

# LE SUEUR COUNTY BOARD OF COMMISSIONERS MEETING AGENDA September 26, 2017

1	9:00 a.m.	Agenda	and Consent	Agenda	( 5 min)
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RE: September 19, 2017 Minutes and Summary Minutes

RE: Liquor licenses for Caribou Gun Club, Next Chapter Winery and Traxler's Hunting Preserve

- 2. **9:05 a.m. Kathy Brockway, Zoning Administrator (10 minutes)**Request for Action-CUPs/ Vacation Rental By Owner (VRBO) discussion
- 3. 9:15 a.m. Human Resources (5 min)
- 4. 9:20 a.m. Set 2018 Preliminary Levy (10 min)
- 5. 9:30 a.m. Darrell Pettis, County Administrator / Engineer (10 min)

**RE: Lexington Avenue Street Assessments** 

RE: Draft Feasibility Studies for Le Sueur-Scott JD 4, CD 41 and CD 61

**RE:** German Jefferson Petition

6. 9:40 a.m. Pam Simonette, Auditor - Treasurer (5 min)

RE: Tax Forfeiture Auction properties

- 7. Commissioner Committee Reports
- 8. Future Meetings List
- 9. **9:45 a.m. Parks Board Workshop**

10.	10:30 a.m. West Jefferson Work Session



# Le Sueur County, MN

**Tuesday, September 26, 2017 Board Meeting** 

### Item 1

9:00 a.m. Agenda and Consent Agenda (5 min)

RE: September 19, 2017 Minutes and Summary Minutes

RE: Liquor licenses for Caribou Gun Club, Next Chapter Winery and Traxler's Hunting Preserve

**Staff Contact:** 

### Minutes of Le Sueur County Board of Commissioners Meeting September 19, 2017

The Le Sueur County Board of Commissioners met in regular session on Tuesday, September 19, 2017 at 9:00 a.m. in the Courthouse at Le Center, Minnesota. Those members present were: Steve Rohlfing, Lance Wetzel, Dave Gliszinski and John King. Also present were Darrell Pettis and Brent Christian. Joe Connolly was excused.

On motion by Wetzel, seconded by King and unanimously approved, the Board approved the amended agenda for the business of the day.

On motion by King, seconded by Wetzel and approved with Gliszinski abstaining, the Board approved the consent agenda:

- Approved the September 5, 2017 County Board Minutes and Summary Minutes
- •Approved a Sheriff's Youth Project Gambling Application

Sue Rynda, Human Services Director, appeared before the Board to give the monthly Human Services Report. This presentation covered Finance, Income Maintenance, Child Support, Family Services, and Mental Health.

On motion by Wetzel, seconded by King and unanimously approved, the Board approved the Human Services claims:

Financial: \$67,662.46 Soc Services: \$159,704.04

Bob Vogel, State Representative appeared before the Board with a legislative wrap up of the 2017 session.

Brett Mason, Sheriff appeared before the Board with one item for approval.

On motion by Wetzel, seconded by King and unanimously approved, the Board approved to extend the contract for interim services with the City of Montgomery through December 31, 2017

Cindy Westerhouse, Human Resources Director appeared before the Board with several items for approval.

On motion by Gliszinski, seconded by Wetzel and unanimously approved, the Board approved several changes to the Le Sueur County Personnel Policy.

On motion by King, seconded by Wetzel and unanimously approved, the Board convened a closed meeting 10:45 a.m. to develop offer to purchase real property, parcels 24.620.0670, 24.620.0695 and 24.620.0660 per MN Stat. 13D.05 (3) (c) (3).

On motion by King, seconded by Wetzel and unanimously approved, the Board approved to close the closed meeting.

Darrell Pettis, County Administrator / Engineer appeared before the Board with several items for consideration and approval.

On motion by Gliszinski, seconded by King and unanimously approved, the Board approved a TH 99 Detour Agreement.

On motion by Wetzel, seconded by Gliszinski and unanimously approved, the Board approved 435 E. Derrynane Street, Le Center, MN as the address for the upcoming Justice Center.

County Attorney Brent Christian appeared before the Board with two items for approval.

On motion by Wetzel, seconded by Gliszinski and unanimously approved, the Board approved and authorized the Board Chair and County Administrator to sign a Joint Powers Agreement between the BCA and Le Sueur County.

On motion by Gliszinski, seconded by King and unanimously approved, the Board approved and authorized the Board Chair and County Administrator to sign a Court Data Services Subscriber Amendment to CJDN Subscriber Agreement between the BCA and Le Sueur County.

### **Board Member Committee Reports:**

- Commissioner Gliszinski attended a South Central Work Task Force meeting.
- Commissioner King attended a Tri-County Solid Waste meeting, a GBERBA meeting and a Waseca-Le Sueur Library Board meeting.
- Commissioner Wetzel attended a Le Sueur Rice joint ditch meeting, city council meeting, P&Z meeting and a Union meeting.
- Commissioner Rohlfing attended a Tri-County Solid Waste meeting, a NATO Conference in Alaska and an MVAC meeting.

On motion by King, seconded by Gliszinski and unanimously approved, the following claims were approved for payment:

Warrant #	Vendor Name	Amount
46797	Advanced Correctional Healthcare Inc.	\$ 2,329.37
46802	Baker, Tilly, Virchow, Krause LLP	\$ 11,969.00
46807	Blahnik Law Office PLLC	\$ 5,307.45
46809	Bolton & Menk Inc.	\$ 15,934.50
46817	Christian, Keogh, Moran & King	\$ 2,220.38

46824	Diamond Mowers Inc.	\$ 4,348.00
46828	ESRI	\$ 15,000.00
46834	Genesis	\$ 2,517.46
46851	<b>Houston Engineering Inc.</b>	\$ 4,000.00
46852	I & S Group Inc.	\$ 12,780.00
46865	Richard Lea	\$ 4,012.50
46867	Little Falls Machine Inc.	\$ 2,791.15
46871	Mariska Enterprises	\$ 11,371.00
46872	Marston Consulting Group LLC	\$ 6,437.50
46877	Minn St Admin ITG Telecom	\$ 10,280.00
46882	Anthony Nerud	\$ 3,011.25
46890	Paragon Printing & Mailing Inc.	\$ 6,016.95
46899	Rinke-Noonan Law Firm	\$ 3,397.00
46903	Selly Excavating Inc.	\$ 6,159.00
46904	Sergeant Lab Inc.	\$ 7,794.23
46907	SHI International Corp.	\$ 10,863.00
46908	Smith Lawn & Landscape	\$ 4,477.17
46909	S.M.C. Co. Inc.	\$ 9,011.42
46915	Summit	\$ 9,201.50
46919	Tire Associates Inc.	\$ 2,024.94
46923	Traxler Construction Inc.	\$ 19,854.78
46935	Waseca Co Sheriff's Dept	\$ 5,820.00
46936	Wenck Associates Inc.	\$ 52,425.14
46940	Wondra Automotive Inc.	\$ 4,853.06
117 Claims paid les	s than \$2,000.00:	\$ 42,652.45
29 Claims paid mo	ore than \$2,000.00:	\$256,207.75
146 Total all claims paid:		\$298,860.20

On motion by King, seconded by Gliszinski and unanimously approved, the Board adjourned until Tuesday, September 26, 2017 at 9:00 a.m.

<b>ATTEST</b> :		
	Le Sueur County Administrator	Le Sueur County Chairman

### Summary Minutes of Le Sueur County Board of Commissioners Meeting, September 19, 2017

- •This is only a summary publication per MN Statutes 375.12 and 331A.01 sub. 10. The complete minutes are on file in the Le Sueur County Administrator's Office at 88 S Park Ave. Le Center, MN and are available at www.co.le-sueur.mn.us.
- •Approved the agenda. (Wetzel-King)
- •Approved the consent agenda. (King-Wetzel)
- •Approved the Human Services claims: Financial \$67,662.46 and Soc Services \$159,704.04 (Wetzel-King)
- •Approved to extend the contract for interim services with the City of Montgomery through December 31, 2017. (Wetzel-King)
- •Approved several changes to the Le Sueur County Personnel Policy. (Gliszinski-Wetzel)
- •Convened a closed meeting 10:45 a.m. to develop offer to purchase real property, parcels 24.620.0670, 24.620.0695 and 24.620.0660 per MN Stat. 13D.05 (3) (c) (3). (King-Wetzel)
- •Approved to close the closed meeting. (King-Wetzel)
- •Approved a TH 99 Detour Agreement. (Gliszinski-King)
- •Approved 435 E. Derrynane Street, Le Center, MN as the address for the upcoming Justice Center. (Wetzel-Gliszinski)
- •Approved a Joint Powers Agreement between the BCA and Le Sueur County. (Wetzel-Gliszinski)
- •Approved a Court Data Services Subscriber Amendment to CJDN Subscriber Agreement between the BCA and Le Sueur County. (Gliszinski-King)
- •The following claims were approved for payment: (King-Gliszinski)

