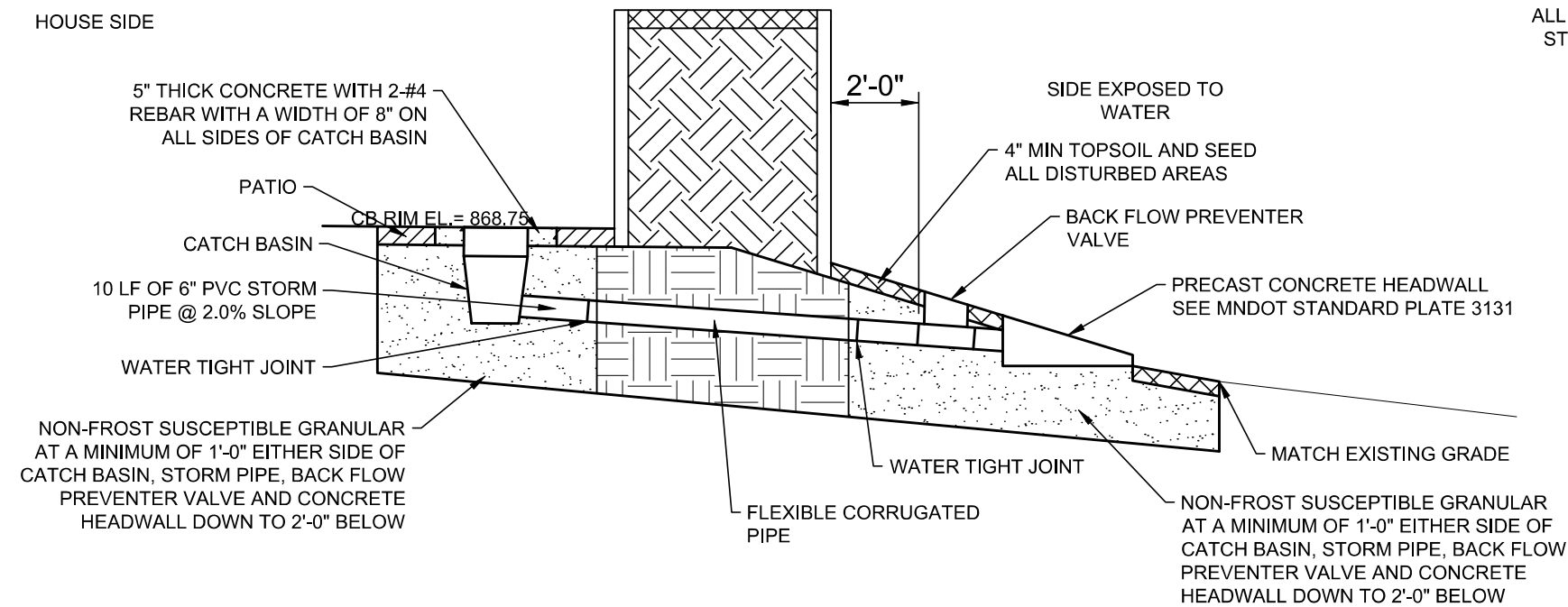
5 Allocated ROW and culvert markers to appropriate ditch systems and withdrawn from previous expense



