

# RED LAKE WATERSHED DISTRICT

September 24, 2020

Agenda  
9:00 a.m.

9:00 a.m.	Call to Order	Action
	Review and approve agenda	Action
	Requests to appear	Information
	September 10, 2020 Minutes	Action
	Financial Report dated September 23, 2020	Action
	Investment Summary/CD Maturing	Info./Action
	BR 6 Wildlife Pool Structure Replacement, RLWD Proj. No. 43A-Bid	Info./Action
	Black River Impoundment, RLWD Project No. 176	
	Funding	Information
	Land Rental	Action
	Geotechnical Quotes	Action
	Utilities	Action
9:30 a.m.	Bid Opening-Black River Impoundment, RLWD Project No. 176	Info./Action
	Ditch 16, RLWD Project No. 177-Pay Estimate No. 8	Action
	Ditch 17, Imp. to Polk County Ditch 39, RLWD Project No. 179	Information
	Thief River Falls Westside FDR Project, RLWD Project No. 178	Information
	Pay Estimate No. 10	Action
	Ditch 10, RLWD Proj. No. 161-Outlet Repair-FEMA Funding Extension	Information
	Pine Lake Project Work Team Recommendation	Info./Action
	Moose River Impoundment, RLWD Project No. 13	Information
	Inter-pool Structure Operation	
	JD 72, RLWD Project No. 41-Redetermination of Benefits	Information
	JD 4, RLWD Project No. 101 – Abandonment	Information

Red Lake SWCD-RLWD Erosion Control Funds, RLWD Proj. 164 Ray Delorme, Gervais Township Dave Ste Marie, Terrebonne Township Ralph Perreault, Gervais Township	Info./Action Action Action Action
RLWD Permit No. 20052, Tim Chaput	Info./Action
Permits: No. 20188, 20205, 20209,20212,20218-20230, 20239	Action
Administrators Update	Information
Legal Counsel Update	Information
Managers' updates	Information
Adjourn	Action

UPCOMING MEETINGS

October 8, 2020	RLWD Board Meeting, 9:00 a.m.
October 20, 2020	RRWMB Meeting, Ada, 10:00 a.m.
October 22, 2020	RLWD Board Meeting, 9:00 a.m.
November 12, 2020	RLWD Board Meeting, 9:00 a.m.

RED LAKE WATERSHED DISTRICT  
Board of Manager's Minutes  
September 10, 2020

**DRAFT**

Vice President Gene Tiedemann called the meeting to order at 9:00 a.m. at the Red Lake Watershed District Office, Thief River Falls, MN.

Present in person: Gene Tiedemann, Terry Sorenson, Allan Page, LeRoy Ose, Brian Dwight, and Les Torgerson. Absent: Dale M. Nelson. Staff Present: Myron Jesme and Tammy Audette and Legal Counsel, Delray Sparby.

The Board reviewed the agenda. Manager Torgerson noted that the Pine Lake Project Team meeting will be held on September 18, 2020 at 9:30 a.m. at the District office. Motion by Dwight, seconded by Torgerson, and passed by unanimous vote that the Board approve the agenda. Motion carried.

The Board reviewed the August 27, 2020 minutes. Motion by Sorenson, seconded by Ose, to approve the August 27, 2020 Board meeting minutes as presented. Motion carried.

The Board reviewed the Financial Report and Investment Summary dated September 9, 2020. Motion by Page, seconded by Sorenson, and passed by unanimous vote to approve the Financial Report and Investment Summary dated September 9, 2020 as presented.

Staff member Arlene Novak indicated that the premiums for District's dental insurance did not change from the 2020 plan year. Health insurance premiums did increase by 4.8%, which will take effect January 1, 2021. Novak indicated that staff members will meet on September 14, 2020, to review various health insurance plans.

The 2021 Proposed Special Revenue Project levies were presented by Administrator Jesme, staff members Arlene Novak and Christina Slowinski, and discussed by the Board. Questions regarding different ditch systems were fielded. Motion by Ose, seconded by Torgerson, to approve the following Special Revenue Assessments for 2021: RLWD Ditch No. 1, RLWD Project No. 5, \$8,000; RLWD Ditch No. 3, RLWD Project No. 7, \$3,000; RLWD Ditch No. 7, RLWD Project No. 20, \$3,000; Pine Lake Maintenance, RLWD Project No. 35, \$7,000; RLWD Ditch No. 8, RLWD Project NO. 36, \$1,000; RLWD Ditch No. 9, RLWD Project No. 39, \$2,000; J.D. No. 72, RLWD Project No. 41, \$9,000; Burnham Creek, RLWD Project No. 43B; \$20,000; J.D. 2, Branch A & B, RLWD Project No. 48, \$1,000; J.D. 2B & C, RLWD Project No. 49, \$2,000; Krostue Petition, RLWD Project No. 53, \$3,500; J.D. 5 (Four-Legged Lake), RLWD Project No. 102, \$2,200; Arveson Petition, RLWD Project No. 109, \$2,500; RLWD Ditch 1, Lateral C, RLWD Project No. 115, \$4,000; Kenneth Johnson Petition, RLWD Project No. 117, \$2,000; Polk County Ditch Improvement, RLWD Project No. 119, \$10,000; Challenger Ditch, RLWD Project No. 122, \$2,000; Scott Baatz Petition, RLWD Project No. 123, \$1,000; Polk County Ditch 33, RLWD Project No. 135, \$3,000; RLWD Ditch No. 10, RLWD Project No. 161, \$2,500; RLWD Ditch No. 12, RLWD Project No. 169, \$20,000; RLWD Ditch No. 13,

RLWD Project No. 170A, \$2,000; RLWD Ditch No. 14, RLWD Project No. 171, \$7,000; and TRF FDR Project, RLWD Project No. 171A, \$1,000. Motion carried.

The Board reviewed Pay Estimate No. 7 in the amount of \$106,727.23 to Burski Excavating, Inc., for construction of RLWD Ditch 16, RLWD Project No. 177. Motion by Sorenson, seconded by Page, to approve Pay Estimate No. 7 to Burski Excavating, Inc., in the amount of \$106,727.23 for construction of RLWD Ditch 16, RLWD Project No. 177. Motion carried. Engineer Jerry Pribula, Pribula Engineering, Inc., discussed construction activity, and the need to change gravel suppliers. The Board reviewed a letter from Attorney Mark A. Grainger, representing landowner Mark Holy, stating that the District does not have authority to enter upon Mr. Holy's property for construction of Ditch 16, as the District has not acquired interest in the land. Legal Counsel Sparby reviewed the Property Owners Report sent to Mr. Holy prior to the final hearing, stating that the report was very close to what the assessment will be. Sparby referenced Minnesota State Statute 103E.515, that states, awarded damages to be paid, less any assessment against the property, before the property is entered for construction of the drainage project. Since Mr. Holy's damages were less than his assessment to the property, damages were taken from the assessment with the remainder to be put on the lien set up by the County. The property owner's report information is in the hands of the Polk County Auditor. Sparby will draft a letter to Mr. Grainger.

The Board reviewed Pay Estimate No. 9 in the amount of \$328,127.82 to R.J. Zavoral and Sons, Inc. for construction of the Thief River Falls Westside Flood Damage Reduction Project, RLWD Project No. 178. Motion by Ose, seconded by Page, to approve Pay Estimate No. 9 in the amount of \$328,127.82 to R.J. Zavoral and 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., reviewed Change Order No. 5 in the amount of \$30,000 for the moving of excavated material. Motion by Torgerson, seconded by Page, to approve Change Order No. 5, in the amount of \$30,000 to R.J. Zavoral & Sons, for construction of the Thief River Falls Westside Project, RLWD Project No. 178. Dalager stated that Change Order No. 6 is for the removal of a box culvert on 6<sup>th</sup> Street, to be replaced with a 24" RC Pipe, in the amount of \$39,328.00. Dalager indicated that when working around 6<sup>th</sup> Street, the wingwalls were caving in, making for unsafe conditions. Discussion was held on Pennington County using maintenance funds to pay for replacement of the box culvert, since it is in their jurisdiction. Motion by Sorenson, seconded by Ose, to approve Change Order No. 6 in the amount of \$39,328.00, for replacement of the box culvert on 6<sup>th</sup> Street, to R.J. Zavoral & Sons, for construction of the Thief River Falls Westside Project, RLWD Project No. 178 and request assistance for the costs from Pennington County. Dalager reviewed a draft letter he proposed to be submitted to R.J. Zavoral & Sons, Inc., regarding their request for an extension of time for substantial completion and final completion dates. When the request for an extension was submitted, the District took it under advisement. Dalager stated that the project partners met this week to discuss where to go from here with the project. Administrator Jesme stated that the project was supposed to be substantially completed by September 15, 2020, with final completion on October 15, 2020. Dalager indicated his recommendation was to give R.J. Zavoral & Sons, Inc. until October 1<sup>st</sup> to substantially complete the project. R.J. Zavoral & Sons, Inc., request was to shift the dates back two weeks. Dalager and Mark Borseth and Wayne



Johnson, representing the City of Thief River Falls, discussed their concerns that the project will not be finished by the deadline dates. Johnson discussed replacement of the force main that will run parallel to the storm sewer. Discussion was held on the decision of the Contractors to not complete the outlet end of the project, prior to moving upstream. R.J. Zavoral & Sons, Inc., have moved most of their construction crew out to the Highway 1 project. Johnson stated that at the weekly update meeting, R.J. Zavoral & Sons, Inc. indicated that they would have the force main completed within two weeks. The force main needs to be completed so that the contractor on the pond project can lower the old main north of County Road 62. Johnson stated that the contractor needs to submit a schedule as to how this will be completed. Concern was expressed about the completion of the ditch along Greenwood Street and the Pioneer Village. Currently the ditch slopes are vertical, and if a large rain event would occur, it could jeopardize the road and the Pioneer Village property. Jesme reminded the Board, that the request for a two-week extension may have to do with rain days. There was considerable discussion that rainfall events were not that abnormal and that sequencing of the project by R.J. Zavoral & Sons may have been a bigger problem than rainfall events. Dalager stated if the Board approves the extension, liquidated damages could be assessed on October 1, 2020. Dalager stated that the letter acknowledges the extension as accepted but puts them on notice for the October 1<sup>st</sup> deadline. The letter also indicates what absolutely must be completed, and that they are out of compliance on their storm water permit. Borseth questioned if the District would consider extending their substantial completion date, but not the final completion date. Motion was made by Manager Ose, to grant an extension to R.J. Zavoral & Sons, Inc. for construction of the Thief River Falls Westside Project, RLWD Project No. 178. Motion died for a lack of a second. Further discussion was held on assessment of liquidated damages. Dwight indicated that if they have pulled off our site to work on TH#1 overlay and culvert installation, why would we then grant them an extension on our project? Motion by Ose, seconded by Dwight, to deny the request of R.J. Zavoral & Sons, Inc., for a project completion extension, and that an assessment of applicable damages for anything not substantially completed by September 15, 2020 may be applied and is being taken under advisement by the Board. Motion carried. Dalager stated that he will ask for a meeting with the Contractor and all partners involved in the project.

Administrator Jesme stated that although the District did not officially receive an Appeal for the Improvement to Polk County Ditch #39, RLWD Ditch #17, RLWD District 179, there was an Appeal sent for filing with the Polk County Auditor for the Improvement to Polk County Ditch 39, RLWD Project No. 179. Upon the termination of the 30-day appeals period, Legal Counsel Sparby will review the document sent for filing with the Polk County Auditor

Engineer Tony Nordby, Houston Engineering, Inc., stated that advertisement for the construction of the Black River Impoundment, RLWD Project No. 176, is taking place. A pre-bid meeting will be held this afternoon. Currently there are 15 prime bidders that have downloaded the plans and specifications. Discussion with the utility companies is taking place. Deadline for quotes for the geotechnical testing is September 17, 2020. Discussion was held on the purchase of right-of way from the church, and removal of the trees. Administrator Jesme is working on easements for the diversion ditches and the template of the dike. Legal Counsel Sparby will prepare easements for landowners Scott and Dorinda Sorvig.

Engineer Tony Nordby, Houston Engineering, Inc., submitted a letter to Administrator Jesme regarding an extension of time for the funding from FEMA for repairs to the outlet of Ditch 10, RLWD Project No. 161. Nordby stated that due to it being late in the year and current construction prices, bidding the project would be a tight window, and recommended that we hold off on construction until next Spring. Jesme stated that he spoke with one of the landowners at the outlet and he would like to see construction next Spring. Staff member Christina Slowinski will submit an extension request for funding through FEMA. It was the consensus of the Board, to wait until the Spring of 2021 for construction, conditioned upon FEMA approval of the funding extension.

Engineer Jeff Langan, Houston Engineering, Inc., discussed the inspection he completed on the south pool of the Moose River Impoundment, RLWD Project No. 13, regarding concerns District staff had regarding structural changes. Langan stated that he did not see any further damages or concerns at this time, recommending repairs to the structure within the next 2-4 years. Langan gave a general summary of repairs to be made to restore the initial intent of the project. An inspection sheet will be completed for District staff to use while documenting the project and what to monitor on the structures.

Staff member Christina Slowinski contacted Robin Brekken, Hammond Township, regarding the replacement of culverts referred to as the Hanson Crossing, on the Burnham Creek Project, RLWD Project No. 43B. Mr. Brekken indicated that the township has filed a request with Polk County for bridge funds for the project. Hammond Township did question who will pay for the required cost share.

District staff have completed the survey and plans for property owned by Ron Salentine for modifications to the Brandt Impoundment, RLWD Project No. 60D. The plans include knocking down of a portion of the spillway, placement of a berm, and removal of trees. Engineer Nate Dalager, HDR Engineering, Inc., will review the plans for approval.

Staff member Nick Olson discussed Ditch 15, RLWD Project No. 175, as it relates to RLWD Permit No. 20-185, landowners Gary Pulkrabek and Dacian Bienek. Olson stated that the landowners wish to clean the ditch and increase the culvert sizes, which would require the culvert that goes into Ditch 15 through the spoil bank to be increased. Olson stated that the culvert that is in-place was sized for what the flow rates were at the time of the establishment of the drainage system. However, the petition will increase flows thus resulting in the existing culvert to be inadequate in size. The landowners are requesting the ditch system pay for the increase of culvert through the spoil bank. Motion by Ose, seconded by Torgerson, to approve allocating funds from Ditch 16, RLWD Project No. 175, for replacement of the culvert through spoil and to size in accordance to petition request. Motion by Ose, seconded by Dwight, to approve RLWD Permit No. 20-185, Gary Pulkrabek/Dacian Bienek, Euclid Township, Polk County, with conditions stated on the permit. Motion carried.

Motion by Sorenson, seconded by Dwight, to table RLWD Permit No. 20-159 and No. 20-160, Gary Pulkrabek and Dacian Bienek, Euclid Township Polk County. Motion carried.

Motion by Torgerson, seconded by Page, to grant a one-year extension for RLWD Permit No. 19-181, Wayne Vettleson, Equality Township, Red Lake County. Motion carried.

Motion by Page, seconded by Sorenson, to grant a one-year extension for RLWD Permit No. 2019-129, Tim Chaput, Lake Pleasant Township, Red Lake County. Motion carried.

Motion by Sorenson, seconded by Dwight, to amend RLWD Permit No. 20-104, KAM Farmland Holdings, GP, Badger Township, Polk County, per conditions stated on the permit. Motion carried.

The Board reviewed the permits for approval. Motion by Torgerson, seconded by Ose, to approve the following permits with conditions stated on the permit: No. 20-195, Marshall County Highway Department, Agder Township, Marshall County; No. 20-198, Pennington County Highway Department, Reiner Township, Pennington County; No. 20-199, Jeremiah Johnson, Garnes Township, Red Lake County; No. 20-200, Jeremiah Johnson, Lambert Township, Red Lake County; No. 20-201, Charles Kiesow, Moylan Township, Marshall County; No. 20-202, Pete Cielinski, Sullivan Township, Polk County; No. 20-203, BNSF Railway Company, Fanny Township, Polk County; No. 20-204, BNSF Railway Company, Euclid Township, Polk County; No. 20-210, Marshall County Highway Department, Thief Lake Township, Marshall County; No. 20-211, Jim Reitmeier, Fanny Township, Polk County; No. 20-213, Scott Vonasek, Northland Township, Polk County; 20-215, Jim Knott, Black River Township, Pennington County; and, No. 20-217, Kyle Stromstad, Onstad Township, Polk County. Motion carried.

The Board reviewed changes to the District's COVID-19 Preparedness Plan. Motion by Torgerson, seconded by Page, to approve the District's COVID-19 Preparedness Plan as submitted. Motion carried.

Administrator Jesme discussed the Scott Baatz Petition, RLWD Project No. 123, that drains into the Burnham Creek Project, RLWD Project No. 43B. Jesme stated that a landowner wishes to have a 48" culvert that goes under the township road extended. Staff member Christina Slowinski informed the landowner that after construction of the project, jurisdiction of the culvert goes back to the township. Slowinski stated that the culvert was not replaced during construction, and no damages were awarded to the township. It was the consensus of the Board, that the township has jurisdiction over the culvert and if they want to extend the culvert, that is up to the township and landowner to address.

#### Administrators Update:

- Jesme will attend the September 15, 2020 RRWMB meeting via WebEx. The District's Water Quality Funding Agreements are on the agenda for approval.
- Jesme will participate in a Red Lake River 1W1P PWG meeting on September 17, 2020 and a Policy Committee meeting on October 21, 2020 at the District office.
- Bids for the BR-6 Wildlife Habitat Impoundment structure replacement will be opened at the District office on September 22<sup>nd</sup> and presented to the Board at the September 24<sup>th</sup> meeting.

- A Pine Lake Project Work Team meeting will be held on September 18, 2020 via WebEx or in-person.

Manager Sorenson discussed the beaver dams upstream of Pine Lake. Administrator Jesme stated that the Project Work Team will look at existing streams going into the lake and what is the present inflows.

Legal Counsel Sparby completed a cursory review of the appeal to the Improvement to Polk County Ditch 39, RLWD Project No. 179. Sparby indicated he will discuss with Attorney John Kolb but feels we should send some type of reply to some of the assertions contained in the Appeal.

Legal Counsel Sparby stated that he has not heard any decision from the courts on the JD 5/Four-Legged Lake Project, RLWD Project No. 102.

Manager Tiedemann asked about repairs to the berm near the Parnell Impoundment, RLWD Project No. 81. Administrator Jesme stated that he has informed staff member Nick Olson regarding the matter.

Manager Torgerson asked if the Little Pine Lake Project, RLWD Project No. 26A, had been operated this summer. Administrator Jesme stated that he was not aware that it had been operated. Jesme did indicate that with the retirement of Dave Rave from the Minnesota Department of Natural Resources (DNR), he will have discussion with the DNR to assure new staff are comfortable with the operating plan and to assure they still want to operate the structure or request that the District operate the impoundment under DNR supervision.

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

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LeRoy Ose, Secretary

**RED LAKE WATERSHED DISTRICT**  
**Financial Report for September 23, 2020**

<b>Ck#</b>	<b>Check Issued to:</b>	<b>Description</b>	<b>Amount</b>
online	EFTPS	Withholding for FICA, Medicare, and Federal taxes	4,219.63
online	MN Department of Revenue	Withholding taxes	753.75
online	Public Employees Retirement Assn.	PERA	2,667.21
38409	Burski Excavating, Inc.	Pay estimate #7, RLWD Ditch 16	106,727.23
38410	Ameripride Services Inc.	Office rug rental	45.39
38411	Tammy Audette	Clean offices in August	320.00
38412	Blue Sky Blading	Mow Moose River Impoundment and Mud River	4,000.00
38413	Cenex Credit Card	Gas for vehicles	110.73
38414	Corporate Technologies	Monthly managed IT services and MS Office 365	1,085.00
38415	David Dalager	Mileage for Pine Lake meeting	59.80
38416	Emmons & Olivier Resources	Domain name renewal for water quality website	144.00
38417	Erskine Echo	2021 General Fund budget hearing ad	73.80
38418	Farmers Union Oil Company	Gas for vehicles	541.77
38419	Further	FSA account fees (2 months)	23.60
38420	HDR, Inc.	*See below for explanation-engineering and construction	67,588.73
38421	Houston Engineering, Inc.	** See below for explanation	18,062.25
38422	Hubert's Outdoor Power	Chain saw sharpening, chain oil and fuel stabilizer	53.43
38423	Hugo's #7	Meeting, water quality, sanitizing, and bldg.maint. supplies	162.83
38424	Jag Towing Service	Tow vehicle and trailer to Thiberts	450.00
38425	Voided		-
38426	Marco	Annual M-Files fee	2,505.00
38427	Marshall & Polk Rural Water	Water relocation for RLWD Ditch 16	1,057.00
38428	Minnesota Northern Railroad	TRF Westside Project-reimbursable by City of TRF	22,558.00
38429	Arlene Novak	Reimburse for Project Work Team meeting expense	22.44
38430	Northwest Beverage, Inc.	H2O for office	33.75
38431	Oil Boyz Express Lube	Oil change on 2019 Chev. Pickup	78.21
38432	LeRoy Ose	Mileage	226.57
38433	Quill Corporation	Copy paper,garbage bags, Command hooks,mouse pads	183.10
38434	Rinke Noonan	Monthly retainer (\$200) & RLWD Ditch 17 hearing(\$1002.50)	1,202.50
38435	RMB Environmental Laboratories	Lab analysis of water quality samples	3,684.00
38436	Speedee Delivery	Overnight delivery of water quality samples	19.99
38437	Sun Life Financial	Life insurance premium	144.64
38438	Robert Wagner	Viewers fees and expenses-RLWD Ditch 17	2,135.04
38439	Larson Helicopters, LLC	*** See below for ditch systems sprayed for cattails and brush	15,571.20
38440	Marco	Monthly telephone expense	342.53
38441	R.J.Zavoral and Sons, Inc.	Pay estimate #9, TRF Westside FDR Project	328,127.82
direct	Al Page	Mileage	59.80
online	Cardmember Services	****See below for explanation	636.85
online	Further	Medical FSA	264.97
online	Aflac	Staff paid insurances	890.64
	<b>Payroll</b>		
	Check #12047-12056 & 7457		14,805.90
	<b>Total Checks</b>		<u>\$ 601,639.10</u>

<b>* HDR, Inc.</b>	
Proj. 26 Pine Lake	22,735.52
Proj. 43A Burnham Creek BR6	9,621.29
Proj. 60D Brandt Impoundment upda	241.25
Proj. 178 TR Westside FDR	<u>34,990.67</u>
<b>Total</b>	<b>67,588.73</b>

<b>** Houston Engineering, Inc.</b>	
Proj. 13 Moose River-field insp.	2,080.00
Proj. 164 -Erosion Control-Ditch 10	3,781.50
Proj. 176 Black River Imp.-bid docs,e	<u>12,200.75</u>
<b>Total</b>	<b>18,062.25</b>

<b>*** Larson Helicopters LLC</b>	
Cattail spraying:	
Proj. 5 RLWD Ditch 1	875.00
Proj. 20 RLWD Ditch 7	507.50
Proj. 36 RLWD Ditch 8	700.00
Proj. 41 JD 72	1,925.00
Proj. 43B Burnham Creek	465.50
Proj. 48 Br. A & Br. 1 of JD #2	129.50
Proj. 49 Main JD #2	70.00
Proj. 60C Euclid East Impoundment	283.50
Proj. 60D Brandt Impoundment	871.50
Proj. 115 Equality/RLWD Ditch 1,C	434.00
Proj. 117 Johnson Petition	490.00
Proj. 119 Polk Co. Ditches Improv.	955.50
Proj. 135 Polk Co. Dt. 33 Improv.	1,505.00
Proj. 161 RLWD Ditch 10	1,232.00
Proj. 169 RLWD Ditch 12	1,001.00
Proj. 170A RLWD Ditch 13	675.50
Proj. 171 Improv. To Penn.Co. 1	<u>1,193.50</u>
Cattail spraying total	13,314.00
Brush spraying:	
Proj. 13 Moose River Impoundment	1,485.00
Proj. 39 RLWD Ditch 9	371.25
Proj. 169 RLWD Ditch 12	49.50
Proj. 171 RLWD Ditch 14	<u>351.45</u>
Brush spraying total	<u>2,257.20</u>
<b>Total</b>	<b><u>15,571.20</u></b>

<b>**** Cardmember Services</b>	
AT&T-cell phone exp. & phone pymts	409.11
Abraxis-blue green algae test strips	185.00
Amazon-camera tripod	42.74
<b>Total</b>	<b>636.85</b>

## Banking

### Northern State Bank

Balance as of September 9, 2020	\$ 114,842.91
Total Checks Written	(601,639.10)
Receipt #989824 Transfer in from American Federal Bank	450,000.00
Receipt #989827 State of MN/Federal-90% of FEMA funds for RLWD Ditch 10	82,302.54
Balance as of September 23, 2020	<u>\$ 45,506.35</u>

Current interest rate is .20%

### American Federal Bank-Fosston

Balance as of September 9, 2020	\$ 4,062,343.65
Receipt #989824 Transfer to Northern State Bank	(450,000.00)
Receipt #989825 Beltrami County-Volstead lands (PILT)	685.32
Receipt #989826 Polk County-TIF payment	160.50
Balance as of September 23, 2020	<u>\$ 3,613,189.47</u>

Current interest rate is .75%

Red Lake Watershed District  
as of September 23, 2020

<u>Name of Institution</u>	<u>Purchase/ Current Value</u>	<u>Int. Rate</u>	<u>Mat. Date</u>	<u>*Maturity Amount</u>
10010 Northern State Bank (checking)	\$ 45,506.35	0.20%		\$ 45,506.35
10030 American Federal Bank Fosston	\$ 3,613,189.47	0.75%		\$ 3,613,189.47
10710 CDARS-Poppy Bank & Park Nat'l Bank (int.pd monthly via check)	\$ 200,000.00	2.50%	10/1/2020	\$ 200,000.00 *
10740 Unity Bank-Red Lake Falls Interest paid quarterly	\$ 200,000.00	0.84%	7/31/2021	\$ 201,680.00
	<b><u>\$ 4,058,695.82</u></b>			<b><u>\$ 4,060,375.82</u></b>

**\*Interest quotes from Unity Bank-CDARS**

6 months	0.64%
12 months	0.69%

Interest quotes from Unity Bank-in-house

6 months	0.54%
12 months	0.59%



## BR-6 Wildlife Pool Structure Replacement-RLWD Project No. 43A

## Bid Tab

September 22, 2020 - 9:30 a.m.

					Engineers Estimate		Swingen Construction Company	
		ITEM DESCRIPTION	UNITS	QTY	Unit Cost	Cost	Unit Cost	Cost
1	2021	Mobilization	LS	1	\$ 26,000.00	\$ 26,000.00	\$ 35,000.00	\$ 35,000.00
2	2573	Dewatering	LS	1	\$ 7,500.00	\$ 7,500.00	\$ 9,000.00	\$ 9,000.00
3	2104	Remove Existing Structure	EACH	1	\$ 5,960.00	\$ 5,960.00	\$ 10,000.00	\$ 10,000.00
4	2105	Common Excavation (CV)	CU.YD.	350	\$ 3.50	\$ 1,225.00	\$ 22.00	\$ 7,700.00
5	2411	Water Control Structure	LS	1	\$ 75,000.00	\$ 75,000.00	\$ 53,700.00	\$ 53,700.00
6	2511	Random Riprap, Type 1	CU.YD.	15	\$ 82.20	\$ 1,233.00	\$ 200.00	\$ 3,000.00
7	2511	Random Riprap, Type III	CU.YD.	30	\$ 76.00	\$ 2,280.00	\$ 500.00	\$ 15,000.00
8	2575	Turf Establishment	LS	1	\$ 3,500.00	\$ 3,500.00	\$ 10,000.00	\$ 10,000.00
9	2573	Storm Water Management	LS	1	\$ 500.00	\$ 500.00	\$ 5,000.00	\$ 5,000.00
Total						\$ 123,198.00		\$ 148,400.00



**Table 1 - Estimate of Services  
Black River Impoundment  
Red Lake Watershed District Project #176**

	Estimated Units	Unit Cost	Estimated Fee
<b><i>Observation and Testing Services Soils</i></b>			
Senior Technician	25	\$70.00 per hour	\$1,750.00
Density Test of Soil	100	\$25.00 per test	\$2,500.00
Standard Proctor (ASTM D-698)	12	\$110.00 per test	\$1,320.00
Sieve Analysis: 1-1/2" to #200 & wash (ASTM C-136, C-117)	10	\$110.00 per test	\$1,100.00
Trip Charge - Senior Technician / Technician	20	\$100.00 per trip	\$2,000.00
			<b>\$8,670.00</b>
<b><i>Testing Services for Concrete Reinforcement and Concrete Construction</i></b>			
Senior Technician (proptie of plastic concrete and cast cylinders)	10	\$70.00 per hour	\$700.00
Cylinder Compressive Strength (ASTM C-39) - cast by NTI Includes Breaking and Reporting	20	\$17.00 per cylinder	\$340.00
Trip Charge - Senior Technician / Technician	10	\$100.00 per trip	\$1,000.00
			<b>\$2,040.00</b>
<b><i>Summary of Services</i></b>			
Observation and Testing Services for Soil			\$8,670.00
Testing Services for Concrete Reinforcement and Concrete Construction			\$2,040.00
<b>RESULTANT</b>			<b>\$10,710.00</b>

**Proposal for Construction Materials Testing Services**  
 Black River Impoundment Project ■ Pennington County, Minnesota  
 September 11, 2020 ■ Terracon Proposal No. PM5201124



<b>Detailed Cost Schedule</b>	<b>Office Code</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate</b>	<b>Subtotal</b>
Moisture-Density Relations of Soil (Standard Method) (ASTM D 698)	2039	12	each @	\$176.00	\$2,112.00
Sieve analysis thru #200 (ASTM C117 and C136)	3032	10	each @	\$136.00	\$1,360.00
Field Density Tests (Nuclear Method) (ASTM D6938)	1634	100	each @	\$30.00	\$3,000.00
Standby time	1225		hour @	\$88.00	\$0.00
Technician to Test Plastic Concrete & Cast Flexural and Compressive Strength Specimens	1235	15	hour @	\$88.00	\$1,320.00
Cure, Test and Report 4" x 8" Concrete Cylinders	3377	40	each @	\$22.00	\$880.00
Daily Trip Charge	1620	30	trip @	\$275.00	\$8,250.00
			<b>Estimated Subtotal</b>		<b>\$16,922.00</b>
<b>Project Management</b>					
Project Management	1155	4	hours @	\$125.00	\$500.00
Project Engineer	1120		hours @	\$180.00	\$0.00
			<b>Estimated Subtotal</b>		<b>\$500.00</b>
<b>Estimated Total:</b>					<b>\$17,422.00</b>



The Science You Build On.

# Project Proposal

QTB126449

Black River Impoundment - RLWD Project #176

**Client:**

Red Lake Watershed District  
1000 Pennington Ave S  
Thief River Falls, MN 56701

**Work Site Address:**

Saint Hilaire, MN

**Service Description:**

Construction Materials Testing Services

Description		Quantity	Units	Unit Price	Extension
<b>Phase 1</b>					
<b>Soil</b>					
<b>Activity 1.1</b>	<b>Soil Observations and Testing</b>				<b>\$16,752.00</b>
207	Compaction Testing - Nuclear	90.00	Hour	77.00	\$6,930.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	Embankment	15.00	Trips	6.00	90.00
1308	Nuclear moisture-density meter charge, per hour	90.00	Each	10.00	\$900.00
1861	CMT Trip Charge	17.00	Each	280.00	\$4,760.00
209	Sample pick-up	10.00	Hour	77.00	\$770.00
1318	Moisture Density Relationship (Standard), per sample	12.00	Each	176.00	\$2,112.00
1162	Sieve Analysis with 200 wash, per sample	10.00	Each	128.00	\$1,280.00
<b>Phase 1 Total:</b>					<b>\$16,752.00</b>

<b>Phase 2</b>					
<b>Concrete</b>					
<b>Activity 2.1</b>	<b>Concrete Observations and Testing</b>				<b>\$9,415.00</b>
261	Concrete Testing	60.00	Hour	77.00	\$4,620.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	Outlet Structure/Pipe Cradle	10.00	Trips	6.00	60.00
278	Concrete Cylinder Pick up	15.00	Hour	77.00	\$1,155.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	Cylinder Pickup	3.00	Trips	5.00	15.00
1861	CMT Trip Charge	13.00	Each	280.00	\$3,640.00
<b>Activity 2.2</b>	<b>Concrete Lab Tests</b>				<b>\$780.00</b>
1364	Compressive strength of concrete cylinders (ASTM C 39),per specimen	30.00	Each	26.00	\$780.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	Outlet Structure/Pipe Cradle	10.00	Set	3.00	30.00
<b>Phase 2 Total:</b>					<b>\$10,195.00</b>

<b>Phase 3</b>					
<b>Project Management, Engineering Review &amp; Oversight</b>					
<b>Activity 3.1</b>	<b>Project Management, Engineering Review &amp; Oversight</b>				<b>\$2,255.00</b>
238	Project Assistant	7.00	Hour	77.00	\$539.00
226	Project Manager	11.00	Hour	156.00	\$1,716.00
<b>Phase 3 Total:</b>					<b>\$2,255.00</b>

<b>Proposal Total:</b>	<b>\$29,202.00</b>
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**From:** Steve Conely <[sconely@redlakeelectric.com](mailto:sconely@redlakeelectric.com)>  
**Sent:** Thursday, September 17, 2020 10:04 AM  
**To:** Tony Nordby <[tnordby@houstoneng.com](mailto:tnordby@houstoneng.com)>  
**Subject:** RE: Red Lake Watershed District - Black River Impoundment Project Utilities

Tony,

I looked at the pole data and have figured out the depreciation.

In Sanders 19 the single phase line is 53% depreciated  $\$20,000.00 \times .47 = \$9,400.00$

In Sanders 30 the single phase line is 53% depreciated  $\$20,000.00 \times .47 = \$9,400.00$

In Sanders 31 the multi-phase line is 32% depreciated  $\$50,000.00 \times .68 = \$34,000.00$

In Bray 35 the single phase line is 62 % depreciated (1/2 mile)  $\$10,000.00 \times .38 = \$3,800.00$

In Bray 36 the single phase line is 85 % depreciated  $\$20,000.00 \times .15 = \$3,000.00$

In Black River 5 the multi-phase line is 70% depreciated (3/4 mile)  $\$37,500.00 \times .30 = \$11,250.00$

In Polk Center 1 the single phase line is 53% depreciated (3/4 mile)  $\$15,000.00 \times .47 = \$7,050.00$

In Polk Center 2 the single phase line is 58% depreciated  $\$20,000.00 \times .42 = \$8,400.00$

We also have two 3phase underground line crossing that will have to be redone in Polk Center 1 & 12 and Sanders 31 I would estimate about \$5000.00 per crossing for those.

I would also estimate another \$5000.00 for other crossings. I estimate the total cost to the Water Shed to move these lines at about \$102,000.00

Thanks

Steve Conely  
Operations Manager  
Red Lake Electric Coop  
218 253 2168  
[sconely@redlakeelectric.com](mailto:sconely@redlakeelectric.com)

**DL EC** Red Lake Electric  
**RLEC** Cooperative

*This Institution is an equal opportunity provider and employer.*

**From:** Tony Nordby [<mailto:tnordby@houstoneng.com>]  
**Sent:** Thursday, September 17, 2020 12:01 PM  
**To:** Steve Conely <[sconely@redlakeelectric.com](mailto:sconely@redlakeelectric.com)>  
**Subject:** RE: Red Lake Watershed District - Black River Impoundment Project Utilities  
**From:** Steve Conely <[sconely@redlakeelectric.com](mailto:sconely@redlakeelectric.com)>  
**Sent:** Thursday, September 17, 2020 4:18 PM  
**To:** Tony Nordby <[tnordby@houstoneng.com](mailto:tnordby@houstoneng.com)>  
**Subject:** RE: Red Lake Watershed District - Black River Impoundment Project Utilities

Hey Steve,

I discussed the cost estimate with Myron and also the approximate cost if we were to bury as many lines as possible on the site. If the district was willing to split the burying costs with you is that something Red Lake Electric would be interested in and if so can you provide me an email with the approximate dollar amount? We would then take it to the RLWD board next Thursday to get a board recommendation that we could potential move forward on.

Thanks,

**Tony Nordby, PE**  
Project Engineer | Principal  
Houston Engineering, Inc.  
O 218.681.2951

**From:** Steve Conely <[sconely@redlakeelectric.com](mailto:sconely@redlakeelectric.com)>  
**Sent:** Thursday, September 17, 2020 10:04 AM  
**To:** Tony Nordby <[tnordby@houstoneng.com](mailto:tnordby@houstoneng.com)>  
**Subject:** RE: Red Lake Watershed District - Black River Impoundment Project Utilities  
**[External Email]**

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Tony,

I think we can work with you on this. I estimate the cost to put it all in underground and moving some random poles to be \$288,000.00

With the pole depreciation value of the existing poles we would be able to split the cost of putting in all underground lines. Max cost to the Watershed would be \$144,000.00.