Warrant #	Vendor Name	Amount
46797	Advanced Correctional Healthcare Inc.	\$ 2,329.37
46802	Baker, Tilly, Virchow, Krause LLP	\$ 11,969.00
46807	Blahnik Law Office PLLC	\$ 5,307.45
46809	Bolton & Menk Inc.	\$ 15,934.50
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46923	Traxler Construction Inc.	\$ 19,854.78
46935	Waseca Co Sheriff's Dept	\$ 5,820.00
46936	Wenck Associates Inc.	\$ 52,425.14
46940	Wondra Automotive Inc.	\$ 4,853.06

117 Claims paid less than \$2,000.00:\$ 42,652.4529 Claims paid more than \$2,000.00:\$256,207.75146 Total all claims paid:\$298,860.20

•Adjourned until Tuesday, September 26, 2017 at 9:00 a.m. (King-Gliszinski) ATTEST: Le Sueur County Administrator Le Sueur County Chairman



# Le Sueur County, MN

**Tuesday, September 26, 2017 Board Meeting** 

### Item 2

9:05 a.m. Kathy Brockway, Zoning Administrator (10 minutes)

Request for Action-CUPs/ Vacation Rental By Owner (VRBO) discussion

Staff Contact: Kathy Brockway - Environmental and P & Z Director

### LE SUEUR COUNTY PLANNING AND ZONING COMMISSION 88 SOUTH PARK AVE. LE CENTER, MINNESOTA 56057

**September 14, 2017** 

MEMBERS PRESENT: Don Reak, Jeanne Doheny, Don Rynda, Shirley Katzenmeyer, Al Gehrke,

Pam Tietz, Commissioner Wetzel

MEMBERS ABSENT: Doug Krenik

OTHERS PRESENT: Kathy Brockway, Joshua Mankowski

The meeting was called to order at 7:00 PM by Chairperson, Jeanne Doheny.

ITEM #1: JEROME BROWN, WATERVILLE, MN, (APPLICANT\OWNER): Requests that the County grant a Conditional Use Permit to allow grading, excavating, and filling of approximately 169 cubic yards of material for the construction of retaining walls and beach area within the shore impact zone in a Recreational Residential "RR" District, on a Recreational Development "RD" lake, Lake Tetonka. Property is located at Lot 6, Rearrangement Raedeke Subdivision, Section 20, Waterville Township.

Kathy Brockway presented power point presentation. Carrie Brown was present for application.

**TOWNSHIP**: Al Gehrke, Waterville Township has no objections to the proposal. **DNR**: No comments **LETTERS**: Joshua Mankowski, LSC Resource Specialist (see file).

PUBLIC COMMENT: None

**Discussion** was held regarding: removal of existing green treated retaining walls, replace with boulder walls, environmentally friendly, safety for children, reduced impervious surface, variance granted in August of 2017 for impervious surface, removal of failing stairways, drainage.

### Findings by majority roll call vote:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

Motion was made by Al Gehrke to approve the application with the following conditions:

1. Plant Minnesota native vegetation to provide the required screening along the retaining walls.

2. Two trees be planted somewhere on the parcel to replace the two trees that are being removed as part of this project.

Seconded by Shirley Katzenmeyer. Motion approved. Motion carried.

**ITEM #2:** ANDREW SKLUZACEK, LE CENTER, MN, (APPLICANT\OWNER): Requests that the County grant a Conditional Use Permit to allow the applicant to establish and operate a dog kennel for boarding and training of animals in an Agriculture "A" District. Property is located in the SW 1/4 SE 1/4, Section 23, Cordova Township.

Kathy Brockway presented power point presentation. Andrew Skluzacek was present for application.

**TOWNSHIP:** Mike Groh, Cordova Township Board, township has no objections to the proposal. **LETTERS**: Amy Beatty, LSC Feedlot Officer (see file).

**PUBLIC COMMENT**: Mark Sheehy, adjacent landowner, questioned the amount of shooting that will occur during the day. Andrew Skluzacek stated at a minimum of 10-20 shots depending on the type of session.

**Discussion** was held regarding: kennel will be set up in an existing building; will conduct bird and gun training, obedience training, normally 8-10 week sessions, 12 dogs, small sign, applied for licenses from the DNR and MN Board of Animal Health, license was not required, therefore reimbursed permit fees, proper disposal of animal waste, installation of a 2000 gallon holding tank.

### Findings by majority roll call vote:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit is consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit is consistent with the Comprehensive Land Use Plan.

Motion was made by Don Reak to approve the application with the following conditions:

- When the tank is installed, it be tested for water-tightness and not be installed at a depth greater than allowed by the manufacturer.
- A service agreement or contract between Mr. Skluzacek and B & B Septic on file with the Planning and Zoning Department.
- A written statement as to where the dog waste will be disposed.
  - If at a city's wastewater treatment plant, approval from the wastewater treatment plant's operator, or

- If it is land applied, that the land application does not create or maintain a pollution hazard (maintain setbacks to sensitive features during land application and apply at agronomic rates).
  - If applied on land outside of the County of Le Sueur, check with that County on its land application requirements.

Seconded by Pam Tietz. Motion approved. Motion carried.

ITEM #3: MICHAEL & NANCY KELLER, OWATONNA, MN, (APPLICANT\OWNER): Request that the County grant a Conditional Use Permit to allow grading, excavating, and filling of approximately 139.5 cubic yards of material for the construction of a retaining wall in a Recreational Residential "RR" District on a Recreational Development "RD" lake, Lake Francis. Property is located at Lot 11, Muellerleille Subdivision, Section 33, Elysian Township.

Kathy Brockway presented power point presentation. Bob Hall, representing the applicant was present for the application.

**TOWNSHIP**: Notified through the application process. **DNR**: No comments. **LETTERS**: Joshua Mankowski, LSC Resource Specialist (see file).

**PUBLIC COMMENT**: Don Schulte, President of Subdivision Association, questioned the hauling of material to the site on the road, asphalt road just resurfaced. Clark Meyer, landowner, private road, access to property for construction.

**Discussion** was held regarding: drainage, installation of drain tile to day light to lake, 1.5 inch river rock slows down the drainage, benefits to the lake, a more natural look, 7-8 truckloads of material for the project, private road, weight of truck similar to garbage trucks, skid loader, access to property, west side of property, removal of timber stairways, replaced with stone, native vegetation for screening.

### Findings by majority roll call vote:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

Motion was made by Al Gehrke to approve the application with the following condition:

1. Plant Minnesota native vegetation to provide for a more natural appearance and provide increased site stability.

Seconded by Don Rynda. Motion approved. Motion carried.

ITEM #4: LE SUEUR COUNTY SOIL & WATER CONSERVATION DISTRICT (SWCD), LE CENTER, MN, (APPLICANT); BRANDON BROCKWAY, LE CENTER, MN, (OWNER): Request that the County grant a Conditional Use Permit to allow grading, excavating, and filling of approximately 15 cubic yards of material for a shoreland restoration project in a Special Protection "SP" District, on a Recreational Development "RD" lake, Lake Volney. Property is located in Government Lot 3, Section 31, Montgomery Township.

Kathy Brockway presented power point presentation. Joshua Mankowksi, in-kind representative, and Ryan Jones, Engineer, SWCD was present for application.

**TOWNSHIP**: Notified through the application process. DNR: No Comments. LETTERS: None

PUBLIC COMMENT: None.

**Discussion** was held regarding: property is located within the Lake Volney Targeted Area grant, rip-rap approximately 182 ft. of shoreline.

### Findings by majority roll call vote:

- 1. The conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. The establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. Adequate utilities, access roads, drainage and other facilities are being provided.
- 4. Adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. Adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. The Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. The Conditional Use Permit consistent with the Comprehensive Land Use Plan.

Motion was made by Shirley Katzenmeyer to approve the application. Seconded by Pam Tietz. Motion approved. Motion carried.

ITEM #5: ISG, BRIAN WELCH, FARIBAULT, MN, (APPLICANT); MARVIN BARTLETT, KASOTA, MN, (OWNER): Request that the County grant an After-The-Fact Conditional Use Permit to allow grading, excavating and filling within the bluff and bluff impact zone for the construction of a retaining wall and patio; additional grading, excavating and filling within the bluff and bluff impact zone for bluff restoration, retaining wall within the bluff impact zone and construction of a water-oriented water accessory structure within the bluff for a total of 541 cubic yards in a Recreational Residential "RR" District. Property is located at Lot 4, La Hans Subdivision and Units 1410 & 1420 CIC #54, Section 7, Kasota Township.

Kathy Brockway presented power point presentation. Marvin Bartlett was present for application.

**TOWNSHIP**: Notified through the application process. **DNR**: No Comments. **LETTERS**: Joshua Mankowski, see file.

PUBLIC COMMENT: none

**Discussion** was held regarding: questioned as to why he didn't apply for permitting, didn't' realize it was a bluff until having the property surveyed, would like to finish the project, removal of 56 square ft. of patio, construction of retaining wall for bluff stabilization, working with I &S Engineering, retaining wall 30 ft in length, 1 ft high, installation of rain garden, working with Environmental Service staff, variance granted in August of 2017 to replace the water oriented structure due to leaning towards the lake, project started in the summer of 2016.