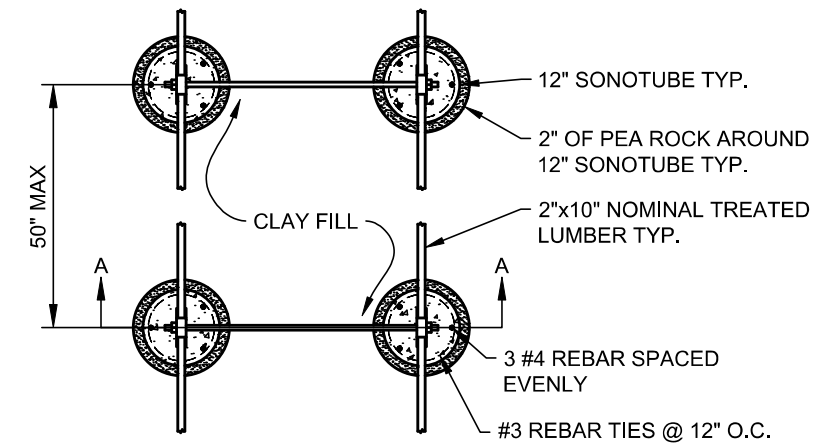
Figure 1



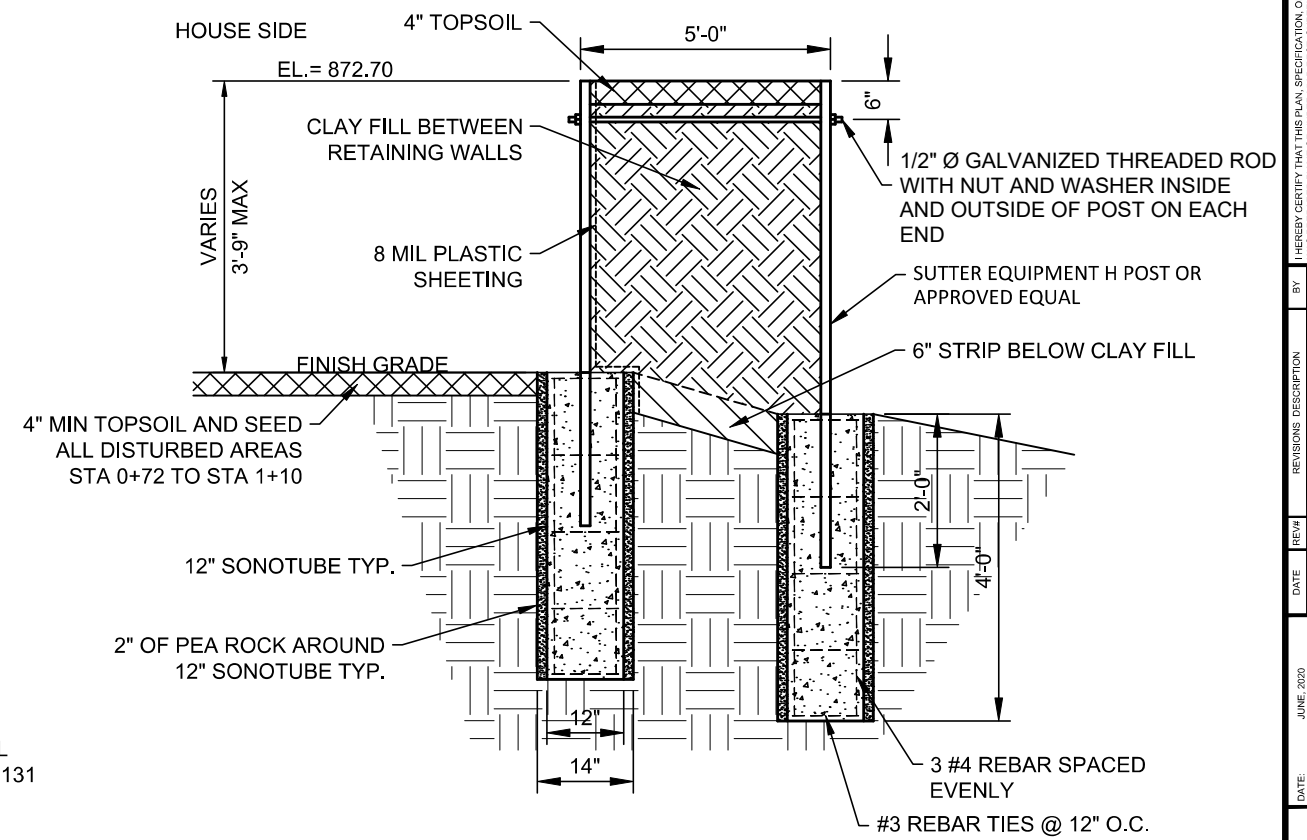
DIKE TYPICAL SECTION
NO SCALE



CATCH BASIN DETAIL
NO SCALE



PLAN VIEW



SECTION A-A

FLOOD WALL DETAIL
NO SCALE

I HEREBY CERTIFY THAT THIS DETAIL WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kent A Rohr

KENT ROHR, MN LIC. NO. 21179

DATE 08/04/20

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Blake A. Carlson

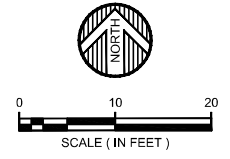
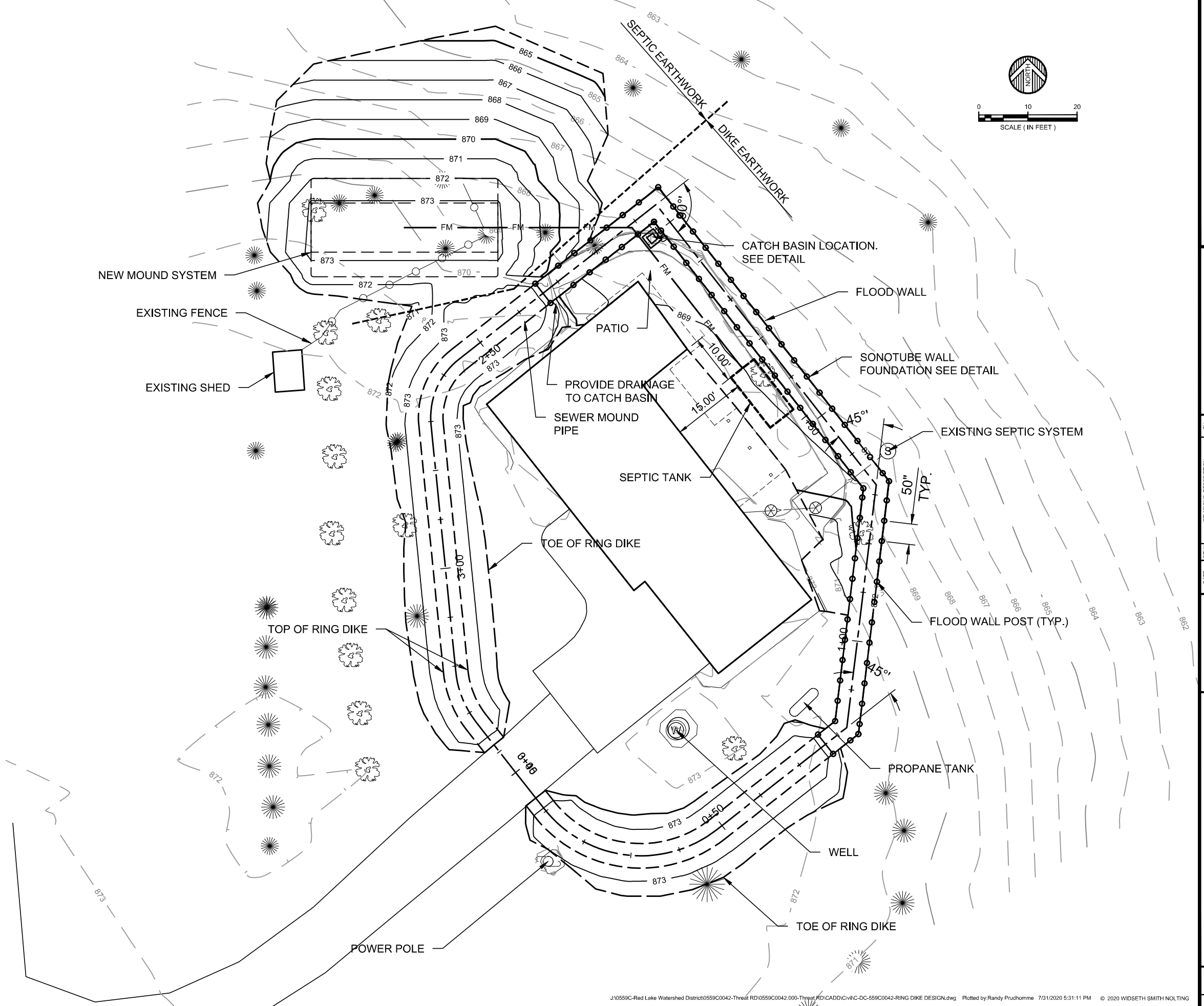
BLAKE A. CARLSON LIC. NO. 18914