If the project costs over \$288,000.00 RLEC will cover those costs if it's less we will split the cost.

Thanks

Steve Conely  
Operations Manager  
Red Lake Electric Coop  
218 253 2168  
[sconely@redlakeelectric.com](mailto:sconely@redlakeelectric.com)

**RLEC** Red Lake Electric  
**RLEC** Cooperative

*This Institution is an equal opportunity provider and employer.*

**BID TABULATION SHEET**

Black River Impoundment Project – RLWD Project #176  
Thief River Falls, Minnesota

Bid Opening: September 24, 2020  
9:30 a.m.  
Red Lake Watershed District  
1000 Pennington Ave. S  
Thief River Falls, Minnesota

Engineer: Houston Engineering, Inc.  
125 3<sup>rd</sup> Street East  
Thief River Falls, MN 56701

Ph. 218-681-2951  
Fax 218-681-2987

[www.houstoneng.com](http://www.houstoneng.com)

NAME	BID AMOUNT

**RED LAKE WATERSHED DISTRICT**  
**Application for Payment**  
**Estimate of Work Completed**

ESTIMATE NUMBER: 8  
 PROJECT NAME: RLWD Ditch 16  
 OWNER: Red Lake Watershed District  
 CONTRACT AMOUNT: \$1,572,196.70  
 CONTRACTOR: Burski Excavating, Inc.

DATE: 9/24/2020  
 PROJECT NUMBER: 177  
 CONTRACT DATE: 6/7/2019  
 WORK COMPLETED: 9/21/2020

ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	QUANTITY COMPLETED				TOTAL AMOUNT	
					PREVIOUS	CURRENT	TOTAL	%		
1	Traffic Control	LS	1	\$31,138.64	0.75	0.00	0.75	75.00%	\$23,353.98	
2	Anchored Silt Fence (Type PA - Preassembled)	LF	1,000	\$2.97	0	0	0	0.00%	\$0.00	
3	Anchored 12" Bio-Roll Ditch Block (Type 3)	LF	1,040	\$3.51	0	0	0	0.00%	\$0.00	
4	Grass Seed Mixture	LBS	8,600	\$3.15	2000	0	2000	23.26%	\$6,300.00	
5	Grass Seeding (MnDOT 2575.3)	AC	86	\$375.18	20	0	20	23.26%	\$7,503.60	
6	Anchored Wheat Straw Mulch	TON	172	\$178.40	20	0	20	11.63%	\$3,568.00	
7	Riprap, Class 3 (18" & Under) w/type 4 Geotextile	CU.YD.	1,600	\$67.03	690	200	890	55.63%	\$59,656.70	
8	Excavation (topsoil conservation-replacement, SWPPP Prep., Erosion Control, Minor Lateral Hauling and Clearing and Grubbing of Trees in Permanent ROW are incidental)	CU.YD.	366,920	\$1.75	265,681	55,599	321,280	87.56%	\$562,240.00	
9	Remove Bituminous Pavement	SQ.YD.	316	\$17.30	730	0	730	231.01%	\$12,629.00	
10	Bituminous Pavement (Type SP 12.5 Wearing Course Mix)	TON	270	\$108.12	272	0	272	100.74%	\$29,408.64	
11	Geogrid-Tensar TX 140 (Install Under Aggregate Base)	SQ.YD.	864	\$3.78	969	0	969	112.15%	\$3,662.82	
12	Aggregate Roadway Surfacing (Loose Volume), CL 1	CU.YD.	450	\$34.60	65	0	65	14.44%	\$2,249.00	
13	Salvage & Reinstall Granular & Aggregate Material (CV)	CU.YD.	680	\$27.03	0	0	0	0.00%	\$0.00	
14	Granular Backfill (Compacted Volume)	CU.YD.	200	\$38.92	922	0	922	461.00%	\$35,884.24	
15	Aggregate Road Base and Shoulder Base (CL 5 MOD)(CV)	CU.YD.	288	\$32.44	277	0	277	96.18%	\$8,985.88	
16	18" Corrugated Steel Pipe (CSP) Culvert (16 Gauge)	LF	2,050	\$25.41	1066	636	1702	83.02%	\$43,247.82	
17	80' - 24" SCH 20 Steel Pipe - Directional Bore/Open Cut	EACH	2	\$23,786.46	0	0	0	0.00%	\$0.00	
18	24" Corrugated Steel Pipe (CSP) Culvert (16 Gauge)	LF	2,680	\$34.60	886	620	1506	56.19%	\$52,107.60	
19	36" Corrugated Steel Pipe (CSP) Culvert (14 Gauge)	LF	190	\$60.55	0	0	0	0.00%	\$0.00	
20	49"x33" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	70	\$92.98	0	0	0	0.00%	\$0.00	
21	53"x41" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	320	\$108.12	0	0	0	0.00%	\$0.00	
22	60"x46" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	160	\$123.26	0	0	0	0.00%	\$0.00	
23	81"x59" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	385	\$161.10	360	284	644	167.27%	\$103,748.40	
24	78" CSP Culvert (12 gauge) w/3:1 step ends	LF	180	\$170.83	180	0	180	100.00%	\$30,749.40	
25	18" CSP Standard Flared End Section	EACH	44	\$108.12	18	15	33	75.00%	\$3,567.96	
26	24" CSP Standard Flared End Section	EACH	42	\$151.37	13	11	24	57.14%	\$3,632.88	
27	36" CSP Standard Flared End Section	EACH	6	\$410.86	0	0	0	0.00%	\$0.00	
28	18" Exterior Flap-Gate	EACH	44	\$491.95	18	15	33	75.00%	\$16,234.35	
29	24" Exterior Flap-Gate	EACH	42	\$589.26	13	11	24	57.14%	\$14,142.24	
30	36" Exterior Flap-Gate	EACH	2	\$1,027.14	0	0	0	0.00%	\$0.00	
31	12'x6' Reinforced Conc. Box Culvert (CL 2)	LF	96	\$1,243.38	92	0	92	95.83%	\$114,390.96	
32	12'x 6' RC Box Cul. End Sec, (CL 2 w/15 Deg. Skewed End)	EACH	2	\$33,301.04	2	0	2	100.00%	\$66,602.08	
					Subtotal				\$1,203,865.55	
<b>Additional Material</b>					0	\$0.00	0	0	0	\$0.00
					Subtotal				\$0.00	
<b>Change Order</b>										
1	Replace 2-15 degree skewed, Type 2, End Sections for the 12'x6'RC Box Culvert	EACH	2	-\$1,974.48	0	2	2	100%	-\$3,948.96	
					Subtotal				-\$3,948.96	
					<b>TOTALS</b>				\$1,199,916.59	



SUMMARY:	
Total of Work to Date	\$1,199,916.59
Less 10% Retainage	\$119,991.66
Amount Paid on Previous Payments	\$889,829.28
<b>Amount Due this Estimate</b>	<b>\$190,095.65</b>
Percentage of work completed	76%
Original Contract Amount Due	\$1,572,196.70
Additional Material	\$0.00
Change Orders	(\$3,948.96)
Total Estimated Contract Costs	\$1,568,247.74

RECAP OF PREVIOUS PAYMENTS:			
ESTIMATE NO	DATE	PAYMENT AMOUNT	
1	1/31/2020	\$78,333.13	
2	6/11/2020	\$86,924.58	
3	6/23/2020	\$165,917.62	
4	7/21/2020	\$147,714.48	
5	8/13/2020	\$169,232.06	
6	8/25/2020	\$134,980.18	
7	9/10/2020	\$106,727.23	
FINAL PAYMENT			
<b>TOTAL</b>		<b>\$889,829.28</b>	

I concur that there are no pending changed condition claims as of this date of this pay estimate NB (Initial)  
 Approved by Contractor: Ron Burski, Burski Excavating, Inc.

Date: 9-22-20 Signature: [Handwritten Signature]

I concur that there are no pending changed condition claims as of this date of this pay estimate \_\_\_\_\_ (Initial)  
 Approved by Contractor: Nick Pribula, Pribula Engineering, PLLC

Date: 9-22-20 Signature: [Handwritten Signature]

Approved by Administrator: Myron Jesme, Red Lake Watershed District

Date: \_\_\_\_\_ Signature: \_\_\_\_\_



**Contractor's Application and Certificate for Payment Summary**

To (Owner): Red Lake Watershed District	From (Contractor): R.J. Zavoral & Sons, Inc.	Via (Engineer): Nathan P. Dalager
Owner's Project No.: 178	Contractor's Project No.:	Engineer's Project No.: 10134290
For (Contract): Thief River Falls Westside Flood Damage Reduction Project	Application No.: 10	Application Period: 9/3/2020 - 9/17/2020

**Application for Payment  
Change Order Summary**

Change Orders Approved by Owner:			
Number	Date Approved	Additions	Deductions
1	5/5/2020	\$ 173,944.09	\$ -
2	5/14/2020	\$ -	\$ 27,577.00
3	5/28/2020	\$ 12,204.00	\$ -
4	6/8/2020	\$ 15,594.00	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
TOTALS		\$ 201,742.09	\$ 27,577.00
NET CHANGE BY CHANGE ORDERS		\$ 174,165.09	

1. ORIGINAL CONTRACT PRICE	\$ 6,632,761.68
2. NET CHANGE BY CHANGE ORDERS	\$ 174,165.09
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$ 6,806,926.77
4. TOTAL COMPLETED AND STORED TO DATE (Column F on Progress Estimate)	\$ 4,730,712.07
5. RETAINAGE: 5% of Completed Work and Stored Material	\$ 236,535.60
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5)	\$ 4,494,176.47
7. LESS PREVIOUS PAYMENTS	\$ 4,238,206.87
8. AMOUNT DUE THIS APPLICATION	\$ 255,969.62
9. BALANCE TO FINISH	\$ 2,076,214.70
10. PERCENT COMPLETE	69.50%

**Contractor's Certification**

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief, the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

**Contractor:**

By:	Date:
-----	-------

Payment of:  
\$ 255,969.62 is recommended.

**HDR Engineering, Inc.**

By: *Nathan P. Dalager*

Date: 9/23/2020

**Red Lake Watershed District**

By:

Date:



**Contractor's Application and Certificate for Payment Summary**

To (Owner): Red Lake Watershed District	From (Contractor): R.J. Zavoral & Sons, Inc.	Via (Engineer): Nathan P. Dalager
Owner's Project No.: 178	Contractor's Project No.:	Engineer's Project No.: 10134290
For (Contract): Thief River Falls Westside Flood Damage Reduction Project	Application No.: 10	Application Period: 9/3/2020 - 9/17/2020

**Summary of Previous Payments**

Application No.	Application Period	Payment Amount
1	4/20/2020 - 5/7/2020	\$ 191,120.05
2	5/7/2020 - 5/21/2020	\$ 199,068.23
3	5/21/2020-6/4/2020	\$ 356,473.89
4	6/4/2020-6/18/2020	\$ 450,116.08
5	6/18/2020-7/2/2020	\$ 396,399.85
6	7/2/2020-7/16/2020	\$ 835,837.55
7	7/16/2020-8/6/2020	\$ 1,145,236.50
8	8/6/2020-8/20/2020	\$ 335,826.90

Application No.	Application Period	Payment Amount
9	8/20/2020-9/3/2020	\$ 328,127.82



Contractor's Application and Certificate for Payment

For (contract):		Thief River Falls Westside Flood Damage Reduction Project					Contractor:		R.J. Zavoral & Sons, Inc.					
Application No.:		10					Application Period:		9/3/2020 - 9/17/2020					
A			B		C		D	E	F	G	H	I	J	
Item					Work Completed			Materials Presently Stored (not in C or D)	Total Completed and Stored To Date (C+D+E)	Percent Complete To Date (%)	Total Cost This Period	Total Cost Complete to Date	Balance to Finish (A - F)	
Item No.	Description	Unit	Contract Quantity	Contract Unit Price	Scheduled Value	From Previous Applications	This Period							
2021.501	MOBILIZATION	LUMP SUM	1	\$259,500.00	\$259,500.00	0.90	0.00	0.0	0.9	90.00%	\$0.00	\$233,550.00	0.10	
2101.501	CLEARING AND GRUBBING	LUMP SUM	1	\$27,725.00	\$27,725.00	1.0	0.0	0.0	1	100.00%	\$0.00	\$27,725.00	0.0	
2104.503	REMOVE 24" CS PIPE CULVERT	LIN FT	68	\$10.00	\$680.00	61.0	0.0	0.0	61	89.71%	\$0.00	\$610.00	7.0	
2104.503	REMOVE 115" x 72" RC ARCH PIPE	LIN FT	92	\$19.00	\$1,748.00	0.0	92.0	0.0	92	100.00%	\$1,748.00	\$1,748.00	0.0	
2104.503	REMOVE 138" x 88" RC ARCH PIPE	LIN FT	74	\$20.00	\$1,480.00	0.0	74.0	0.0	74	100.00%	\$1,480.00	\$1,480.00	0.0	
2104.503	REMOVE 154" x 97" RC ARCH PIPE	LIN FT	80	\$23.00	\$1,840.00	0.0	80.0	0.0	80	100.00%	\$1,840.00	\$1,840.00	0.0	
2104.503	SALVAGE 60" RC ARCH PIPE	LIN FT	150	\$24.50	\$3,675.00	150.0	0.0	0.0	150	100.00%	\$0.00	\$3,675.00	0.0	
2104.502	SALVAGE SIGN TYPE A	EACH	14	\$200.00	\$2,800.00	6.0	0.0	0.0	6	42.86%	\$0.00	\$1,200.00	8.0	
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	832	\$2.50	\$2,080.00	248.0	0.0	0.0	248	29.81%	\$0.00	\$620.00	584.0	
2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	2946	\$8.65	\$25,482.90	3764.0	498.0	0.0	4262	144.67%	\$4,307.70	\$36,866.30	-1316.0	
2105.607	SPOIL HAULING (P)	CU YD	35480	\$7.95	\$282,066.00	22,400.0	3,000.0	0.0	25,400.00	71.59%	\$23,850.00	\$201,930.00	10080.0	
2105.504	GEOTEXTILE FABRIC TYPE 5	SQ YD	9876	\$1.55	\$15,307.80	9876.0	0.0	0.0	9876	100.00%	\$0.00	\$15,307.80	0.0	
2105.507	COMMON EXCAVATION (P)	CU YD	595137	\$2.68	\$1,594,967.16	535,155.0	34,000.0	0.0	569,155.00	95.63%	\$91,120.00	\$1,525,335.40	25982.0	
2105.507	COMMON BORROW (CV)	CU YD	10035	\$6.80	\$68,238.00	6000.0	0.0	0.0	6000	59.79%	\$0.00	\$40,800.00	4035.0	
2118.509	AGGREGATE SURFACING, CLASS 1	TON	90	\$17.80	\$1,602.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	90.0	
2118.509	AGGREGATE SURFACING, CLASS 5	TON	2151	\$11.00	\$23,661.00	225.0	0.0	0.0	225	10.46%	\$0.00	\$2,475.00	1926.0	
2211.509	AGGREGATE BASE, CLASS 3	TON	929	\$10.00	\$9,290.00	320.0	0.0	0.0	320	34.45%	\$0.00	\$3,200.00	609.0	
2211.509	AGGREGATE BASE, CLASS 5	TON	1137	\$11.00	\$12,507.00	753.0	120.0	0.0	873	76.78%	\$1,320.00	\$9,603.00	264.0	
2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	367	\$90.00	\$33,030.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	367.0	
2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	175	\$90.00	\$15,750.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	175.0	
2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (3,C)	TON	409	\$100.00	\$40,900.00	366.0	0.0	0.0	366	89.49%	\$0.00	\$36,600.00	43.0	
2411.507	STRUCTURAL CONCRETE (3G52) (P)	CU YD	21	\$2,000.00	\$42,000.00	14.0	0.0	0.0	14	66.67%	\$0.00	\$28,000.00	7.0	
2411.508	REINFORCEMENT BARS (EPOXY COATED) (P)	POUND	10270	\$2.15	\$22,080.50	5135.0	0.0	0.0	5135	50.00%	\$0.00	\$11,040.25	5135.0	
2412.502	10X8 PRECAST CONCRETE BOX CULVERT END SECTION	EACH	2	\$16,255.00	\$32,510.00	2.0	0.0	0.0	2	100.00%	\$0.00	\$32,510.00	0.0	
2412.502	12X8 PRECAST CONCRETE BOX CULVERT END SECTION	EACH	2	\$17,600.00	\$35,200.00	2.0	0.0	0.0	2	100.00%	\$0.00	\$35,200.00	0.0	
2412.502	12X10 PRECAST CONCRETE BOX CULVERT END SECTION	EACH	1	\$27,365.00	\$27,365.00	1.0	0.0	0.0	1	100.00%	\$0.00	\$27,365.00	0.0	
2412.503	10X8 PRECAST CONCRETE BOX CULVERT	LIN FT	84	\$1,075.00	\$90,300.00	84.0	0.0	0.0	84	100.00%	\$0.00	\$90,300.00	0.0	
2412.503	12X8 PRECAST CONCRETE BOX CULVERT	LIN FT	102	\$1,125.00	\$114,750.00	102.0	0.0	0.0	102	100.00%	\$0.00	\$114,750.00	0.0	
2412.503	12X10 PRECAST CONCRETE BOX CULVERT	LIN FT	120	\$1,335.00	\$160,200.00	120.0	0.0	0.0	120	100.00%	\$0.00	\$160,200.00	0.0	
2442.501	REMOVE EXISTING BRIDGE	LUMP SUM	2	\$5,700.00	\$11,400.00	2.0	0.0	0.0	2	100.00%	\$0.00	\$11,400.00	0.0	
2451.507	GRANULAR BEDDING (CV)	CU YD	5084	\$11.15	\$56,686.60	3619.0	0.0	0.0	3619	71.18%	\$0.00	\$40,351.85	1465.0	
2461	FLOWABLE FILL CONCRETE	CU YD	211	\$140.00	\$29,540.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	211.0	
2501.502	24" CAS PIPE APRON	EACH	3	\$375.00	\$1,125.00	2.0	0.0	0.0	2	66.67%	\$0.00	\$750.00	1.0	
2501.502	30" CAS PIPE APRON	EACH	2	\$598.00	\$1,196.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	2.0	
2501.502	36" CAS PIPE APRON	EACH	4	\$930.00	\$3,720.00	2.0	2.0	0.0	4	100.00%	\$1,860.00	\$3,720.00	0.0	
2501.502	18" CS PIPE APRON	EACH	18	\$170.00	\$3,060.00	8.0	0.0	0.0	8	44.44%	\$0.00	\$1,360.00	10.0	
2501.502	24" CS PIPE APRON	EACH	6	\$230.00	\$1,380.00	1.0	0.0	0.0	1	16.67%	\$0.00	\$230.00	5.0	



Contractor's Application and Certificate for Payment

For (contract):		Thief River Falls Westside Flood Damage Reduction Project					Contractor:		R.J. Zavoral & Sons, Inc.					
Application No.:		10					Application Period:		9/3/2020 - 9/17/2020					
A			B			C		D	E	F	G	H	I	J
Item			Work Completed											
Item No.	Description	Unit	Contract Quantity	Contract Unit Price	Scheduled Value	From Previous Applications		Materials Presently Stored (not in C or D)	Total Completed and Stored To Date (C+D+E)	Percent Complete To Date (%)	Total Cost This Period	Total Cost Complete to Date	Balance to Finish	
							This Period						(A - F)	
2501.502	36" CS PIPE APRON	EACH	1	\$525.00	\$525.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	1.0	
2501.502	48" CS PIPE APRON	EACH	8	\$1,100.00	\$8,800.00	2.0	0.0	0.0	2	25.00%	\$0.00	\$2,200.00	6.0	
2501.502	FLAP GATE FOR 18"CS PIPE	EACH	16	\$685.00	\$10,960.00	3.0	5.0	0.0	8	50.00%	\$3,425.00	\$5,480.00	8.0	
2501.502	FLAP GATE FOR 24"CS PIPE	EACH	3	\$760.00	\$2,280.00	0.0	1.0	0.0	1	33.33%	\$760.00	\$760.00	2.0	
2501.503	24" CAS PIPE CULVERT	LIN FT	222	\$40.00	\$8,880.00	136.0	0.0	0.0	136	61.26%	\$0.00	\$5,440.00	86.0	
2501.503	30" CAS PIPE CULVERT	LIN FT	68	\$55.00	\$3,740.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	68.0	
2501.503	36" CAS PIPE CULVERT	LIN FT	143	\$65.00	\$9,295.00	73.0	0.0	0.0	73	51.05%	\$0.00	\$4,745.00	70.0	
2501.503	15" CS PIPE CULVERT	LIN FT	20	\$32.00	\$640.00	8.0	0.0	0.0	8	40.00%	\$0.00	\$256.00	12.0	
2501.503	18" CS PIPE CULVERT	LIN FT	1054	\$33.00	\$34,782.00	598.0	0.0	0.0	598	56.74%	\$0.00	\$19,734.00	456.0	
2501.503	24" CS PIPE CULVERT	LIN FT	262	\$40.00	\$10,480.00	112.0	0.0	0.0	112	42.75%	\$0.00	\$4,480.00	150.0	
2501.503	48" CS PIPE CULVERT	LIN FT	271	\$105.00	\$28,455.00	85.0	0.0	0.0	85	31.37%	\$0.00	\$8,925.00	186.0	
2501.503	84" CS PIPE CULVERT (BEVEL CUT ENDS)	LIN FT	636	\$187.00	\$118,932.00	636.0	0.0	0.0	636	100.00%	\$0.00	\$118,932.00	0.0	
2501.503	102" SPAN CS PIPE ARCH CULVERT (BEVEL CUT ENDS)	LIN FT	67	\$220.00	\$14,740.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	67.0	
2501.503	30" STEEL CASING PIPE - JACK INSTALLED	LIN FT	169	\$678.00	\$114,582.00	169.0	0.0	0.0	169	100.00%	\$0.00	\$114,582.00	0.0	
2501.503	30" STEEL CASING PIPE	LIN FT	106	\$772.00	\$81,832.00	106.0	0.0	0.0	106	100.00%	\$0.00	\$81,832.00	0.0	
2501.503	36" STEEL CASING PIPE	LIN FT	59	\$177.00	\$10,443.00	0.0	59.0	0.0	59	100.00%	\$10,443.00	\$10,443.00	0.0	
2501.503	54" STEEL CASING PIPE - JACK INSTALLED	LIN FT	168	\$1,500.00	\$252,000.00	168.0	0.0	0.0	168	100.00%	\$0.00	\$252,000.00	0.0	
2501.515	18" RC PIPE APRON	EACH	3	\$540.00	\$1,620.00	1.0	0.0	0.0	1	33.33%	\$0.00	\$540.00	2.0	
2501.515	24" RC PIPE APRON	EACH	8	\$630.00	\$5,040.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	8.0	
2501.515	36" RC PIPE APRON	EACH	3	\$1,160.00	\$3,480.00	0.0	1.0	0.0	1	33.33%	\$1,160.00	\$1,160.00	2.0	
2503.503	36" CS PIPE SEWER	LIN FT	738	\$67.00	\$49,446.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	738.0	
2503.503	12" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	23	\$50.00	\$1,150.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	23.0	
2503.503	15" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	19	\$55.00	\$1,045.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	19.0	
2503.503	18" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	164	\$58.00	\$9,512.00	84.0	0.0	0.0	84	51.22%	\$0.00	\$4,872.00	80.0	
2503.503	24" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	1020	\$56.00	\$57,120.00	450.0	0.0	0.0	450	44.12%	\$0.00	\$25,200.00	570.0	
2503.503	36" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	823	\$106.00	\$87,238.00	788.0	0.0	0.0	788	95.75%	\$0.00	\$83,528.00	35.0	
2503.503	48" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	2036	\$167.00	\$340,012.00	2000.0	0.0	0.0	2000	98.23%	\$0.00	\$334,000.00	36.0	
2503.503	54" RC PIPE SEWER DESIGN 3006, CLASS III	LIN FT	2284	\$212.00	\$484,208.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	2284.0	
2503.503	54" RC PIPE SEWER DESIGN 3006, CLASS IV	LIN FT	108	\$238.00	\$25,704.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	108.0	
2503.503	60" RC PIPE CULVERT DESIGN 3006, CLASS III	LIN FT	16	\$248.00	\$3,968.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	16.0	
2503.602	CONNECT TO EXISTING FORCE MAIN	EACH	2	\$1,800.00	\$3,600.00	2.0	0.0	0.0	2	100.00%	\$0.00	\$3,600.00	0.0	
2506.502	CONSTRUCT DRAINAGE STRUCTURE 36" CS PIPE RISER	EACH	2	\$1,100.00	\$2,200.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	2.0	
2506.502	CONSTRUCT 4X4 DRAINAGE STRUCTURE, PRECAST	EACH	3	\$7,475.00	\$22,425.00	1.0	0.0	0.0	1	33.33%	\$0.00	\$7,475.00	2.0	
2506.502	CONSTRUCT 6X6 DRAINAGE STRUCTURE, PRECAST	EACH	10	\$11,085.00	\$110,850.00	8.0	0.0	0.0	8	80.00%	\$0.00	\$88,680.00	2.0	
2506.502	CONSTRUCT 8X6 DRAINAGE STRUCTURE, PRECAST	EACH	10	\$14,815.00	\$148,150.00	1.0	0.0	0.0	1	10.00%	\$0.00	\$14,815.00	9.0	
2506.502	CONSTRUCT 8X8 DRAINAGE STRUCTURE, PRECAST	EACH	2	\$14,400.00	\$28,800.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	2.0	
2506.502	CONSTRUCT 10X6 DRAINAGE STRUCTURE, PRECAST	EACH	1	\$15,915.00	\$15,915.00	1.0	0.0	0.0	1	100.00%	\$0.00	\$15,915.00	0.0	



**Contractor's Application and Certificate for Payment**

For (contract):		Thief River Falls Westside Flood Damage Reduction Project				Contractor:		R.J. Zavoral & Sons, Inc.						
Application No.:		10				Application Period:		9/3/2020 - 9/17/2020						
A					B	C		D	E	F	G	H	I	J
Item					Work Completed			Materials Presently Stored (not in C or D)	Total Completed and Stored To Date (C+D+E)	Percent Complete To Date (%)	Total Cost This Period	Total Cost Complete to Date	Balance to Finish (A - F)	
Item No.	Description	Unit	Contract Quantity	Contract Unit Price	Scheduled Value	From Previous Applications	This Period							
2506.502	CONSTRUCT 10X8 DRAINAGE STRUCTURE, PRECAST	EACH	1	\$34,850.00	\$34,850.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	1.0	
2506.502	CASTING ASSEMBLY - BEEHIVE GRATE AND FRAME	EACH	3	\$1,250.00	\$3,750.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	3.0	
2506.502	CASTING ASSEMBLY - COVER AND FRAME	EACH	3	\$780.00	\$2,340.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	3.0	
2511.507	RANDOM RIPRAP - SPECIAL (CLASS 3)	CU YD	1044	\$105.00	\$109,620.00	290.0	0.0	0.0	290	27.78%	\$0.00	\$30,450.00	754.0	
2511.507	RANDOM RIPRAP - SPECIAL (CLASS 4)	CU YD	362	\$105.00	\$38,010.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	362.0	
2511.507	RANDOM RIPRAP - SPECIAL (D50 = 18")	CU YD	1450	\$105.00	\$152,250.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	1450.0	
2511.507	RANDOM RIPRAP (CLASS 2)	CU YD	225	\$85.00	\$19,125.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	225.0	
2511.507	RANDOM RIPRAP (CLASS 3)	CU YD	2057	\$85.00	\$174,845.00	627.0	0.0	0.0	627	30.48%	\$0.00	\$53,295.00	1430.0	
2511.507	RANDOM RIPRAP (CLASS 4)	CU YD	1063	\$85.00	\$90,355.00	1063.0	0.0	0.0	1063	100.00%	\$0.00	\$90,355.00	0.0	
2511.509	GRANULAR FILTER MATERIAL	TON	354	\$85.00	\$30,090.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	354.0	
2531.501	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	110	\$54.00	\$5,940.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	110.0	
2563.601	TRAFFIC CONTROL	LUMP SUM	1	\$25,000.00	\$25,000.00	0.95	0.00	0.0	0.95	95.00%	\$0.00	\$23,750.00	0.1	
2563.601	DETOUR SIGNING	LUMP SUM	1	\$13,550.00	\$13,550.00	1.0	0.0	0.0	1	100.00%	\$0.00	\$13,550.00	0.0	
2563.602	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	6	\$2,600.00	\$15,600.00	6.0	0.0	0.0	6	100.00%	\$0.00	\$15,600.00	0.0	
2573.502	STORM DRAIN INLET PROTECTION	EACH	4	\$125.00	\$500.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	4.0	
2573.503	SEDIMENT CONTROL LOG TYPE WOOD CHIP	LIN FT	782	\$5.50	\$4,301.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	782.0	
2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LIN FT	160	\$17.00	\$2,720.00	100.0	0.0	0.0	100	62.50%	\$0.00	\$1,700.00	60.0	
2573.503	SEDIMENT CONTROL LOG TYPE STRAW	LIN FT	2546	\$3.00	\$7,638.00	337.0	0.0	0.0	337	13.24%	\$0.00	\$1,011.00	2209.0	
2574.505	SOIL BED PREPARATION	ACRE	10.8	\$200.00	\$2,160.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	10.8	
2574.508	FERTILIZER, TYPE 1	POUND	18800	\$0.50	\$9,400.00	2800.0	0.0	0.0	2,800.00	14.89%	\$0.00	\$1,400.00	16000.0	
2574.508	FERTILIZER, TYPE 3	POUND	220	\$0.50	\$110.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	220.0	
2575.504	TURF REINFORCEMENT MAT, CATEGORY 4	SQ YD	3200	\$16.00	\$51,200.00	3200.0	0.0	0.0	3200	100.00%	\$0.00	\$51,200.00	0.0	
2575.505	SEEDING	ACRE	75.1	\$300.00	\$22,530.00	14.0	0.0	0.0	14	18.64%	\$0.00	\$4,200.00	61.1	
2575.505	DISK ANCHORING	ACRE	75.1	\$20.00	\$1,502.00	14.0	0.0	0.0	14	18.64%	\$0.00	\$280.00	61.1	
2575.508	SEED MIXTURE, 25-131	POUND	2332	\$4.00	\$9,328.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	2332.0	
2575.508	SEED MIXTURE, 25-141	POUND	4388	\$4.00	\$17,552.00	826.0	0.0	0.0	826	18.82%	\$0.00	\$3,304.00	3562.0	
2575.508	HYDRAULIC MULCH MATRIX	POUND	22260	\$0.85	\$18,921.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	22260.0	
2575.509	MULCH MATERIAL TYPE 1	TON	150.2	\$80.00	\$12,016.00	28.0	0.0	0.0	28	18.64%	\$0.00	\$2,240.00	122.2	
2575.523	WATER	M GAL	223	\$50.00	\$11,150.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	223.0	
2575.604	ROLLED EROSION CONTROL PREVENTION CATEGORY 25	SQ YD	5778	\$1.69	\$9,764.82	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	5778.0	
2582.503	6" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	1156	\$3.20	\$3,699.20	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	1156.0	
2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	265	\$2.00	\$530.00	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	265.0	
2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	115.6	\$2.00	\$231.20	0.0	0.0	0.0	0	0.00%	\$0.00	\$0.00	115.6	
2722.549	8" PVC SDR-26 FORCE MAIN	LIN FT	2408	\$28.00	\$67,424.00	2,408.0	0.0	0.0	2,408.00	100.00%	\$0.00	\$67,424.00	0.0	
2722.549	8" FORCE MAIN DIRECTIONAL BORE (FUSIBLE PVC C900)	LIN FT	344	\$100.00	\$34,400.00	344.0	0.0	0.0	344	100.00%	\$0.00	\$34,400.00	0.0	
2722.549	20" PVC FORCE MAIN	LIN FT	2437	\$74.00	\$180,338.00	515.0	1,622.0	0.0	2137	87.69%	\$120,028.00	\$158,138.00	300.0	
2722.554	DUCTILE IRON FITTINGS (8" & 20")	POUND	2623	\$6.50	\$17,049.50	1652.0	0.0	0.0	1,652.00	62.98%	\$0.00	\$10,738.00	971.0	
2722.563	AIR RELEASE MANHOLE	EACH	1	\$15,250.00	\$15,250.00	0.0	0.4	0.0	0.4	40.00%	\$6,100.00	\$6,100.00	0.6	





**Contractor's Application and Certificate for Payment**

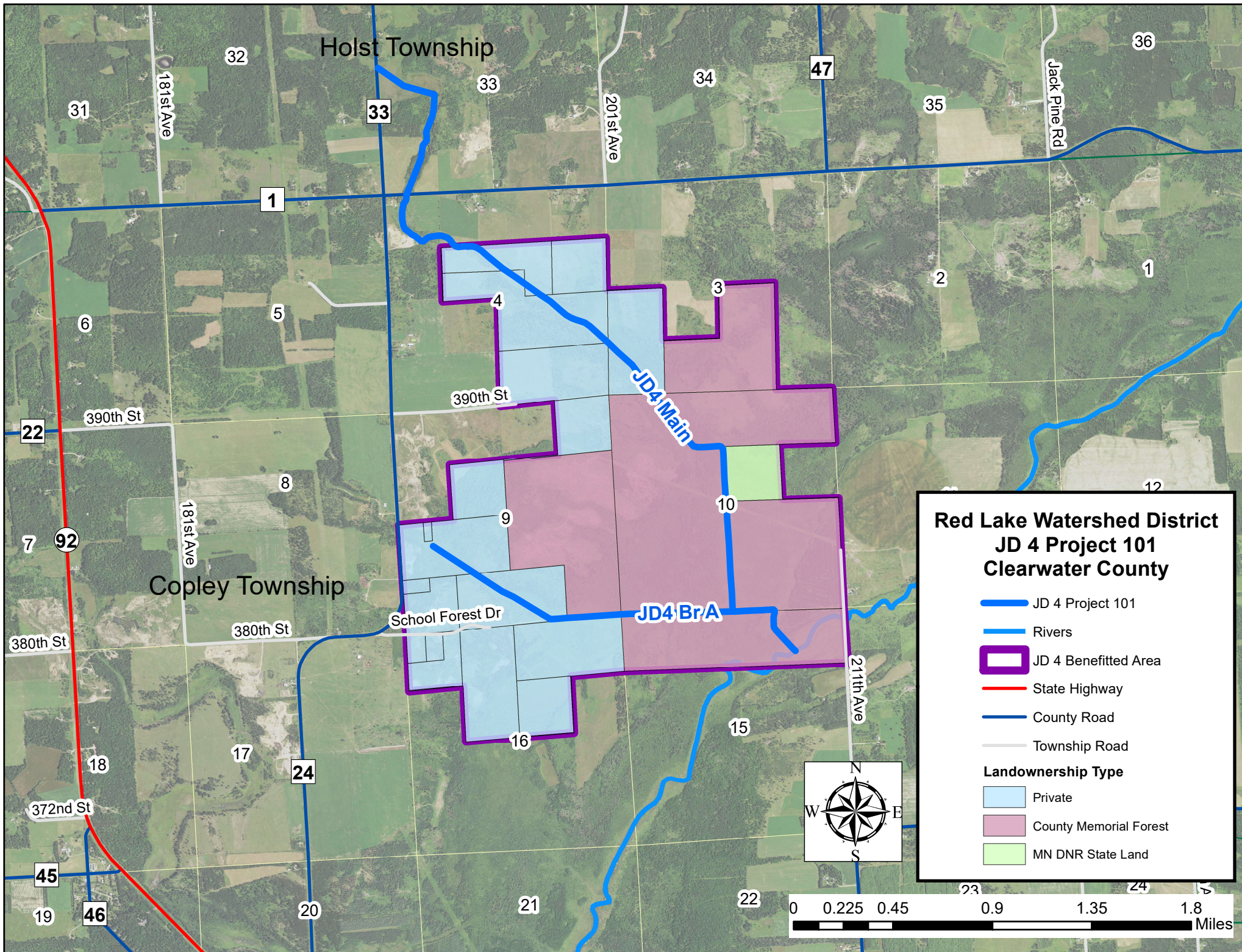
For (contract):		Thief River Falls Westside Flood Damage Reduction Project					Contractor:		R.J. Zavoral & Sons, Inc.						
Application No.:		10					Application Period:		9/3/2020 - 9/17/2020						
A			B			C		D	E		F	G	H	I	J
Item					Work Completed			Materials Presently Stored (not in C or D)	Total Completed and Stored To Date (C+D+E)	Percent Complete To Date (%)	Total Cost This Period	Total Cost Complete to Date	Balance to Finish		
Item No.	Description		Unit	Contract Quantity	Contract Unit Price	Scheduled Value	From Previous Applications						This Period	(A - F)	
CO-1	SALES TAX REIMBURSEMENT		LS	1	\$173,944.09	\$173,944.09	0.14	0.00	0.0	0.14	14.00%	\$0.00	\$24,352.17	0.86	
CO-2	STORM SEWER MANHOLE VALUE ENGINEERING		LS	1	\$27,577.00	\$27,577.00	0.0	0.00	0.0	0	0.00%	\$0.00	\$0.00	1.00	
CO-3	30" STEEL CASING PIPE - JACK INSTALLED		LIN FT	18	\$678.00	\$12,204.00	18.0	0.0	0.0	18	100.00%	\$0.00	\$12,204.00	0.00	
CO-4	30" STEEL CASING PIPE - JACK INSTALLED		LIN FT	23	\$678.00	\$15,594.00	23.0	0.0	0.0	23	100.00%	\$0.00	\$15,594.00	0.00	