Findings by majority roll call vote:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

Motion was made by Don Reak to approve the application with the following conditions:

- 1. Bluff area shall be replanted with Minnesota Native, deep-rooted vegetation to ensure continued bluff stability.
- 2. Plant Minnesota Native, deep-rooted vegetation to provide screening for the retaining wall.
- 3. Special consideration be taken in final construction of the water orientated accessory structure to provide proper drainage to ensure the longevity of the new structure and prevent future erosion issues on the site.
- 4. Direct runoff from pervious surface to the rain garden to provide additional treatment. Seconded by Al Gehrke. Motion approved. Motion carried.

ITEM #6: SCOTT HASS, CLEVELAND, MN, (APPLICANT); JAMES LOSINSKI, CLEVELAND, MN, (OWNER): Request that the County grant a rezone of approximately 4.61 acres from a Recreational Residential "RR" District, to a Recreational Commercial "RC" District on a Recreational Development "RD" lake, Lake Jefferson. Property is located in the SE 1/4, Section 31, Cordova Township.

Kathy Brockway presented power point presentation. Scott Hass was present for application.

**TOWNSHIP**: Mike Groh, Cordova Township Board member was present no objections with the proposal. **DNR**: No comments. **LETTERS**: None

**PUBLIC COMMENT**: Kevin Sexton, property owner, Hardeggers Addn, concerned with safety, boat traffic on the lake; Bob Frost, Hardeggers Addn. questioned planting of trees, proposed number of campsites within the expansion area.

**Discussion** was held regarding: rezoning 4.61 acres from Recreational-Residential to Recreational Commercial, expansion of the existing campground, update septic system, triangle piece currently used as storage, stormwater, electrical, number of campsites proposed, might change due to septic location, electrical services, will be addressed through the conditional use permit process in order to expand the campground.

### Findings by majority roll call vote:

- 1. The proposal reflects and is consistent with the goals and polices of the Le Sueur County Land Use Plan.
- 2. The proposal is compatible with the overall character of existing development in the immediate vicinity of the affected property. Consideration shall be made if there are similar land uses nearby or if the proposed use would be isolated.
- 3. The proposal will not have an adverse effect on the value of adjacent properties.
- 4. The proposal will not be injurious to the use and enjoyment of other property in the immediate vicinity for the uses already permitted.
- 5. The proposal will not impede the normal and orderly development of surrounding vacant property for predominant uses in the area.
- 6. The density of the proposal is not greater than the density of the surrounding neighborhood or density indicated by the applicable Zoning District.
- 7. Adequate utilities, access roads, drainage, and other necessary infrastructure are being provided.
- 8. Soil conditions are adequate to accommodate the proposal.
- 9. The proposal will not create a potential pollution hazard.
- 10. The proposal will not degrade the water quality of the County.
- 11. The proposal will not have a negative impact upon natural resource areas such as bluffs, wetlands, water bodies, agricultural land, woodlands, and aggregate resource deposits.
- 12. The proposal will not negatively affect the protection of the public health, safety, and general welfare.

Motion was made by Don Reak to approve the rezone as it will be a continuation of a Recreational-Commercial Zoning District. Seconded by Pam Tietz. Motion approved. Motion carried.

Motion was made by Al Gehrke to approve the minutes from the August 17, 2017 meeting. Seconded by Don Rynda. Motion approved. Motion carried.

Motion to adjourn meeting by Pam Tietz. Seconded by Al Gehrke. Motion approved. Motion carried.

Meeting Adjourned.

Respectfully submitted, Pam Tietz by Kathy Brockway

Tape of meeting is on file in the Le Sueur County Environmental Services Office

## LE SUEUR COUNTY PLANNING AND ZONING COMMISSION SEPTEMBER 26, 2017

TO: LE SUEUR COUNTY BOARD OF COMMISSIONERS

FROM: LE SUEUR COUNTY PLANNING AND ZONING COMMISSION

SUBJECT: "REQUEST FOR ACTION"

The Planning Commission recommends your action on the following items:

ITEM #1: JEROME BROWN, WATERVILLE, MN, (APPLICANT\OWNER): Requests that the County grant a Conditional Use Permit to allow grading, excavating, and filling of approximately 169 cubic yards of material for the construction of retaining walls and beach area within the shore impact zone in a Recreational Residential "RR" District, on a Recreational Development "RD" lake, Lake Tetonka. Property is located at Lot 6, Rearrangement Raedeke Subdivision, Section 20, Waterville Township.

Based on the information submitted by the applicant, as required by the Le Sueur County Zoning Ordinance, the Planning Commission developed the following findings for this request:

Therefore, the Planning Commission recommends approval of the application with the following conditions:

- 1. Plant Minnesota native vegetation to provide the required screening along the retaining walls.
- Two trees be planted somewhere on the parcel to replace the two trees that are being removed as part of this project.

**ITEM #2:** ANDREW SKLUZACEK, LE CENTER, MN, (APPLICANT\OWNER): Requests that the County grant a Conditional Use Permit to allow the applicant to establish and operate a dog kennel for boarding and training of animals in an Agriculture "A" District. Property is located in the SW 1/4 SE 1/4, Section 23, Cordova Township.

Based on the information submitted by the applicant, as required by the Le Sueur County Zoning Ordinance, the Planning Commission developed the following findings for this request:

Therefore, the Planning Commission recommends approval of the application with the following conditions:

- 1. When the tank is installed, it be tested for water-tightness and not be installed at a depth greater than allowed by the manufacturer.
- 2. A service agreement or contract between Mr. Skluzacek and B & B Septic on file with the Planning and Zoning Department.
- 3. A written statement as to where the dog waste will be disposed.
  - a. If at a city's wastewater treatment plant, approval from the wastewater treatment plant's operator, or
  - b. If it is land applied, that the land application does not create or maintain a pollution hazard (maintain setbacks to sensitive features during land application and apply at agronomic rates).
  - c. If applied on land outside of the County of Le Sueur, check with that County on its land application requirements.

ITEM #3: MICHAEL & NANCY KELLER, OWATONNA, MN, (APPLICANT\OWNER):

Request that the County grant a Conditional Use Permit to allow grading, excavating, and filling of approximately 139.5 cubic yards of material for the construction of a retaining wall in a Recreational Residential "RR" District on a Recreational Development "RD" lake, Lake Francis. Property is located at Lot 11, Muellerleille Subdivision, Section 33, Elysian Township.

Based on the information submitted by the applicant, as required by the Le Sueur County Zoning Ordinance, the Planning Commission developed the following findings for this request:

Therefore, the Planning Commission recommends approval of the application with the following condition:

1. Plant Minnesota native vegetation to provide for a more natural appearance and provide increased site stability.

ITEM #4: LE SUEUR COUNTY SOIL & WATER CONSERVATION DISTRICT (SWCD), LE CENTER, MN, (APPLICANT); BRANDON BROCKWAY, LE CENTER, MN, (OWNER): Request that the County grant a Conditional Use Permit to allow grading, excavating, and filling of

1

approximately 15 cubic yards of material for a shoreland restoration project in a Special Protection "SP" District, on a Recreational Development "RD" lake, Lake Volney. Property is located in Government Lot 3, Section 31, Montgomery Township.

Based on the information submitted by the applicant, as required by the Le Sueur County Zoning Ordinance, the Planning Commission developed the following findings for this request:

Therefore, the Planning Commission recommends approval of the application as written.

ITEM #5: ISG, BRIAN WELCH, FARIBAULT, MN, (APPLICANT); MARVIN BARTLETT, KASOTA, MN, (OWNER): Request that the County grant an After-The-Fact Conditional Use Permit to allow grading, excavating and filling within the bluff and bluff impact zone for the construction of a retaining wall and patio; additional grading, excavating and filling within the bluff and bluff impact zone for bluff restoration, retaining wall within the bluff impact zone and construction of a water-oriented water accessory structure within the bluff for a total of 541 cubic yards in a Recreational Residential "RR" District. Property is located at Lot 4, La Hans Subdivision and Units 1410 & 1420 CIC #54, Section 7, Kasota Township.

Based on the information submitted by the applicant, as required by the Le Sueur County Zoning Ordinance, the Planning Commission developed the following findings for this request:

Therefore, the Planning Commission recommends approval of the application with the following conditions:

- 1. Bluff area shall be replanted with Minnesota Native, deep-rooted vegetation to ensure continued bluff stability.
- 2. Plant Minnesota Native, deep-rooted vegetation to provide screening for the retaining wall.
- 3. Special consideration be taken in final construction of the water orientated accessory structure to provide proper drainage to ensure the longevity of the new structure and prevent future erosion issues on the site.
- 4. Direct runoff from pervious surface to the rain garden to provide additional treatment.

ITEM #6: SCOTT HASS, CLEVELAND, MN, (APPLICANT); JAMES LOSINSKI, CLEVELAND, MN, (OWNER): Request that the County grant a rezone of approximately 4.61 acres from a Recreational Residential "RR" District, to a Recreational Commercial "RC" District on a Recreational Development "RD" lake, Lake Jefferson. Property is located in the SE 1/4, Section 31, Cordova Township.

Based on the information submitted by the applicant, as required by the Le Sueur County Zoning Ordinance, the Planning Commission developed the following findings for this request:

Therefore, the Planning Commission recommends approval of the application as requested.