DATE	REVISIONS	DESCRIPTION
JUNE 2020	AS SHOWN	
	RRP	
	BAC	

DATE: JUNE 2020
SCALE: AS SHOWN
DRAWN BY: RRP
CHECKED BY: BAC
JOB NUMBER: 559C0042.00

THREATT RING DIKE
RED LAKE WATERSHED DISTRICT
ANDOVER TOWNSHIP

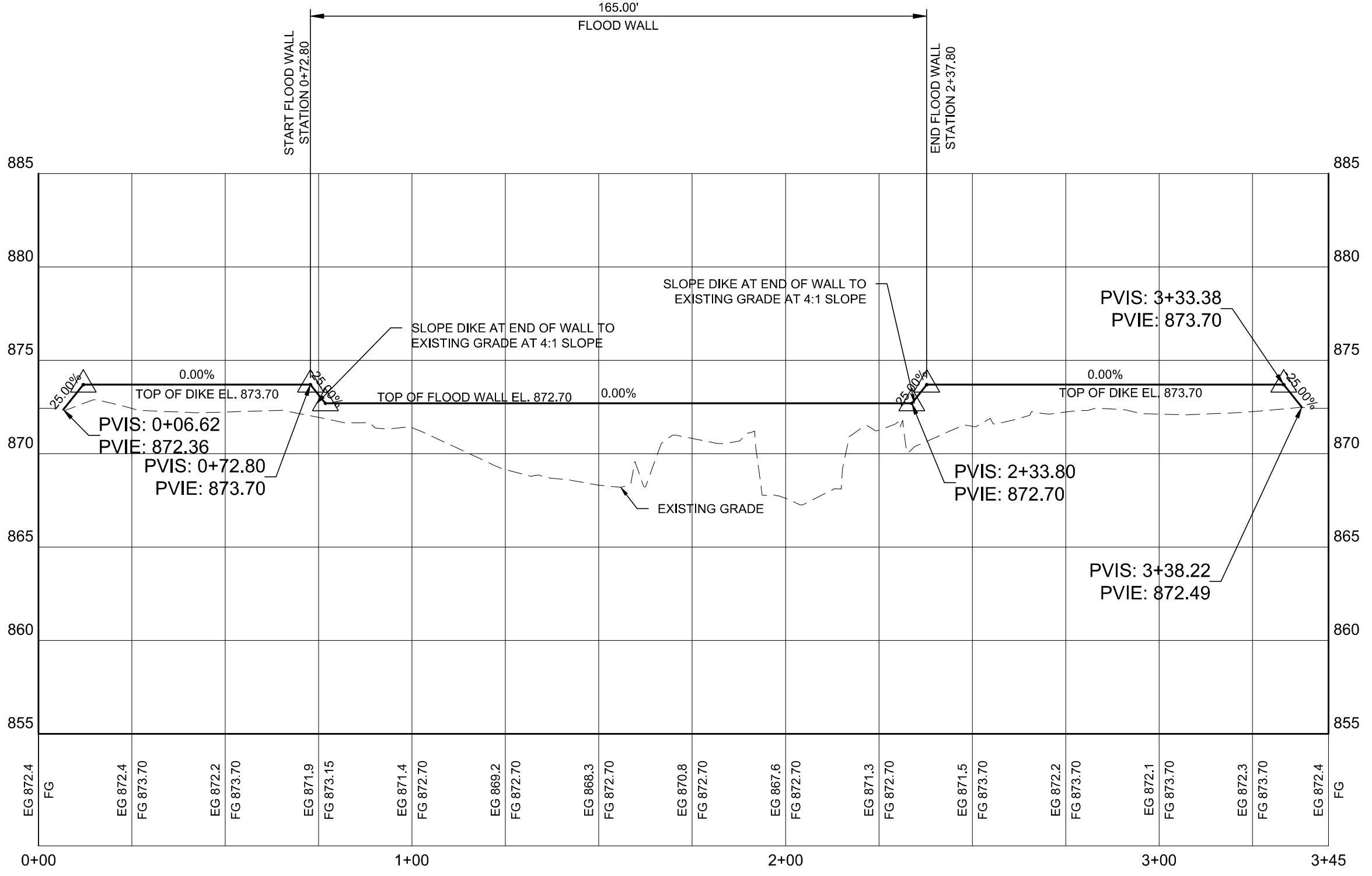
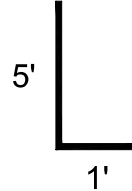
DETAILS



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IN ACCORDANCE WITH THE PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Blake A. Carlson
BLAKE A. CARLSON LIC. NO. 18914 DATE: 02/19/21