Contractor's Application and Certificate for Payment

For (contract):		Thief River Falls Westside Flood Damage Reduction Project - MnDOT Trunk Highway No. 1 (SP 5701-33)					Contractor:		R.J. Zavoral & Sons, Inc.					
Application No.:		10					Application Period:		9/3/2020 - 9/17/2020					
A			B		C		D	E		F	G	H	I	J
Item					Work Completed		Materials Presently Stored (not in C or D)		Total Completed and Stored To Date (C+D+E)	Percent Complete To Date (%)	Total Cost This Period	Total Cost Complete to Date	Balance to Finish (A - F)	
Item No.	Description	Unit	Contract Quantity	Contract Unit Price	Scheduled Value	From Previous Applications	This Period							
2021.501	MOBILIZATION	LUMP SUM	1	\$25,000.00	\$25,000.00	1.0	0	0.0	1	100.00%	\$0.00	\$25,000.00	0.0	
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	112	\$2.50	\$280.00	112.0	0	0.0	112	100.00%	\$0.00	\$280.00	0.0	
2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	706	\$9.00	\$6,354.00	706.0	0	0.0	706	100.00%	\$0.00	\$6,354.00	0.0	
2105.504	GEOTEXTILE FABRIC TYPE 5	SQ YD	826	\$1.55	\$1,280.30	826.0	0	0.0	826	100.00%	\$0.00	\$1,280.30	0.0	
2118.509	AGGREGATE SURFACING CLASS 1	TON	75	\$18.00	\$1,350.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	75.0	
2211.509	AGGREGATE BASE, CLASS 5	TON	236	\$11.00	\$2,596.00	236.0	0	0.0	236	100.00%	\$0.00	\$2,596.00	0.0	
2232.603	MILLED RUMBLE STRIPS - INTERMITTENT	LIN FT	454	\$5.50	\$2,497.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	454.0	
2360.509	TYPE SP 12.5 WEARING COURSE MIX (3,C)	TON	308	\$100.00	\$30,800.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	308.0	
2412.502	12X6 PRECAST CONCRETE BOX CULVERT END SECTION	EACH	2	\$12,950.00	\$25,900.00	2.0	0	0.0	2	100.00%	\$0.00	\$25,900.00	0.0	
2412.503	12X6 PRECAST CONCRETE BOX CULVERT	LIN FT	98	\$1,070.00	\$104,860.00	98.0	0	0.0	98	100.00%	\$0.00	\$104,860.00	0.0	
2451.507	FINE AGGREGATE BEDDING (CV)	CU YD	368	\$15.00	\$5,520.00	368.0	0	0.0	368	100.00%	\$0.00	\$5,520.00	0.0	
2511.504	GEOTEXTILE FILTER TYPE 4	SQ YD	220	\$2.15	\$473.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	220.0	
2511.607	RANDOM RIPRAP - SPECIAL	CU YD	85	\$105.00	\$8,925.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	85.0	
2563.601	TRAFFIC CONTROL	LUMP SUM	1	\$11,500.00	\$11,500.00	1.0	0	0.0	1	100.00%	\$0.00	\$11,500.00	0.0	
2563.601	DETOUR SIGNING	LUMP SUM	1	\$7,000.00	\$7,000.00	1.0	0	0.0	1	100.00%	\$0.00	\$7,000.00	0.0	
2563.602	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	2	\$3,900.00	\$7,800.00	2.0	0	0.0	2	100.00%	\$0.00	\$7,800.00	0.0	
2573.503	SEDIMENT CONTROL LOG TYPE WOOD CHIP	LIN FT	262	\$6.00	\$1,572.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	262.0	
2574.508	FERTILIZER TYPE 3	POUND	50	\$0.50	\$25.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	50.0	
2575.505	SEEDING	ACRE	0.3	\$500.00	\$150.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	0.3	
2575.505	DISK ANCHORING	ACRE	0.3	\$50.00	\$15.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	0.3	
2575.508	SEED MIXTURE, 25-141	POUND	15	\$5.00	\$75.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	15.0	
2575.509	MULCH MATERIAL TYPE 1	TON	0.5	\$200.00	\$100.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	0.5	
2575.604	ROLLED EROSION CONTROL PREVENTION CATEGORY 25	SQ YD	1392	\$1.75	\$2,436.00	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	1392.0	
2582.503	6" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	454	\$3.20	\$1,452.80	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	454.0	
2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	227	\$0.30	\$68.10	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	227.0	
CO-1	SALES TAX REIMBURSEMENT	LS	1	\$173,944.09	\$173,944.09	0.0	0	0.0	0	0.00%	\$0.00	\$0.00	0.00	

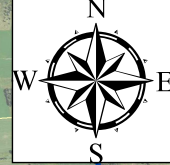




**Red Lake Watershed District  
JD 4 Project 101  
Clearwater County**

- JD 4 Project 101
- Rivers
- JD 4 Benefitted Area
- State Highway
- County Road
- Township Road

- Landownership Type**
- Private
  - County Memorial Forest
  - MN DNR State Land





Red Lake County SWCD  
2602 Wheat Drive – Suite 103  
Red Lake Falls, MN 56750

September 16, 2020

Myron Jesme, Administrator  
Red Lake Watershed District  
1000 Pennington Avenue  
Thief River Falls, MN 56701

Red Lake County SWCD would like to request \$1,000.00, from the Red Lake Watershed District, for the installation of one Grade Stabilization Projects in Red Lake County.

The project that needs local assistance is located in Gervais Township Section 31. Jim Hest, Engineer has completed the survey and final design work for the project. The landowner sent out three bid packets; but only received one bid. The Red Lake County SWCD Board of Supervisors approved Ryan Sherman's Backhoe Service bid at the September 14, 2020 board meeting because the bid was below the Engineer's Cost Bid estimate.

The Red Lake County SWCD would like to request \$1,000.00 from the Red Lake Watershed District to assist with the local match requirement for this project. The total project cost was \$7,335.59. Red Lake County SWCD received a 2020 BWSR Clean Water Fund grant to fund this project. The local match requirement is \$1,833.90. The property owner will be in charge of paying \$833.90; if the Red Lake Watershed District approves the \$1,000.00 request.

If you have any questions please give me a call at (218)253-2593.

Thank you,

Tanya Waldo, District Manager  
Red Lake County SWCD

## Grade Stabilization Bids

Ryan Sherman <ryansbackhoe@gmail.com>

Mon 9/7/2020 9:05 PM

To: Tanya Hanson <tanya.hanson@redlake.mnswcd.org>

 1 attachments (2 MB)

Grade Stablization Structure Bids 2020.pdf;

Hello Tayna

I have attached the 4 bids for the drop structures , not sure when you guys are going to decide on the Bids but can you let me know when that is and what the decision ends up being.

Thank you

Ryan Sherman

Cost Estimate

jah

Producer: Ray Delorme

County: Red Lake

Township: Gervais

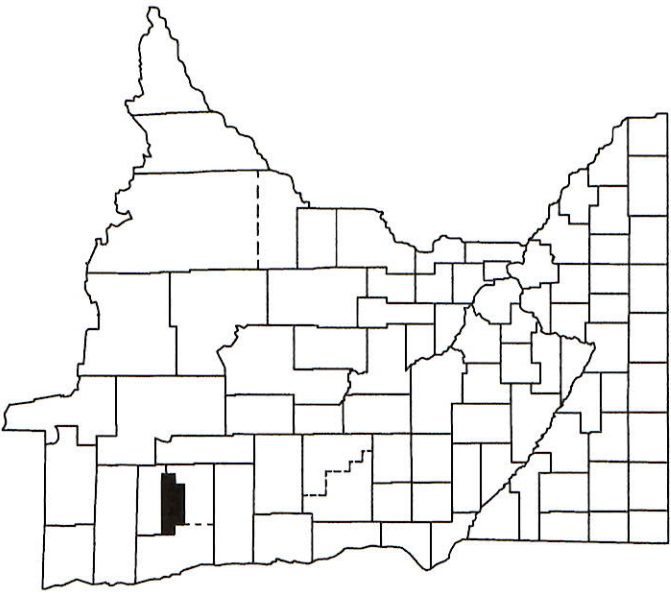
Section: 31

Engineering Practices: Grade Stabilization Structure - PS 410

ITEM	QUANTITY	UNIT COST	TOTAL COST
Seed, Fertilize & Mulch	0.2	800.00 acre	160.00
Earthfill	250	7.72 cu yd	1920.00
24" PE Riser	1	797.43 ls	797.43
24" Anti-Vortex Trash Rack	1	641.25 ls	641.25
15" Dual Wall PF/NP Tile	60	11.46 ln ft	687.60
#4 Rebar	18	.65 ln ft	11.70
Geotextile	20	1.30 sq yd	26.00
Concrete	1	211.61 cu yd	211.61
Inlet Rock Riprap	4	72.00 cu yd	288.00
Outlet Rock Riprap	6	72.00 cu yd	432.00
Mob/Demob	1	1500.00 ls	1500.00
Clearing and Grubbing	1	600.00 job	600.00

Total  
9 7,335.59

# RAY DELORME GRADE STABILIZATION PROJECT



T 151 N R 43 W  
SECTION 31  
GERVAIS TWP.  
RED LAKE COUNTY  
LOCATION MAP

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE,  
JUDGMENT AND BELIEF, THESE PLANS MEET  
APPLICABLE NRCS STANDARDS AND SPECIFICATIONS.

BEFORE START OF CONSTRUCTION, THE OWNERS OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "GOPHER STATE ONE-CALL" AT (651) 454-0002 (TWIN CITIES METRO AREA) OR (800) 252-1166 (ALL OTHER LOCATIONS) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

THE OWNER IS RESPONSIBLE FOR OBTAINING LAND RIGHTS AND ALL PERMITS OR OTHER PERMISSION NECESSARY TO PERFORM AND MAINTAIN THE PROJECT.

-- GOVERNING SPECIFICATIONS --

THE CONSTRUCTION AND MATERIALS SPECIFICATIONS PREPARED FOR THIS PROJECT SHALL GOVERN. THESE SPECIFICATIONS ARE PART OF THE PLAN.

CHANGES IN THE DRAWINGS OR SPECIFICATIONS MUST BE AUTHORIZED BY THE OWNER AND THE RESPONSIBLE ENGINEER. THE OWNER IS RESPONSIBLE FOR CONTACTING THE RED LAKE SWCD AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.



SHEET NO.	TITLE
1	SHEET INDEX, LEGEND, & LOCATION MAP
2	PLAN AND QUANTITIES
3	GRADE STABILIZATION STRUCTURE - PROFILE AND DETAILS
4	GRADE STABILIZATION STRUCTURE - DETAILS

## LEGEND

- |           |                               |
|-----------|-------------------------------|
| ▲         | INST.#1                       |
| ●         | TH#1                          |
| □         | BUILDING                      |
| ○         | WELL                          |
| +         | TBM#1                         |
| - - -     | 90                            |
| - X - X - | FENCE, EXISTING               |
| -   -   - | FENCE TO BE CONSTRUCTED       |
| - ⊖ - ⊖ - | FENCE TO BE REMOVED           |
| - - - - - | DIVERSION                     |
| ~ ~ ~     | STREAM                        |
| ~ ~ ~     | MARSH                         |
| - - - - - | COMMON EXCAVATION             |
| - - - - - | EARTHFILL, CLASS C COMPACTION |
| - - - - - | EXISTING TILE LINE            |
| - - - - - | PLANNED TILE LINE             |
| - - - - - | CENTERLINE OF IMPROVEMENTS    |
| - - - - - | BASE LINE                     |
| ○         | DECIDUOUS TREE                |
| ○         | CONIFEROUS TREE               |
| - - -     | IRON PIPE                     |
| - - -     | EMBANKMENT                    |
| - - -     | RIPRAP                        |
| ○         | UTILITY POLE                  |

## SHEET INDEX, LEGEND AND LOCATION MAP

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

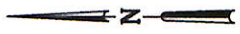
PREPARED BY  
JAMES HEST, PE

P.O. Box 126 GRYGLA, MINNESOTA 56727 (218) 294-6701  
Drawn by JAH Checked by JAH Date 08-13-20 Sheet 1 of 4

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.

JAMES HEST  
Signature: Date: 8/13/20 Reg. No. 24511





# ESTIMATED QUANTITIES

Quantities are measured in place according to neat-line shown on the plans. No allowance is made for shrinkage, overlapping, connecting bands, joints, etc.

ITEM	QUANTITY	UNIT
Seed, Fertilize & Mulch	0.2	Acre
Compacted Earth Fill (Class C)	250	Cu. Yd.
Salvage and Spreading Topsoil	1	Job
24" PE Riser	1	Each
24" Anti-Vortex Trash Rack	1	Each
15" Dual-Wall Tile	120	Ln. Ft.
#4 Rebar	18	Ln. Ft.
Inlet Rock Riprap Class I (D <sub>50</sub> = 3")	4	Cu. Yd.
Outlet Rock Riprap Class II (D <sub>50</sub> = 6")	6	Cu. Yd.
Non-Woven Geotextile	20	Sq. Yd.
Concrete	1	Cu. Yd.
Clearing and Grubbing	1	Job

RAY DELORME

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.

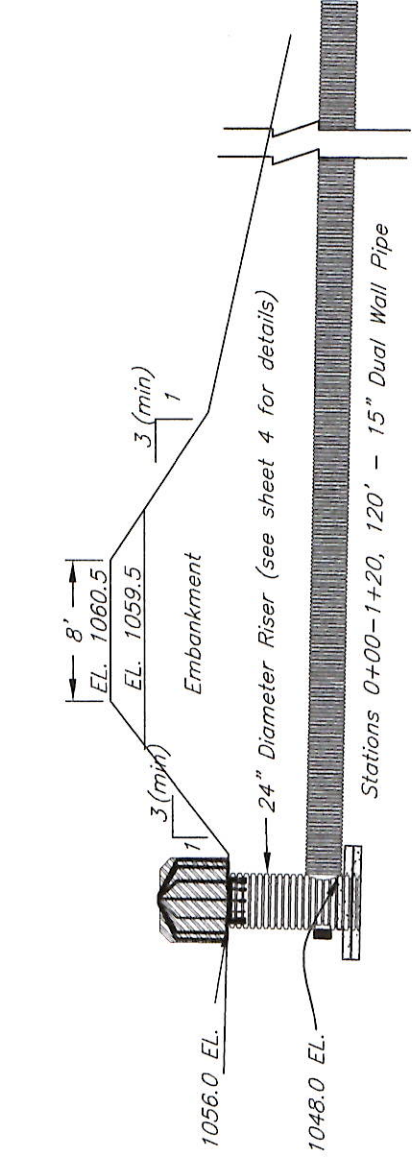
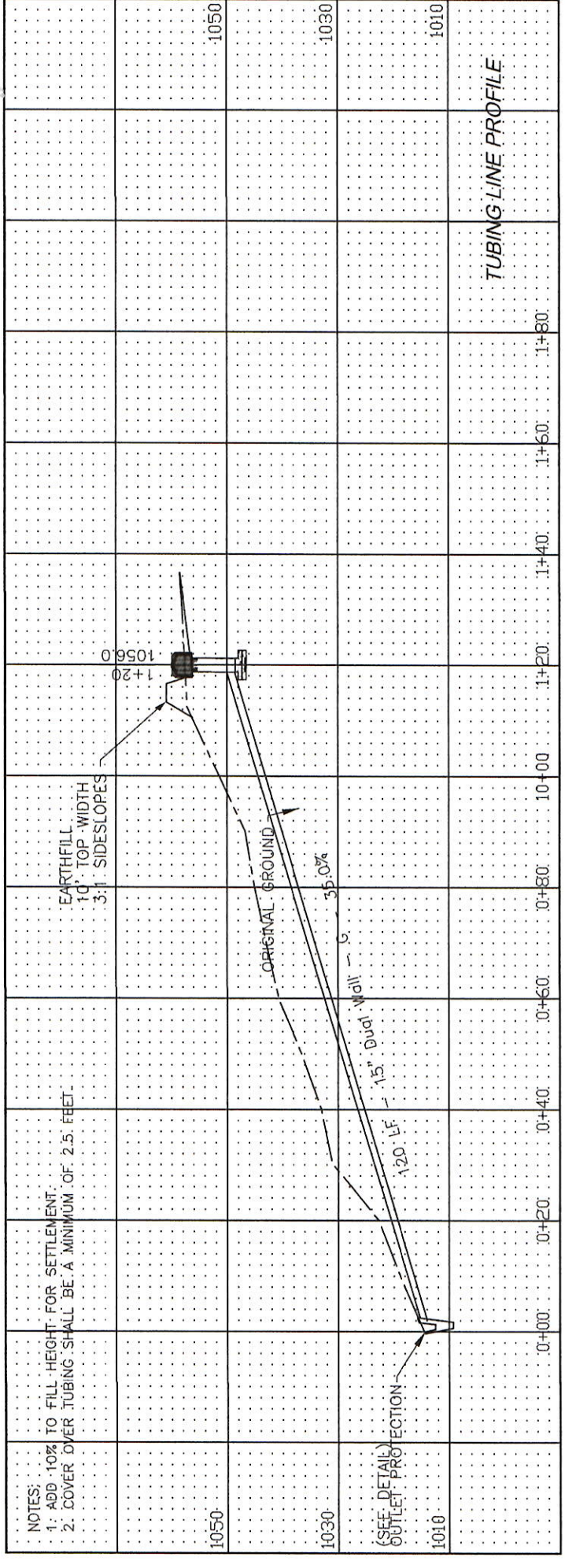
JAMES HEST  
SIGNATURE: *James Hest*  
Date: 01/3/20 Reg. No. 24511

## PLAN AND QUANTITIES

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

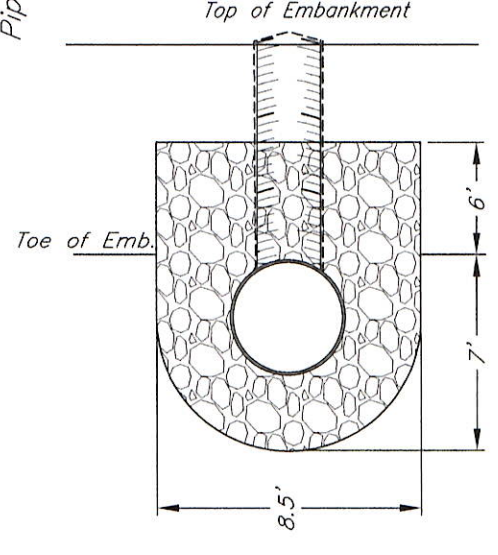
PREPARED BY  
JAMES HEST, PE  
P.O. BOX 126 GRIGLA, MINNESOTA 56727 (218) 294-6701  
Drawn by JAH Checked by JAH Date 08-13-20 Sheet 2 of 4



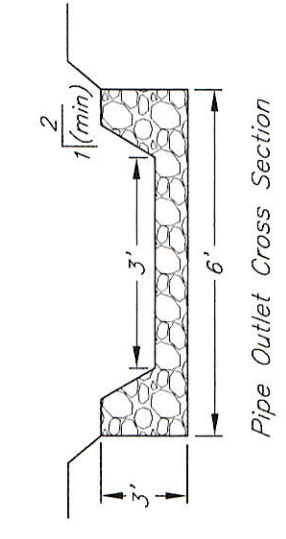


Pipe Profile

MNDOT Class	1
100%	6"
50%	3"
10%	1"
12" Thickness	

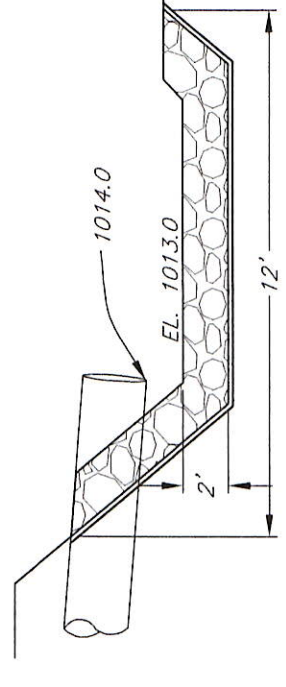


Inlet Protection Details

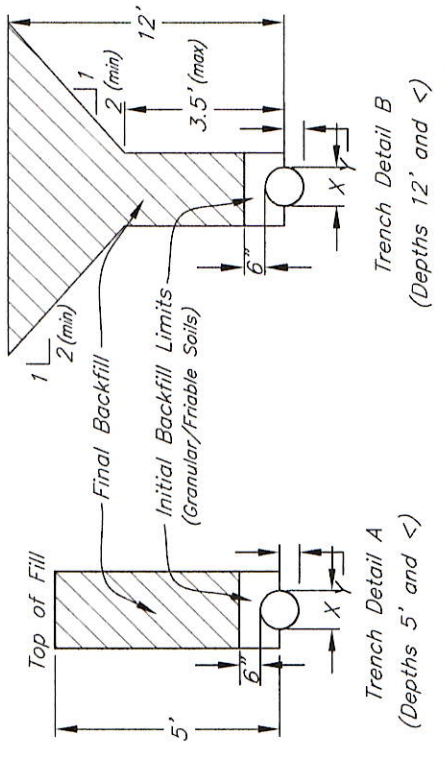


Pipe Outlet Cross Section

Outlet Protection Details



Pipe Outlet Profile



Trench Detail A  
(Depths 5' and <)

Trench Detail B  
(Depths 12' and <)

DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"

Trench Spoon Dimensions

MNDOT Class	II
100%	12"
75%	9"
50%	6"
10%	2"
24" Thickness	

RAY DELORME

**GRADE STABILIZATION STRUCTURE PROFILE AND DETAILS**  
 Red Lake Soil & Water Conservation District  
 Red Lake County, Minnesota

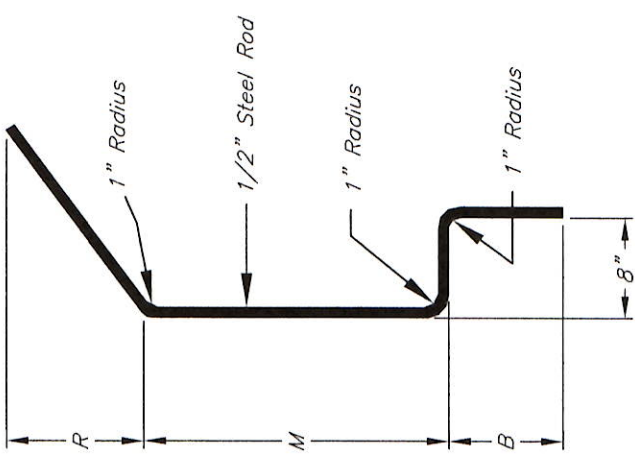
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

JAMES HEST  
 Signature: *James Hest*  
 Date: 8/13/20 Reg. No. 24511

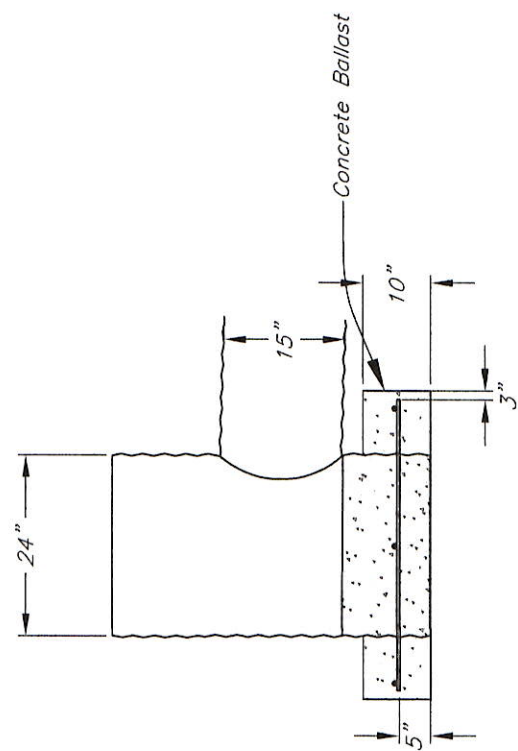
PREPARED BY  
 JAMES HEST, PE  
 GRIGLA, MINNESOTA 56727 (218) 294-6701  
 Drawn by JAH Checked by JAH Date 08-13-20 Sheet 3 of 4



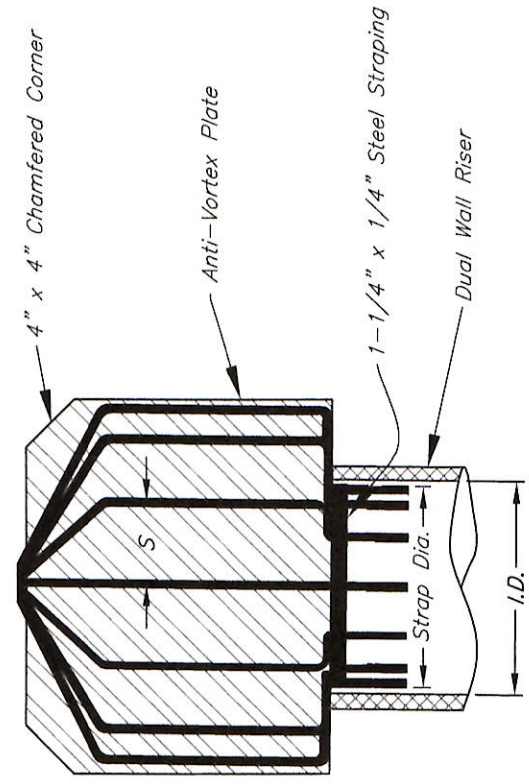
Trash Rack & Anti-Vortex Dimensions							
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	W In.	L In.
12	11 1/4	5-6	9	9	12	20	28
15	14 1/4	5-6	9	9	13	21	31
18	17 1/4	6-7	9	9	14	22	34
24	23 1/4	7-8	12	15	11	25	40
30	29 1/4	8-9	12	18	10	27	46
36	35 1/4	9-10	12	21	9	29	52



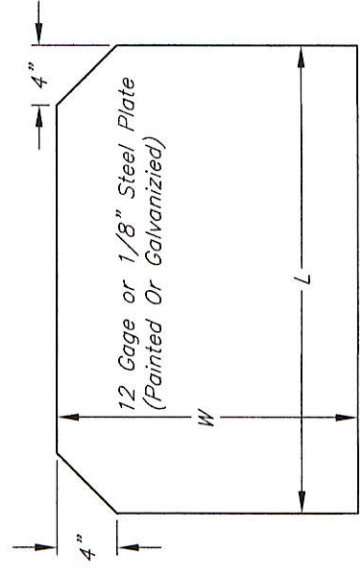
Rod Bending Detail



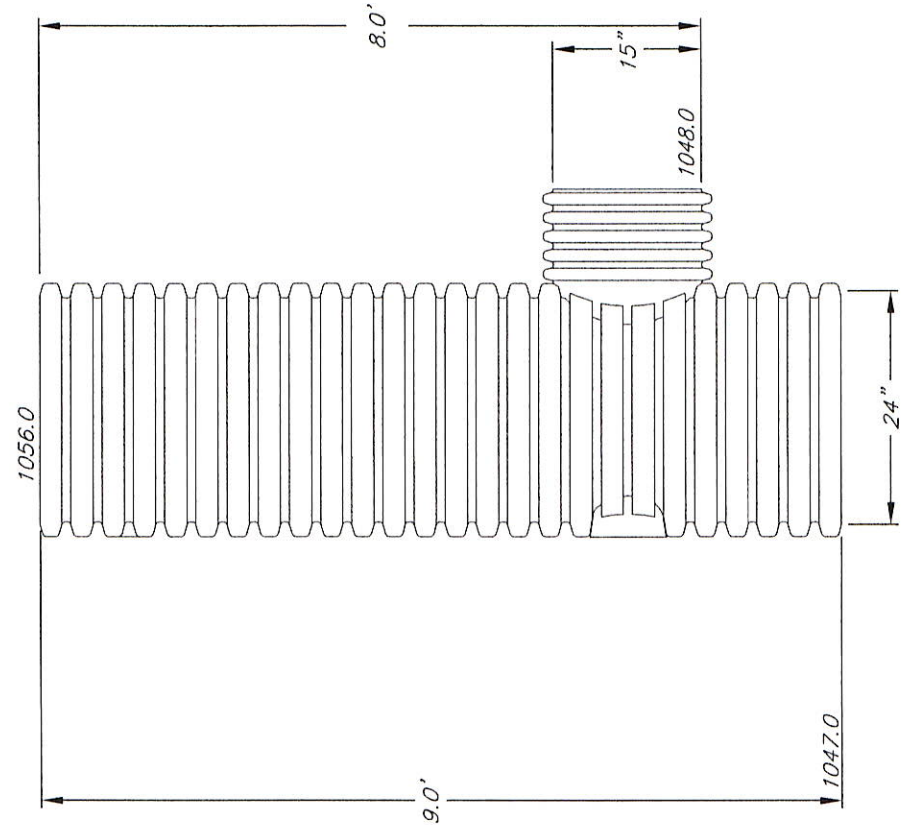
Riser Ballast Detail



Trash Rack / Anti-Vortex Detail



Anti-Vortex Detail



Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet width around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
2. Trash Rack/Antivortex requires anchoring at each end of the anti-vortex with a fence post or anchor driven into the ground a minimum 2.5 to 3'.
3. Steel reinforcement is #4 Bar. Concrete will require adequate consolidation to eliminate voids, honeycomb and fully encase rebar and embedments.

RAY DELORME

GRADE STABILIZATION STRUCTURE  
DETAILS

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY

JAMES HEST, PE

GRYGLA, MINNESOTA 56727

Checked by JAH Date 08-13-20

Drawn by JAH

P.O. BOX 126

Signature: *James Hest*

Date

8/13/20

Reg. No. 24511

Sheet 4 of 4

(218) 294-6701

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.



Red Lake County SWCD  
2602 Wheat Drive – Suite 103  
Red Lake Falls, MN 56750

August 19, 2020

Myron Jesme, Administrator  
Red Lake Watershed District  
1000 Pennington Avenue  
Thief River Falls, MN 56701

Red Lake County SWCD would like to request \$1630.00, from the Red Lake Watershed District, for the installation of one Grade Stabilization Projects in Red Lake County.

The project that needs local assistance is located in Terrebonne Township Section 3. Jim Hest, Engineer has completed the survey and final design work for the project. The project received two bids. The Red Lake County SWCD Board of Supervisors approved Ryan's Backhoe Service bid at the September 14, 2020 board meeting.

The Red Lake County SWCD would like to request \$1,630.00 from the Red Lake Watershed District to assist with the local match requirement for this project. The total project cost was \$10,921.43. Red Lake County SWCD received a 2020 BWSR Clean Water Fund grant to fund this project. The local match requirement is \$2,730.36. The property owner will be in charge of paying \$1,100.36; if the Red Lake Watershed District approves the \$1,630.00 request.

If you have any questions please give me a call at (218)253-2593.

Thank you,

Tanya Waldo, District Manager  
Red Lake County SWCD

## Grade Stabilization Bids

Ryan Sherman <ryansbackhoe@gmail.com>

Mon 9/7/2020 9:05 PM

To: Tanya Hanson <tanya.hanson@redlake.mnswcd.org>

 1 attachments (2 MB)

Grade Stablization Structure Bids 2020.pdf;

Hello Tayna

I have attached the 4 bids for the drop structures , not sure when you guys are going to decide on the Bids but can you let me know when that is and what the decision ends up being.

Thank you

Ryan Sherman

Bid

jah

Producer: Dave Ste Marie

County: Red Lake

Township: Terrebonne

Section: 3

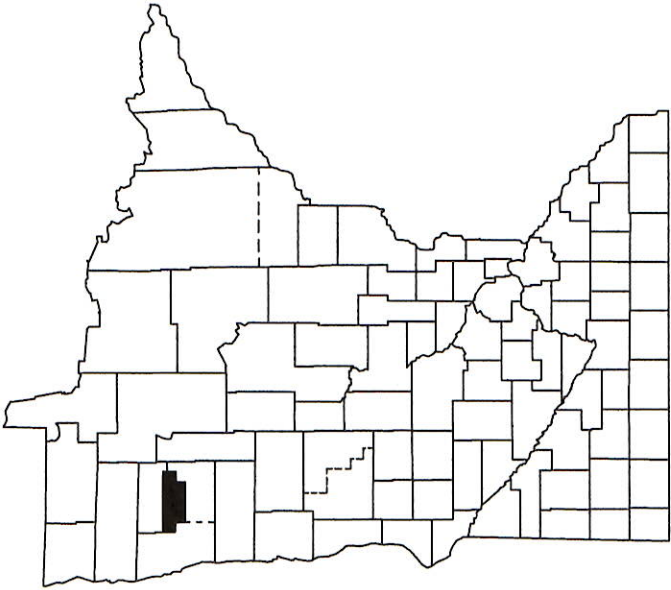
Engineering Practices: Grade Stabilization Structure - PS 410

ITEM	QUANTITY	UNIT COST	TOTAL COST
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Earthfill	250	792 cu yd	1980.00
30" PE Riser	1	1553.96 ls	1553.96
30" Anti-Vortex Trash Rack	1	704.16 ls	704.16
24" Dual Wall PF/NP Tile	130	25.00 ft	3250.00
#4 Rebar	18	.65 ln ft	11.70
Geotextile	20	1.30 sq yd	26.00
Concrete	1	211.61 cu yd	211.61
Inlet Rock Riprap	4	72.00 cu yd	288.00
Outlet Rock Riprap	8	72.00 cu yd	576.00
Mob/Demob	1	1500.00 ls	1500.00
Clearing and Grubbing	1	600.00 job	600.00

\_\_\_\_\_

\$ 10,921.43

# DAVE STE MARIE GRADE STABILIZATION PROJECT



T 150 N R 43 W  
SECTION 3  
TERREBONNE TWP.  
RED LAKE COUNTY  
LOCATION MAP

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE,  
JUDGMENT AND BELIEF, THESE PLANS MEET  
APPLICABLE NRCS STANDARDS AND SPECIFICATIONS.

BEFORE START OF CONSTRUCTION, THE OWNERS OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "GOPHER STATE ONE-CALL" AT (651) 454-0002 (TWIN CITIES METRO AREA) OR (800) 252-1166 (ALL OTHER LOCATIONS) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

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-- GOVERNING SPECIFICATIONS --  
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## SHEET INDEX

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4	GRADE STABILIZATION STRUCTURE - DETAILS

## LEGEND

SURVEY POINT	△ INST.#1
SOIL BORING	● TH#1
BUILDING	□
WELL	○ WELL
BENCH MARK, TEMPORARY	✦ TBM#1
ORIGINAL GROUND	— 90° —
CONTOUR, INDEX	— x —
FENCE, EXISTING	—   —
FENCE TO BE CONSTRUCTED	— ⊕ —
FENCE TO BE REMOVED	— ⊖ —
DIVERSION	— ~ ~ ~ —
STREAM	— ( wavy line ) —
MARSH	— ( wavy line with dots ) —
COMMON EXCAVATION	— ( circle with X ) —
EARTHFILL, CLASS C COMPACTION	— ( circle with dot ) —
EXISTING TILE LINE	— ( dashed line ) —
PLANNED TILE LINE	— ( solid line ) —
CENTERLINE OF IMPROVEMENTS	— ( line with center mark ) —
BASE LINE	— ( line with cross-ticks ) —
DECIDUOUS TREE	— ( circle with cross ) —
CONIFEROUS TREE	— ( triangle with cross ) —
IRON PIPE	— ( line with cross-ticks ) —
EMBANKMENT	— ( line with cross-ticks ) —
RIPRAP	— ( line with cross-ticks ) —
UTILITY POLE	— ( line with cross-ticks ) —

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.

JAMES HEST

Signature: *James Hest*  
Date: 8/13/20

Reg. No. 24511

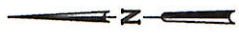
## SHEET INDEX, LEGEND AND LOCATION MAP

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY  
JAMES HEST, PE  
GRVCA, MINNESOTA 56727 (218) 294-6701

Drawn by JAH Checked by JAH Date 08-13-20 Sheet 1 of 4





# ESTIMATED QUANTITIES

Quantities are measured in place according to neat-line shown on the plans. No allowance is made for shrinkage, overlapping, connecting bands, joints, etc.