ACTION:	ITEM #1:	
	ITEM #2:	
	ITEM #3:	
	ITEM #4:	
	ITEM #5:	
	ITEM #6:	
DATE:		
COUNTY ADMI	NISTRATOR'S SIGNATURE:	

### FINDINGS OF FACT

WHEREAS, JEROME BROWN, WATERVILLE, MN, (APPLICANT\OWNER): has applied for a Conditional Use Permit to allow grading, excavating, and filling of approximately 169 cubic yards of material for the construction of retaining walls and beach area within the shore impact zone in a Recreational Residential "RR" District, on a Recreational Development "RD" lake, Lake Tetonka. Property is located at Lot 6, Rearrangement Raedeke Subdivision, Section 20, Waterville Township.

**WHEREAS,** the Le Sueur County Planning and Zoning Commission held on public hearing on September14, 2017, in order to hear public testimony from the applicants as well as interested parties pertaining to and as provided by the Zoning Ordinance of Le Sueur County.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission, acting as an advisory board to the Le Sueur County Board of Commissioners recommends approval of the application with conditions due to the following findings:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

WHEREAS, On September 26, 2017, at their regularly scheduled meeting, the Le Sueur County Board of Commissioners APPROVED/DENIED the Conditional Use Permit application as requested by JEROME BROWN, WATERVILLE, MN, (APPLICANT\OWNER.

**NOW, THEREFORE, IT IS HEREBY RESOLVED**, the following Findings of Fact were adopted at the September 26, 2017 Le Sueur County Board meeting in order to protect the public health, safety and general welfare of the citizens of Le Sueur County.

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

**BE IT FURTHER RESOLVED,** by the Le Sueur County Board of Commissioners that based on the above Findings of Fact, a Conditional Use Permit to allow grading, excavating, and filling of approximately 169 cubic yards of material for the construction of retaining walls and beach area within the shore impact zone in a Recreational Residential "RR" District, on a Recreational Development "RD" lake, Lake Tetonka. Property is located at Lot 6, Rearrangement Raedeke Subdivision, Section 20, Waterville Township, is APPROVED/DENIED.

ATTEST:
Steve Rohlfing, Chairman, Le Sueur County Board of Commissioners.
Darrell Pettis, Le Sueur County Administrator
DATE:

### FINDINGS OF FACT

WHEREAS, ANDREW SKLUZACEK, LE CENTER, MN, (APPLICANT\OWNER): has applied for a Conditional Use Permit to establish and operate a dog kennel for boarding and training of animals in an Agriculture "A" District. Property is located in the SW 1/4 SE 1/4, Section 23, Cordova Township.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission held on public hearing on September 14, 2017 in order to hear public testimony from the applicants as well as interested parties pertaining to and as provided by the Zoning Ordinance of Le Sueur County.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission, acting as an advisory board to the Le Sueur County Board of Commissioners recommends approval of the application due to the following findings:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit is consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit is consistent with the Comprehensive Land Use Plan.

WHEREAS, On September 26, 2017, at their regularly scheduled meeting, the Le Sueur County Board of Commissioners APPROVED/DENIED the Conditional Use Permit application as requested by ANDREW SKLUZACEK.

**NOW, THEREFORE, IT IS HEREBY RESOLVED**, the following Findings of Fact were adopted at the September 26, 2017 Le Sueur County Board meeting in order to protect the public health, safety and general welfare of the citizens of Le Sueur County.

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control

lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

- 6. With the imposition of the conditions, the Conditional Use Permit is consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit is consistent with the Comprehensive Land Use Plan.

**BE IT FURTHER RESOLVED,** by the Le Sueur County Board of Commissioners that based on the above Findings of Fact, a Conditional Use Permit to establish and operate a dog kennel for boarding and training of animals in an Agriculture "A" District. Property is located in the SW 1/4 SE 1/4, Section 23, Cordova Township, is APPROVED/DENIED.

ATTEST:
Steve Rohlfing, Chairman, Le Sueur County Board of Commissioners.
Darrell Pettis, Le Sueur County Administrator
DATE:

### FINDINGS OF FACT

WHEREAS, MICHAEL & NANCY KELLER, OWATONNA, MN, (APPLICANT\OWNER): has applied for a Conditional Use Permit to allow grading, excavating, and filling of approximately 139.5 cubic yards of material for the construction of a retaining wall in a Recreational Residential "RR" District on a Recreational Development' "RD" lake, Lake Francis. Property is located at Lot 11, Muellerleille Subdivision, Section 33, Elysian Township

**WHEREAS**, the Le Sueur County Planning and Zoning Commission held on public hearing on September 14, 2017 in order to hear public testimony from the applicants as well as interested parties pertaining to and as provided by the Zoning Ordinance of Le Sueur County.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission, acting as an advisory board to the Le Sueur County Board of Commissioners recommends approval of the application due to the following findings:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

WHEREAS, On September 26, 2017 at their regularly scheduled meeting, the Le Sueur County Board of Commissioners APPROVED/DENIED the Conditional Use Permit application as requested by MICHAEL & NANCY KELLER.

**NOW, THEREFORE, IT IS HEREBY RESOLVED**, the following Findings of Fact were adopted at the September 26, 2017 Le Sueur County Board meeting in order to protect the public health, safety and general welfare of the citizens of Le Sueur County.

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

**BE IT FURTHER RESOLVED,** by the Le Sueur County Board of Commissioners that based on the above Findings of Fact, a Conditional Use Permit to allow grading, excavating, and filling of approximately 139.5 cubic yards of material for the construction of a retaining wall in a Recreational Residential "RR" District on a Recreational Development "RD" lake, Lake Francis. Property is located at Lot 11, Muellerleille Subdivision, Section 33, Elysian Township is APPROVED/DENIED.

ATTEST:
Steve Rohlfing, Chairman, Le Sueur County Board of Commissioners.
Darrell Pettis, Le Sueur County Administrator
DATE:

### FINDINGS OF FACT

WHEREAS, LE SUEUR COUNTY SOIL & WATER CONSERVATION DISTRICT (SWCD), LE CENTER, MN, (APPLICANT); BRANDON BROCKWAY, LE CENTER, MN, (OWNER): has applied for a Conditional Use Permit to allow grading, excavating, and filling of approximately 15 cubic yards of material for a shoreland restoration project in a Special Protection "SP" District, on a Recreational Development "RD" lake, Lake Volney. Property is located in Government Lot 3, Section 31, Montgomery Township.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission held on public hearing on September 14, 2017 in order to hear public testimony from the applicants as well as interested parties pertaining to and as provided by the Zoning Ordinance of Le Sueur County.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission, acting as an advisory board to the Le Sueur County Board of Commissioners recommends approval of the application due to the following findings:

- 1. The conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. The establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. Adequate utilities, access roads, drainage and other facilities are being provided.
- 4. Adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. Adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. The Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. The Conditional Use Permit consistent with the Comprehensive Land Use Plan.

WHEREAS, On September 14, 2017, at their regularly scheduled meeting, the Le Sueur County Board of Commissioners APPROVED/DENIED the Conditional Use Permit application as requested by LE SUEUR COUNTY SOIL & WATER CONSERVATION DISTRICT (SWCD), BRANDON BROCKWAY.

**NOW, THEREFORE, IT IS HEREBY RESOLVED**, the following Findings of Fact were adopted at the September 26,2017 Le Sueur County Board meeting in order to protect the public health, safety and general welfare of the citizens of Le Sueur County.

- 1. The conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. The establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. Adequate utilities, access roads, drainage and other facilities are being provided.
- 4. Adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. Adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

- 6. The Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. The Conditional Use Permit consistent with the Comprehensive Land Use Plan.

**BE IT FURTHER RESOLVED,** by the Le Sueur County Board of Commissioners that based on the above Findings of Fact, a Conditional Use Permit to allow grading, excavating, and filling of approximately 15 cubic yards of material for a shoreland restoration project in a Special Protection "SP" District, on a Recreational Development "RD" lake, Lake Volney. Property is located in Government Lot 3, Section 31, Montgomery Township,is APPROVED/DENIED.

ATTEST:
Steve Rohlfing, Chairman, Le Sueur County Board of Commissioners.
Darrell Pettis, Le Sueur County Administrator
DATE:

### FINDINGS OF FACT

WHEREAS, ISG, BRIAN WELCH, FARIBAULT, MN, (APPLICANT); MARVIN BARTLETT, KASOTA, MN, (OWNER): has applied for a Conditional Use Permit an After-The-Fact Conditional Use Permit to allow grading, excavating and filling within the bluff and bluff impact zone for the construction of a retaining wall and patio; additional grading, excavating and filling within the bluff and bluff impact zone for bluff restoration, retaining wall within the bluff impact zone and construction of a water-oriented water accessory structure within the bluff for a total of 541 cubic yards in a Recreational Residential "RR" District. Property is located at Lot 4, La Hans Subdivision and Units 1410 & 1420 CIC #54, Section 7, Kasota Township.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission held on public hearing on September 14, 2017 in order to hear public testimony from the applicants as well as interested parties pertaining to and as provided by the Zoning Ordinance of Le Sueur County.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission, acting as an advisory board to the Le Sueur County Board of Commissioners recommends approval of the application due to the following findings:

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street parking and loading space to serve the proposed use.
- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

WHEREAS, On September 26, 2017, at their regularly scheduled meeting, the Le Sueur County Board of Commissioners APPROVED/DENIED the Conditional Use Permit application as requested by ISG, BRIAN WELCH, MARVIN BARTLETT.