DATE	REV	DESCRIPTION
JUNE 2020	AS SHOWN	
	RRP	
	BAC	

THREATT RING DIKE
RED LAKE WATERSHED DISTRICT
ANDOVER TOWNSHIP
JOB NUMBER: 559C0042.00

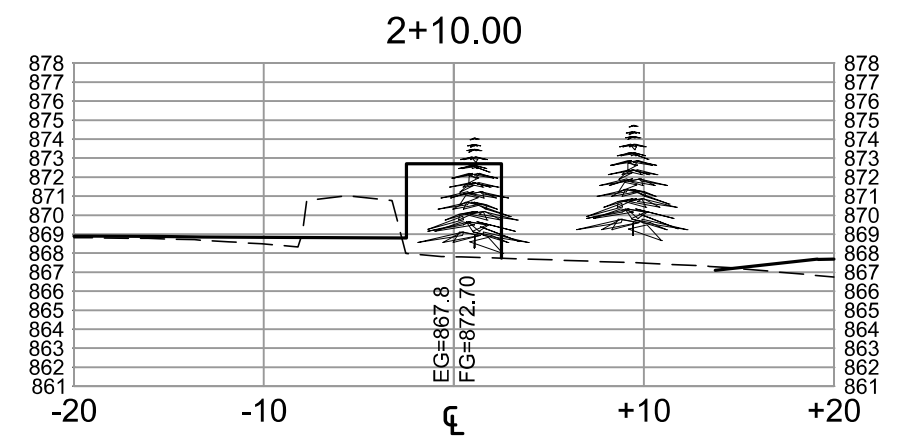
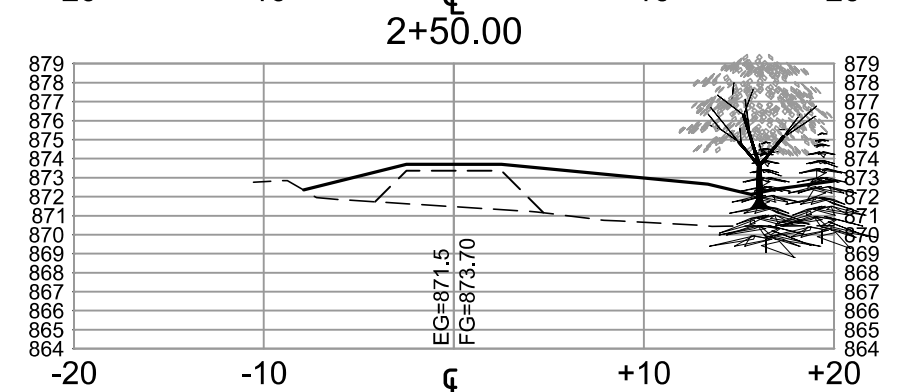
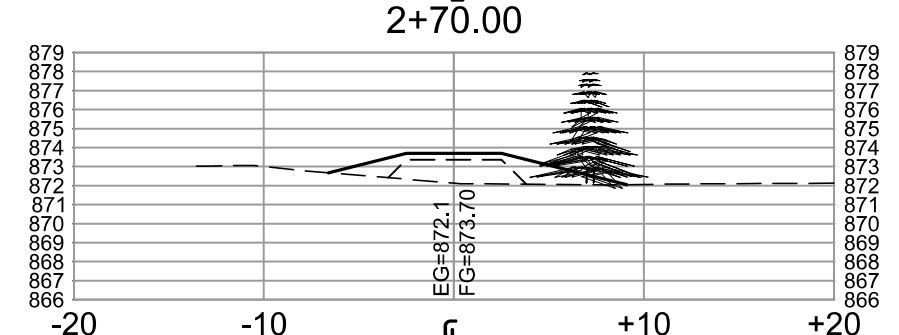
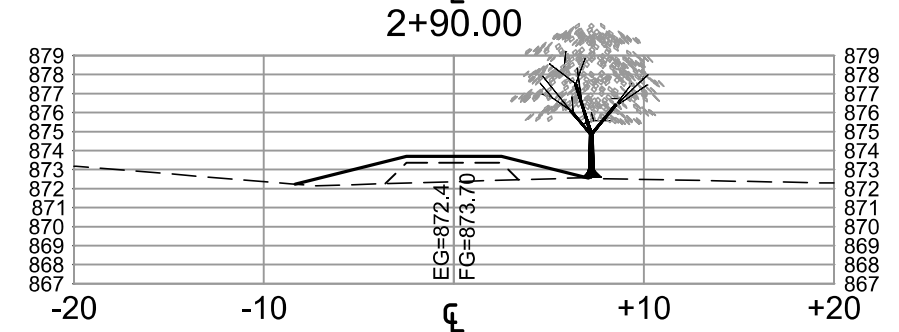