ITEM	QUANTITY	UNIT
Seed, Fertilize & Mulch	0.2	Acre
Compacted Earth Fill (Class C)	250	Cu. Yd.
Salvage and Spreading Topsoil	1	Job
30" PE Riser	1	Each
30" Anti-Vortex Trash Rack	1	Each
24" Dual-Wall Tile	130	Ln. Ft.
#4 Rebar	18	Ln. Ft.
Inlet Rock Riprap Class I ( $D_{50}=3"$ )	4	Cu. Yd.
Outlet Rock Riprap Class II ( $D_{50}=6"$ )	8	Cu. Yd.
Non-Woven Geotextile	20	Sq. Yd.
Concrete	1	Cu. Yd.
Clearing and Grubbing	1	Job



GRADE STABILIZATION STRUCTURE

DAVE STE MARIE

## PLAN AND QUANTITIES

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

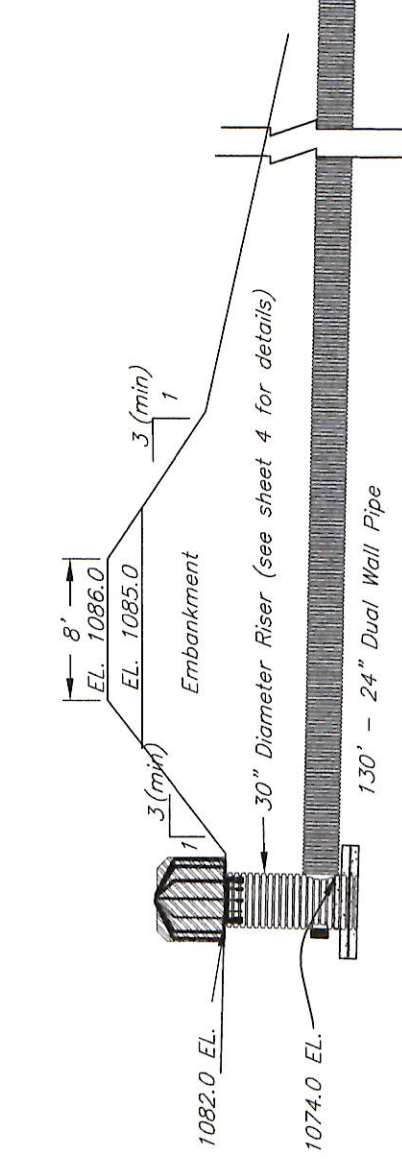
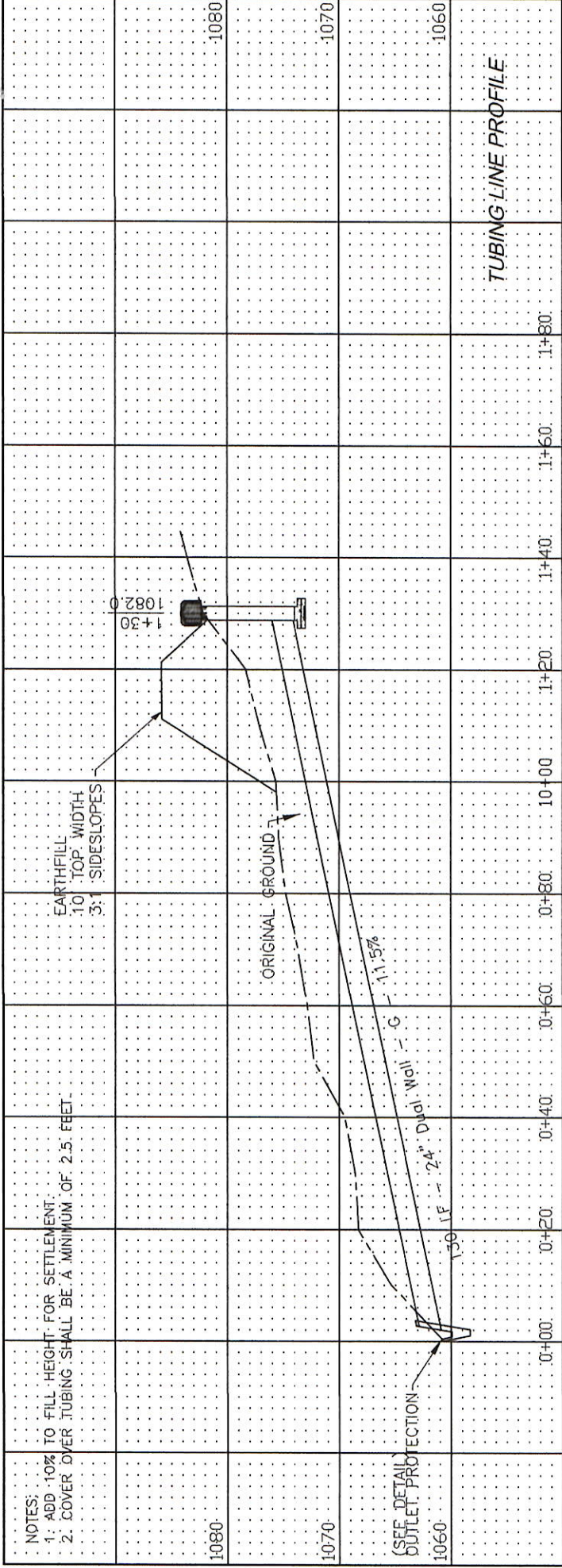
PREPARED BY  
JAMES HEST, PE  
P.O. BOX 126  
GRYGLA, MINNESOTA 56727  
Drawn by JAH | Checked by JAH | Date 08-13-20 | Sheet 2 of 4

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.

JAMES HEST

SIGNATURE: *James Hest*  
Date: 8/13/20 Reg. No. 24511



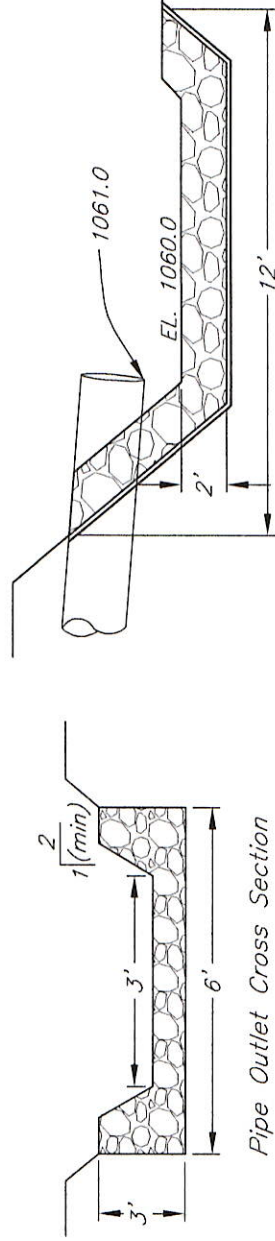


**MNDOT**

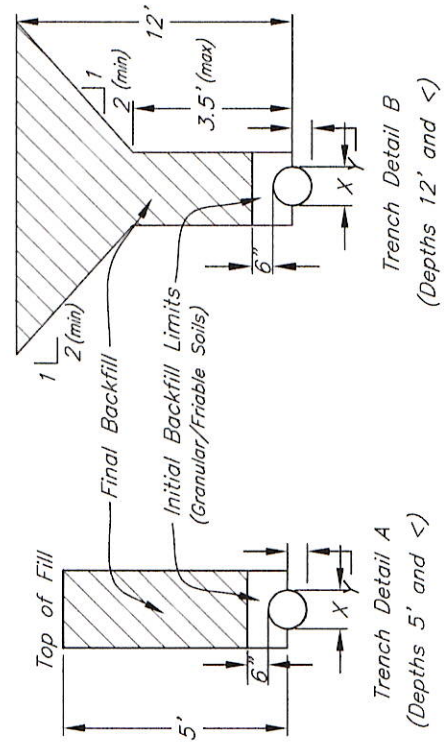
Class I
100% - 6"
50% - 3"
10% - 1"
12" Thickness

**Trench Spoon Dimensions**

DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"



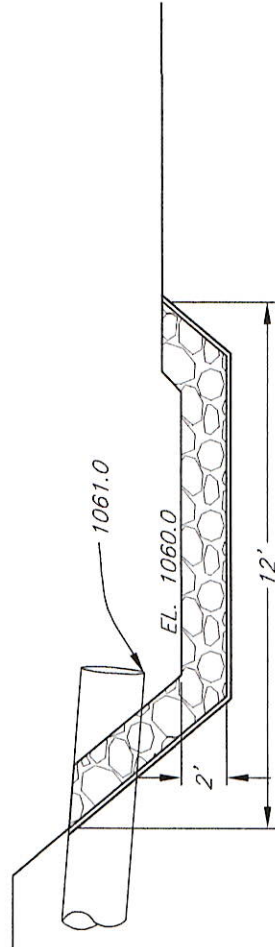
**Outlet Protection Details**



**Trenching Details**

**MNDOT**

Class II
100% - 12"
75% - 9"
50% - 6"
10% - 2"
24" Thickness



**Pipe Outlet Profile**

**DAVE STE MARIE**

**GRADE STABILIZATION STRUCTURE  
PROFILE AND DETAILS**  
Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

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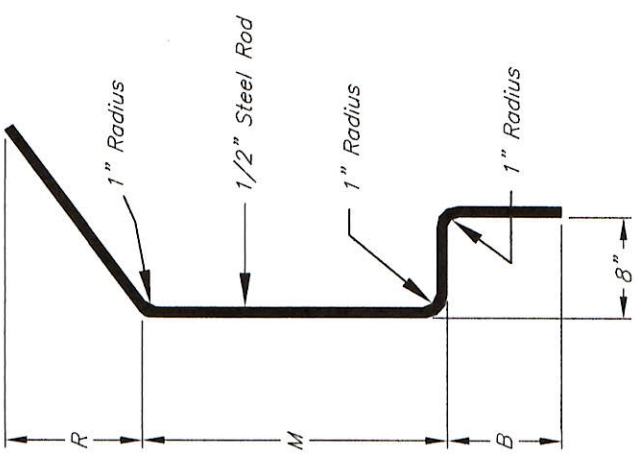
**JAMES HEST**  
Signature: *James Hest*  
Date: 8/13/20 Reg. No. 24511

PREPARED BY  
**JAMES HEST, PE**  
P.O. BOX 126  
GRYGA, MINNESOTA 56727  
Drawn by JAH Checked by JAH Date 08-13-20 Sheet 3 of 4

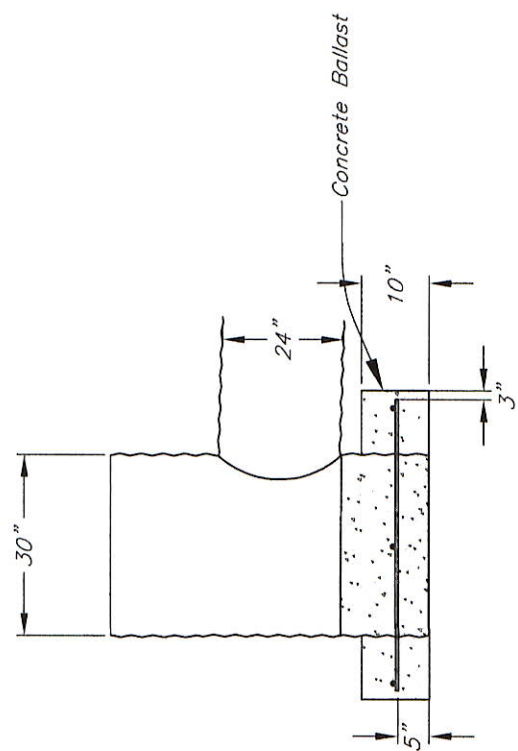


*Trash Rack & Anti-Vortex Dimensions*

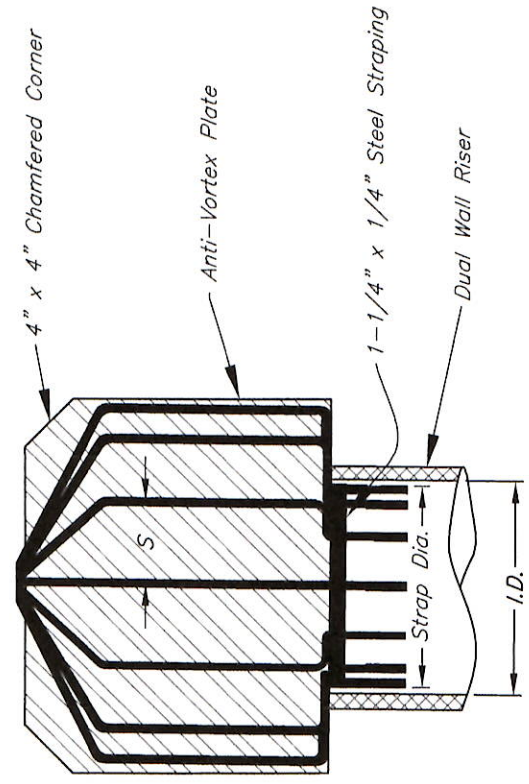
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	W In.	L In.
12	11 1/4	5-6	9	9	12	20	28
15	14 1/4	5-6	9	9	13	21	31
18	17 1/4	6-7	9	9	14	22	34
24	23 1/4	7-8	12	15	11	25	40
30	29 1/4	8-9	12	18	10	27	46
36	35 1/4	9-10	12	21	9	29	52



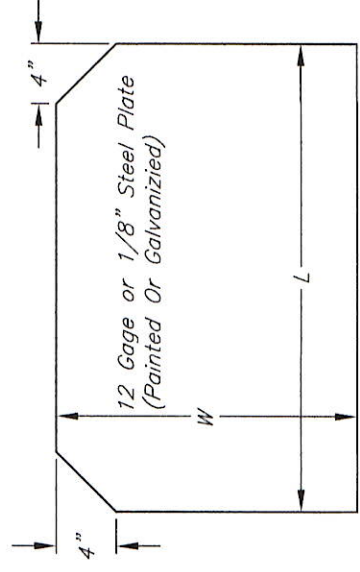
Rod Bending Detail



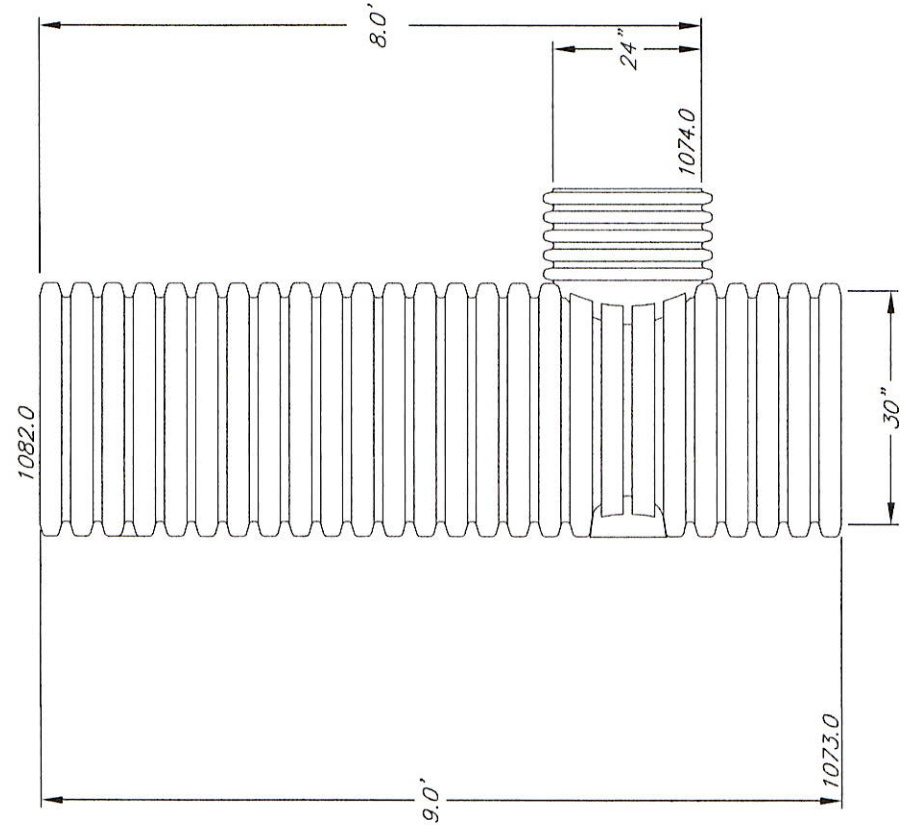
Riser Ballast Detail



Trash Rack / Anti-Vortex Detail



Anti-Vortex Detail



Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet width around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
2. Trash Rack/Antivortex requires anchoring at each end of the anti-vortex with a fence post or anchor driven into the ground a minimum 2.5 to 3'.
3. Steel reinforcement is #4 Bar. Concrete will require adequate consolidation to eliminate voids, honeycomb and fully encase rebar and embedments.

DAVE STE MARIE

GRADE STABILIZATION STRUCTURE  
DETAILS  
Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

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.

JAMES HEST  
Signature: *James Hest*  
Date: 2/13/20  
Reg. No. 24511

PREPARED BY  
JAMES HEST, PE  
P.O. BOX 126  
GRYGA, MINNESOTA 56727  
Checked by JAH Date 08-13-20 Sheet 4 of 4

Red Lake County SWCD  
2602 Wheat Drive – Suite 103  
Red Lake Falls, MN 56750

September 16, 2020

Myron Jesme, Administrator  
Red Lake Watershed District  
1000 Pennington Avenue  
Thief River Falls, MN 56701

Red Lake County SWCD would like to request \$7,521.00, from the Red Lake Watershed District, for the installation of seven Grade Stabilization Projects in Red Lake County.

The project that needs local assistance is located in Gervais Township Sections 32 and 34. Jim Hest, Engineer has completed the survey and final design work for the project. The project received two bids. The Red Lake County SWCD Board of Supervisors approved Ryan's Backhoe Service bid at the September 14, 2020 board meeting.

The Red Lake County SWCD would like to request \$7,521.00 from the Red Lake Watershed District to assist with the local match requirement for this project. The total project cost was \$50,484.46. Red Lake County SWCD received a 2020 BWSR Clean Water Fund grant to fund this project. The local match requirement is \$12,621.12. The property owner will be in charge of paying \$5,100.12; if the Red Lake Watershed District approves the \$7,521.00 request.

If you have any questions please give me a call at (218)253-2593.

Thank you,

Tanya Waldo, District Manager  
Red Lake County SWCD



## Grade Stabilization Bids

Ryan Sherman <ryansbackhoe@gmail.com>

Mon 9/7/2020 9:05 PM

To: Tanya Hanson <tanya.hanson@redlake.mnswcd.org>

 1 attachments (2 MB)

Grade Stablization Structure Bids 2020.pdf;

Hello Tayna

I have attached the 4 bids for the drop structures , not sure when you guys are going to decide on the Bids but can you let me know when that is and what the decision ends up being.

Thank you

Ryan Sherman

Bid Sheet

jah

Producer: Ralph Perrault  
 County: Red Lake  
 Township: Gervais  
 Section: 32

Engineering Practices: Grade Stabilization Structure - PS 410

ITEM	QUANTITY	UNIT COST	UNIT	TOTAL COST
Seed, Fertilize & Mulch	0.2	800.00	acre	160.00
Earthfill	200	7.92	cu yd	1584.00
18" PE Riser	1	389.03	each	389.03
18" Anti-vortex Trash Rack	1	138.94	each	138.94
12" Dual Wall PF/NP Tile	120	8.33	ln ft	999.60
30" PE Riser	1	1553.96	ls	1553.96
30" Anti-Vortex Trash Rack	1	764.16	ls	764.16
24" Dual Wall PF/NP Tile	80	25.00	ln ft	2000.00
#4 Rebar	38	.65	ln ft	24.70
Inlet Rock Riprap	8	72.00	cu yd	576.00
Outlet Rock Riprap	30	72.00	cu yd	2160.00
Geotextile	80	1.30	sq yd	104.00
Concrete	2	211.61	cu yd	423.22
Clearing and Grubbing	1	1500.00	job	1500.00
18" CMP	90	23.16	ln ft	2084.40
18" Steel Apron	2	131.70	each	263.40
MOB/Demob		750.00		750.00

Total

15,475.41

Bid Sheet

jah

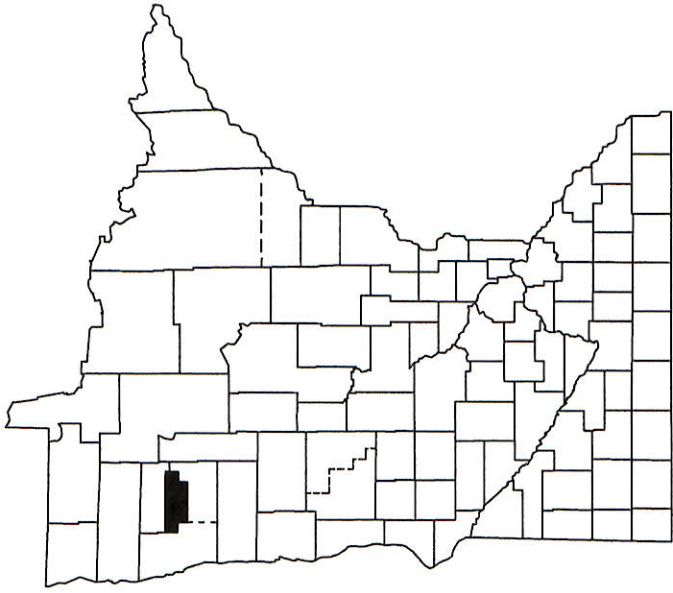
Producer: Ralph Perrault  
 County: Red Lake  
 Township: Gervais  
 Section: 34

Engineering Practices: Grade Stabilization Structure - PS 410

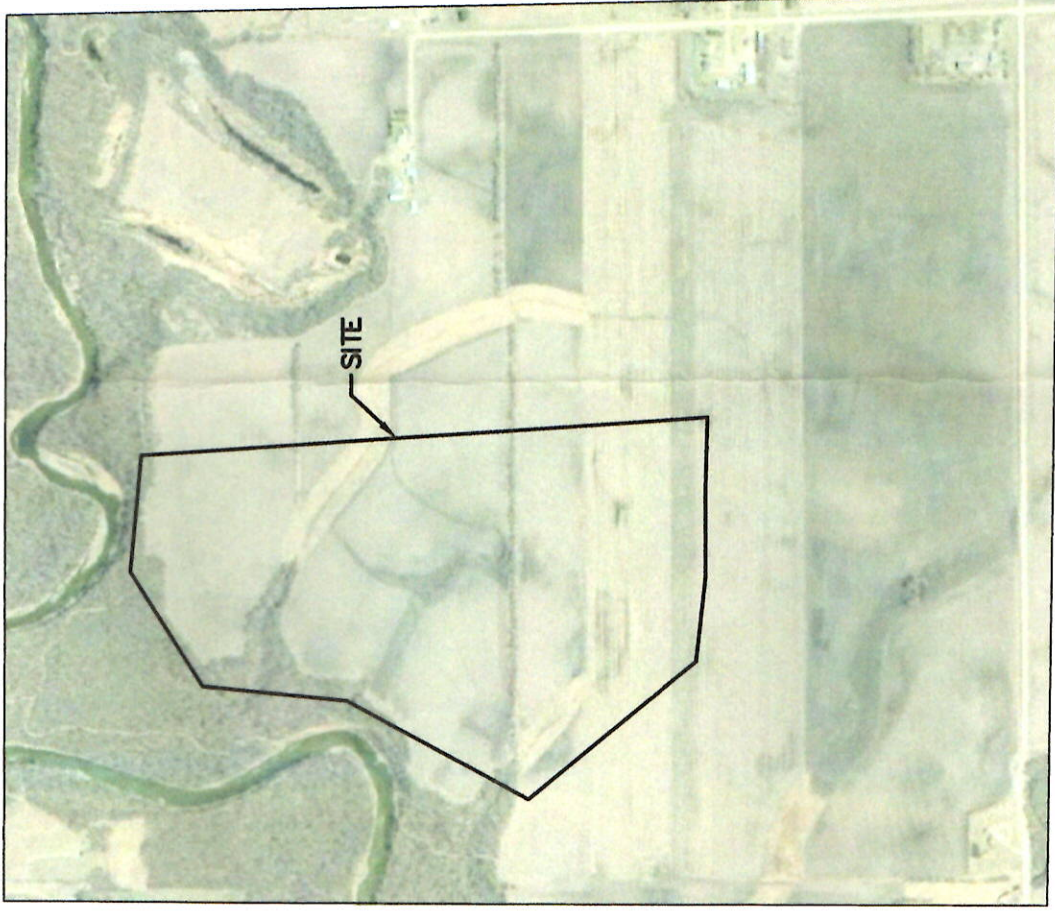
ITEM	QUANTITY	UNIT COST	TOTAL COST
Seed, Fertilize & Mulch	0.6	800. / acre	480.00
Earthfill	1400	7.92 / cu yd	11,088.00
24" Anti-Vortex Trash Rack	1	641.25 / ls	641.25
24" PE Riser	1	797.43 / ls	797.43
15" Dual Wall PF/NP Tile	120	11.46 / ln ft	1,375.20
30" PE Riser	2	1553.96 / ls	3,107.92
30" Anti-Vortex Trash Rack	2	764.16 / ls	1,528.32
24" Dual Wall PF/NP Tile	150	25.00 / ln ft	3,750.00
#4 Rebar	60	65 / ln ft	3,900.00
Inlet Rock Riprap	12	72.00 / cu yd	864.00
Outlet Rock Riprap	24	72.00 / cu yd	1,728.00
Rock Chute Riprap	75	72.00 / each	5,400.00
Geotextile	250	1.30 / sq yd	325.00
Concrete	3	211.61 / cu yd	634.83
Clearing and Grubbing	1	2500.00 / job	2,500.00
Mob/Demob		750.00	750.00

Total

35,009.05



# RALPH PERRAULT GERVAIS 32 PROJECT



T 151 N R 43 W  
SECTION 32  
GERVAIS TWP.  
RED LAKE COUNTY  
LOCATION MAP

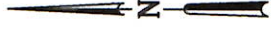
TO THE BEST OF MY PROFESSIONAL KNOWLEDGE,  
JUDGMENT AND BELIEF, THESE PLANS MEET  
APPLICABLE NRCS STANDARDS AND SPECIFICATIONS.

BEFORE START OF CONSTRUCTION, THE OWNERS OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "GOPHER STATE ONE-CALL" AT (651) 454-0002 (TWIN CITIES METRO AREA) OR (800) 252-1166 (ALL OTHER LOCATIONS) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

THE OWNER IS RESPONSIBLE FOR OBTAINING LAND RIGHTS AND ALL PERMITS OR OTHER PERMISSION NECESSARY TO PERFORM AND MAINTAIN THE PROJECT.

-- GOVERNING SPECIFICATIONS --  
THE CONSTRUCTION AND MATERIALS SPECIFICATIONS PREPARED FOR THIS PROJECT SHALL GOVERN. THESE SPECIFICATIONS ARE PART OF THE PLAN.

CHANGES IN THE DRAWINGS OR SPECIFICATIONS MUST BE AUTHORIZED BY THE OWNER AND THE RESPONSIBLE ENGINEER. THE OWNER IS RESPONSIBLE FOR CONTACTING THE RED LAKE SWCD AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.



## SHEET INDEX

SHEET NO.	TITLE
1	SHEET INDEX, LEGEND, & LOCATION MAP
2	PLAN AND QUANTITIES
3	GRADE STABILIZATION STRUCTURE 52 - PROFILE AND DETAILS
4	GRADE STABILIZATION STRUCTURE 53 - PROFILE AND DETAILS
5	GRADE STABILIZATION STRUCTURE 54 - PROFILE AND DETAILS
6	GRADE STABILIZATION STRUCTURE 53.2
7	GRADE STABILIZATION STRUCTURE 53.2
8	GRADE STABILIZATION STRUCTURE 54

## LEGEND

SURVEY POINT	△ INST.#1
SOIL BORING	● TH#1
BUILDING	□
WELL	○ WELL
BENCH MARK, TEMPORARY	✚ TBM#1
ORIGINAL GROUND	---
CONTOUR, INDEX	---90---
FENCE, EXISTING	—x—x—
FENCE TO BE CONSTRUCTED	— — —
FENCE TO BE REMOVED	—○—○—
DIVERSION	~~~~~
STREAM	~~~~~
MARSH	~~~~~
COMMON EXCAVATION	⊕ ⊖
EARTHFILL, CLASS C COMPACTION	⊕ ⊖
EXISTING TILE LINE	—○—○—
PLANNED TILE LINE	—○—○—
CENTERLINE OF IMPROVEMENTS	—○—○—
BASE LINE	—○—○—
DECIDUOUS TREE	⊙
CONIFEROUS TREE	⊙
IRON PIPE	⊙
EMBANKMENT	⊙
RIPRAP	⊙
UTILITY POLE	⊙

## SHEET INDEX, LEGEND AND LOCATION MAP

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY

JAMES HEST, PE

P.O. Box 126

GRYGLA, MINNESOTA 56727

(218)

294-6701

1 of 8

Date 8/1/20 Reg. No. 24511

Checked by JAH

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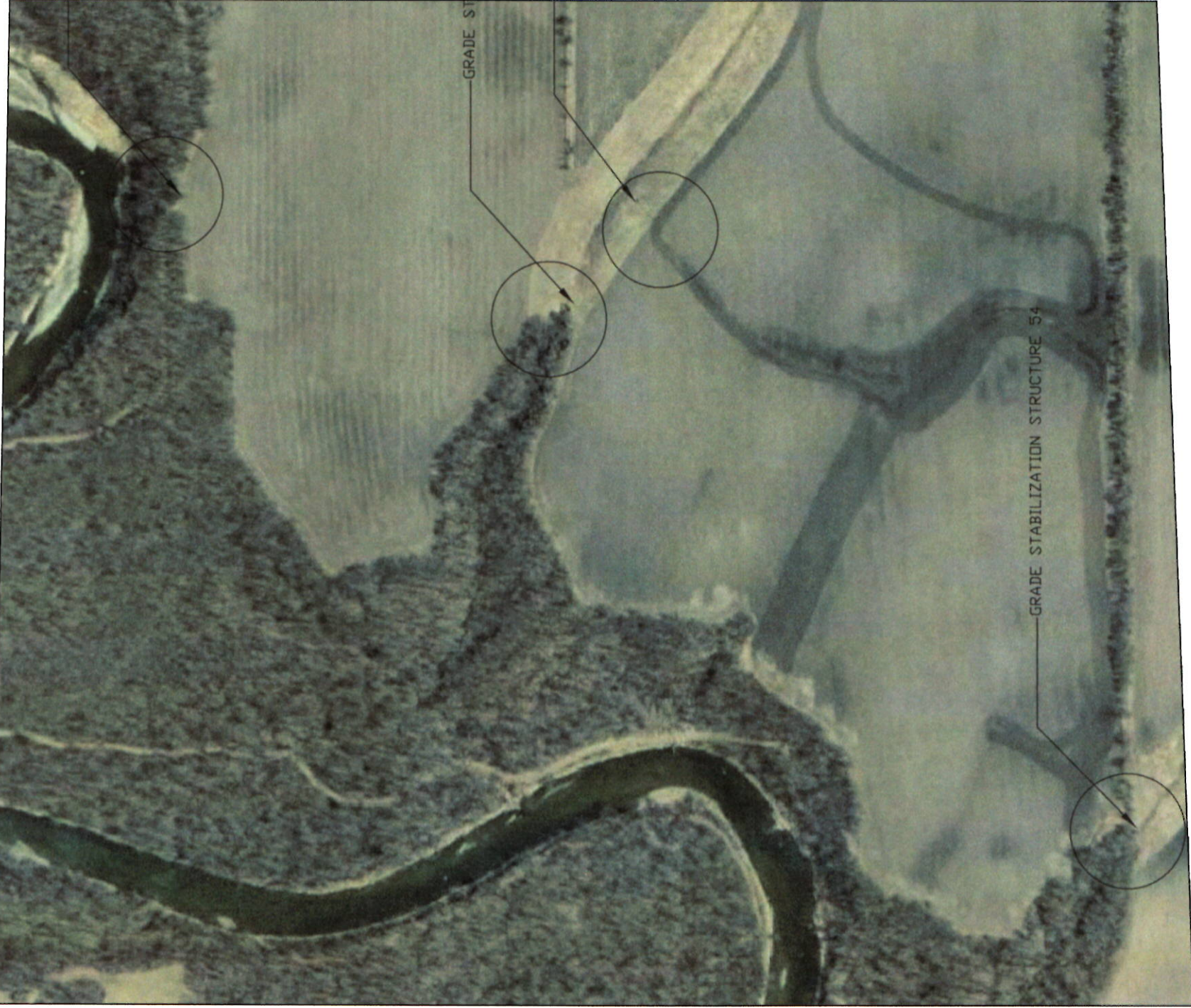
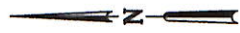
Checked by JAH

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# ESTIMATED QUANTITIES

Quantities are measured in place according to neat-line shown on the plans. No allowance is made for shrinkage, overlapping, connecting bands, joints, etc.

ITEM	QUANTITY	UNIT
Seed, Fertilize & Mulch	0.2	Acre
Compacted Earth Fill (Class C)	200	Cu. Yd.
Salvage and Spreading Topsoil	1	Job
18" PE Riser	1	Each
18" Anti-Vortex Trash Rack	1	Each
12" Dual-Wall Tile	120	Ln. Ft.
30" PE Riser	1	Each
30" Anti-Vortex Trash Rack	1	Each
24" Dual-Wall Tile	80	Ln. Ft.
#4 Rebar	36	Ln. Ft.
Inlet Rock Riprap Class I ( $D_{50}=3"$ )	8	Cu. Yd.
Outlet Rock Riprap Class II ( $D_{50}=6"$ )	30	Cu. Yd.
Non-Woven Geotextile	80	Sq. Yd.
Concrete	2	Cu. Yd.
Clearing Grubbing	1	Job
18" CMP w/24" Connecting Bands	90	Ln. Ft.
18" Steel Apron	2	Each

RALPH PERRAULT

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.

JAMES HEST

SIGNATURE: *James Hest*

Date: *8/17/20* Reg. No. 24511

## PLAN AND QUANTITIES

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

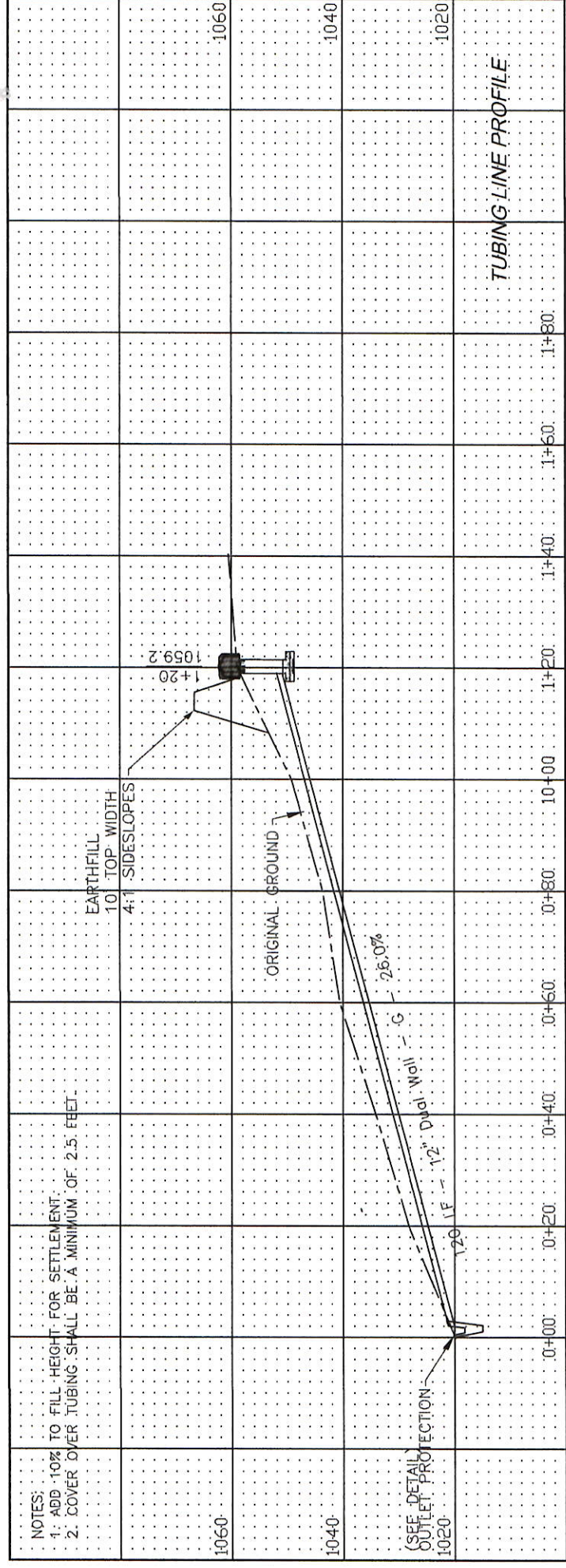
PREPARED BY

JAMES HEST, PE

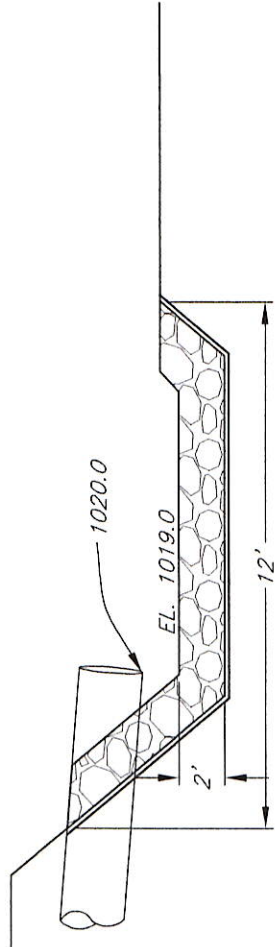
P.O. BOX 126 CRYOLA, MINNESOTA 55727 (218) 294-6701

Drawn by JAH Checked by JAH Date 08-07-20 Sheet 2 of 8

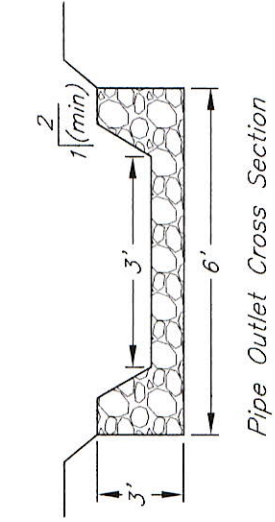




NOTES:  
 1. ADD 10% TO FILL HEIGHT FOR SETTLEMENT.  
 2. COVER OVER TUBING SHALL BE A MINIMUM OF 2.5 FEET.