**NOW, THEREFORE, IT IS HEREBY RESOLVED**, the following Findings of Fact were adopted at the **DATE** Le Sueur County Board meeting in order to protect the public health, safety and general welfare of the citizens of Le Sueur County.

- 1. With the imposition of the conditions, the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminishes and impairs property values within the immediate vicinity.
- 2. With the imposition of the conditions, the establishment of the conditional use will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. With the imposition of the conditions, adequate utilities, access roads, drainage and other facilities are being provided.
- 4. With the imposition of the conditions, adequate measures will be taken to provide sufficient off-street

parking and loading space to serve the proposed use.

- 5. With the imposition of the conditions, adequate measures will be taken to prevent and control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.
- 6. With the imposition of the conditions, the Conditional Use Permit consistent with and supported by the statement of purposes, policies, goals and objectives in the Ordinance.
- 7. With the imposition of the conditions, the Conditional Use Permit consistent with the Comprehensive Land Use Plan.

**BE IT FURTHER RESOLVED,** by the Le Sueur County Board of Commissioners that based on the above Findings of Fact, a Conditional Use Permit an After-The-Fact Conditional Use Permit to allow grading, excavating and filling within the bluff and bluff impact zone for the construction of a retaining wall and patio; additional grading, excavating and filling within the bluff and bluff impact zone for bluff restoration, retaining wall within the bluff impact zone and construction of a water-oriented water accessory structure within the bluff for a total of 541 cubic yards in a Recreational Residential "RR" District. Property is located at Lot 4, La Hans Subdivision and Units 1410 & 1420 CIC #54, Section 7, Kasota Township, is APPROVED/DENIED.

ATTEST:
Steve Rohlfing, Chairman, Le Sueur County Board of Commissioners.
Darrell Pettis, Le Sueur County Administrator
DATE:

#### FINDINGS OF FACT

WHEREAS, SCOTT HASS, CLEVELAND, MN, (APPLICANT); JAMES LOSINSKI, CLEVELAND, MN, (OWNER): has applied to rezone approximately 4.61 acres from a Recreational Residential "RR" District, to a Recreational Commercial "RC" District on a Recreational Development "RD" lake, Lake Jefferson. Property is located in the SE 1/4, Section 31, Cordova Township.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission held on public hearing on September 14, 2017 in order to hear public testimony from the applicants as well as interested parties pertaining to and as provided by the Zoning Ordinance of Le Sueur County.

**WHEREAS**, the Le Sueur County Planning and Zoning Commission, acting as an advisory board to the Le Sueur County Board of Commissioners recommends approval of the application due to the following findings:

- 1. The proposal reflects and is consistent with the goals and polices of the Le Sueur County Land Use Plan.
- The proposal is compatible with the overall character of existing development in the immediate vicinity of the affected property. Consideration shall be made if there are similar land uses nearby or if the proposed use would be isolated.
- 3. The proposal will not have an adverse effect on the value of adjacent properties.
- 4. The proposal will not be injurious to the use and enjoyment of other property in the immediate vicinity for the uses already permitted.
- 5. The proposal will not impede the normal and orderly development of surrounding vacant property for predominant uses in the area.
- 6. The density of the proposal is not greater than the density of the surrounding neighborhood or density indicated by the applicable Zoning District.
- 7. Adequate utilities, access roads, drainage, and other necessary infrastructure are being provided.
- 8. Soil conditions are adequate to accommodate the proposal.
- 9. The proposal will not create a potential pollution hazard.
- 10. The proposal will not degrade the water quality of the County.
- 11. The proposal will not have a negative impact upon natural resource areas such as bluffs, wetlands, water bodies, agricultural land, woodlands, and aggregate resource deposits.
- 12. The proposal will not negatively affect the protection of the public health, safety, and general welfare.

WHEREAS, On September 26, 2017 at their regularly scheduled meeting, the Le Sueur County Board of Commissioners APPROVED/DENIED the Rezone application as requested by SCOTT HASS, CLEVELAND, MN, (APPLICANT); JAMES LOSINSKI, CLEVELAND, MN.

**NOW, THEREFORE, IT IS HEREBY RESOLVED**, the following Findings of Fact were adopted at the September 26, 2017 Le Sueur County Board meeting in order to protect the public health, safety and general welfare of the citizens of Le Sueur County.

- 1. The proposal reflects and is consistent with the goals and polices of the Le Sueur County Land Use Plan.
- The proposal is compatible with the overall character of existing development in the immediate vicinity of the affected property. Consideration shall be made if there are similar land uses nearby or if the proposed use would be isolated.
- 3. The proposal will not have an adverse effect on the value of adjacent properties.
- 4. The proposal will not be injurious to the use and enjoyment of other property in the immediate vicinity for the uses already permitted.
- 5. The proposal will not impede the normal and orderly development of surrounding vacant property for predominant uses in the area.
- 6. The density of the proposal is not greater than the density of the surrounding neighborhood or density indicated by the applicable Zoning District.
- 7. Adequate utilities, access roads, drainage, and other necessary infrastructure are being provided.
- 8. Soil conditions are adequate to accommodate the proposal.
- 9. The proposal will not create a potential pollution hazard.
- 10. The proposal will not degrade the water quality of the County.
- 11. The proposal will not have a negative impact upon natural resource areas such as bluffs, wetlands, water bodies, agricultural land, woodlands, and aggregate resource deposits.
- 12. The proposal will not negatively affect the protection of the public health, safety, and general welfare.

**BE IT FURTHER RESOLVED,** by the Le Sueur County Board of Commissioners that based on the above Findings of Fact, the rezoning of approximately 4.61 acres from a Recreational Residential "RR" District, to a Recreational Commercial "RC" District on a Recreational Development "RD" lake, Lake

Jefferson. Property is located in the SE 1/4, Section 31, Cordova Township, is APPROVED/DENIED.
ATTEST:
Steve Rohlfing, Chairman, Le Sueur County Board of Commissioners.
Darrell Pettis, Le Sueur County Administrator
DATE:



# Le Sueur County, MN

**Tuesday, September 26, 2017 Board Meeting** 

Item 3

9:15 a.m. Human Resources (5 min)

**Staff Contact:** 



88 SOUTH PARK AVENUE • LE CENTER, MINNESOTA 56057 Telephone: 507-357-8517 • Fax: 507-357-8607 Cindy Westerhouse – Human Resources Director

### HUMAN RESOURCES AGENDA ITEMS September 26, 2017

Presentation of retirement plaque to Mark Pittman, full time Highway Maintenance Worker in the Highway Department.

Recommendation to accept the retirement request from Rose Tousley, full time Community Service Aide in Human Services, effective December 29, 2017.

Recommendation to post and request the merit list for a full time Community Service Aide in Human Services, as a Grade 4, Step 1 at \$15.97 per hour.

Recommendation to grant regular status to Talia Gilster, full time Agency Social Worker in Human Services, effective September 21, 2017.

Recommendation to approve and sign the Memorandum of Agreement with Le Sueur County and the International Union of Operating Engineers, Local 49 Highway Department Unit revising Article 19, Severance, to amend the dollar maximums set forth in the schedule listed below.

10-19 years of service	100% up to \$10,000.00
20-29 years of service	100% up to \$15,000.00
30 and above years of service	100% up to \$20,000.00

Equal Opportunity Employer



# Le Sueur County, MN

**Tuesday, September 26, 2017 Board Meeting** 

Item 4

9:20 a.m. Set 2018 Preliminary Levy (10 min)

**Staff Contact:** 

## 2018 PROPOSED LEVY

<u>FUND</u>	<b>TAXES</b>	<b>PROGRAM AI</b>	<u>D                                    </u>
Revenue	9,583,417	565,361	9,018,056
Road & Bridge	3,050,590	565,360	2,485,230
SS & PA	2,552,256		2,552,256
PA & GA	1,022,173		1,022,173
Fair	35,000		35,000
Building	428,601		428,601
Extension Services	205,531		205,531
Park	241,772		241,772
Bonded Indebtedness	3,107,169		3,107,169
Victim Witness	18,420		18,420
Env Services – P & Z	188,747		188,747
Env Services – Water Plan	24,928		24,928
Env Services – ISTS	51,490		51,490
TOTAL	20,510,094	1,130,721	19,379,373