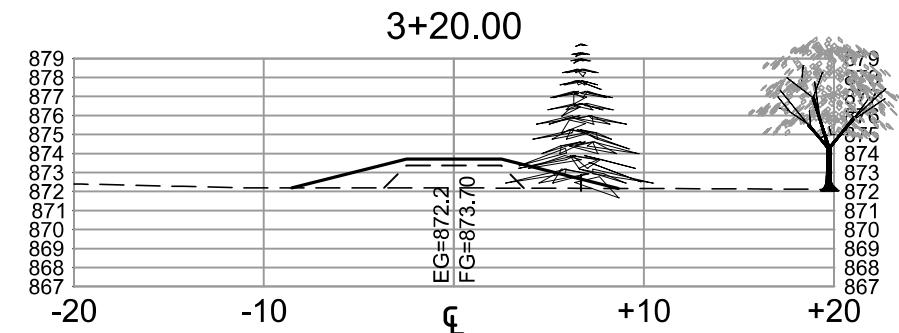
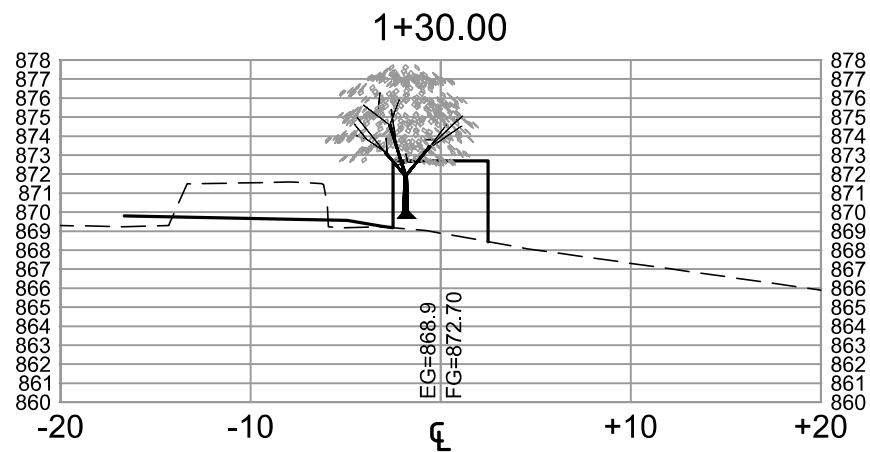
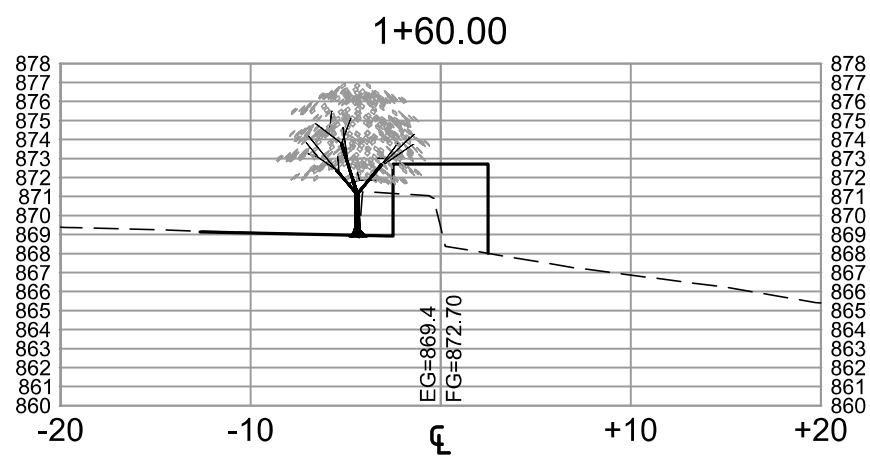
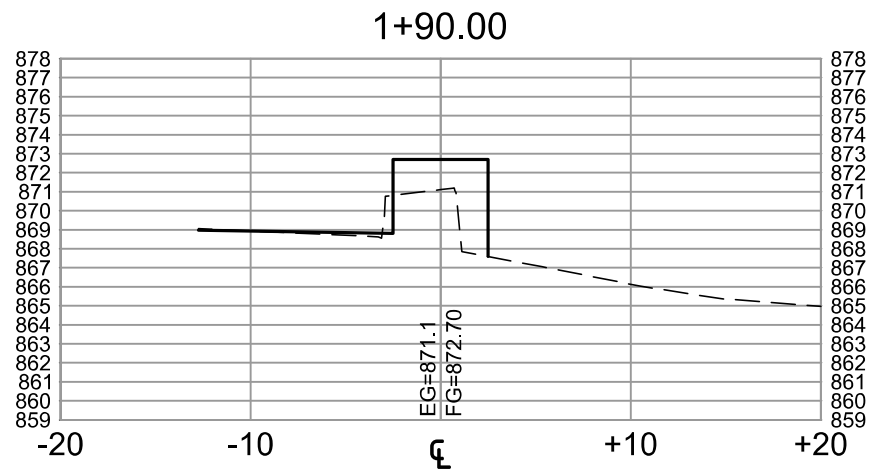
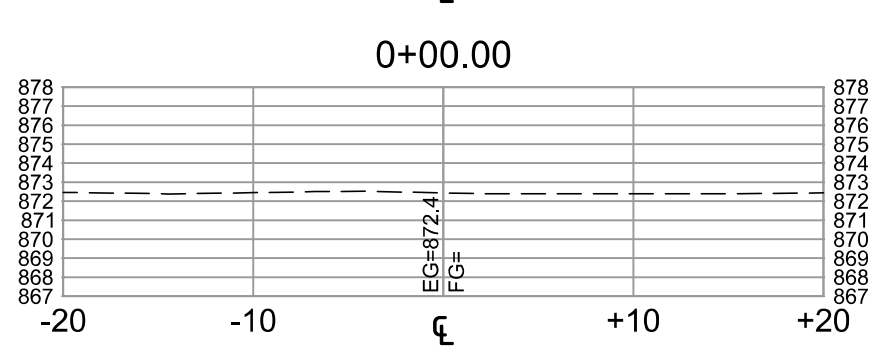
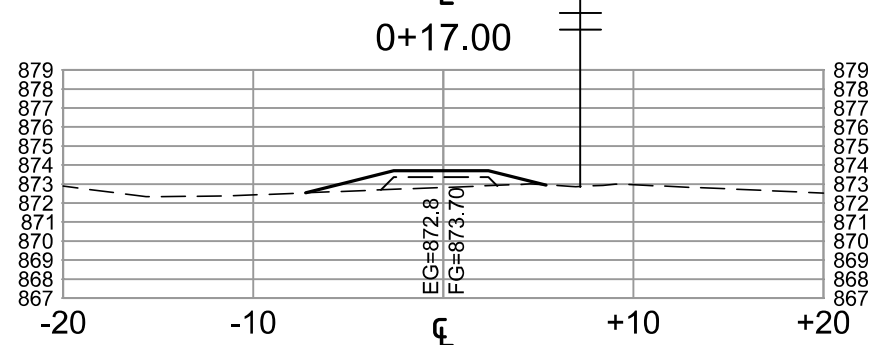
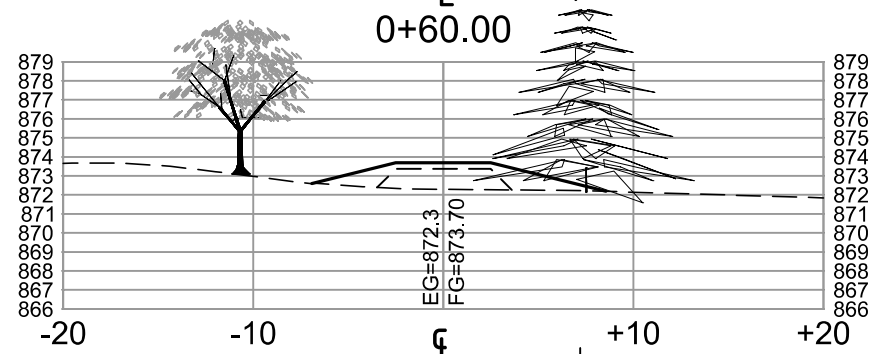
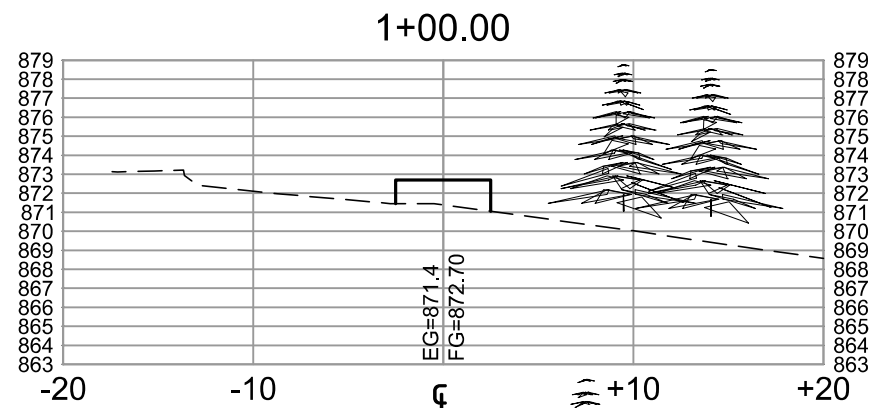