Pipe Outlet Profile

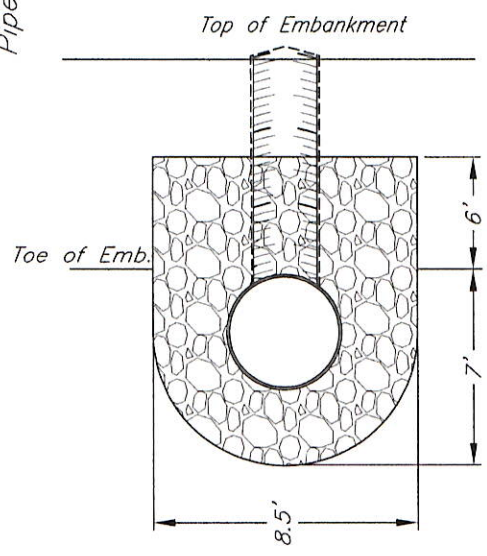


Pipe Outlet Cross Section

Outlet Protection Details

Pipe Profile

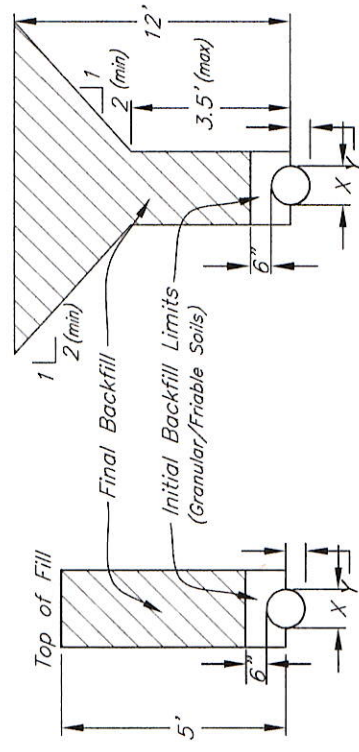
MNDOT Class I	100% - 6"	50% - 3"	10% - 1"	24" Thickness
---------------	-----------	----------	----------	---------------



Inlet Protection Details

DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"

Trench Spoon Dimensions



Trench Detail A  
(Depths 5' and <)

Trench Detail B  
(Depths 12' and <)

Trenching Details

RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
 #52 PROFILE AND DETAILS

Red Lake Soil & Water Conservation District  
 Red Lake County, Minnesota

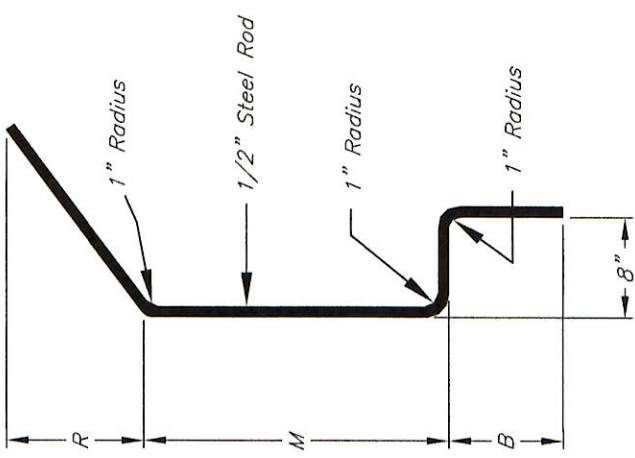
PREPARED BY  
 JAMES HEST, PE  
 GRYGLA, MINNESOTA 56727 (218) 294-6701  
 Drawn by JAH Checked by JAH Date 08-7-20 Sheet 3 of 8

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.

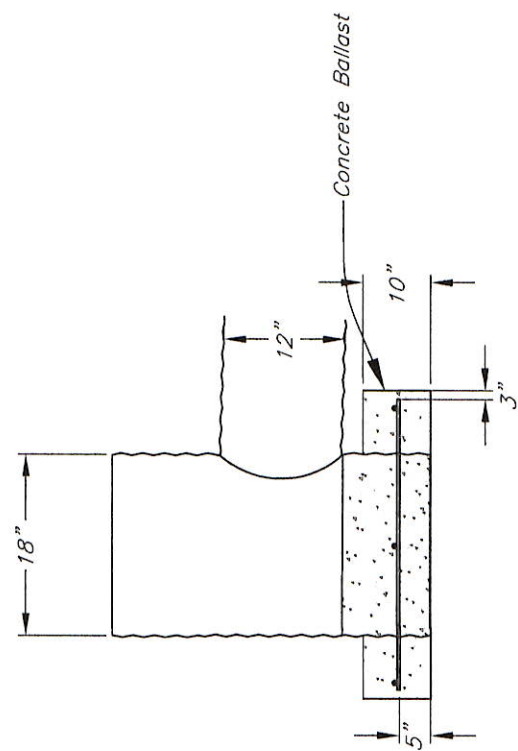
JAMES HEST  
 Signature: *James Hest*  
 Date: 8/17/20 Reg. No. 24511



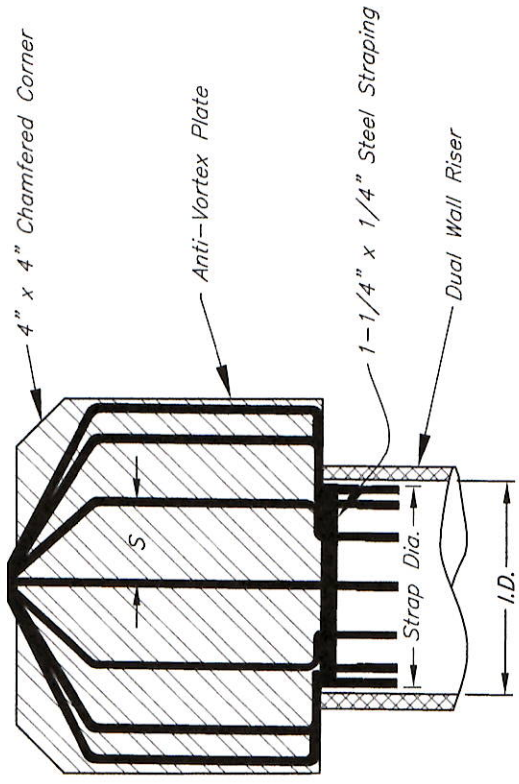
Trash Rack & Anti-Vortex Dimensions							
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	W In.	L In.
12	11 1/4	5-6	9	9	12	20	28
15	14 1/4	5-6	9	9	13	21	31
18	17 1/4	6-7	9	9	14	22	34
24	23 1/4	7-8	12	15	11	25	40
30	29 1/4	8-9	12	18	10	27	46
36	35 1/4	9-10	12	21	9	29	52



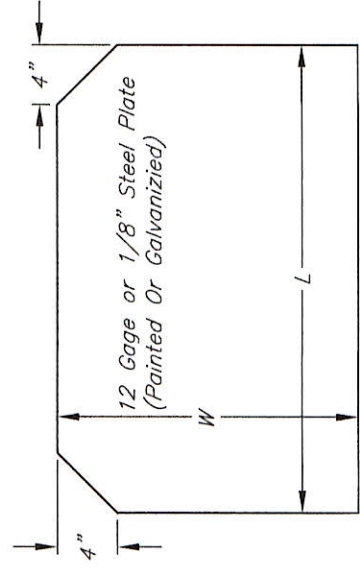
Rod Bending Detail



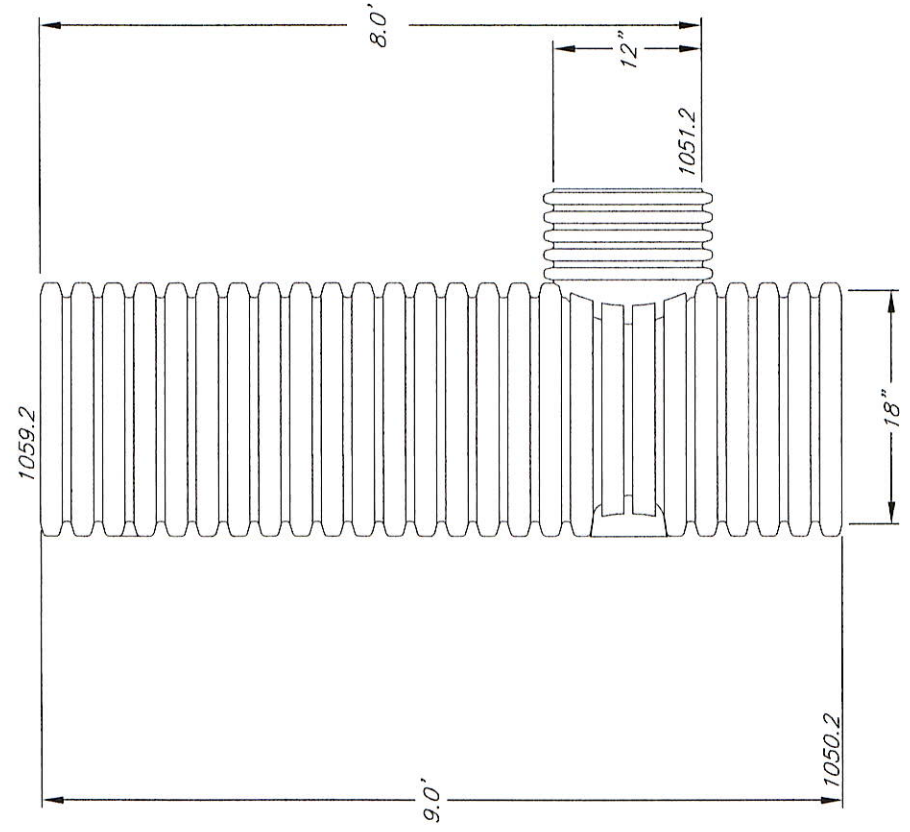
Riser Ballast Detail



Trash Rack / Anti-Vortex Detail



Anti-Vortex Detail



Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet width around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
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RALPH PERRAULT

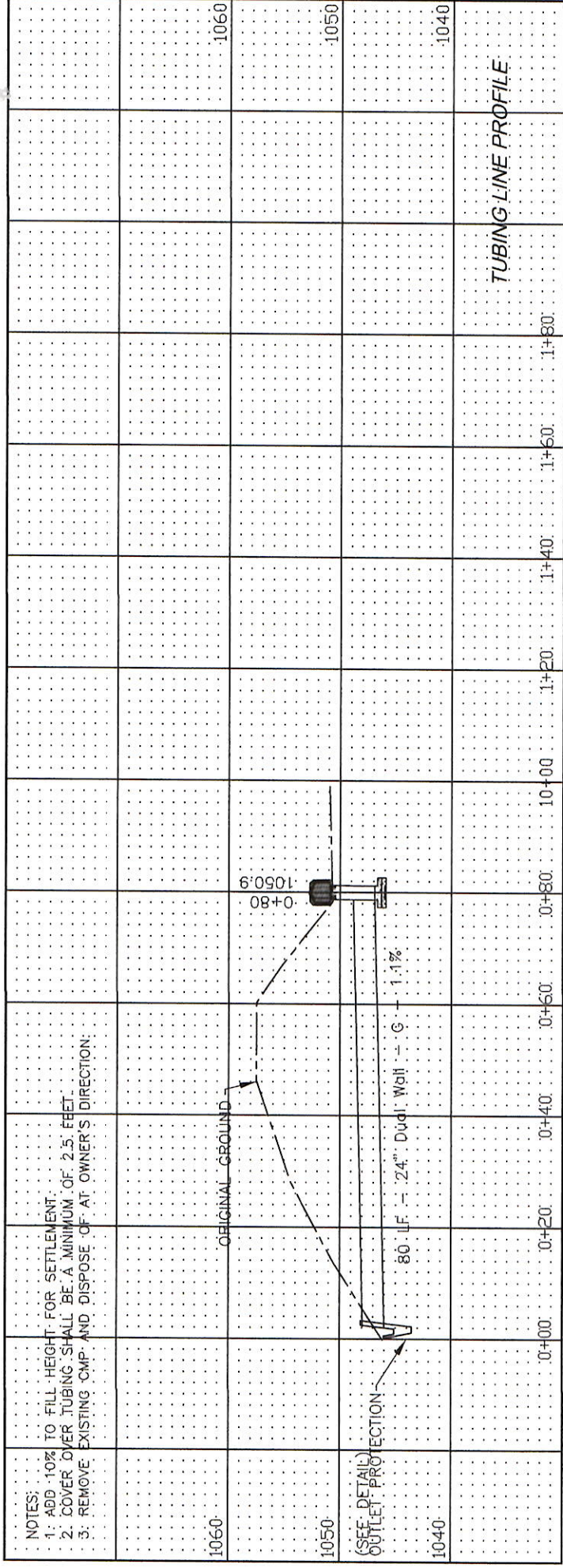
GRADE STABILIZATION STRUCTURE  
#52 DETAILS  
Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

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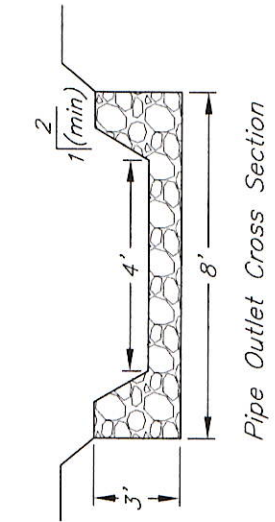
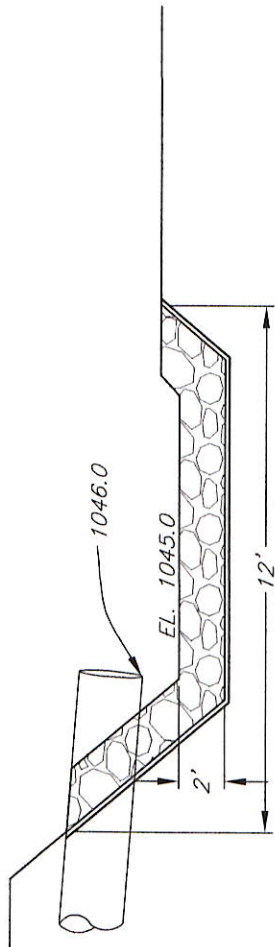
JAMES HEST  
Signature: *James Hest*  
Date: *8/27/20* Reg. No. 24511

PREPARED BY  
JAMES HEST, PE  
P.O. BOX 126  
GRYGLA, MINNESOTA 56727  
Drawn by JAH Checked by JAH Date 08-07-20 Sheet 4 of 8

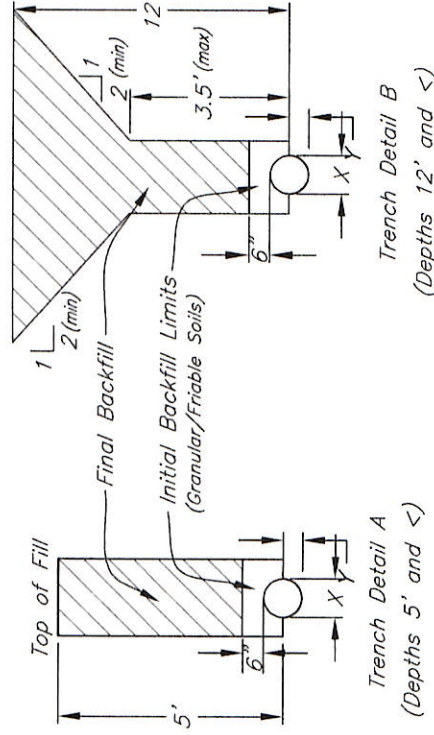




NOTES:  
 1. TO FILL HEIGHT FOR SETTLEMENT.  
 2. COVER OVER TUBING SHALL BE A MINIMUM OF 2.5' FEET.  
 3. REMOVE EXISTING CMP AND DISPOSE OF AT OWNER'S DIRECTION.



Outlet Protection Details



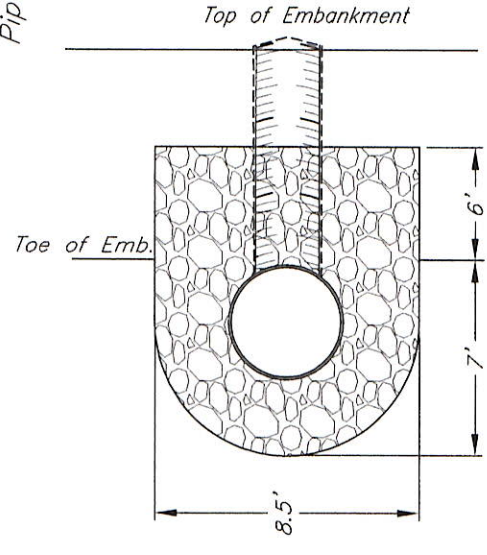
DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"

Trench Spoon Dimensions

MNDOT Class	Thickness
Class I	6"
100%	3"
50%	1"
10%	1"

12" Thickness

Pipe Profile



Inlet Protection Details

Trenching Details

RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
 #53 PROFILE AND DETAILS

Red Lake Soil & Water Conservation District  
 Red Lake County, Minnesota

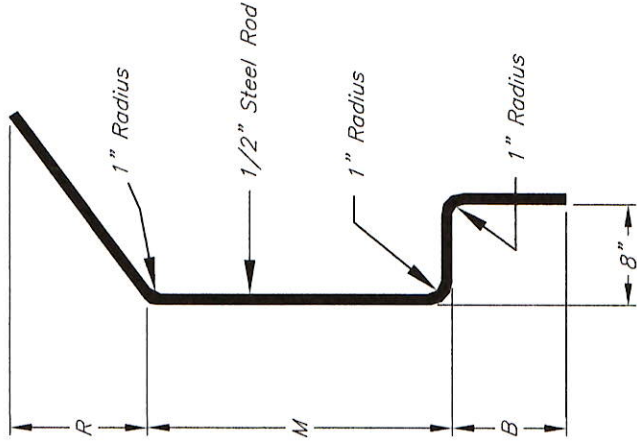
PREPARED BY  
 JAMES HEST, PE  
 GRYGLA, MINNESOTA 56727 (218) 294-6701  
 Drawn by JAH Checked by JAH Date 09-7-20 Sheet 5 of 8

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.

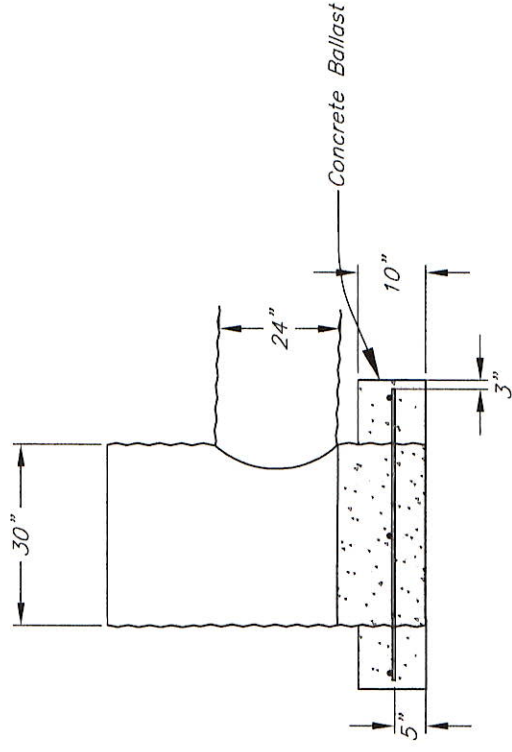
JAMES HEST  
 Signature: *[Signature]*  
 Date: 9/7/20 Reg. No. 24511



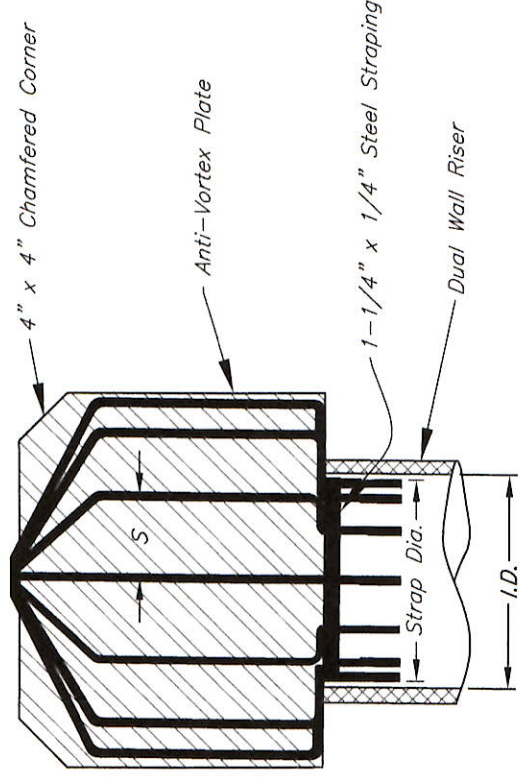
Trash Rack & Anti-Vortex Dimensions							
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	W In.	L In.
12	11 1/4	5-6	9	9	12	20	28
15	14 1/4	5-6	9	9	13	21	31
18	17 1/4	6-7	9	9	14	22	34
24	23 1/4	7-8	12	15	11	25	40
30	29 1/4	8-9	12	18	10	27	46
36	35 1/4	9-10	12	21	9	29	52



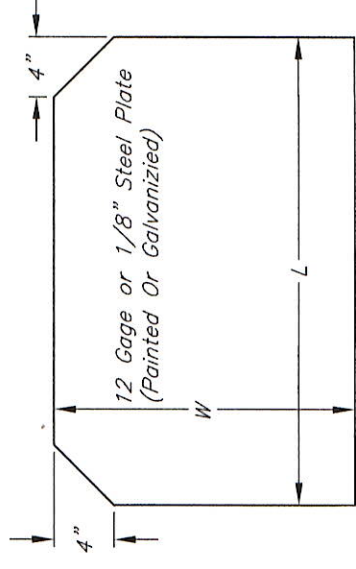
Rod Bending Detail



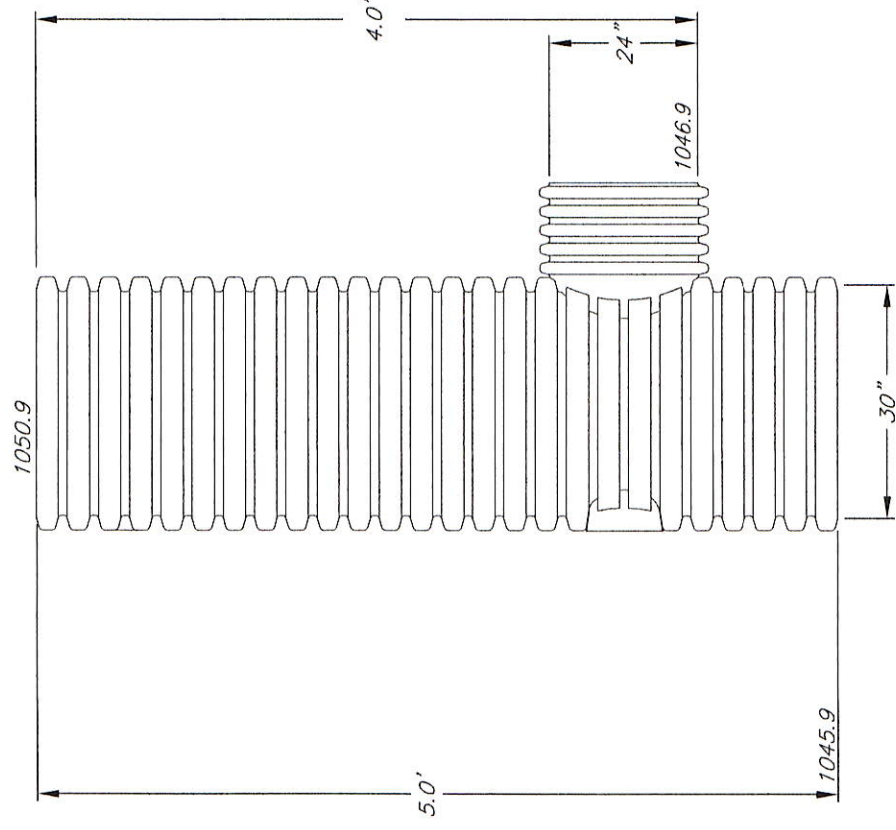
Riser Ballast Detail



Trash Rack / Anti-Vortex Detail



Anti-Vortex Detail



Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet wide around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
2. Trash Rack/Antivortex requires anchoring at each end of the anti-vortex with a fence post or anchor driven into the ground a minimum 2.5 to 3'.
3. Steel reinforcement is #4 Bar. Concrete will require adequate consolidation to eliminate voids, honeycomb and fully encase rebar and embedments.

RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
#53 DETAILS

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY  
JAMES HEST, PE

P.O. BOX 126  
GRYGLA, MINNESOTA 56727

Drawn by JAH Checked by JAH Date 08-07-20 Sheet 6 of 8

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.

JAMES HEST  
Signature: *James Hest*  
Date: 8/17/20 Reg. No. 24511

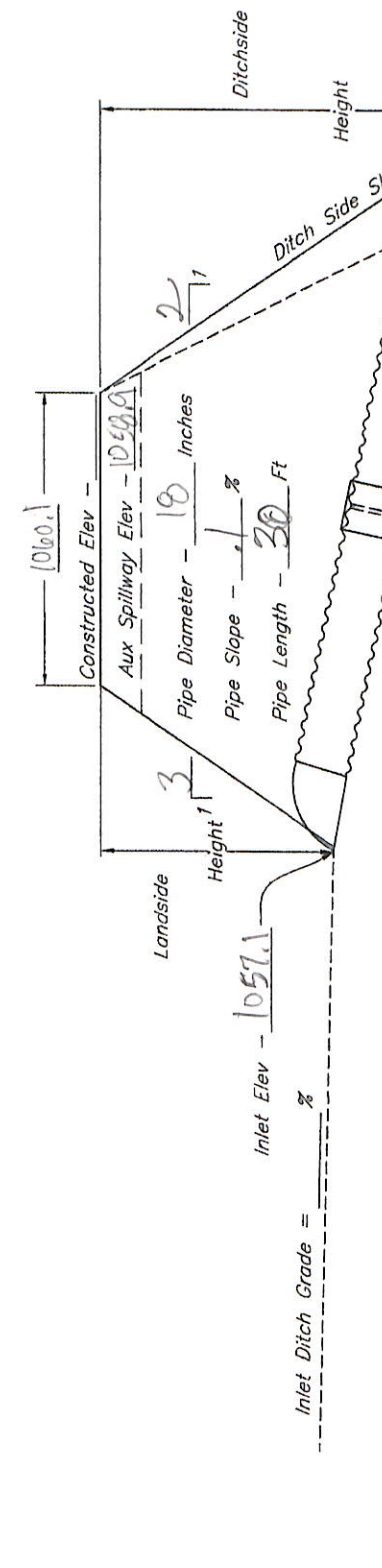


Date 8/19/20  
 Designed JAH  
 Drawn JAH  
 Checked JAH  
 Approved JAH

PERFAULT  
 T15IN R43W  
 SEC 11  
 GRADE STABILIZATION STRUCTURE 53.2

**Construction Notes:**  
 1. Initial Fill - fill material under the pipe haunch (lower third) shall be free of rocks and clods over 3" in diameter. Initial fill should be tamped with a 2 x 4 inch lumber or an equivalent to ensure uniform placement.  
 2. Final Fill - fill material over pipe haunch shall be free of rock and soil clods over 6" in diameter and placed in lifts of 9" before compaction. Final fill material shall be compacted to a density equal to adjoining undisturbed ground. Dozer compaction will require at a minimum complete coverage of area with the track and lifts not to exceed 5" before compaction.  
 3. Fill material shall be placed alternately on each side of the pipe at equal elevations. Hand equipment or mechanical tampers are required for final fill compaction. The moisture content of the backfill material should form a ball when kneaded by hand and will not readily separate.  
 4. Connecting bands shall be free of soil during installation and tapped with a mallet while tightening to insure a tight joint. Pipe head > 5 feet require watertight connecting bands. Connecting bands may be supplied with gaskets or asphalt mastic where water-tightness is required.  
 5. Trench depths > than 5' require OSHA approved trenching procedures.  
 6. REMOVE EXISTING CMP AND DISPOSE OF AT OWNER'S DIRECTION.

**DNR Permit Information**  
 (If Applicable)  
 Low Bank Elev - \_\_\_\_\_  
 O-HWL Elev - \_\_\_\_\_

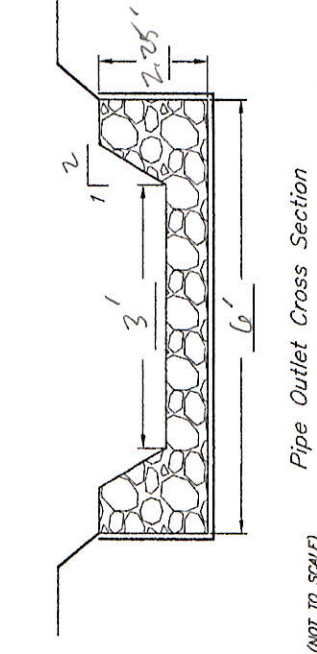
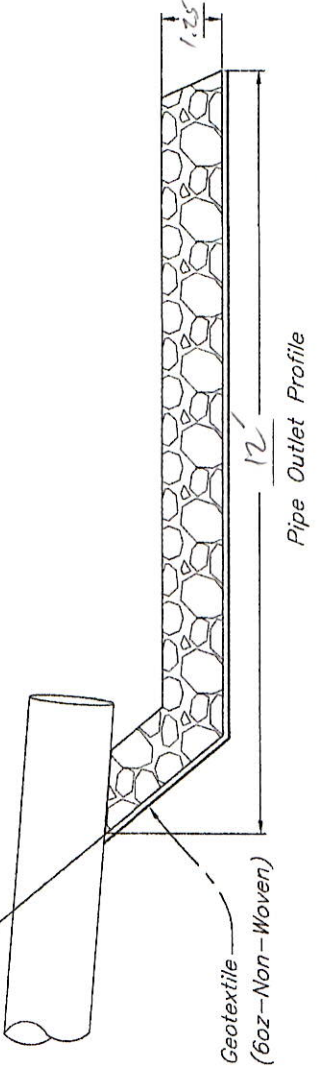


MNDOT II	MNDOT III
15" - Thickness	24" - Thickness
100% - 12"	100% - 18"
75% - 9"	75% - 12"
50% - 6"	50% - 9"
10% - 2"	10% - 3"

Discharge Q < 25 cfs | Discharge Q < 38 cfs

**Pipe Length:**  
 Landside -  $\frac{4}{3} \times \frac{3}{12} = \frac{12}{12}$   
 Top Width -  $\frac{4.1}{2} \times \frac{2}{0.2} = \frac{0.2}{0.2}$   
 Ditchside -  $\frac{4.1}{2} \times \frac{2}{0.2} = \frac{0.2}{0.2}$   
 Total =  $22.2 - 2.6 = 29.6$  (Apron L) Pipe Length

**Design Information:**  
 Peak Discharge  $Q_{10} = 10$  CFS - (EFH2); Drainage Area < 40 Acres  
 Drainage Curve  $Q = 5.0$  CFS - (Minimum pipe capacity)  
 Pipe Head = 1.8 Ft - (Aux Spillway Elev - Pipe Inlet Elev)  
 Pipe Diameter = 18 Inches; Pipe Capacity = 7.1 CFS -  
 Aux Spillway Capacity = 2.9 CFS - (Peak Discharge  $Q_{10}$  - Pipe Capacity)  
 Aux Spillway Width = 10 Ft - (Chart) Aux Spillway Depth = 1.5 Ft - (Chart)  
 Aux Spillway Location = \_\_\_\_\_ LDS: \_\_\_\_\_ RDS: \_\_\_\_\_ Both: \_\_\_\_\_



**MN Drainage Curve**  
 Curve #3

Acres	CFS
10	1.3
20	2.6
30	3.9
40	5.0
50	6.2
60	7.4
70	8.4
80	9.4
90	10.0
100	11.0
110	12.0
120	13.0
130	14.0
140	15.0
150	16.0
160	17.0
170	18.0
180	19.0
190	20.0
200	21.0
220	22.0
240	24.0

**PIPE CAPACITY CHART**

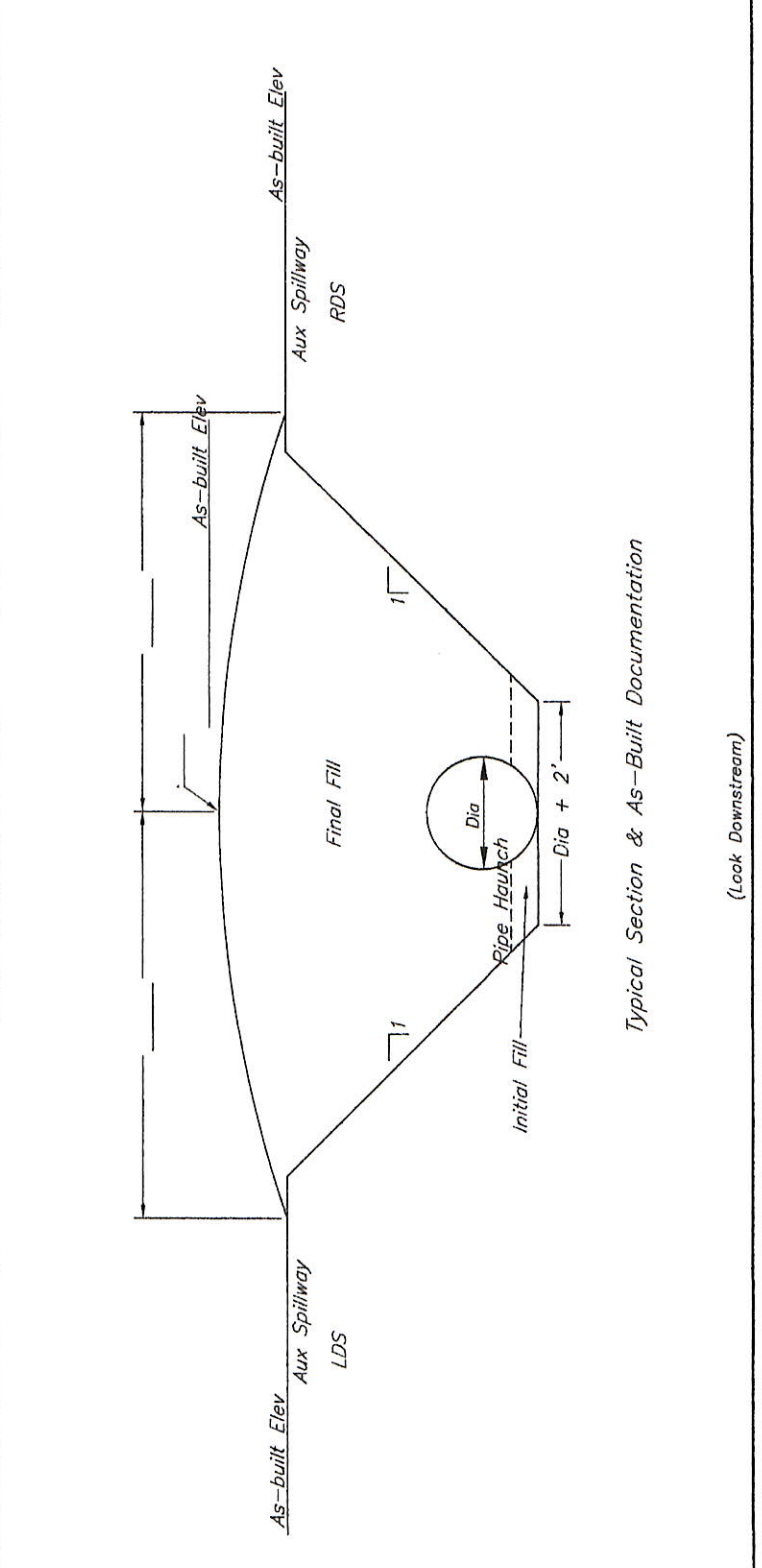
Head (H) Feet	Pipe Capacities - CFS			
	15"	18"	21"	24"
1.0	2.8			30"
1.2	3.8			
1.4	4.2	5.7		
1.5	4.4	6.1	7.5	8.3
1.6	4.5	6.6	8.1	9.2
1.8	4.9	7.1	9.5	11.0
2.0	5.4	7.6	10.4	12.8
2.2	5.6	8.2	11.4	13.9
2.4	6.0	8.9	12.1	15.0
2.5	6.1	9.0	12.4	15.6
2.6	6.3	9.2	12.9	16.0
2.8	6.5	9.6	13.6	17.0
3.0	6.8	10.2	14.3	18.0
3.2	7.0	10.6	15.0	19.0
3.4	7.2	11.0	15.6	19.8
3.5	7.4	11.2	15.9	20.1
3.6	7.6	11.4	16.1	20.4
3.8	7.8	11.9	16.6	21.1
4.0	8.1	12.1	17.2	21.9