2018 PROPOSED LEVY \$ 19,379,373

2017 FINAL LEVY \$ 17,943,864

INCREASE IN LEVY \$ 1,435,509

INCREASE OF 8%

2018 Budgets -- Proposed

Department	Revenue	Expenditures	Levy \$ Needed
001 – Commissioners	17,610	-	279,004
011 – District Court	4,600		71,050
019 – Law Library **	15,000	·	13,000
020 - Drug Court	126,176		101,759
039 – Land Rec Dept	67,000	·	103,398
040 – Finance	23,500		96,390
041 – License Bureau	109,940		12,586
043 – Machine Room	7,300	·	146,850
044 – Auditor/Treasurer	15,000	·	508,443
045 – Assessor	6,200	·	565,999
046 – Gen Govt	1,067,058		-702,117
047 – Remonumentation	0	36,800	36,800
049 - Human Resources	0	207,160	207,160
060 – Data Processing	0	784,639	784,639
061 – Election	28,986		133,752
062 – County Administrator	5,000		262,546
090 – Co Attorney	0	783,029	783,029
091 – Co Attorney Cont	0	11,000	11,000
100 – Co Recorder	195,000	307,875	112,875
101- Rec Tech Fund **	62,000	106,000	44,000
110 – Maintenance	100,000	519,280	419,280
120 – Veterans Service	1,000	273,696	272,696
123 – HRA	0	9,500	9,500
124 – Public Health	1,876,194	2,283,609	407,415
126 – Sr Citizens/Transit	0	75,000	75,000
127 – Forfeit Tax	8,000	14,000	6,000
200 – Law Enforcement	193,420	1,974,858	1,781,438
201 – Crim Inv	0	366,660	366,660
202 – B & W	10,534	36,163	25,629
203 – Sheriff Cont #2	2,000	0	-2,000
204 – Sheriff Cont #1	0	2,000	2,000
205 – Coroner	0	62,000	62,000
208 – E911 County	2,000	11,174	9,174
209 – Tobacco Compl	2,400	0	-2,400
210 – Snowmobile Safety	3,932	3,517	-415
212 – E911 State	104,205	66,000	-38,205
214 – OHV/ATV	4,340	5,000	660
250 – Jail	34,000	2,016,790	1,982,790
251 – Probation	82,828	402,782	319,954
280 – Emergency Mgmnt	29,306	179,378	150,072
602- SWCD	280,791	490,999	210,208
603 – Ag Inspector	0	10,798	10,798
** use reserves			
TOTAL	4,485,320	14,125,737	9,640,417
	.,	2.,222,707	2,0 10,111

Department	Revenue	Expenditures	Levy \$ Needed
300 – R & B – Adm	21,485,896	681,339	-20,804,557
301 – R & B –Const	0	20,251,684	20,251,684
302 – R & B – Maint	0	3,137,048	3,137,048
303 – R & B – Shop	0	888,415	888,415
304 – R & B - Bonds	1,246,300	824,300	-422,000
TOTAL	22,732,196	25,782,786	3,050,590
043 – Machine Room	17,200	17,200	0
122 - Planning & Zoning(Levy)	117,500	306,247	188,747
426 – SCORE	117,300	115,761	100,747
427 – Score 427 – Solid Waste (Reserves)			7 120
· · · · · · · · · · · · · · · · · · ·	232,000	239,128	7,128
428 – Water Planning (Levy)	64,322	89,250	24,928
436 – Feedlot Grant	29,358	29,358	<u></u>
438 – ISTS(Levy)	21,100	72,590	51,490
440 – State Shoreland Grt	5,406	5,406	0
443 – Wastewater Bd 2006B	5,000	5,000	0
453-Aquatic Species Aid	149,767	149,767	0
454-FRST Lakes(Reserves)	0	158,471	158,471
455-Lake Volney Targeted	0	61,709	61,709
Restoration(Reserves) 456-West Jefferson Subordinate Service	4,000,000	4,200,000	200,000
District(Reserves)	4,000,000	4,200,000	200,000
457-Lower MN WRAPS(Reserves)	0	1,600	1,600
458-Buffer Enforcement	88,934	88,934	0
TOTAL	4,846,348	5,540,421	694,073
Fund 30 – B & I Dept 971 & 443	4,000	2,280,023	3,107,169
			(collected in 2018 for payment in 2019)
Fund 40 – Cap Imp	0	0	0 payment in 2019)
Fund 02 - Victim Witness	80,200	98,620	18,420
Fund 05 - Drug Task Force	43,000	22,762	-20,238
111- Building	0	1,010,000	Reserves 581,399 and levy of 428,601
129-German/Jefferson**	20,000	23,500	3,500
525 – Park	62,964	304,736	241,772
600 – County Fair	0	35,000	35,000
601 – Ext Services	3,775	209,306	205,531

# PROPOSED 2018 RECAP OF EXPENDITURES LE SUEUR COUNTY

			USE OF	
FUND	TAXES	OTHER REVENUES	FUND BALANCE	TOTAL
REVENUE	9,583,417	4,485,320	57,000	14,125,737
ROAD & BRIDGE	3,050,590	22,732,196		25,782,786
SS & PA	2,552,256	2,374,327		4,926,583
PA & GA	1,022,173	1,508,250		2,530,423
FAIR (600)	35,000			35,000
BUILDING (111)	428,601		581,399	1,010,000
EXT SERVICES (601)	205,531	3,775		209,306
PARK (525)	241,772	62,964		304,736
GERMAN/JEFFERSON(129)	0	20,000	3,500	23,500
BONDED INDEBT	3,107,169	4,000	-831,146	2,280,023
VICTIM WITNESS	18,420	80,200		98,620
ENVIRONMENTAL SERVICES	265,165	4,846,348	428,908	5,540,421
DRUG TASK FORCE	0	43,000	-20,238	22,762
TOTAL	20,510,094	36,160,380	219,423	56,889,897



# Le Sueur County, MN

**Tuesday, September 26, 2017 Board Meeting** 

## Item 5

9:30 a.m. Darrell Pettis, County Administrator / Engineer (10 min)

**RE: Lexington Avenue Street Assessments** 

RE: Draft Feasibility Studies for Le Sueur-Scott JD 4, CD 41 and CD 61

**RE:** German Jefferson Petition

**Staff Contact:** 

## NOTICE OF HEARING ON PROPOSED ASSESSMENT CITY OF LE CENTER, MN 2016 LEXINGTON AVENUE IMPROVEMENT PROJECT

Le Sueur County Jail Attn: Darrell Pettis 88 South Park Avenue Le Center, MN 56057

#### TO WHOM IT MAY CONCERN:

Notice is hereby given that the city council will meet at 6:00 pm on Tuesday, October 10, 2017 at city hall to consider, and possibly adopt the proposed assessment roll for the 2016 Lexington Avenue Improvement Project; including bituminous street, curb & gutter, water and sewer main, water & sewer laterals, storm sewer, sidewalks, trees, and related work projects on the following: Lexington Avenue between West Derrynane Street (Hwy 99) and Bowler Street. Adoption by the Council of the proposed assessment may occur at this hearing. The area to be assessed for such improvements includes the abutting and/or directly benefiting properties.

The amount to be specially assessed against your particular lot, piece, or parcel of land is approx. \$\frac{\$\lambda\_1, \text{a35.\lambda}}{20}\$. Such assessment is proposed to be payable in equal annual installments extending over a period of \$\frac{20}{20}\$ years, the first of the installments to be payable on or before the 1st Monday in January 2018, and will bear interest at the rate of \$\frac{3.0}{20}\$ percent per annum from the date of the adoption of the assessment resolution. To the first installment shall be added interest on the entire assessment from the date of the assessment resolution until Dec. 31, 2017. To each subsequent installment when due shall be added interest for one year on all unpaid installments.

You may at any time prior to certification of the assessment to the county auditor, pay the entire assessment on your property, with no interest accrued to the date of payment. No interest shall be charged if the entire assessment is paid within 30 days from the adoption of this assessment. You may at any time thereafter, pay to the county the entire amount of the assessment remaining unpaid, with interest accrued to December 31 of the year in which such payment is made. Such payment must be made before December 31 or interest will be charged thru December 31 of the succeeding year. If you decide not to prepay the assessment before the date given above, the rate of interest that will apply is 3.0 percent per year. The right to partially prepay the assessment according to Ordinance No. 34-86 is allowed in minimum \$100 increments prior to certification.

The proposed assessment roll is on file for public inspection at the city clerk's office. The total city cost of the project is \$1,827,532.70 (76.3%). The total amount of the proposed assessment is \$568,027.45 (23.7%) for property owners for re-construction, plus the 3% interest. Written or oral objections will be considered at the meeting. No contested appeal may be taken as to the amount of an assessment unless a signed, written objection is filed with the city clerk prior to the hearing or presented to the Mayor at the hearing. The council may upon such notice consider any objection to the amount of a proposed individual assessment at an adjourned or continued hearing upon such further notice to the affected property owners as it deems advisable.

If an assessment is contested and/or there is an adjourned hearing, the following procedure will be followed:

- 1. The city will present its case first by calling witnesses who may testify by narrative or by examination, and by the introduction of exhibits. After each witness has testified, the contesting party will be allowed to ask questions. This procedure will be repeated with each witness until neither side has further questions.
- 2. After the city has presented all its evidence, the objector may call witnesses or present such testimony as the objector desires. The same procedure for questioning of the city's witnesses will be followed with the objector's witnesses.
- 3. The objector may be represented by counsel.
- 4. Minnesota rules of evidence will not be strictly applied; however, they may be considered and argued to the council as to the weight of items of evidence or testimony presented to the council.
- 5. The entire proceedings will be tape-recorded.
- 6. At the close of presentation of evidence, the objector may make a final presentation to the council based on the evidence and the law. No new evidence may be presented at this point.
- 7. The council may adopt the proposed assessment at the hearing.