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IN ACCORDANCE WITH THE LAWS OF THE STATE OF MINNESOTA.
Blake A. Carlson
BLAKE A. CARLSON LIC. NO. 18914

DATE	REV	DESCRIPTION

DATE: JUNE 2020
SCALE: AS SHOWN
DRAWN BY: RRP
CHECKED BY: BAC
JOB NUMBER: 559C0042.00

THREATT RING DIKE
RED LAKE WATERSHED DISTRICT
ANDOVER TOWNSHIP
PROFILE SHEET



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IN ACCORDANCE WITH THE ENGINEERING ACT AND THE LAWS OF THE STATE OF MINNESOTA.
Blake A. Carlson
BLAKE A. CARLSON LIC. NO. 19814

DATE	REVISIONS	DESCRIPTION
JUNE 2020	AS SHOWN	
	RRP	
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DATE: JUN 2020
SCALE: AS SHOWN
DRAWN BY: RRP
CHECKED BY: BAC
JOB NUMBER: 559C0042.00

THREAT RING DIKE
RED LAKE WATERSHED DISTRICT
ANDOVER TOWNSHIP
CROSS SECTIONS

[APPLY](#)

POSITION: WATERSHED DIST. REP.

Board Of Water And Soil Resources

Position Description

Agency Contact

John Jaschke
NA
Unknown, MN 55155
john.jaschke@state.mn.us
(651) 296-0878

Members Holding this Position (3)

SEAT	MEMBER NAME	AUTHORITY	STATUS	TERM
Watershed Dist. Rep #1	Joseph Collins	Governor	Filled	05/20/2020 - 01/01/2024
Watershed Dist. Rep. #2	Jill Crafton	Governor	Filled	09/18/2019 - 01/02/2023
Watershed Dist. Rep. #3	Harvey Kruger	Governor	Filled (POSTED)	07/04/2018 - 01/03/2022

Position History (4)

Red Lake Watershed District - Administrators Report

February 11, 2021

Red River Watershed Management Board – LeRoy and I will be attending the RRWMB February 16, 2021 via Microsoft Teams. One item they are bringing back from their last meeting is to discuss the future of the Water Quality Funding. I have included in your packet at Red River Basin 2021 Spring Flood Outlook for your review. I have also included the Recommitment to the 1998 RR Basin Mediation Agreement signature page for your review. The RRFDWG asked all original signatories of the 1998 agreement to recommit to the agreement as there has been a large turnaround of employees over time and just wanted to assure all the agencies understand their role in the mediation agreement.

Clearwater River 1W1P – Corey and I attended a telephone conference Monday with BWSR staff and Project Coordinator Chester Power, Clearwater SWCD. The meeting was to discuss budget items and develop a workload for utilizing PTMapp in the upcoming plan now that Ashley is no longer working here. Options include using the material Ashley had accumulated and to budget time between Corey and Houston Engineer staff to complete the process. It was determined that no other Planning Workgroup meeting is needed prior to the upcoming Policy Committee meeting which will be held 1:00 pm Wednesday February 24, 2021. I believe the meeting will be virtual, with more information being made available soon.

Minnesota Pollution Control – I was asked by the MPCA a month or so ago to participate in their “Water Permitting Transparency Focus Group Meeting” held Friday February 5th at 9:00 am. The focus group meeting consisted of gathering various Local Units of Government (LGU) employees who typically use the MPCA general MS4 or Individual Permits. Some of the items discussed is why they require permits and what are the challenges, overview of the various water permitting processes, water quality standards and an overview of process for developing permits limits/conditions. Over-all I think the meeting went well and it was interesting to see what others felt on what MPCA is doing well and what could improve.

Red River 1W1P – There has been a Microsoft Teams meeting set for 1:00 Monday February 22nd to discuss the upcoming RCPP/BWSR funding agreement and if this is an option for 1w1p. It should be interesting to hear how this will work based on the lack of success we had on the Black River Impoundment funding.

Minnesota Association of Watershed District Administrators Meeting – There is a MAWA meeting today from 9:00 am to 2:00 pm. I will be attending that meeting as soon as we are done here. The MAWA Legislative Resolution Committee Meeting (subcommittee of MAWD) scheduled for tomorrow February 12th was canceled. We are looking for another date to hold that meeting.