**AUXILIARY SPILLWAY CAPACITIES**

WIDTH FEET	DEPTH - FEET	CAPACITY - CFS
0.5	0.6	1.0
10	6	9
15	9	13
20	12	17
25	15	22
30	18	26

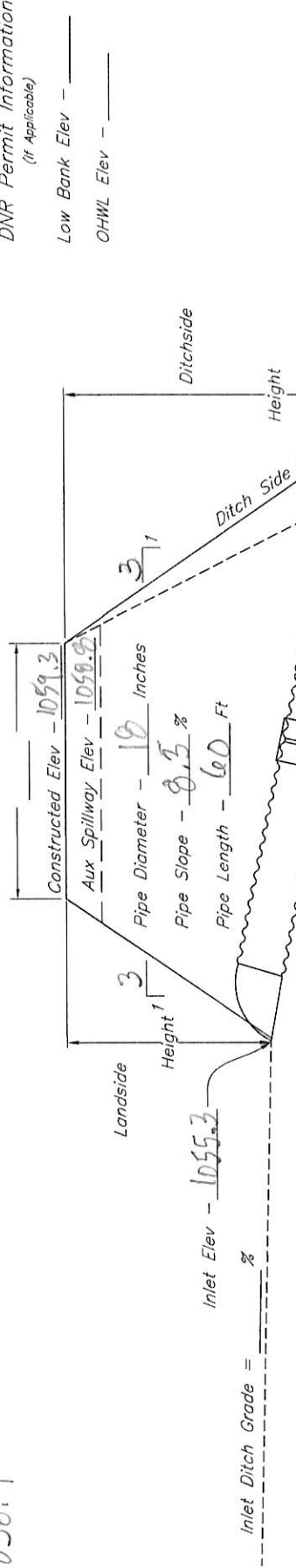
**Apron Lengths**

Diameter inches	Length inches	Length feet
15	26	2.2
18	31	2.6
21	36	3.0
24	41	3.4
30	51	4.2





BM = 1058.9



Pipe Length:

$$\text{Landside} = \frac{4}{\text{Height}} \times \frac{3}{\text{SS}} = \frac{12}{20}$$

$$\text{Top Width} = \frac{9}{\text{Height}} \times \frac{3}{\text{SS}} = \frac{27}{21}$$

$$\text{Ditchside} = \frac{9}{\text{Height}} \times \frac{3}{\text{SS}} = \frac{27}{21}$$

Total = 59 - 2.6 = 56.4 (Apron L)

Design Information:

Peak Discharge  $Q_{10} = 8$  CFS - (EFH2); Drainage Area 40 Acres  
 Drainage Curve  $Q = 5$  CFS - (Minimum pipe capacity)  
 Pipe Head = 2.5 Ft - (Aux Spillway Elev - Pipe Inlet Elev)  
 Pipe Diameter = 18 Inches; Pipe Capacity = 11.2 CFS -  
 Aux Spillway Capacity = CFS - (Peak Discharge  $Q_{10}$  - Pipe Capacity)  
 Aux Spillway Width = Ft - (Chart) Aux Spillway Depth = 11.2 > 8  
 Aux Spillway Location = LDS: Both: RDS: Both:

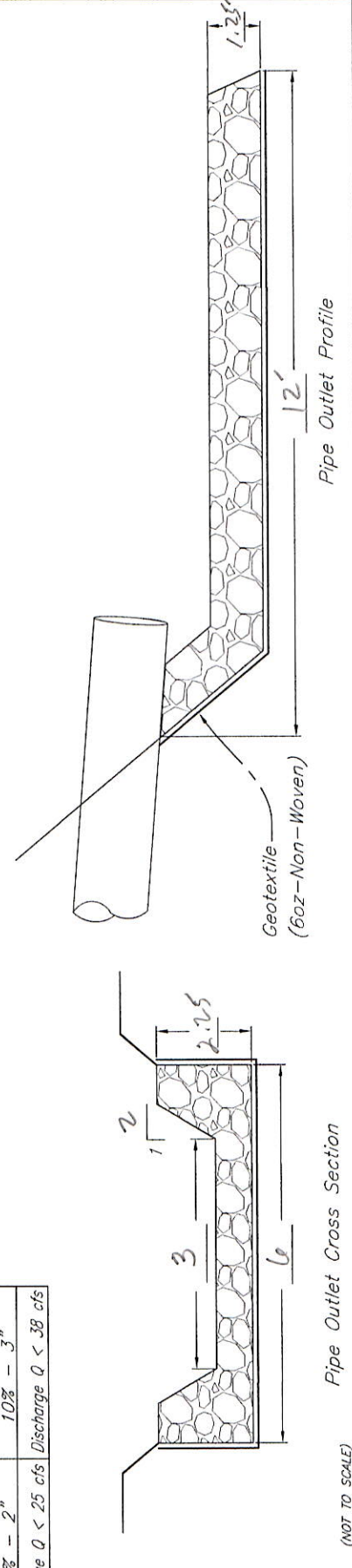
MNDOT II	MNDOT III
15" - Thickness	24" - Thickness
100% - 12"	100% - 18"
75% - 9"	75% - 12"
50% - 6"	50% - 9"
10% - 2"	10% - 3"

Discharge  $Q < 25$  cfs  
 Discharge  $Q < 38$  cfs

Construction Notes:

- Initial Fill - fill material under the pipe haunch (lower third) shall be free of rocks and clods over 3" in diameter. Initial fill should be tamped with a 2 x 4 inch lumber or an equivalent to ensure uniform placement.
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- Fill material shall be placed alternately on each side of the pipe at equal elevations. Hand equipment or mechanical tampers are required for final fill compaction. The moisture content of the backfill material should form a ball when kneaded by hand and will not readily separate.
- Connecting bands shall be free of soil during installation and tapped with a mallet while tightening to insure a tight joint. Pipe head > 5 feet require watertight connecting bands. Connecting bands may be supplied with gaskets or asphalt mastic where water-tightness is required.
- Trench depths > than 5' require OSHA approved trenching procedures.
- REMOVE EXISTING CMP AND DISPOSE OF AT OWNER'S DIRECTION.

DNR Permit Information  
 (If Applicable)  
 Low Bank Elev -  
 OHWL Elev -



WIDTH FEET	DEPTH - FEET	CAPACITY - CFS
0.5	0.6	1.0
10	6	9
15	9	13
20	12	17
25	15	22
30	18	26

AUXILIARY SPILLWAY CAPACITIES

Diameter inches	Length inches	Length feet
15	26	2.2
18	31	2.6
21	36	3.0
24	41	3.4
30	51	4.2

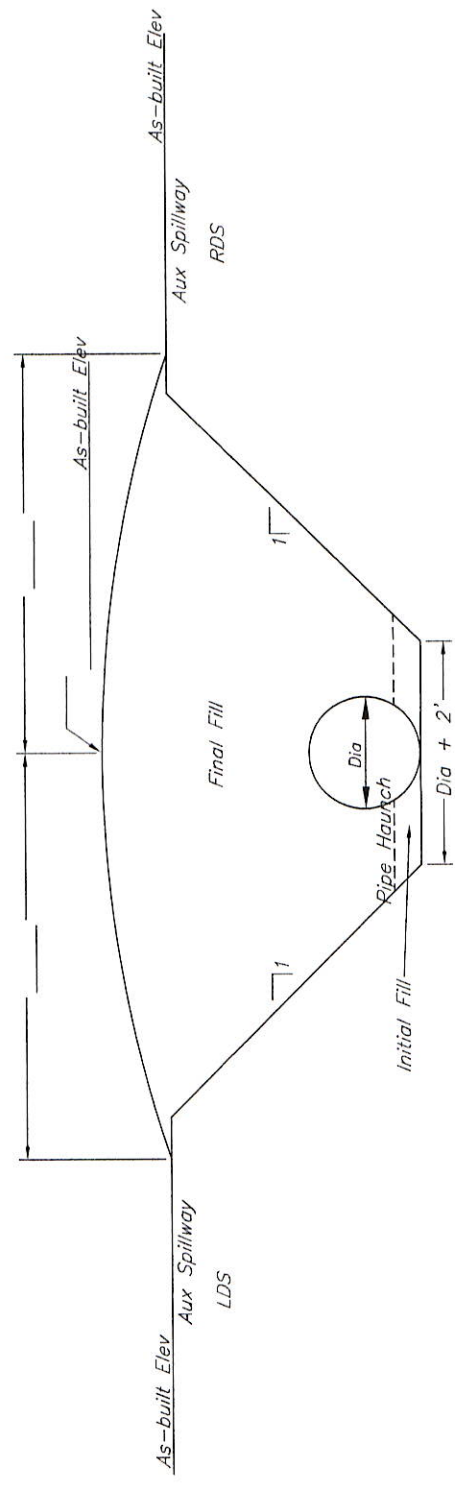
Apron Lengths

MN Drainage Curve

Curve #3	Acres	CFS
10	1.3	
20	2.6	
30	3.9	
40	5.0	
50	6.2	
60	7.4	
70	8.4	
80	9.4	
90	10.0	
100	11.0	
110	12.0	
120	13.0	
130	14.0	
140	15.0	
150	16.0	
160	17.0	
170	18.0	
180	19.0	
190	20.0	
200	21.0	
220	22.0	
240	24.0	

PIPE CAPACITY CHART

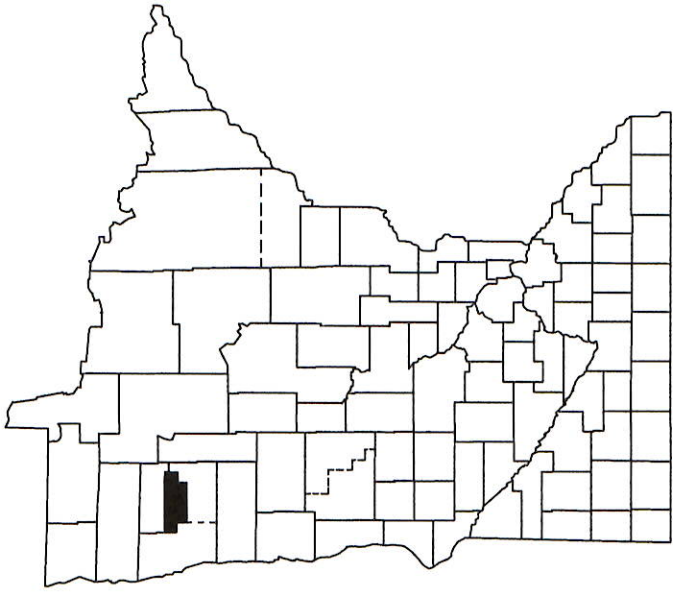
Head (H) Feet	Pipe Capacities - CFS			
	15"	18"	21"	24"
1.0	2.8			30"
1.2	3.8			
1.4	4.2	5.7		
1.5	4.4	6.1	7.5	8.3
1.6	4.5	6.6	8.1	9.2
1.8	4.9	7.1	9.5	11.0
2.0	5.4	7.6	10.4	12.8
2.2	5.6	8.2	11.4	13.9
2.4	6.0	8.9	12.1	15.0
2.5	6.1	9.0	12.4	15.6
2.6	6.3	9.2	12.9	16.0
2.8	6.5	9.6	13.6	17.0
3.0	6.8	10.2	14.3	18.0
3.2	7.0	10.6	15.0	19.0
3.4	7.2	11.0	15.6	19.8
3.5	7.4	11.2	15.9	20.1
3.6	7.6	11.4	16.1	20.4
3.8	7.8	11.9	16.6	21.1
4.0	8.1	12.1	17.2	21.9
				24.5



Date: 8/1/20  
 Designed: JAH  
 Drawn: JAH  
 Checked: JAH  
 Approved: JAH

PERRAULT T151N R33W SEC II  
 GRADE STABILIZATION STRUCTURE 54





# RALPH PERRAULT GERVAIS 34 PROJECT



T 151 N R 43 W  
SECTION 34  
GERVAIS TWP.  
RED LAKE COUNTY  
LOCATION MAP

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE,  
JUDGMENT AND BELIEF, THESE PLANS MEET  
APPLICABLE NRCS STANDARDS AND SPECIFICATIONS.

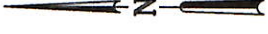
BEFORE START OF CONSTRUCTION, THE OWNERS OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "GOPHER STATE ONE-CALL" AT (651) 454-0002 (TWIN CITIES METRO AREA) OR (800) 252-1166 (ALL OTHER LOCATIONS) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

THE OWNER IS RESPONSIBLE FOR OBTAINING LAND RIGHTS AND ALL PERMITS OR OTHER PERMISSION NECESSARY TO PERFORM AND MAINTAIN THE PROJECT.

-- GOVERNING SPECIFICATIONS --

THE CONSTRUCTION AND MATERIALS SPECIFICATIONS PREPARED FOR THIS PROJECT SHALL GOVERN. THESE SPECIFICATIONS ARE PART OF THE PLAN.

CHANGES IN THE DRAWINGS OR SPECIFICATIONS MUST BE AUTHORIZED BY THE OWNER AND THE RESPONSIBLE ENGINEER. THE OWNER IS RESPONSIBLE FOR CONTACTING THE RED LAKE SWCD AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.



## SHEET INDEX

SHEET NO.	TITLE
1	SHEET INDEX, LEGEND, & LOCATION MAP
2	PLAN AND QUANTITIES
3	GRADE STABILIZATION STRUCTURE 55 - PROFILE AND DETAILS
4	GRADE STABILIZATION STRUCTURE 55 - DETAILS
5	ROCK RIPRAP CHUTE STRUCTURE #56
6	GRADE STABILIZATION STRUCTURE 57 - PROFILE AND DETAILS
7	GRADE STABILIZATION STRUCTURE 57 - PROFILE AND DETAILS
8	GRADE STABILIZATION STRUCTURE 58 - PROFILE AND DETAILS
9	GRADE STABILIZATION STRUCTURE 58 - DETAILS

## LEGEND

SURVEY POINT	△ INST.#1
SOIL BORING	● TH#1
BUILDING	□
WELL	○ WELL
BENCH MARK, TEMPORARY	✦ TBM#1
ORIGINAL GROUND	- - - - -
CONTOUR, INDEX	- - - - -
FENCE, EXISTING	- - - - -
FENCE TO BE CONSTRUCTED	- - - - -
FENCE TO BE REMOVED	- - - - -
DIVERSION	~ ~ ~ ~ ~
STREAM	~~~~~
MARSH	
COMMON EXCAVATION	⊖
EARTHFILL, CLASS C COMPACTION	⊕
EXISTING TILE LINE	—○—
PLANNED TILE LINE	—○—
CENTERLINE OF IMPROVEMENTS	—○—
BASE LINE	—○—
DECIDUOUS TREE	⊗
CONIFEROUS TREE	⊙
IRON PIPE	—○—
EMBANKMENT	—○—
RIPRAP	—○—
UTILITY POLE	—○—

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.

JAMES HEST

Signature: *James Hest*

Date: 8/10/20 Reg. No. 24511

## SHEET INDEX, LEGEND AND LOCATION MAP

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY

JAMES HEST, PE

GRIGLA, MINNESOTA 56727

P.O. Box 126

Drawn by JAH

Checked by JAH

Date 08-18-20

(218) 294-6701

Sheet 1 of 9





## ESTIMATED QUANTITIES

Quantities are measured in place according to neat-line shown on the plans. No allowance is made for shrinkage, overlapping, connecting bands, joints, etc.

ITEM	QUANTITY	UNIT
Seed, Fertilize & Mulch	0.6	Acre
Compacted Earth Fill (Class C)	1400	Cu. Yd.
Salvage and Spreading Topsoil	1	Job
24" PE Riser	1	Each
24" Anti-Vortex Trash Rack	1	Each
15" Dual-Wall Tile	120	Ln. Ft.
30" PE Riser	2	Each
30" Anti-Vortex Trash Rack	2	Each
24" Dual-Wall Tile	150	Ln. Ft.
#4 Rebar	60	Ln. Ft.
Inlet Rock Riprap Class I (D <sub>50</sub> = 3")	12	Cu. Yd.
Outlet Rock Riprap Class II (D <sub>50</sub> = 6")	24	Cu. Yd.
Outlet Rock Riprap Class III (D <sub>50</sub> = 9")	75	Cu. Yd.
Non-Woven Geotextile	250	Sq. Yd.
Concrete	3	Cu. Yd.
Clearing Grubbing	1	Job

RALPH PERRAULT

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.

JAMES HEST  
 SIGNATURE: *James Hest*  
 Date: 8/19/20 Reg. No. 24511

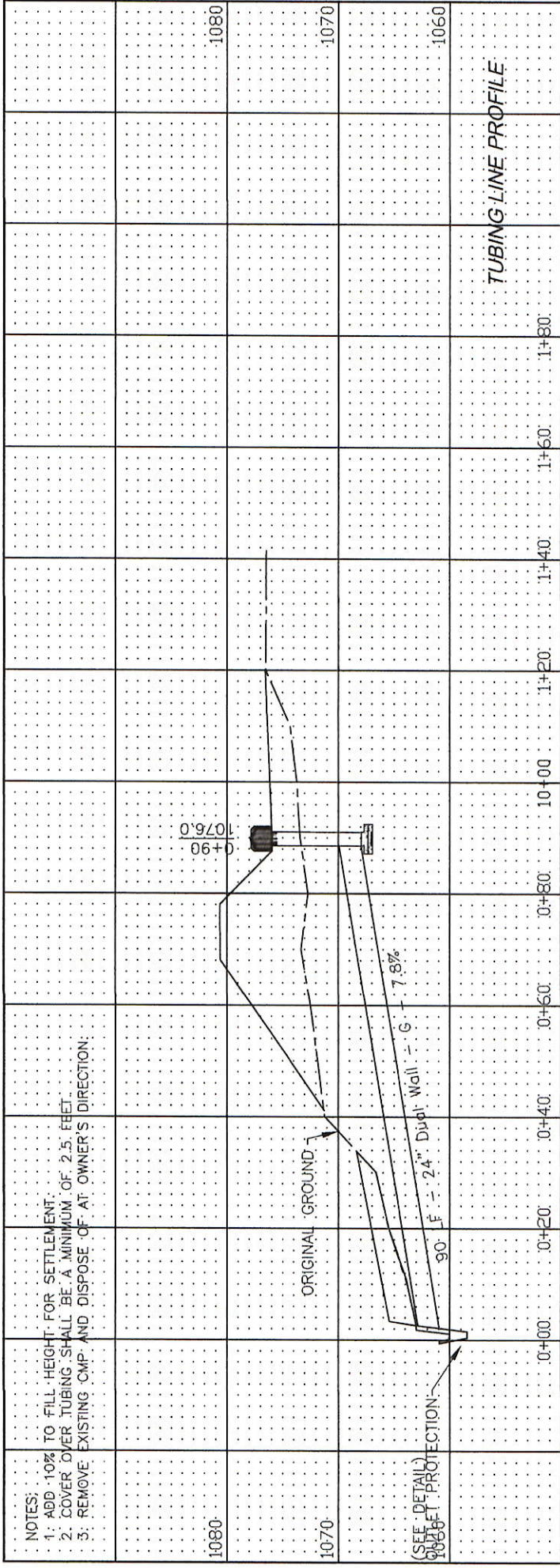
## PLAN AND QUANTITIES

Red Lake Soil & Water Conservation District  
 Red Lake County, Minnesota

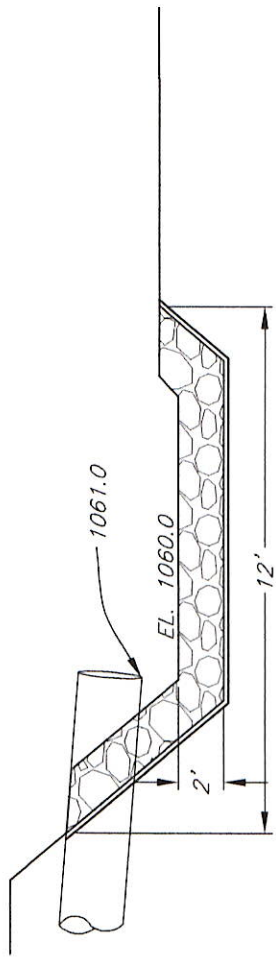
PREPARED BY  
 JAMES HEST, PE  
 GRYGLA, MINNESOTA 56727 (218) 294-6701  
 Drawn by JAH Checked by JAH Date 08-18-20 Sheet 2 of 9

GRADE STABILIZATION STRUCTURE 57

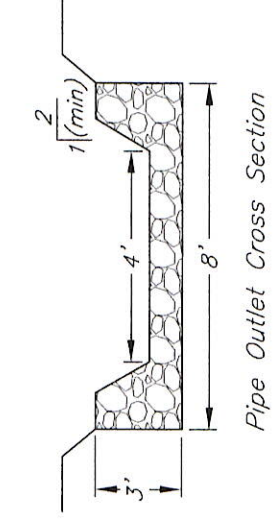




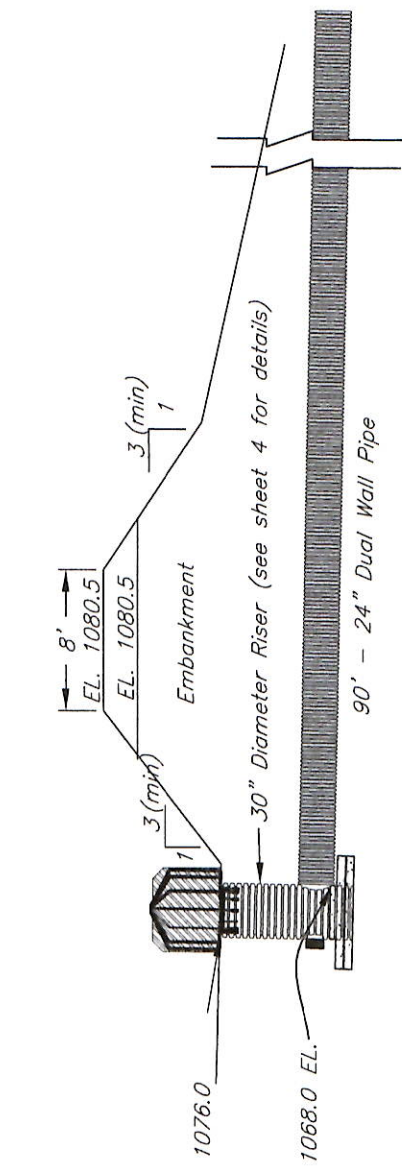
NOTES:  
 1. ADD 10% TO FILL HEIGHT FOR SETTLEMENT.  
 2. COVER OVER TUBING SHALL BE A MINIMUM OF 2.5 FEET.  
 3. REMOVE EXISTING CMP AND DISPOSE OF AT OWNER'S DIRECTION.



Pipe Outlet Profile



Pipe Outlet Cross Section

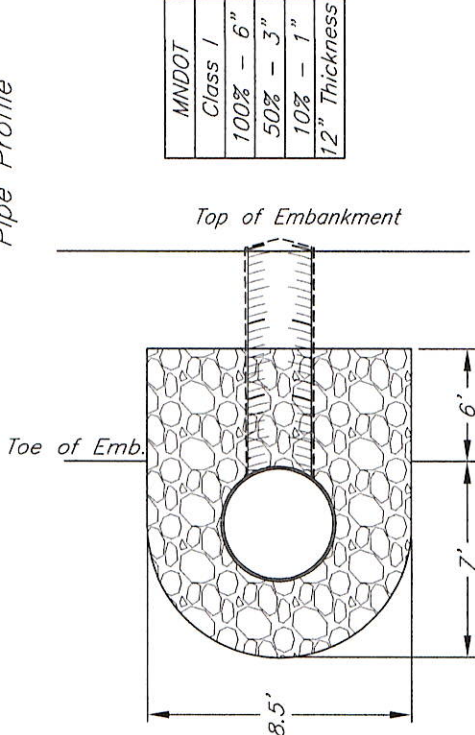


Pipe Profile

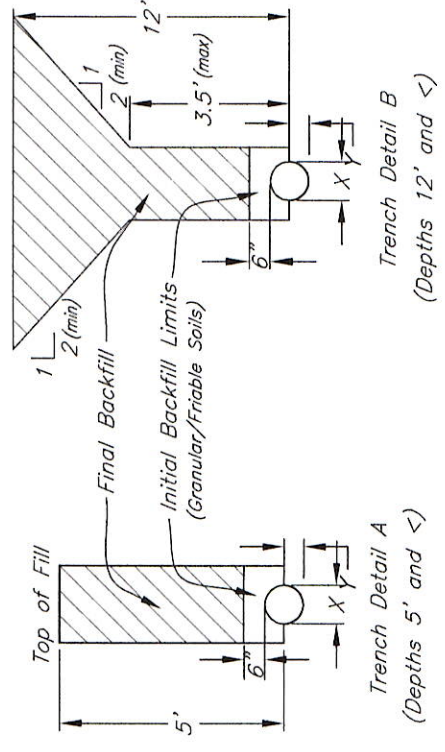
MNDOT Class II	Thickness
100%	12"
75%	9"
50%	6"
10%	2"

DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"

Trench Spoon Dimensions



Inlet Protection Details



Trench Detail A  
(Depths 5' and <)

Trench Detail B  
(Depths 12' and <)

RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
 #55 PROFILE AND DETAILS

Red Lake Soil & Water Conservation District  
 Red Lake County, Minnesota

PREPARED BY  
 JAMES HEST, PE  
 CRYGLA, MINNESOTA 56727 (218) 294-6701  
 Drawn by JAH Checked by JAH Date 08-18-20 Sheet 3 of 9

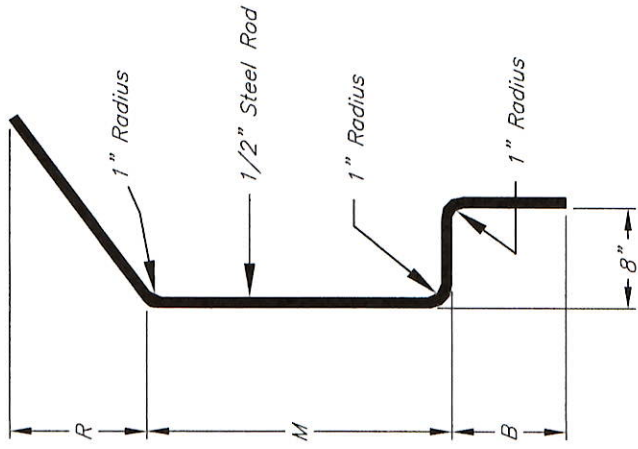
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

JAMES HEST  
 Signature: *James Hest*  
 Date: 8/19/20 Reg. No. 24511

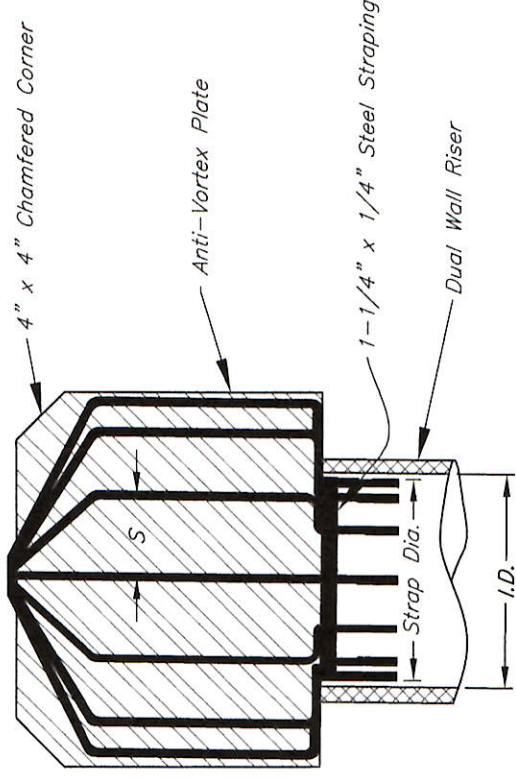
Trenching Details



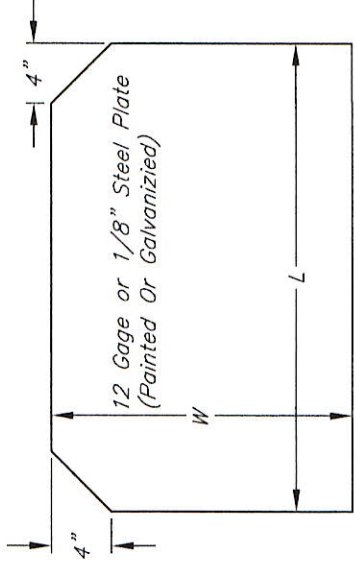
Trash Rack & Anti-Vortex Dimensions						
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	L In.
12	11 1/4	5-6	9	9	12	28
15	14 1/4	5-6	9	9	13	31
18	17 1/4	6-7	9	9	14	34
24	23 1/4	7-8	12	15	11	40
30	29 1/4	8-9	12	18	10	46
36	35 1/4	9-10	12	21	9	52



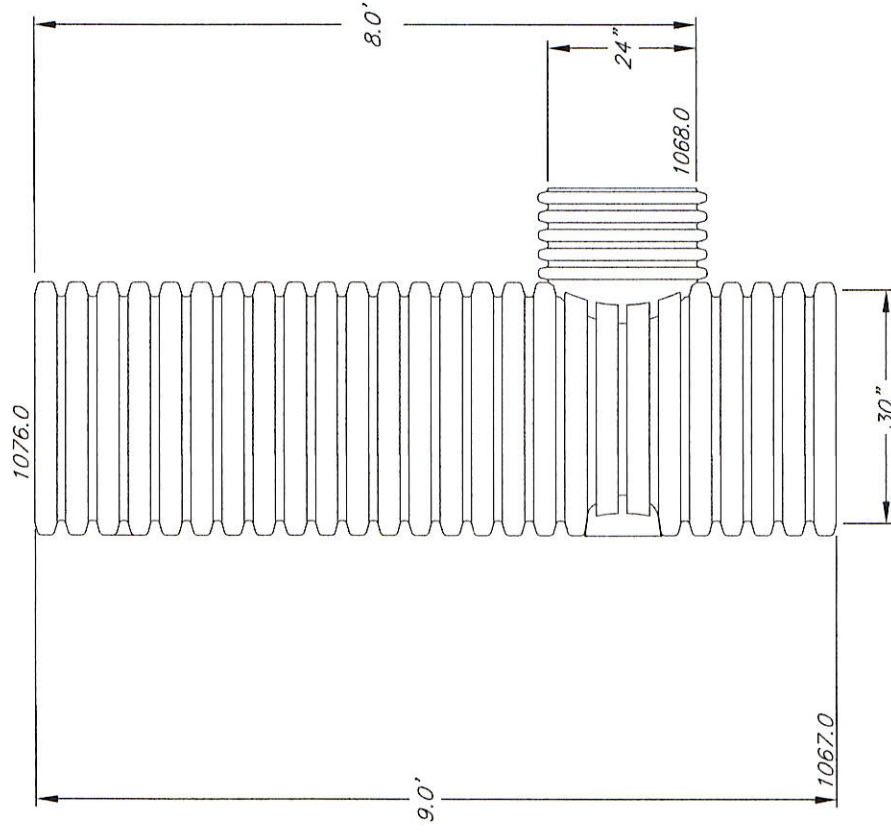
Rod Bending Detail



Trash Rack / Anti-Vortex Detail



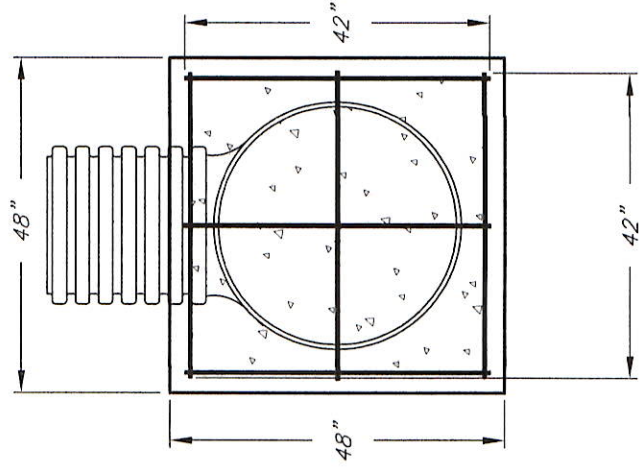
Anti-Vortex Detail



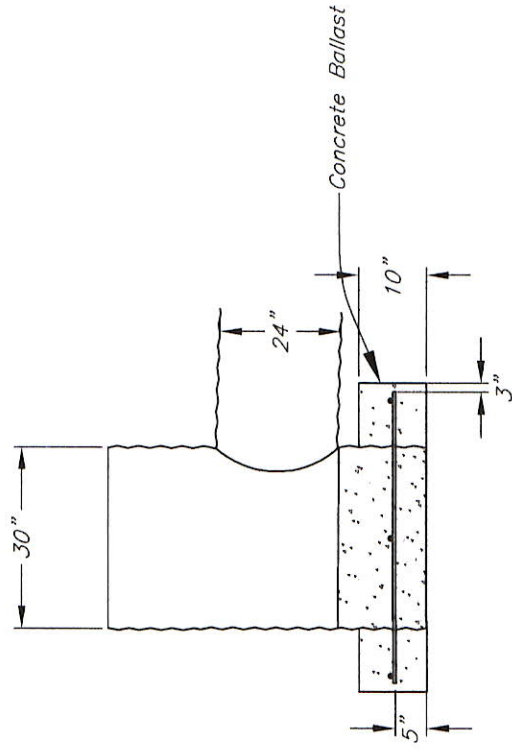
Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet width around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
2. Trash Rack/Antivortex requires anchoring at each end of the anti-vortex with a fence post or anchor driven into the ground a minimum 2.5 to 3'.
3. Steel reinforcement is #4 Bar. Concrete will require adequate consolidation to eliminate voids, honeycomb and fully encase rebar and embedments.