An owner may appeal an assessment to district court pursuant to Minnesota Statutes Section 429.081 by serving notice of the appeal upon the mayor or city clerk within 30 days after the adoption of the assessment and filing such notice with the district court within ten days after service upon the mayor or city clerk.

Under city ordinance sec. 34-84, the Council may defer the payment of assessments for five years on homestead property owned by a person age 65 or older whose annual income is at or less than the state prescribed poverty level. Application for deferment shall be made within 30 days after the adoption of the assessment roll by the council upon a form provided by the county assessor, and shall be renewed each following year by September 30<sup>th</sup> on the same form. The sale, transfer, or subdividing of any property under deferment shall cause the assessment plus interest to become due in full upon such occurrence.

/S/ Christopher L. Collins
Administrator, City of Le Center

## NOTICE OF HEARING ON PROPOSED ASSESSMENT CITY OF LE CENTER, MN 2016 LEXINGTON AVENUE IMPROVEMENT PROJECT

Le Sueur County Court House Attn: Darrell Pettis 88 South Park Avenue Le Center, MN 56057

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The amount to be specially assessed against your particular lot, piece, or parcel of land is approx. \$38,387.99. Such assessment is proposed to be payable in equal annual installments extending over a period of 20 years, the first of the installments to be payable on or before the 1<sup>st</sup> Monday in January 2018, and will bear interest at the rate of 3.0 percent per annum from the date of the adoption of the assessment resolution. To the first installment shall be added interest on the entire assessment from the date of the assessment resolution until Dec. 31, 2017. To each subsequent installment when due shall be added interest for one year on all unpaid installments.

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/S/ Christopher L. Collins
Administrator, City of Le Center

## NOTICE OF HEARING ON PROPOSED ASSESSMENT CITY OF LE CENTER, MN 2016 LEXINGTON AVENUE IMPROVEMENT PROJECT

Le Sueur County Court Parking Lot Attn: Darrell Pettis 88 South Park Avenue Le Center, MN 56057

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The amount to be specially assessed against your particular lot, piece, or parcel of land is approx. \$\frac{3}{505.06}\$. Such assessment is proposed to be payable in equal annual installments extending over a period of \$\frac{20}{20}\$ years, the first of the installments to be payable on or before the 1st Monday in January 2018, and will bear interest at the rate of \$\frac{3.0}{20}\$ percent per annum from the date of the adoption of the assessment resolution. To the first installment shall be added interest on the entire assessment from the date of the assessment resolution until Dec. 31, 2017. To each subsequent installment when due shall be added interest for one year on all unpaid installments.

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/S/ Christopher L. Collins
Administrator, City of Le Center

# **FEASIBILITY STUDY FOR:**

COUNTY DITCH 41: LE SUEUR COUNTY, MINNESOTA

REPORT FOR: Le Sueur County Drainage Authority 181 W. Minnesota St. Le Center, MN 56057 507.357.4879 FROM: Chuck Brandel, PE Principal + Senior Civil Engineer ISG 115 E. Hickory Street, Suite 300 Mankato, MN 56001 507.387.6651 chuck.brandel@is-grp.com



ARCHITECTURE + ENGINEERING + ENVIRONMENTAL + PLANNING



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Proposed Conditions	2
Multi-Purpose Drainage Management	3
Cost/Separable Maintenance	3
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#### Project Scope

At your request, I+S Group (ISG) completed a preliminary review of Le Sueur County Ditch No. 41 (CD 41). The scope included an examination of the existing CD 41, as well as recommendations for repairing and improving the existing open ditch and tile system. Maps of the CD 41 watershed and existing public open ditch and tile system is shown on the attached exhibits and is referenced herein.

It should be noted that some general assumptions were made during this analysis and minimal survey information was gathered. ISG received the original watershed map showing the tile locations and sizes from Le Sueur County for the CD 41 system. Additional information may or may not modify our findings, but it is not anticipated that a significant change to our recommendation would result. If you or any land owners have tile maps or any other information that can aid us in future work, please feel free to share this information with us. A future survey will be necessary to verify these assumptions.

#### Watershed

Le Sueur County Ditch No. 41 watershed lies in Sharon and Lexington Townships of Le Sueur County, Minnesota. The CD 41 main tile drains from the center of the NE  $\frac{1}{4}$  of Section 31 of Lexington Township to the NW into the main open ditch in the NE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 25 of Sharon Township. The main open ditch drains from the main tile outlet to the NW into Le Sueur Creek in the SE  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of Section 25 of Sharon Township.

The CD 41 watershed consists primarily of gently rolling agricultural land which provides drainage to approximately 461 total acres. The watershed includes land from Sections 25 and 36 of Sharon Township as well as Sections 30 and 31 of Lexington Township. Elevations within the entire watershed rage from approximately 992 to 1023 Mean Sea Level (MSL) according to county LIDAR data.

The hydrologic soil classification for the land in the CD 41 watershed is predominantly type "C/D," which is considered as a dual hydrological soil group. This means that this soil has the potential to be adequately drained. The "D" in this group corresponds to the soil having over 40 percent clay and restricted water movement. The "B" is named the drained condition. That means if adequately drained, the soil would have moderately high runoff potential when thoroughly wet.

#### History

Le Sueur County Ditch No. 41 was originally constructed in 1915 with an improvement in 1952. The original construction consisted of approximately 3,775 feet of open ditch as well as approximately 3,960 feet of buried tile. There is no record of the open ditch being cleaned since the original construction.

## **Existing Conditions**

The open ditch channel contains a typical trapezoidal channel designed to convey both surface and subsurface tile water throughout the watershed. Based on the original plan maps, the open ditch slopes range from 0.05% to 0.50%. In most areas, existing tile outlets from both public branches and private tiles outlet near the bottom of the ditch. During rain events, the open ditch fills with water, covering the tile outlets and creates forced outlets. In some cases during larger rain events, the water depth in the channel is high enough to restrict the flow of the tiles and cause water to back up into the adjacent fields.

#### **Drainage Capacity**

The information in this document has been prepared with the original CD 41 alignment map. A close representation of the CD 41 watershed was created using this information in conjunction with LiDAR contours, Minnesota DNR Watershed lines, aerial photographs and USGS Stream-Stats.

The capacity of agricultural tile is expressed as a drainage coefficient, in inches per day (in/day), and is defined as the depth of water over the entire area of the upstream watershed that a tile can drain in a 24-hour period. For a system like CD 41, the Natural Resources Conservation Service (NRCS)

Le Sueur County Ditch No. 41 Feasibility Study



recommends a drainage coefficient of 0.50 to 0.75 in/day for buried tile and 1.0 in/day for open ditches. See Table 1 below for open ditch summary and Table 2 below for the existing tile inventory breakdown.

Table 1: Existing Open Ditch Drainage Capacities

Crossing #	Location	Existing Type	Existing Material	Existing Size (in)	Existing Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)
1	Main - TWP 71	ROUND CULVERT	СМР	48	0.05%	434	0.92
2	Main - Field Crossing	ROUND CULVERT	СМР	36	0.05%	52	3.58

Table 2: Existing Tile Drainage Capacity

Area	Existing Size (in)	Existing Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)
	14	0.10%	304.5	0.13
	12	0.10%	287.2	0.09
Main	10	0.10%	252.0	0.07
	8	0.90%	192.2	0.14
	8	0.20%	191.4	0.07

One of the two existing crossings of CD 41 is above the NRCS recommended drainage coefficient value and the other crossing is slightly below while all of the existing mainline tile is below the NRCS recommended drainage coefficient.

#### **Proposed Conditions**

It is recommended that eventually the entire system should be repaired or improved. The repaired tile would be installed following the existing tile alignments matching the existing tile slopes and elevations. Options to improve the existing system were considered along with the costs for repairing the system. All improvement options are sized to achieve at least a drainage coefficient of 0.50 in/day for underground tiles.

#### Repair Option 1

It is proposed in repair option 1 to clean the mainline open ditch as well as repair the main tile from the outlet upstream. The repair would consist of cleaning 3,800 linear feet of 4-foot bottom open ditch as well as installing 800 feet of 15-inch tile, 800 feet of 12-inch tile, 600 feet of 10-inch tile and 1,750 feet of 10-inch tile.

#### Improvement Option 1

It is proposed in improvement option 1 clean the entire mainline open ditch as well as improve the culvert crossings and main buried tile to achieve at least the NRCS recommended drainage coefficients. The improvement would consist of cleaning 3,800 feet of 4-foot bottom open ditch as well as installing 2,200 feet of 24-inch tile and 1,750 feet of 18-inch tile.

These options are summarized on *the Improvement Maps* attached with this report. The repair option and improvement option described above are a sample size of what can be done to repair or improve this system. Any and all branches can be added or removed as another option to best suit the landowners involved.