Office Closed – Just to remind you that the office will be closed on February 15th for Presidents Day.



Red River and Devils Lake Basin - 2021 Spring Flood Outlook

Discussion Points 1/28/2021

prepared by

NWS - Weather Forecast Office, Grand Forks ND
NWS - North Central River Forecast Center, Chanhassen MN



This outlook is for the U.S. portion of the basin and is based on conditions through Tuesday, 1/26/2021. All graphics, probabilities, and related discussions are available at [weather.gov/fgf](https://www.weather.gov/fgf). The next update will be issued by 2/11/2021.

Bottom Line up Front!

- It's early, but... this outlook starts with a very low threat for *significant* snowmelt flooding, similar to spring 2018.

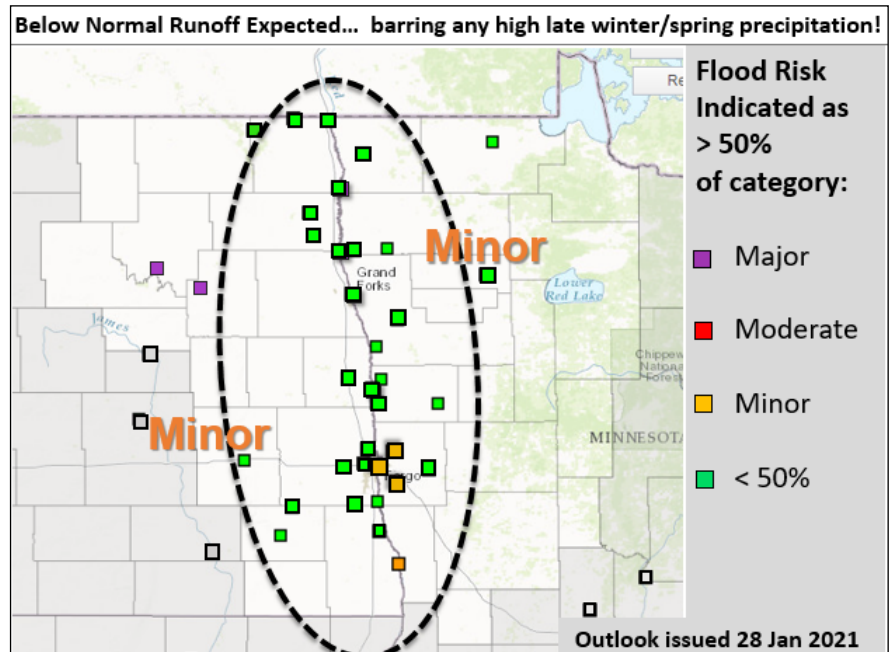
- Follows record wettest year in 2019, and Top Ten flooding in 2020. *But*, a dry late summer and fall period in 2020 has depleted any residual soil moisture or streamflow.

- Snowfall/SWE at mid-January was well below long term winter season normal amounts.

- Abnormally Dry to Moderate Drought conditions underlay the meager snowpack.

- Frost depths are near normal, as meager snowpack has allowed for deep frost penetration.

- Climate outlooks currently indicate an increased risk for near normal temperatures but a somewhat wetter late winter early spring period, which increases our risk for late season heavy snow or rainfall.



Long Story Short: The risk for significant snowmelt flooding is quite low, running below long-term historical averages across the Red River and Devils Lake Basins (U.S. portions).

Key Snowmelt Flood Components:

1. Base Streamflow: Near to somewhat below average for this time of year. USGS analyses indicate that the Red River and most of its ND and MN tributaries (south of Grafton-Argyle) are moderate ice covered and/or flowing at in the 25% -75% of normal ranges [link: <https://waterdata.usgs.gov/nwis/rt>]. Tributaries north of Grafton-Argyle at 25%.

2. Soil Moisture at Freeze-up: Near to below average across the Red River Basin, and well below average in the Devils Lake Basin. [Link: https://www.cpc.ncep.noaa.gov/products/Soilmst_Monitoring/US/Soilmst/Soilmst.shtml]

3. Frost Depth: Near normal. A mild early winter but with a very light and/or delayed snowcover has allowed for deep frost penetration in most areas. Frost depths range from 12 to 24 inches in most locations, with some lesser frost depths in upland areas on northwest MN, where snowpack was slightly higher. Lake/River ice thicknesses are somewhat less-than normal and are quite variable. [Link: https://www.weather.gov/ncrfc/LMI_FrostDepthMap]

4. Winter Snowpack/SWE: above normal. Since Dec 1st, snowfall runs from 25-75 percent of normal, SWE ranges from Trace to 2.0 inches - least across far eastern ND and the central-northern Red River Corridor. Highest in northcentral MN. [Link: <https://www.nohrsc.noaa.gov/nsa/>]

5. Along with our flood partners, we've developed a display graphic which relates the current flood outlook to our historical flood levels, now available for all our forecast locations! *Check it out at:* <https://www.weather.gov/fgf/PFOS>

DEVILS LAKE & STUMP LAKE... Long-Range Probabilistic Outlook
Valid January 25, 2021 - September 30, 2021

LOCATION	95%	90%	75%	50%	25%	10%	05%
CREEL BAY	1448.7	1448.7	1448.8	1448.9	1449.0	1449.4	1449.7
EAST STUMP LAKE	1448.7	1448.7	1448.8	1448.9	1449.0	1449.4	1449.7

The current heights of Devils Lake and Stump Lake are ~1448.56 ft. MSL.