Riser Ballast Detail



RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
#55 DETAILS

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY  
JAMES HEST, PE

GRYGIA, MINNESOTA 56727

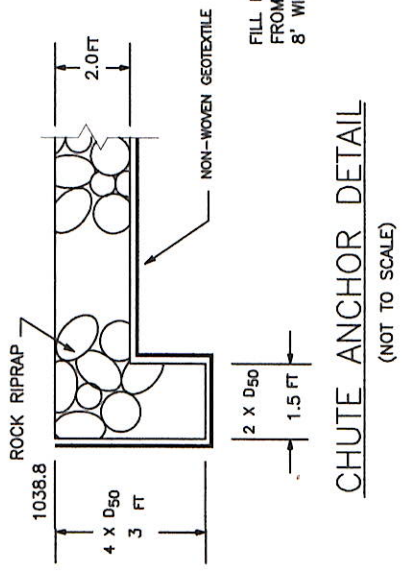
P.O. BOX 126  
Checked by JAH Date 08-18-20 Sheet 4 of 9

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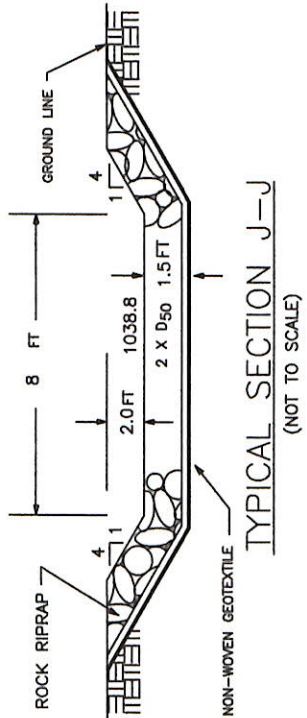
JAMES HEST

Signature: *[Signature]*  
Date: 8/18/20 Reg. No. 24511

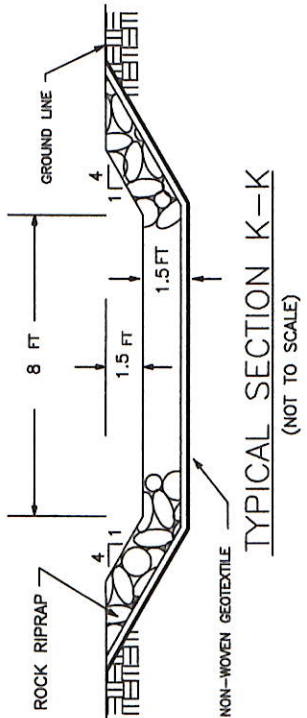




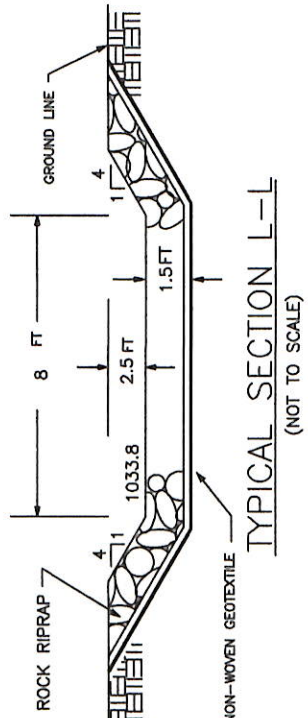
CHUTE ANCHOR DETAIL  
(NOT TO SCALE)



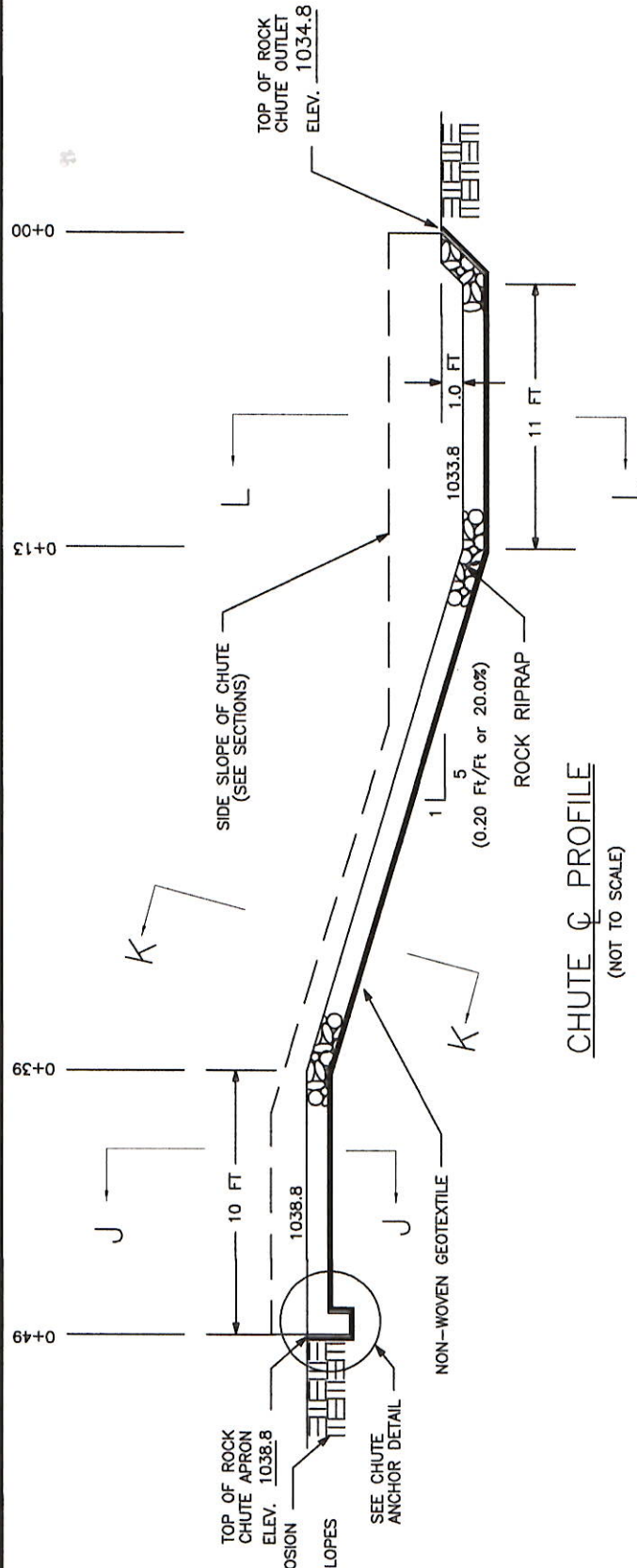
TYPICAL SECTION J-J  
(NOT TO SCALE)



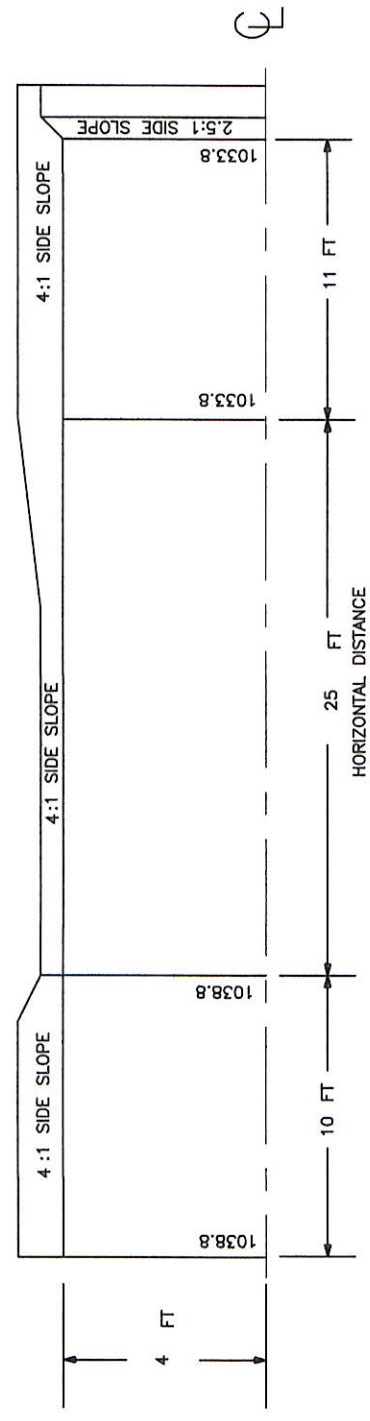
TYPICAL SECTION K-K  
(NOT TO SCALE)



TYPICAL SECTION L-L  
(NOT TO SCALE)



CHUTE PROFILE  
(NOT TO SCALE)



HALF PLAN  
(NOT TO SCALE)

**CONSTRUCTION NOTES**

1. GEOTEXTILE AND ROCK SHALL NOT BE PLACED UNTIL THE SUBGRADE SURFACE HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.
2. ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF NRCS CONSTRUCTION SPECIFICATION MN-61.
3. ROCK PLACEMENT SHALL BEGIN AT THE BOTTOM OF SLOPE.
4. ROCK SHALL NOT BE DROPPED MORE THAN 3 FT. ONTO GEOTEXTILE.
5. A SUFFICIENT AMOUNT OF ROCK SHALL BE HAND PLACED TO SECURE CONTACT BETWEEN STONES AND INSURE A NEAT, UNIFORM SURFACE.

**MATERIALS NOTES**

1. GEOTEXTILE SHALL BE NON-WOVEN, CLASS I, AND MEET THE REQUIREMENTS OF NRCS MATERIAL SPECIFICATION MN-592.
2. ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF NRCS MATERIAL SPECIFICATION MN-523, ROCK FOR RIPRAP.

**CHUTE STANDARD ROCK GRADATIONS**

ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MN-DOT STANDARD SPECIFICATIONS CLASS III ROCK RIPRAP

RALPH PERRAULT

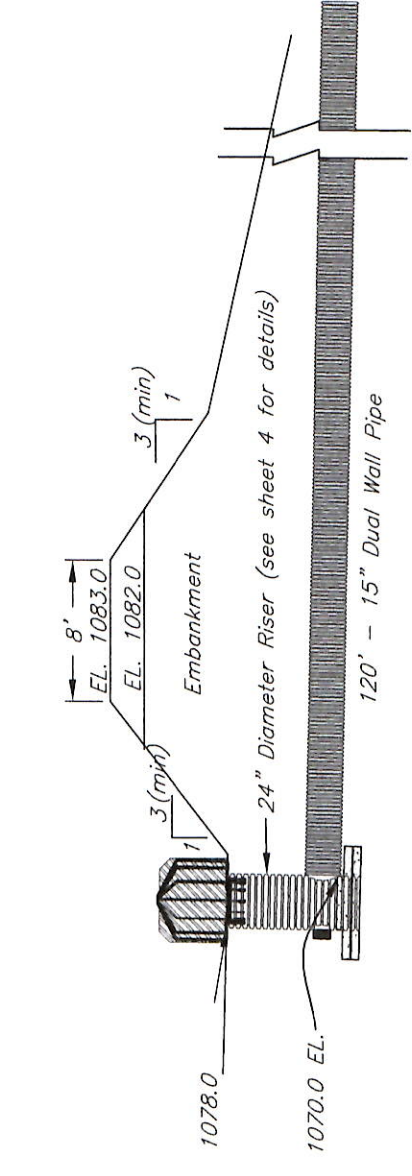
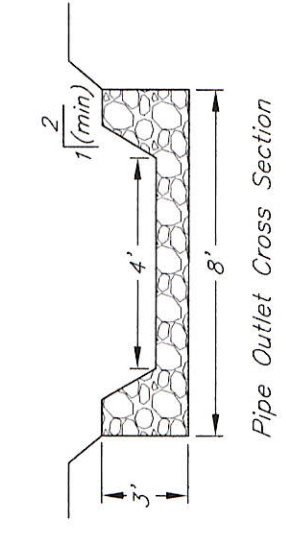
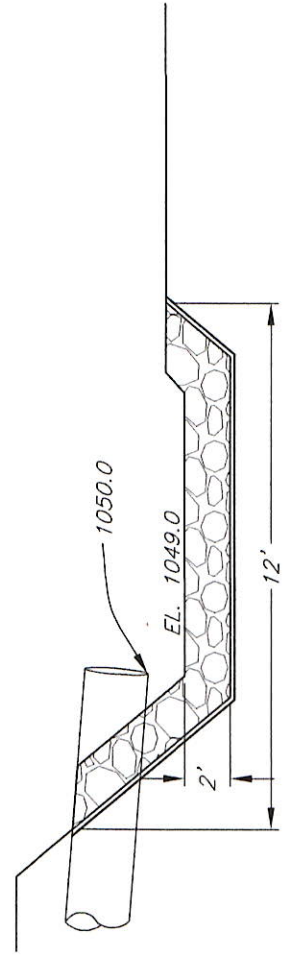
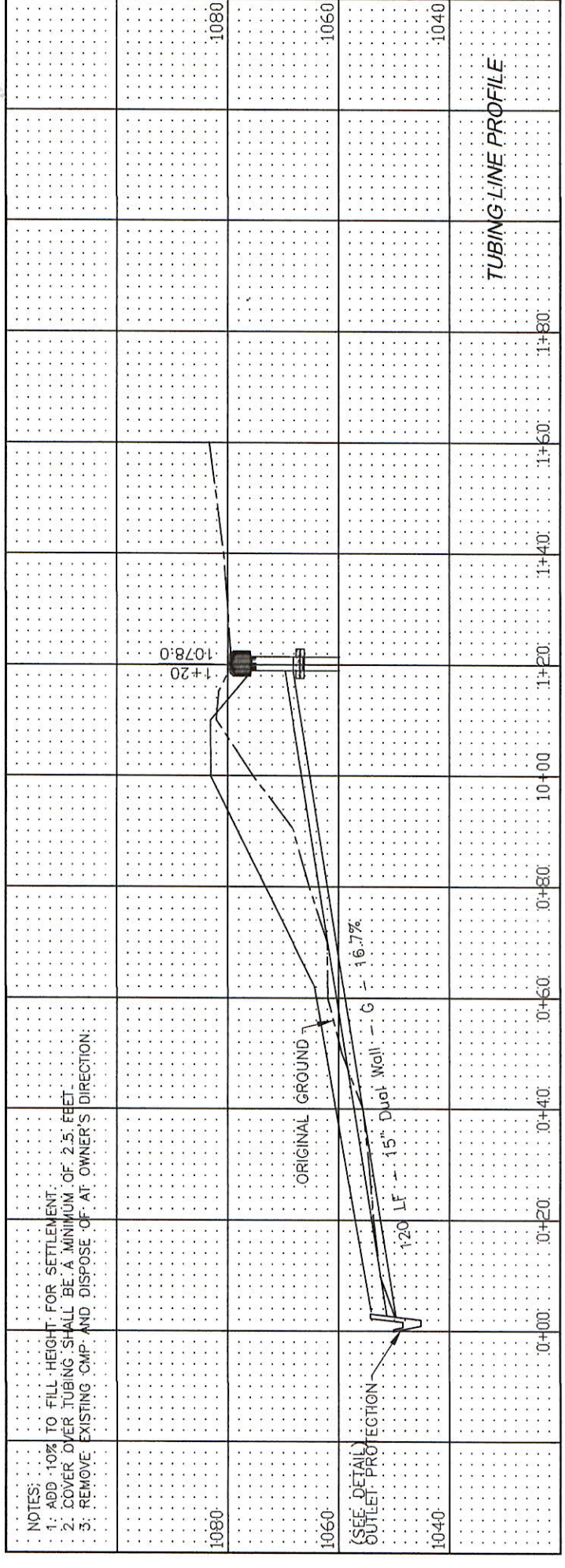
I hereby certify that this plan, specification, or report was prepared by me, or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

SIGNATURE: *James Hest* JAMES HEST  
Date: 8/16/20 Reg. No. 24511

PREPARED BY  
JAMES HEST, PE  
P.O. BOX 126 GRIGLA, MINNESOTA 56727 (218) 294-6701  
Drawn by JAH Checked by JAH Date 8-17-20 Sheet 5 of 9

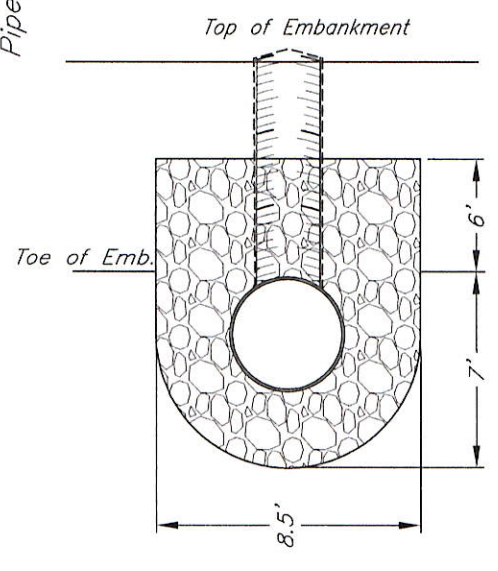
ROCK RIPRAP CHUTE STRUCTURE #56  
Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota





Pipe Profile

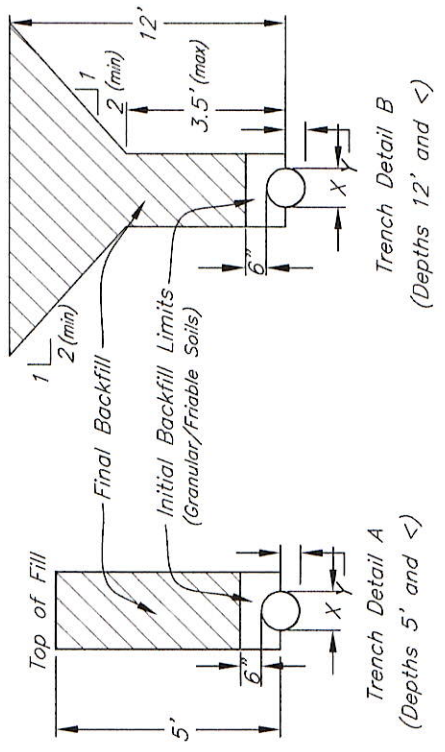
MNDOT Class	1
100%	6"
50%	3"
10%	1"
24" Thickness	



DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"

Trench Spoon Dimensions

Outlet Protection Details



MNDOT Class	II
100%	12"
75%	9"
50%	6"
10%	2"
24" Thickness	

RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
#57 PROFILE AND DETAILS

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

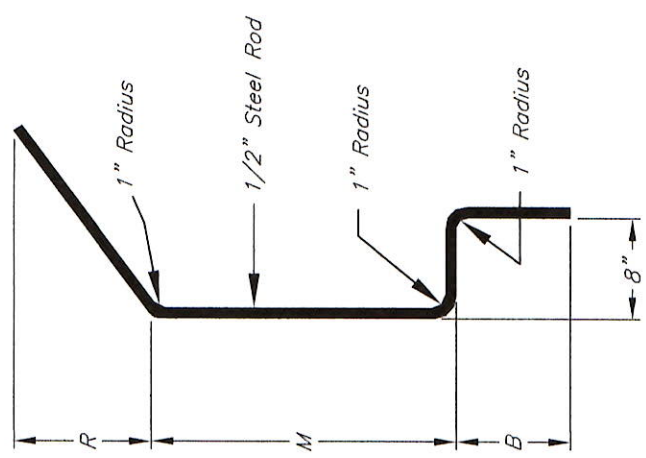
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: *James Hest*  
Date: *2/18/20*  
Reg. No. 24511

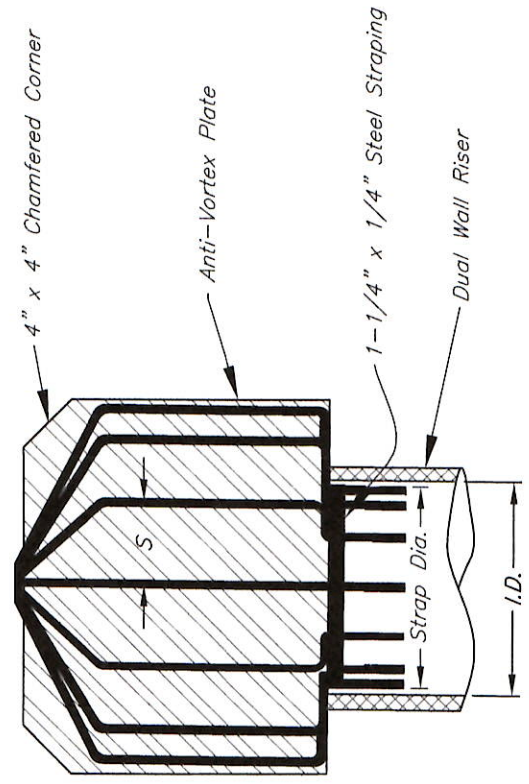
PREPARED BY  
JAMES HEST, PE  
GRYGLA, MINNESOTA 56727 (218) 294-6701  
Drawn by JAH Checked by JAH Date 08-18-20 Sheet 6 of 9



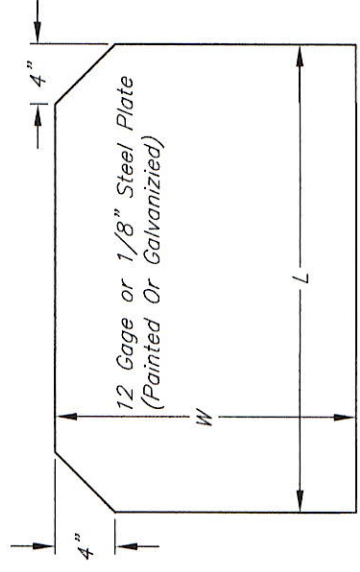
Trash Rack & Anti-Vortex Dimensions							
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	W In.	L In.
12	11 1/4	5-6	9	9	12	20	28
15	14 1/4	5-6	9	9	13	21	31
18	17 1/4	6-7	9	9	14	22	34
24	23 1/4	7-8	12	15	11	25	40
30	29 1/4	8-9	12	18	10	27	46
36	35 1/4	9-10	12	21	9	29	52



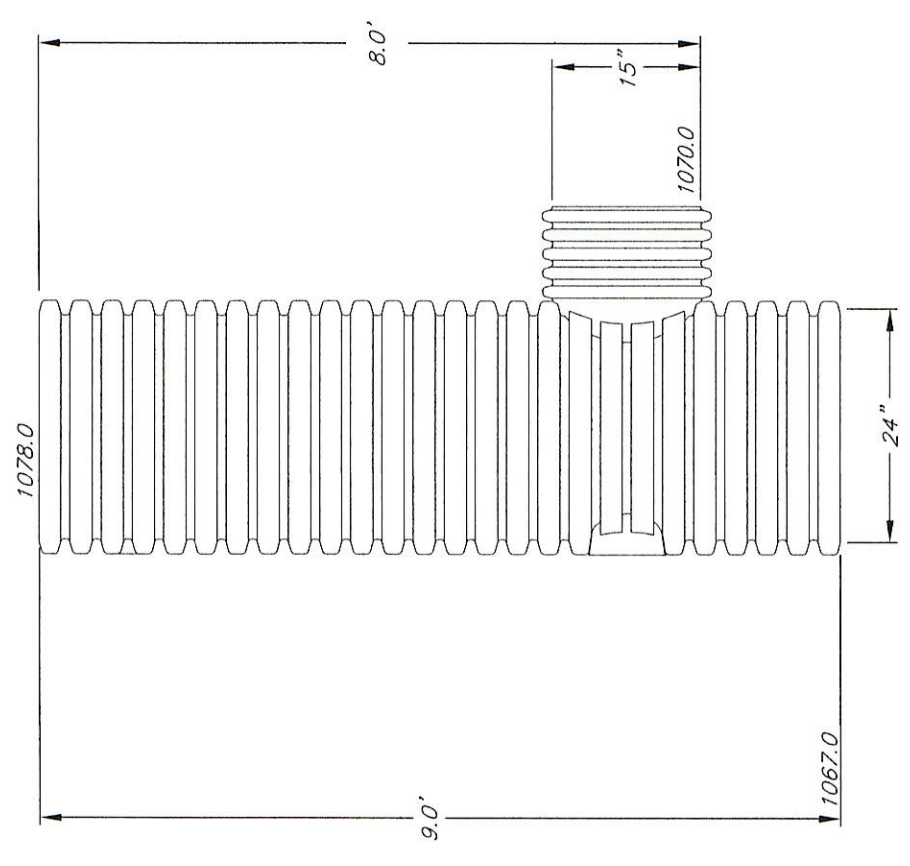
Rod Bending Detail



Trash Rack / Anti-Vortex Detail



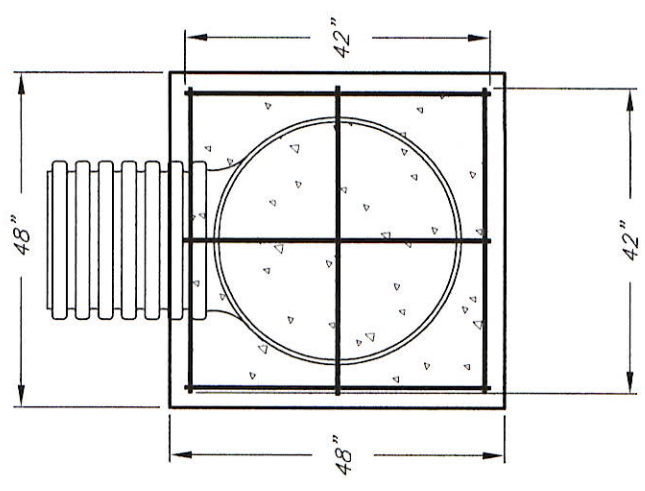
Anti-Vortex Detail



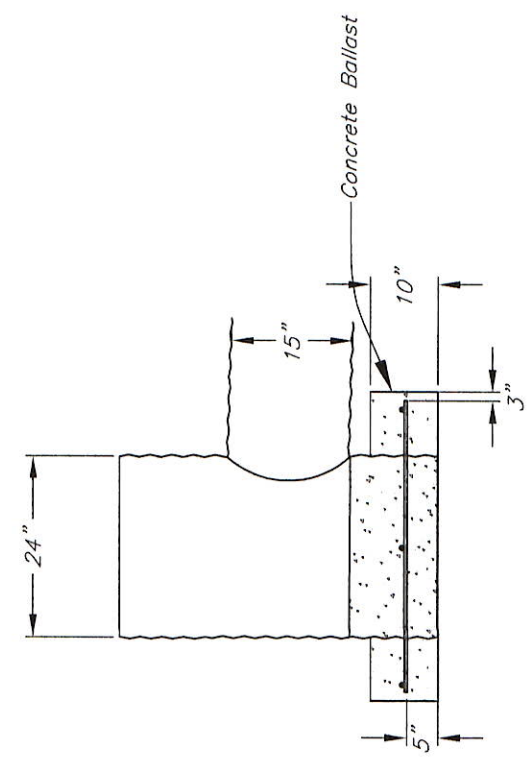
Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet width around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
2. Trash Rack/Antivortex requires anchoring at each end of the anti-vortex with a fence post or anchor driven into the ground a minimum 2.5 to 3'.
3. Steel reinforcement is #4 Bar. Concrete will require adequate consolidation to eliminate voids, honeycomb and fully encase rebar and embedments.



Riser Ballast Detail



**RALPH PERRAULT**

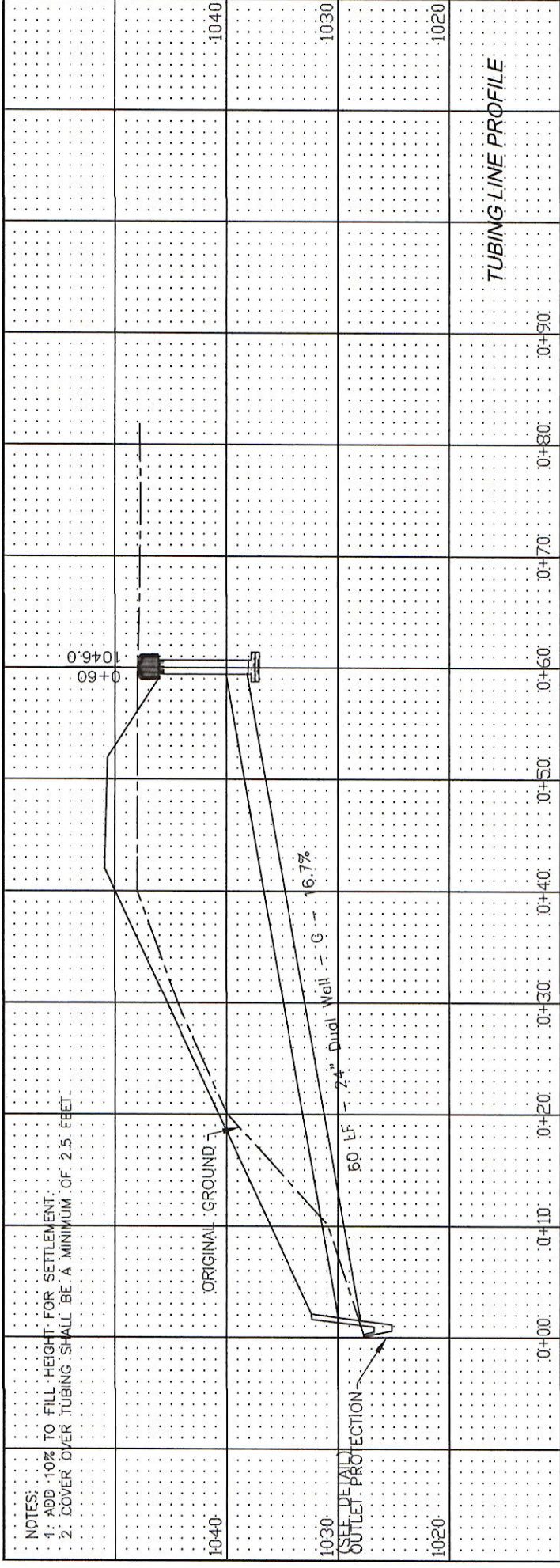
GRADE STABILIZATION STRUCTURE  
#57 DETAILS  
Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

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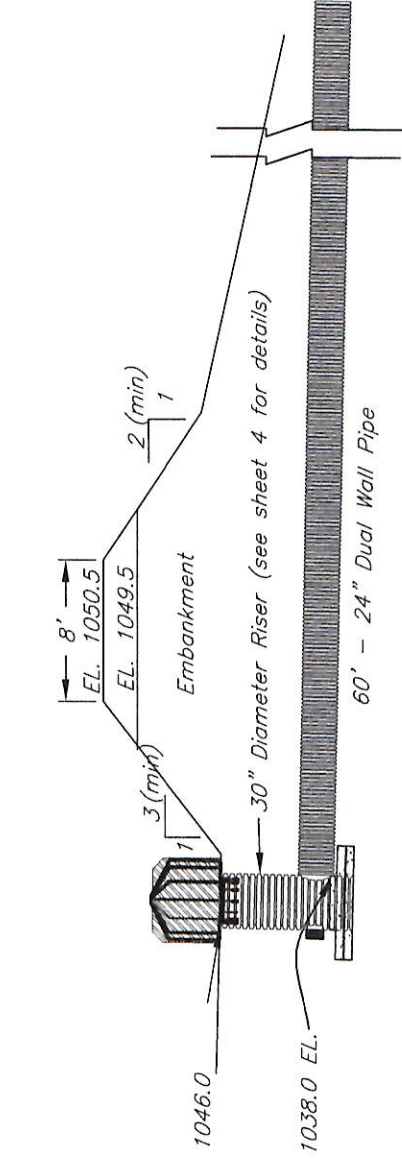
Signature: *James Hest*  
Date: *2/19/20*  
Reg. No. 24511

PREPARED BY  
JAMES HEST, PE  
P.O. BOX 126  
GRYOLA, MINNESOTA 56727  
Drawn by JAH | Checked by JAH | Date 08-18-20 | Sheet 7 of 9

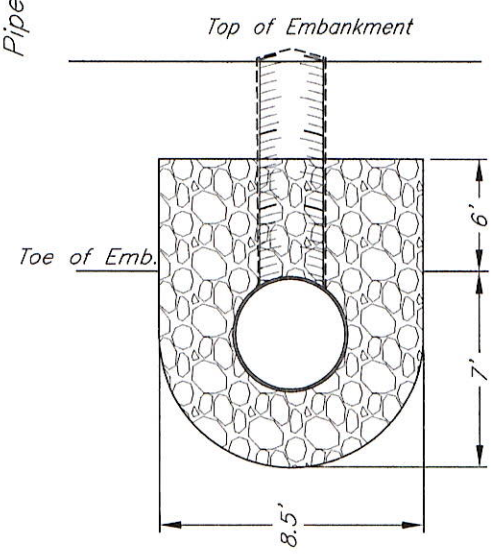




NOTES:  
 1. TO FILL HEIGHT FOR SETTLEMENT.  
 2. COVER OVER TUBING SHALL BE A MINIMUM OF 2.5 FEET.

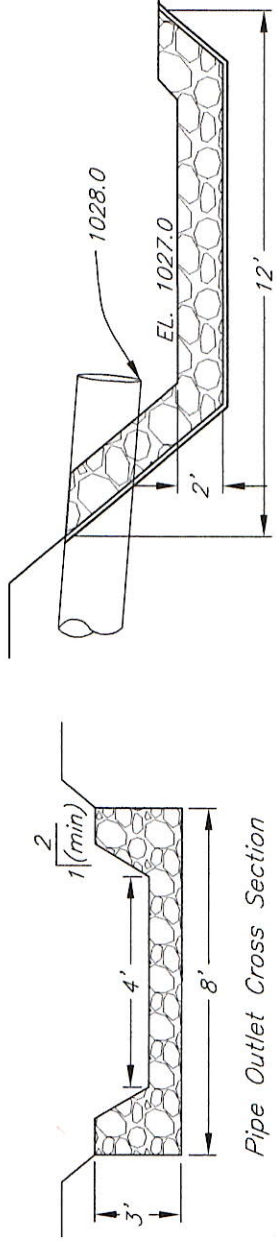


MNDOT Class	100%	50%	10%	Thickness
12"	6"	3"	1"	12"

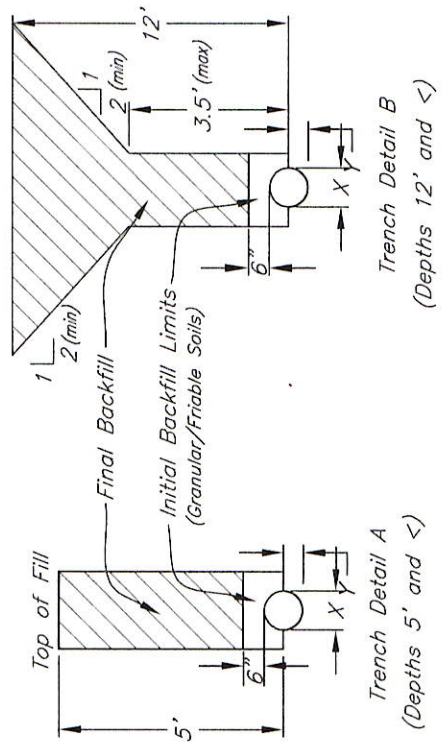


DIA	X	Y
8"	9-1/2"	4-3/4"
10"	11-5/8"	5-3/4"
12"	14-1/4"	7-0"
15"	18-3/8"	9-1/4"
18"	21-1/2"	10-3/4"
24"	28-1/2"	14-1/2"

Trench Spoon Dimensions



Outlet Protection Details



Trenching Details

MNDOT Class	100%	75%	50%	10%	Thickness
12"	9"	6"	2"	24"	24"

RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
 #58 PROFILE AND DETAILS

Red Lake Soil & Water Conservation District  
 Red Lake County, Minnesota

PREPARED BY  
 JAMES HEST, PE  
 GRYGLA, MINNESOTA 56727 (218) 294-6701

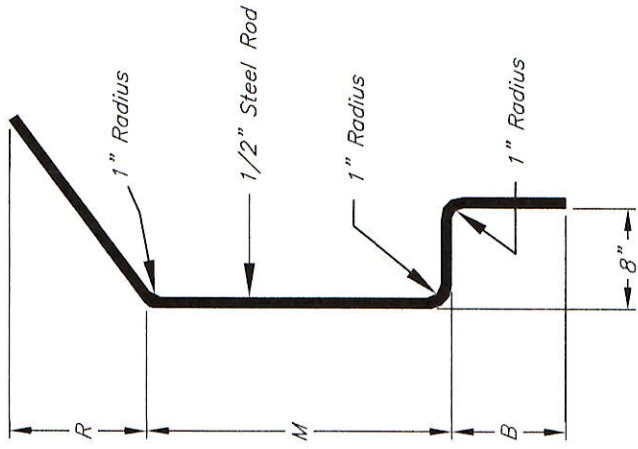
P.O. BOX 126  
 Drawn by JAH Checked by JAH Date 08-18-20 Sheet 8 of 9

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.