Color code: Below Minor Moderate Major Flood of Record

RED RIVER AND TRIBUTARIES... Long-Range Probabilistic Outlook
Valid February 1, 2021 - May 2, 2021

LOCATION	95%	90%	75%	50%	25%	10%	05%
WAHPETON	8.8	9.3	10.1	11.1	12.1	14.1	14.3
HICKSON	16.4	19.2	20.8	23.9	27.0	32.0	33.6
FARGO	17.1	17.4	19.2	21.9	25.7	31.9	34.6
HALSTAD	11.6	12.2	16.1	18.9	24.5	31.3	36.0
GRAND FORKS	18.5	18.8	20.1	23.1	30.3	36.8	41.0
OSLO	13.3	14.0	17.2	22.1	29.7	33.9	35.0
DRAYTON	15.4	15.9	19.0	25.1	33.5	37.9	40.6
PEMBINA	18.6	20.0	23.0	29.1	35.7	42.3	45.9

Minnesota Tributaries:

South Fork Buffalo River.....							
SABIN	11.9	12.3	13.1	13.7	14.4	15.8	17.8
Buffalo River.....							
HAWLEY	4.6	4.8	5.6	6.4	7.9	8.6	9.6
DILWORTH	11.9	12.5	14.7	17.5	19.4	21.7	24.0
Wild Rice River.....							
TWIN VALLEY	3.9	4.0	4.4	5.6	6.4	7.3	8.9
HENDRUM	8.5	10.2	13.3	17.6	21.6	26.3	28.9
Marsh River.....							
SHELLY	4.8	5.1	5.8	7.4	10.2	15.0	19.8
Sand Hill River.....							
CLIMAX	5.7	5.8	6.7	7.8	11.2	15.8	20.4
Red Lake River.....							
HIGH LANDING	4.5	4.7	5.2	6.4	7.9	9.0	9.7
CROOKSTON	6.8	7.0	7.8	9.1	11.4	14.9	17.2
Snake River.....							
ABOVE WARREN	61.1	61.2	61.6	62.1	62.6	63.0	63.7
ALVARADO	96.7	96.9	97.4	98.4	100.0	101.6	102.2
Two Rivers River.....							
HALLOCK	795.8	796.4	797.4	798.3	800.7	803.5	805.6
Roseau River.....							
ROSEAU	6.3	6.5	6.9	7.5	8.7	10.6	11.5

North Dakota Tributaries:

Wild Rice River.....							
ABERCROMBIE	3.3	3.9	5.5	8.3	11.2	16.7	20.2
Sheyenne River.....							
VALLEY CITY	4.7	4.7	4.7	5.2	6.0	7.5	9.3
LISBON	3.4	3.4	3.7	4.5	5.9	10.0	13.6
KINDRED	4.0	4.0	4.7	7.2	9.0	14.8	18.6
WEST FARGO DVRSN	8.6	8.6	8.7	9.4	10.9	15.0	18.8
HARWOOD	71.2	71.2	72.0	76.0	79.0	84.9	90.8
Maple River.....							
ENDERLIN	1.6	1.6	3.9	6.2	7.5	9.8	11.2
MAPLETON	8.2	9.5	11.1	14.7	18.1	21.1	22.2
Goose River.....							
HILLSBORO	1.8	1.8	1.8	2.7	3.5	4.3	4.6
Forest River.....							
MINTO	1.4	1.5	1.7	2.1	2.9	4.1	6.2
Park River.....							
GRAFTON*	7.4	7.4	7.6	7.9	8.5	9.2	9.6
Pembina River.....							
WALHALLA	1.5	1.7	2.3	3.0	4.2	5.7	6.3
NECHE	2.5	2.6	3.5	4.8	7.3	9.9	11.1

Notes

1. Devils Lake Basin Runoff Risk is low. An additional rise of half a foot is expected (75% to 25% risk range). A ½ to 1 ft. rise on Devils Lake is considered about normal.

Note: Devils Lake is currently about half a foot lower than this time last year.

2. Red River Basin Flood Risk is overall quite low. All Red River main-stem points may see somewhat below normal spring runoff/flows.

- near to below normal soil moistures, near normal frost depths.

- coupled with low winter snowpack and SWE to date.

- potentially delayed thaw cycle.

3. Below normal snowpack and runoff potential is evident in most all MN tributaries.

Near to below normal soil moisture and low to very low snowpack throughout west-central and northwest MN.

4. ND tributaries have an even lower overall runoff potential, especially across east-central and northeast ND.

Mid and Upper Sheyenne basin soils are quite dry, with very little snowpack.

Lower Sheyenne through east-central ND tribs have less dry soils and a light snowpack.

Northeast ND is generally dry soils and very low snowpack.

Note: Reduced risk expected for areas now protected by new Grafton Bypass!

**Recommitment to 1998 Red River Basin Mediation Agreement as Amended
January 2021**

State Officers

By their signatures, the executive officers of Minnesota state agencies named below reaffirm the State's commitment to implementing the 1998 Red River Mediation Agreement, amended by Addendum No. 1 in December 2020. State actions will continue to be guided by the Memorandum of Understanding among the agencies dated June 2013.

Department of Natural Resources

Commissioner Sarah Strommen



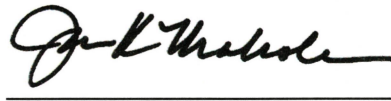
Department of Agriculture

Commissioner Thom Petersen



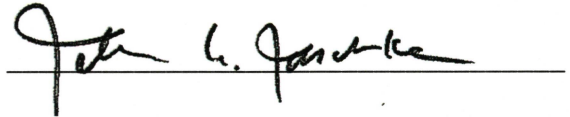
Department of Health

Commissioner Jan Malcolm



Board of Water and Soil Resources

Executive Director John Jaschke



Pollution Control Agency

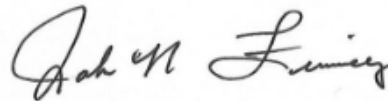
Commissioner Laura Bishop



Red River Watershed Management Board Officers

By their signatures, the officers of the Red River Watershed Management Board named below reaffirm the Board's commitment to implementing the 1998 Red River Mediation Agreement as amended by Addendum No. 1 in December 2020.

President John Finney



Vice-President Greg Holmvik