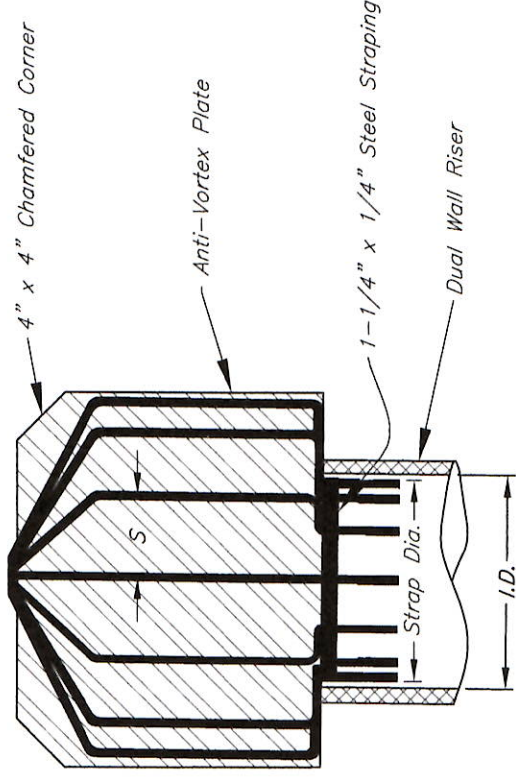
JAMES HEST  
 Signature: [Signature]  
 Date: 8/18/20 Reg. No. 24511



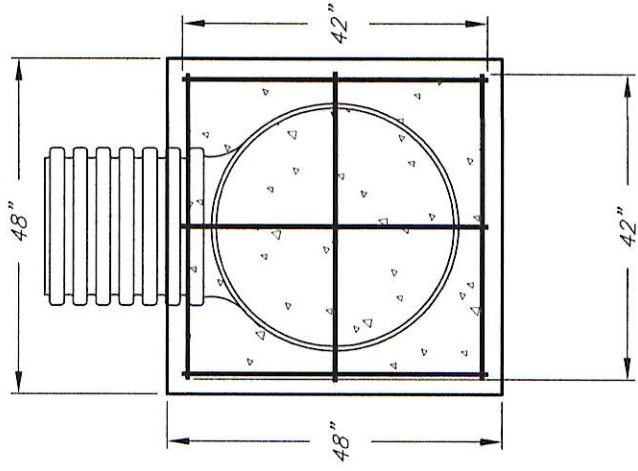
Trash Rack & Anti-Vortex Dimensions						
Pipe I.D. In.	Strap Dia. In.	S In.	B In.	M In.	R In.	L In.
12	11 1/4	5-6	9	9	12	28
15	14 1/4	5-6	9	9	13	31
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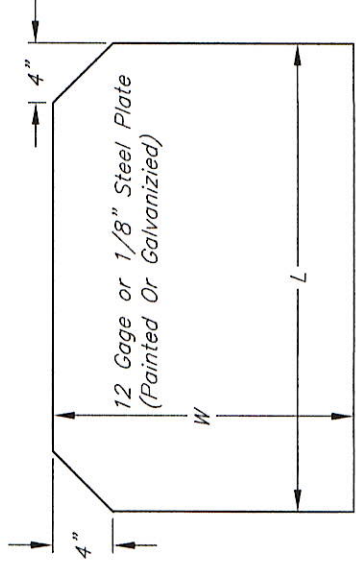
Rod Bending Detail



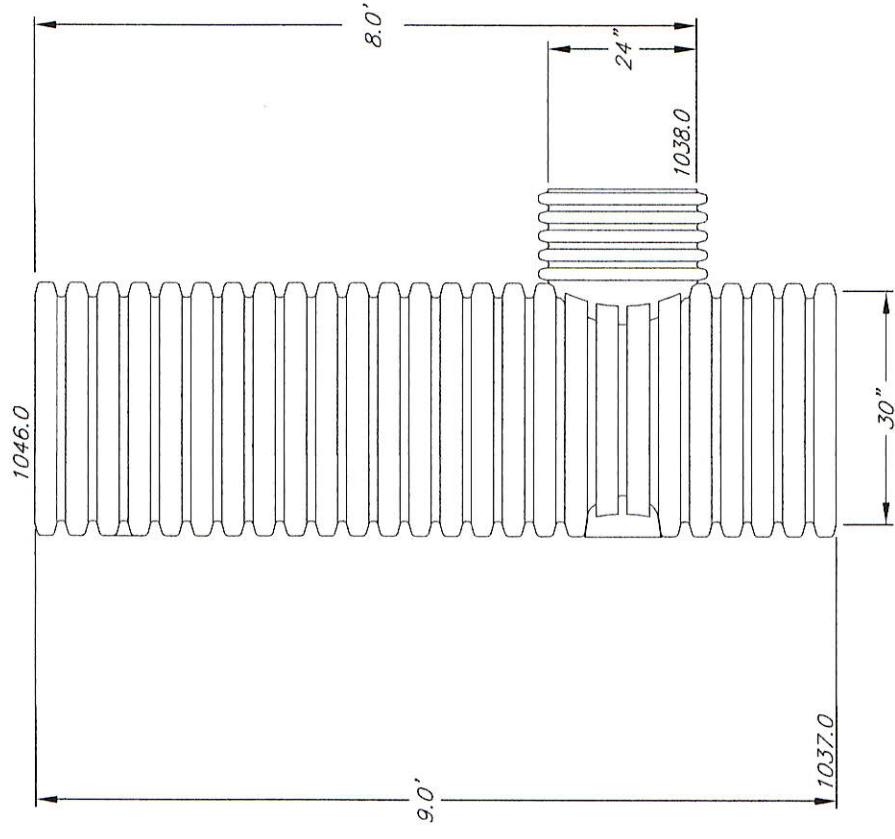
Trash Rack / Anti-Vortex Detail



Riser Ballast Detail



Anti-Vortex Detail



Dual Wall Riser Detail

Installation Notes

1. Corrugated dual wall pipe riser requires CLASS II backfill material a minimum 2 feet width around the riser. Corrugated dual wall riser outlet stub connection requires a watertight connection such as a bell to bell with gaskets.
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RALPH PERRAULT

GRADE STABILIZATION STRUCTURE  
#58 DETAILS

Red Lake Soil & Water Conservation District  
Red Lake County, Minnesota

PREPARED BY  
JAMES HEST, PE

P.O. BOX 126  
GRYGA, MINNESOTA 56727

Drawn by JAH Checked by JAH Date 08-18-20 Sheet 9 of 9

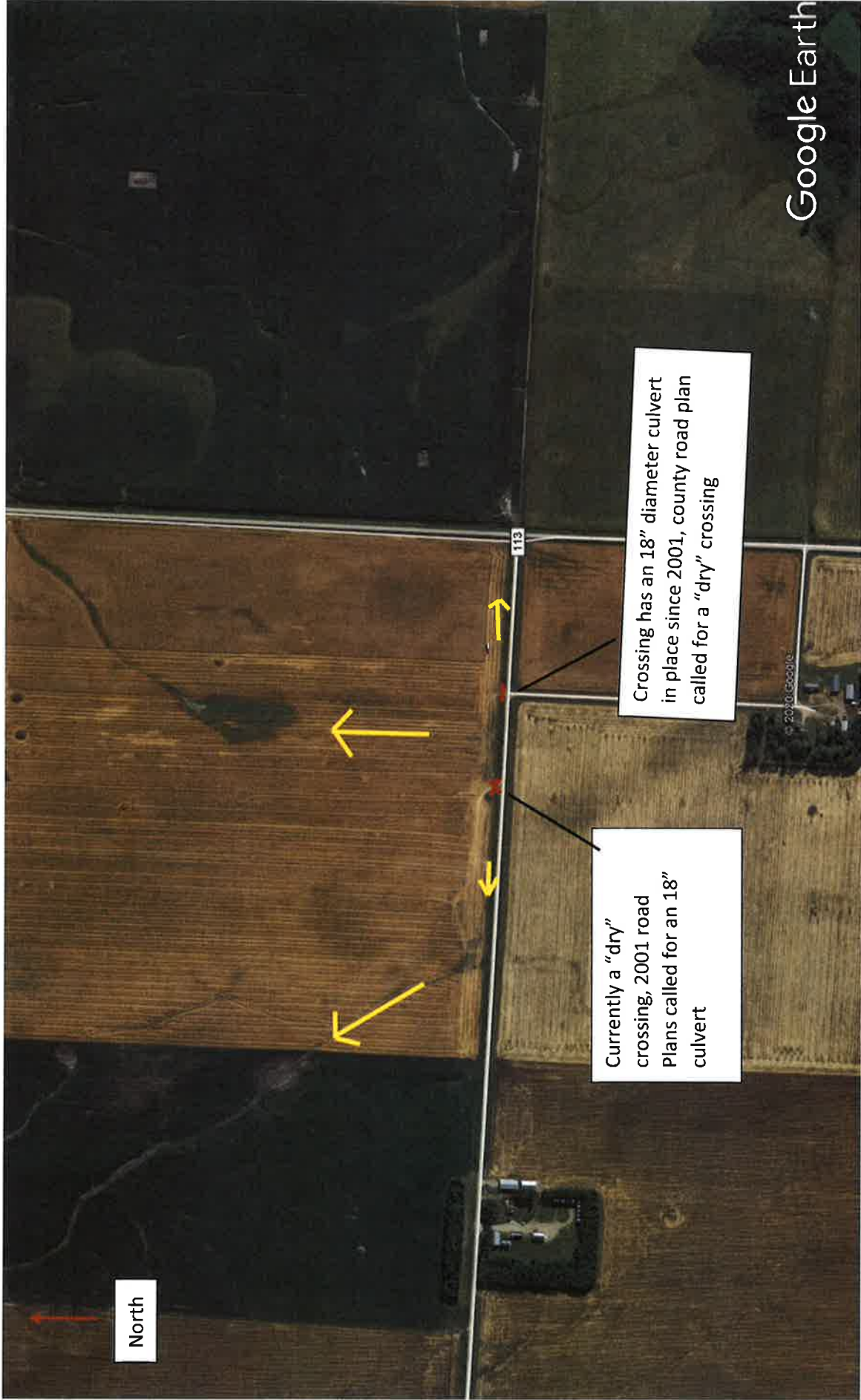
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JAMES HEST

Signature: *[Signature]*

Date: 8/18/20 Reg. No. 24511





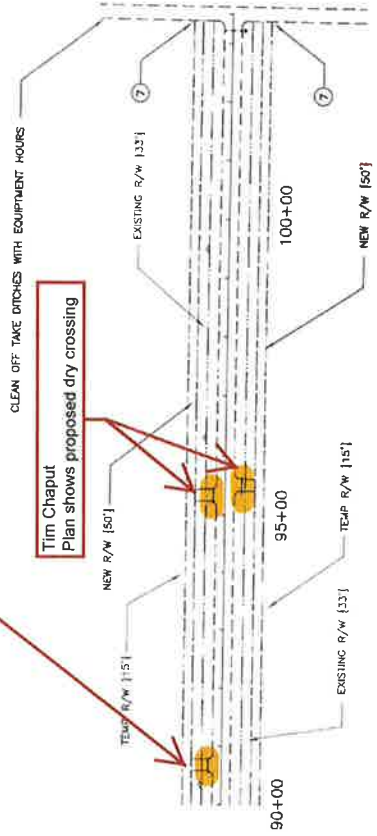
North

Currently a "dry" crossing, 2001 road crossing, 2001 road Plans called for an 18" culvert

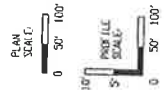
Crossing has an 18" diameter culvert in place since 2001, county road plan called for a "dry" crossing

Tim Chaput (Driveway in question for 2020 permit)  
Plan shows install 18" pipe

Tim Chaput  
Plan shows proposed dry crossing



END PROJECT C.P. 113-157  
STA. 103+51



C.R. 113

STATION	ELEVATION	DESCRIPTION	QUANTITY	UNIT
1040	1058.10	B.M. ELEV. 1058.10		
1030	1057.16	TOP OF TEL. PED. 35' RT. STA. 130+00		
1020	1057.18	EXC.	9.77	CY
1010	1057.21	EMB.	4.855	CY
	1057.23	(INC. 2610 CY FOR T.S.)		
	1057.28	(INC. 700 CY FOR A & E)		
	1057.31			
	1057.33			
	1058.83			
	1058.87			
	1058.81			
	1058.26			
	1055.90			
	1055.84			
	1055.18			

My Position, that I have told Tim, along with Erik Hove, Red Lake County Engineer, is that if Tim Chaput digs into the westerly/"Dry" crossing and finds a buried culvert, then he would be allowed to replace that culvert and thus drain his water to the west as indicated on the 2001 Road Plan. If there is not a culvert buried in the crossing, Tim will then have to grade his water to the east as he intended in his 20-052 permit. RLWD has a survey completed and there is sufficient grade.

APPLICATION FOR PERMIT  
RED LAKE WATERSHED DISTRICT

1000 Pennington Avenue South  
Thief River Falls, MN 56701  
218-681-5800

TO THE BOARD OF MANAGERS:

Landowner Name: <i>Tim Chaput</i>	Telephone Number: <i>218.280.1781</i>		
Address (Street, RFD, Box No., City, State, Zip): <i>27388 170<sup>th</sup> Ave SW Red Lake Falls MN 56750</i>			
Project Location: Government Lot _____ Quarter Section(s) <i>SE</i> Section(s) <i>20</i>			
Township (Name & #) <i>Lake Pleasant 150N</i> Range # <i>44W</i> County <i>Red Lake</i>			
Type of Work Proposed:			
<input checked="" type="checkbox"/> Excavate	<input type="checkbox"/> Install	<input type="checkbox"/> Channel	<input type="checkbox"/> Dike
<input type="checkbox"/> Fill	<input type="checkbox"/> Remove	<input type="checkbox"/> Culvert (Size _____)	<input type="checkbox"/> Erosion Control
<input type="checkbox"/> Drain	<input type="checkbox"/> Other	<input type="checkbox"/> Bridge (Size _____)	<input type="checkbox"/> Tile
<input type="checkbox"/> Construct	<input type="checkbox"/>	<input type="checkbox"/> Dam	<input type="checkbox"/> Other

Be sure to attach all necessary reports, maps, drawings, photos, other data, etc., to support permit application.

Description of work to be done: <i>Clean Ditch Bottom along County Road 113.</i>
Estimated drainage area: acres _____ or sq. mile(s) _____
Work is necessary because: <i>Poor Drainage.</i>

I hereby make application for a permit to proceed with the proposal described above and have attached all supporting maps, plans, and other information submitted with this application. The information submitted and statements made concerning this application are true and correct to the best of my knowledge. Obtaining a permit from the Managers does not relieve the applicant from the responsibility of obtaining any other additional authorization or permits required by law.

Signature of landowner: <i>Tim Chaput</i>	Date: <i>5-1-20</i>
--	------------------------



For Office Use Only P.A. No. <i>20-052</i>
---



In the matter of the application of: Tim Chaput, 27388 120th Avenue SW, Red Lake Falls, MN 56750

Pursuant to Minnesota Statutes Chapter 103D, the Permit and Drainage Rules of the Red Lake Watershed District, and on the basis of the statement and information contained in the permit application submitted by applicant, including all letters, maps, and other supporting data furnished by applicant, all of which are made a part hereof by reference, permission is hereby granted to Tim Chaput address for the purposes of notice and other communications pertaining to this permit is 27388 120th Avenue SW, Red Lake Falls, MN 56750 the purpose of doing the work applied for with the following exceptions, changes, and/or special conditions:

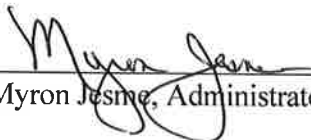
**RLWD approval to clean a county road ditch and lower an 18" diameter field entrance culvert, as per Red Lake County Highway Department specs/conditions; proposed work is within County Road #113 Right-of-Way. All excavation shall be consistent with the existing road and ditch slopes and there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166)**

This permit is granted subject to the following provisions:

- 1) This permit is permissive only and shall not release the permittee from any liability or obligation imposed by Minnesota Statutes, Federal Law or Local Ordinances and shall be subject to all conditions and limitations now or hereafter imposed by law. The Red Lake Watershed District makes no representations to the applicant in granting the permit that the proposed work complies or does not comply with the existing law. No liability shall be imposed upon or incurred by the District or any of its officers, agents or employees, officially or personally, on account of the granting of this permit, or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees or contractors relating to any matter hereunder. This permit shall not be construed as estopping or limiting any legal claim or right of action of the District against the permittee, its agents, employees, or contractors for violation of or failure to comply with the provisions of the permit or applicable provisions of law.
- 2) Work authorized under this permit shall be completed by May 20, 2021, unless extended by the District.
- 3) The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the District for inspection of the work authorized by this permit.
- 4) This permit may be terminated by the District without notice at any time deemed necessary for the management of the water resources of the District, or in the interest of the public health and welfare, or for violation of any of the provisions of this permit.

Dated this 20 day of May, 2020.

Red Lake Watershed District

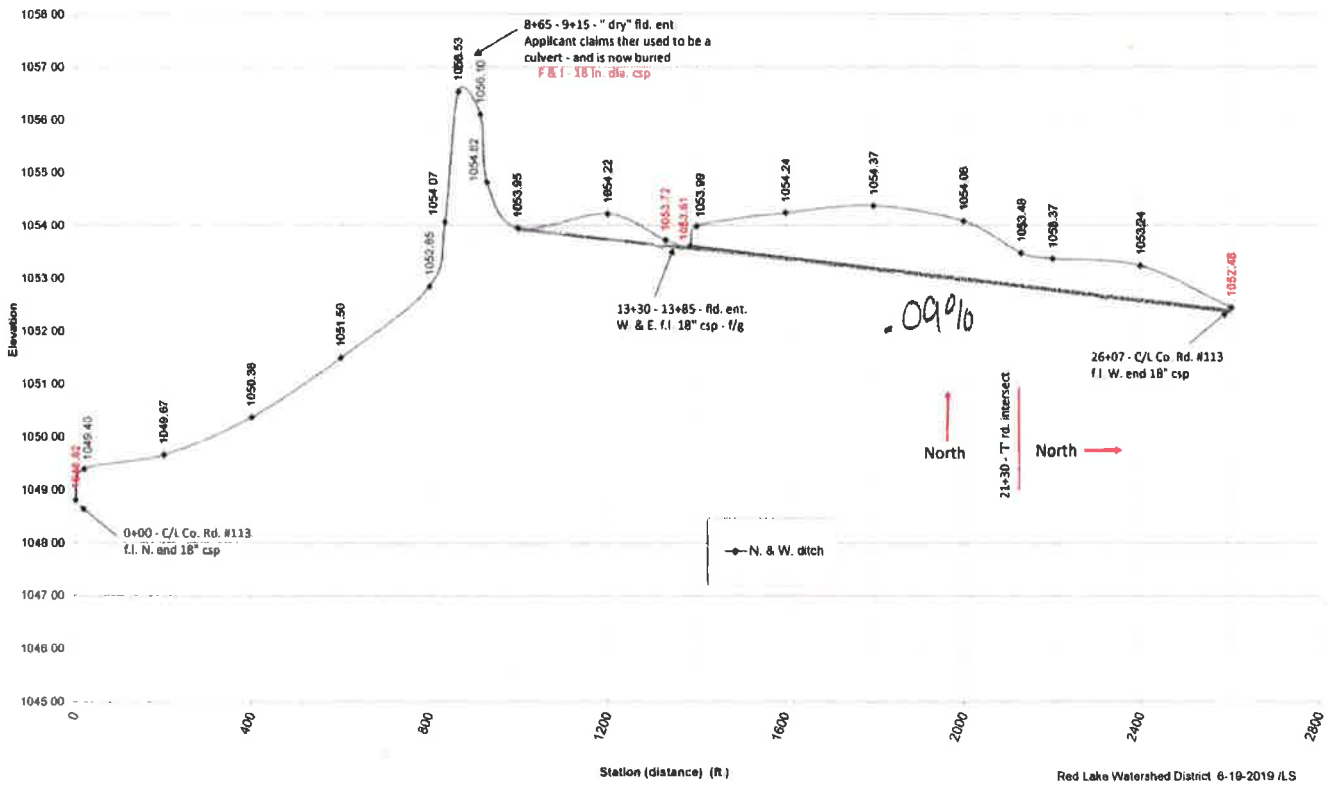
  
\_\_\_\_\_  
Myron Jesme, Administrator

P.A. No. **20-052**

# Chaput



Tim Chaput - Permit #190?? - Co. Rd. #113  
 Red Lk. Co. - Lk. Pleasant Twp. - sec. 20



1.16 / 12.22

0.09%



Lake Pleasant Twp. Sec 20

6-17-19-M  
8/18/20

Legend

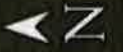
Plugged Crossing

Plugged Crossing

113

Tim Chubbuck  
216-290-1781

6-16-19

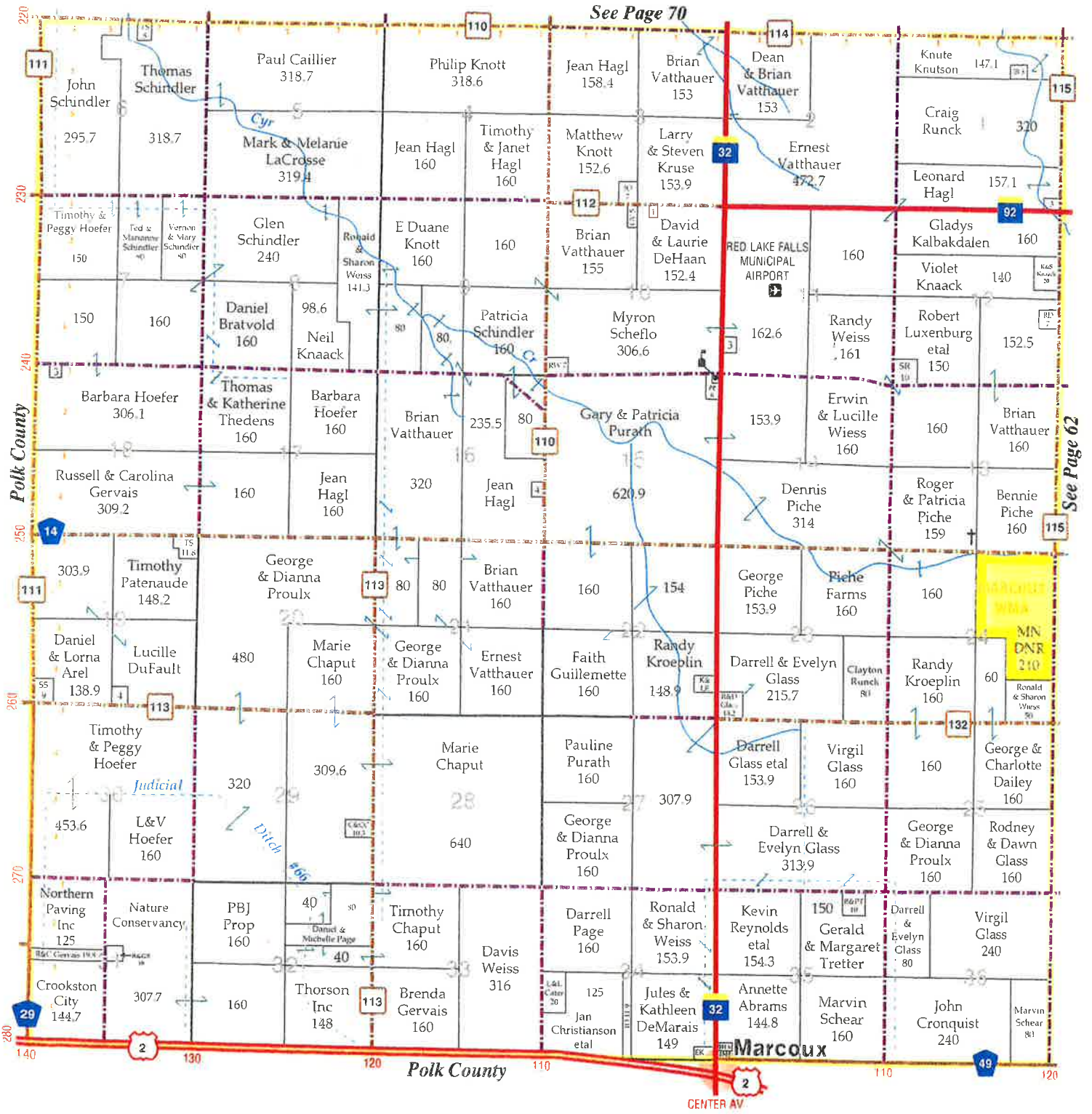




# 1. Lake Pleasant

T.150N. - R.44W.

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## Lambert Insurance

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P.O. Box 459 • Park Place Mall • Red Lake Falls, MN 56750



Permit # 20-188

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Monte Casavan		16448 140th Avenue SW Red Lake Falls, MN		tel: mobile: 218-689-7203 fax:

**General Information**

(1) The proposed project is a:

**Surface Drainage (New Ditch or Improvement)**

(2) Legal Description

(3) County: **Red Lake** Township: **Red Lake Falls** Range: **44** Section: **6 1/4: NW1/4**

(4) Describe in detail the work to be performed. **Clean east road ditch on County Road 13. Request RLWD to review culvert that goes thru County Road 13 where water flows to the west.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Improve drainage**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
Received		Aug. 10, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to clean the west and east county road ditch, as per approval of Red Lake County Highway Department; proposed work is within County Road #13 right-of-way. Applicant shall ensure that all disturbed areas are seeded. A survey of the ditch bottom profile has been completed by the RLWD and a copy of the profile will be sent to the applicant. All excavation shall be consistent with the existing road and ditch slopes, there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 20-205

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	Pennington County Highway Department	250 125th Avenue NE Thief River Falls, MN 56701		tel:218-683-7017 mobile: fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **Star** Range: **39** Section: **29 1/4**: **SW1/4**

(4) Describe in detail the work to be performed. **Cement pipe is too short, will replace with a 66"x45' steel pipe in County Ditch 75.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Current pipe is too short.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
<b>Received</b>		<b>Sept. 1, 2020</b>

**Conditions**

**RLWD approval to remove a 66" diameter reinforced concrete field entrance culvert and replace it with a 66" diameter corrugated metal culvert. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-209

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Willis R. Ihrke		45319 400th Avenue SE, PO Box 52 Lengby, MN		tel:218-668-2546 mobile: 218-230-0636 fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Columbia** Range: **39** Section: **34 1/4: SW1/4**

(4) Describe in detail the work to be performed. **Install culvert under driveway.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Driveway damage and road ditch.**

**Status**

Status	Notes	Date
Approved		Sept. 22, 2020
Received		Sept. 2, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to install a culvert in a driveway which is currently a dry crossing. Applicant may install up to a 30" diameter culvert. Applicant shall contact Polk County Highway Department prior to commencement of work and meet their specs/conditions; work is within CSAH 25 right-of-way. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 20-212

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Delores V. Schulz		13609 Hwy 75 South Euclid, MN 56722		tel: mobile: 218-289-0989 fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Belgium** Range: **46** Section: **20 1/4: SE1/4 SW1/4**

(4) Describe in detail the work to be performed. **Install 48" culvert**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Field crossing.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
Received		Sept. 4, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to install a 48" diameter field entrance culvert, as per approval of Euclid Township; proposed work is within township road right-of-way. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O./L.S.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-218

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
John Swanson		13164 365th Street SE Mentor, MN 56736		tel: mobile: 218-686-4349 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk Township: Grove Park Range: 43 Section: 21 1/4: SE1/4**

(4) Describe in detail the work to be performed. **Install culvert across 145th Avenue SE to drain excessive moisture from west property drainage through existing east property drainage.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Current drainage path backs up from County Hwy 45 ditch excessively into field due to minimal fall. We own property on both sides of 145th Avenue SE**

### Status

Status	Notes	Date
Approved		Sept. 23, 2020
Received		Sept. 9, 2020

### Conditions

**Site 1- Red Lake Watershed District (RLWD) approval to install an 18" diameter centerline culvert, as per approval of Grove Park Township; proposed work is within township road right-of-way. Site 2- RLWD approval to install an 18" diameter field entrance culvert, as per approval of adjacent road authority; proposed work is within legal road right of way. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culverts. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O./L.S.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-219

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Gary Grove		16874 170th Avenue SE Plummer, MN 56748		tel:218-465-4547 mobile: fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Red Lake** Township: **Gervais** Range: **43** Section: **1 1/4: SW1/4**

(4) Describe in detail the work to be performed. **Replace existing culvert.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Culvert is rusted out.**

### Status

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
<b>Received</b>		<b>Sept. 9, 2020</b>

### Conditions

**Red Lake Watershed District (RLWD) approval to remove a 12" diameter driveway culvert and replace it with an 18" diameter culvert, as per approval of Red Lake County Highway Department; proposed work is within County Road #24 right-of-way. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 20-220

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Daniel S. Wichterman		15805 160th Street SE Red Lake Falls, MN 56750		tel: mobile: 218-686-7499 fax:

### General Information

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Red Lake** Township: **Gervais** Range: **43** Section: **2 1/4**:

(4) Describe in detail the work to be performed. **Lower four culverts. Clean sediment out of ditch.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Water is backing up into fields and culverts are too high.**

### Status

Status	Notes	Date
<b>Approved</b>		<b>Sept. 22, 2020</b>
Received		Sept. 10, 2020

### Conditions

**Red Lake Watershed District (RLWD) approval to clean the east township road ditch for 1.25 miles, as per approval of Gervais Township; proposed work is within township road right-of-way. Applicant shall respect the adjacent County Ditch 60 & 62 Benefitted Area's and not divert drainage that does not pay benefits to the County Ditch 62 system. Applicant shall contact the Red Lake County Ditch Inspector prior to working within County Ditch 62 right-of-way. Applicant may lower culverts as needed for grade. All excavation shall be consistent with the existing road and ditch slopes, there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant shall ensure that all disturbed areas are seeded. Any culverts lowered shall have filter fabric and rock riprap placed at the out ends. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-221

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Dallas Stine		103 Stine Drive Trail, MN 56684		tel:218-268-4284 mobile: 218-280-8349 fax:

**General Information**

(1) The proposed project is at:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Gully** Range: **39** Section: **30 1/4**:

(4) Describe in detail the work to be performed. **Replace existing 36" culvert.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Existing culvert is worn out.**

**Status**

Status	Notes	Date
Approved		Sept. 22, 2020
Received		Sept. 10, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to replace an existing 36" diameter driveway culvert, in kind, at the same elevation, as per approval of Polk County Ditch Authority; proposed work is within County Ditch #61 right-of-way. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-222

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Donald Stenberg		27966 180th Street SE Oklee, MN 56742		tel:218-796-5275 mobile: fax:

**General Information**

(1) The proposed project is a:

**Surface Drainage (New Ditch or Improvement)  
Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Red Lake** Township: **Garnes** Range: **41** Section: **2 1/4**:

(4) Describe in detail the work to be performed. **Lower and clean ditch from the Clearwater River north to the intersection of 170th Street and 280th. Replace three culverts along the ditch.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **The area this ditch effects is causing lots of drowned out.**

**Status**

Status	Notes	Date
Approved		Sept. 23, 2020
Received		Sept. 10, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to clean the east county road ditch bottom, and lower culverts as needed for grade, as per approval of Red Lake County Highway Department; proposed work is within County Road #127 right-of-way. It appears that some of the proposed work be near the Clearwater River. If any of the work will be on the riverbank, applicant shall contact the MN Dept. of Natural Resources (MNDNR) area hydrologist concerning their requirements, if any. Contact person at the Thief River Falls MNDNR office is hydrologist Stephanie Klamm. All excavation shall be consistent with the existing road and ditch slopes, there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the lowered culverts. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # **20-223**

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	Minnesota Department of Transportation	3920 Hwy 2 West Bemidji, MN 56601		tel:218-214-6137 mobile: fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Huntsville** Range: **49** Section: **None** 1/4:

(4) Describe in detail the work to be performed. **Replace 13 entrance culverts and 2 centerline culverts on US 2 between EGF and Fisher. Project will also include constructing new turn lanes, crack underlying concrete pavement and bituminous overlay.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **The purpose of the project is to extend the useful service life of the pavement, to provide a smooth riding surface for the traveling public, to perpetuate existing roadside infrastructure and to improve safety along the corridor.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
Received		Sept. 10, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval as per plan set submitted with permit application. N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # **20-224**

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
	Kertsonville Township	28905 160th Avenue SW Crookston, MN 56716		tel: mobile: <b>218-280-1980</b> fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Polk** Township: **Kertsonville** Range: **45** Section: **21 1/4**: **SE1/4**

(4) Describe in detail the work to be performed. **Replace old bridge with metal culvert.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Bridge failed inspection**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
Received		Sept. 10, 2020

**Conditions**

**RLWD approval to remove a failing bridge and replace it with a single line of 72" diameter culvert, or equivalent size arch pipe. If the permit location is within a public or protected water, they shall contact the appropriate jurisdiction and meet their specs/conditions. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O./L.S.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-225

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Edgar Miller		17496 380th Avenue NE Goodridge, MN 56725		tel:218-378-4504 mobile: 218-689-4991 fax:

### General Information

(1) The proposed project is a:

**No work type selected.**

(2) Legal Description

(3) County: **None** Township: **None** Range: **None** Section: **None** 1/4:

(4) Describe in detail the work to be performed.

(5) Why is this work necessary? Explain water related issue/problem being solved.

### Status

Status	Notes	Date
Approved		Sept. 22, 2020
Received		Sept. 11, 2020

### Conditions

**Red Lake Watershed District (RLWD) approval to create field berms and install side water inlet culverts, as per Pennington County Soil & Water Conservation District design. Berms shall be a minimum of 1.0' lower than adjacent roads. If any work is within the Minnesota Department of Transportation Trunk Highway #1 right-of-way, applicant shall contact them for their approval and meet their spec's/conditions. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 20-226

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
John Garry		28495 160th Street SW Euclid, MN 56722		tel: mobile: 218-289-2238 fax:

### General Information

(1) The proposed project is a:

**Surface Drainage (New Ditch or Improvement)**

(2) Legal Description

(3) County: **Polk** Township: **Euclid** Range: **47** Section: **28 1/4: SE1/4**

(4) Describe in detail the work to be performed. **Clean ditch on south side of section of SE1/4**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Ditch has been blow shut from wind.**

### Status

Status	Notes	Date
Approved		Sept. 23, 2020
Received		Sept. 14, 2020

### Conditions

**Red Lake Watershed District (RLWD) approval to clean the north township road ditch, remove a 42" CMP-Arch field entrance, and replace a 15" CMP field entrance with an 18" diameter culvert, as per approval of Euclid Township; proposed work is within township road right-of-way. All excavation shall be consistent with the existing road and ditch slopes, there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet ends of the permitted culverts. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-227

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Earl Pederson		3077 County Highway 42 Bejou, MN 56516		tel:218-790-4106 mobile: fax:

**General Information**

- (1) The proposed project is a:  
**Surface Drainage (New Ditch or Improvement)**
- (2) Legal Description
- (3) County: **Polk Township: Badger Range: 42 Section: 4 1/4: NW1/4**
- (4) Describe in detail the work to be performed. **Remove sediment in ditch along Highway 49.**
- (5) Why is this work necessary? Explain water related issue/problem being solved. **Drainage.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
Received		Sept. 14, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to clean the south county road ditch, as per approval of Polk County Highway Department; proposed work is within County Road #49 right-of-way. All excavation shall be consistent with the existing road and ditch slopes, there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. All culverts shall remain in place, not to be lowered. Applicant shall ensure that all disturbed areas are seeded. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O./L.S.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # 20-228

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Dale Furuseth		2352 12th Avenue NW None		tel: mobile: fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **Sanders** Range: **44** Section: **2 1/4: NW1/4 NE1/4**

(4) Describe in detail the work to be performed. **Install culvert and crossing**

(5) Why is this work necessary? Explain water related issue/problem being solved. **No current crossing to access property.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 23, 2020</b>
<b>Received</b>		<b>Sept. 14, 2020</b>

**Conditions**

**Red Lake Watershed District (RLWD) approval to install an 18" diameter field entrance culvert, remove a dry crossing, and clean a portion of the south township road ditch, as per approval of Sanders Township; proposed work is within township road right-of-way. All excavation shall be consistent with the existing road and ditch slopes, there shall be no vertical excavation faces. Existing drainage/flow patterns shall not be changed or diverted. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.





Permit # 20-229

Status Report: **Approved**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Grant Asp		1203 Greenwood Street East Thief River Falls, MN 56701		tel: mobile: 218-686-2711 fax:

**General Information**

(1) The proposed project is a:

**Culvert Installation / Removal / Modification**

(2) Legal Description

(3) County: **Pennington** Township: **Norden** Range: **None** Section: **None 1/4: SE1/4**

(4) Describe in detail the work to be performed. **Install driveway and culvert.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **Need access to property for new home.**

**Status**

Status	Notes	Date
<b>Approved</b>		<b>Sept. 22, 2020</b>
Received		Sept. 14, 2020

**Conditions**

**Red Lake Watershed District (RLWD) approval to install an 18" diameter driveway culvert, as per approval of Norden Township; proposed work is within township road right-of-way. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



Permit # **20-230**

Status Report: **Approved**

### Applicant Information

Name	Organization	Address	Email	Phone Number(s)
Douglas Peterson	Folson Farms	None		tel: mobile: fax:

### General Information

(1) The proposed project is a:

**No work type selected.**

(2) Legal Description

(3) County: **None** Township: **None** Range: **None** Section: **None** 1/4:

(4) Describe in detail the work to be performed.

(5) Why is this work necessary? Explain water related issue/problem being solved.

### Status

Status	Notes	Date
Approved		Sept. 23, 2020
Received		Sept. 15, 2020

### Conditions

**Red Lake Watershed District (RLWD) approval to install a 24" diameter centerline culvert, as per approval of Sullivan Township; proposed work is within township road right-of-way. If the work is within Polk County Road #19, applicant shall contact the Polk County Highway Department for their approval and meet their spec's/conditions. Applicant shall ensure that all disturbed areas are seeded and that rock riprap with filter fabric is placed at the outlet end of the permitted culvert. Applicant is responsible for utility locates by calling Gopher 1 at (1-800-252-1166) N.J.O./L.S.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.



**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Michael Gasper		None		tel: mobile: fax:

**General Information**

(1) The proposed project is a:

**No work type selected.**

(2) Legal Description

(3) County: **None** Township: **None** Range: **None** Section: **None** 1/4:

(4) Describe in detail the work to be performed.

(5) Why is this work necessary? Explain water related issue/problem being solved.

**Status**

Status	Notes	Date
Approved		Sept. 22, 2020
Received		Sept. 21, 2020

**Conditions**

The Red Lake Watershed District (RLWD) approves the pattern tile project with multiple 'pump' outlets. If any work is within a public road and/or public ditch right-of-way, applicant shall contact the appropriate road/ditch authority for their approval and must meet their specs/conditions. Directly downstream of the tile outlet, applicant shall ensure that adequate grade and drainage is provided. Applicant shall install appropriate erosion control measures for energy dissipation at the tile outlets. **Note: Please be aware of and review the 'bullet points' on the bottom half of the application. For proposed work on lands not owned by applicant, he/she must obtain, in writing, permission from the affected landowners to perform proposed work. Applicant is responsible for utility locates by calling Gopher 1. (1-800-252-1166) N.J.O.**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.