Le Sueur County Ditch No. 41 Feasibility Study



#### Multi-Purpose Drainage Management

Multi-purpose drainage management incorporates Best Management Practices (BMPs) which utilize effective measures aimed at reducing sediment and nutrient loading, and improving water quality. These BMPs are divided into three areas: preventative measures, control measures, and treatment measures. Preventative measures that can be applied throughout the watershed include crop rotation, cover crops, residue management, and nutrient management. These measures are aimed at controlling sediment, minimizing erosion and nutrient loss, and sustaining the soils health, all without dramatically changing the current land use of the landscape.

Control measures are practices aimed at improving water quality directly associated with the flow of water by reducing peak flows, providing in stream storage, sedimentation, and nutrient uptake. Examples of control measures include alternative intake structures, grassed waterways, two stage ditches, water control structures, and controlled subsurface drainage. These practices are directly linked to the conveyance of subsurface tile water or open channel ditch flow.

The function of treatment measures is to improve water quality by directly removing sediment and nutrients from the subsurface or surface water flow throughout a watershed. Examples of treatment measures include surge basins (storage ponds), filter/buffer strips, wetland restorations, woodchip bioreactors, and water and sediment control basins (WASCOBs). These practices may be incorporated to either the public or private drainage systems.

Conservative drainage practices, such as controlled drainage systems, provide an option for improving the water quality and reduce peak flow rates within a drainage system. Through utilization of control structures, these systems are designed to allow agricultural producers to regulate water levels in their fields. The water level in the ground can be lowered during planting and harvest seasons and allowed to rise during the growing season. Water and nutrients stored in the soil during the growing season can then be used by the crops during drier periods, potentially increasing yields.

#### Cost/Separable Maintenance

When a separable portion of a larger system is in need of repair, the drainage statute, M.S.103E.215, subd. 6, allows the separation of the cost of repair from the cost of improvement of the project. The condition of the existing system should be investigated further to discern the eligibility for separable maintenance costs. If it is determined that the system is in disrepair, separable maintenance costs can be applied to the project including the difference in costs associated between pipe/ditch replacement and pipe/ditch improvement. Separable maintenance for this system includes standard open ditch cleaning, rip rap outlet protection on all tile outlets, seeding (buffer and sideslopes), and standard tile installation.

A cost estimate was prepared for the above outline options for improvement to the system, as summarized in Table 3. The cost estimate summary includes the separable maintenance, improvement cost, and net benefit for each option.

Table 3: Cost Estimate Summary

Area	Separable Improvement Maintenance Cost				ı	let Cost
Main Open Ditch	\$	34,116	\$	34,713	\$	597
Main Tile	\$	107,085	\$	168,008	\$	60,923
Subtotal without Road Crossings	\$	141,201	\$	202,721	\$	61,520
Road Authority Cost	\$	21,134	\$	21,134	\$	-
Damages Paid To Road Authority	\$	5,074	\$	8,830	\$	3,756
Total	\$	125,141	\$	190,417	\$	65,276
		Subto	tal La	ndowner Costs	\$	199,247
				Net Costs	\$	74,106
	\$	2,772				
Pern	naner	nt Damages (Buf	fer S	trip Acqusition)	\$	19,549
	\$	221,568				

#### Recommendation

Currently, the existing tile system has a lower capacity than what is recommended by the NRCS. Upgrading the tile system would increase the capacity of the system to a drainage coefficient over 0.50 in/day for buried tile. The system is approximately 100-years old, which is the life expectancy for ditch systems like CD 41. These improvements would be a public benefit and contribute to the public welfare of this area.

This scenario assumes that the project is completed publically through Le Sueur County and utilizing Minnesota Statute 103E. If the project was completed privately, some of the administration costs could be saved, but would require 100% agreement with everyone in the watershed that is affected.

At this point we would recommend keeping the project as a public project as only 26% of the affected landowners would need to sign the petition to move forward. We would appreciate the opportunity to discuss this in greater detail and to potentially meet with a group of landowners to discuss. Please contact us with questions or comments.

Sincerely,

Chuck Brandel, PE

Civil Engineer/Principal

lls T. Bell

**Enclosures** 

## LE SUEUR COUNTY COUNTY DITCH No. 41



#### PROPOSED OPTION #1 IMPROVEMENT COST SUMMARY

Area	Separable Maintenance		Improvement Cost			Net Cost
Main Open Ditch	\$	34,116	\$	34,713	\$	597
Main Tile	\$	107,085	\$	168,008	\$	60,923
Subtotal without Road Crossings	\$	141,201	\$	202,721	\$	61,520
Road Authority Cost	\$	21,134	\$	21,134	\$	-
Damages Paid To Road Authority	\$	5,074	\$	8,830	\$	3,756
Total	\$	125,141	\$	190,417	\$	65,276
		Subto	tal	Landowner Costs	\$	199,247
				Net Costs	\$	74,106
	of Benefits Costs	\$	2,772			
Perr	man	ent Damages (Bu	ffer	Strip Acqusition)	\$	19,549
	ts 1	for Landowners	\$	221,568		



## SEPARABLE MAINTANENCE (REPAIR)

Main Open Ditch

main Open Ditch								
Item No.	ltem	Unit Quantity Unit Price					Amount	
101	MOBILIZATION	LS	1	\$	920.00	\$	920	
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	3,800	\$	2.50	\$	9,500	
103	15-INCH TILE OUTLET	EA	1	\$	752.00	\$	752	
	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)							
104	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	1.44	\$	1,165	\$	1,677	
105	SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH BFM)	AC	1.75	\$	3,353	\$	5,852	
106	BUFFER STRIP MOWING	AC	1.44	\$	85	\$	122	
107	WEED SPRAYING	AC	3.18	\$	150	\$	478	
					Total	\$	19,301	
			•	10% l	Jnforeseen	\$	1,930	
					Subtotal	\$	21,231	
	TEMPORARY DAMAGES	AC	2.9	\$	650	\$	1,885 1,500	
County Administration Costs								
Topographic Survey								
Reports, Plans and Specifications							3,000	
			ction Staking				2,500	
		Total M	ain Open Dit	ch R	epair Cost	\$	34,116	

#### **Main Tile**

Item No.	Item	Unit Quantity Unit Price					Amount
101	MOBILIZATION	LS	1	\$	3,620.00	\$	3,620
102	TILE INVESTIGATION	HR	10	\$	106.50	\$	1,065
103	15-INCH AGRICULTURAL TILE	LF	800	\$	22.00	\$	17,600
104	12-INCH AGRICULTURAL TILE	LF	750	\$	18.00	\$	13,500
105	10-INCH AGRICULTURAL TILE	LF	550	\$	16.00	\$	8,800
106	8-INCH AGRICULTURAL TILE	LF	1750	\$	14.60	\$	25,550
107	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$	1,970.00	\$	1,970
108	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170
109	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	4	\$	400	\$	1,600
					Total	\$	75,900
			1	10%	Unforeseen	\$	7,590
					Subtotal	\$	83,490
	TEMPORARY DAMAGES	AC	7.3	\$	650	\$	4,745
County Administration Costs							
Topographic Survey							
			orts, Plans an				7,000
			tion Staking				6,680
			Total Main T	ile R	Repair Cost	\$	107,085

#### **TOTAL REPAIR COST**

Main Open Ditch \$	34,116
Main Tile \$	107,085
COMPLETE REPAIR COST \$	141,201



Main Open Ditch

Item No.   Unit   Quantity   Unit Price							Amount
101	MOBILIZATION	LS	1	\$	950.00	\$	950
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	3,800	\$	2.50	\$	9,500
103	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$	1,265.00	\$	1,265
104	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	1.44	\$	1,165	\$	1,677
105	SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH BFM)	AC	1.75	\$	3,353	\$	5,852
106	BUFFER STRIP MOWING	AC	1.44	\$	85	\$	122
107	WEED SPRAYING	AC	3.18	\$	150	\$	478
					Total	\$	19,844
			,	10%	Unforeseen	\$	1,984
					Subtotal	\$	21,828
	TEMPORARY DAMAGES	AC	2.9	\$	650		1,885
County Administration Costs							
Topographic Survey							
Reports, Plans and Specifications							
		Construc	tion Staking	& Ac	<b>I</b> ministration	\$	2,500
	Tota	I Main Op	en Ditch Imp	rove	ement Cost	\$	34,713

#### Main Tile

Wall the								
Item No.	Item	Unit Quantity Unit Price					Amount	
101	MOBILIZATION	LS	1	\$	5,810.00	\$	5,810	
102	TILE INVESTIGATION	HR 10 \$ 106.50					1,065	
103	24-INCH AGRICULTURAL TILE	LF	2100	\$	29.20	\$	61,320	
104	18-INCH AGRICULTURAL TILE	LF	1750	\$	24.60	\$	43,050	
106	INSTALL DROP INTAKE (18-INCH)	EA	4	\$	1,085	\$	4,340	
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	16	\$	400	\$	6,400	
					Total	\$	122,000	
			1	10%	Unforeseen	\$	12,200	
					Subtotal	\$	134,200	
	TEMPORARY DAMAGES	AC	13.3	\$	650	\$	8,645	
			County Adm	inistr	ation Costs	\$	2,684 3,691	
Topographic Survey								
Reports, Plans and Specifications							8,052	
			tion Staking				10,736	
		Total N	/lain Tile Imp	rove	ment Cost	\$	168,008	

#### TOTAL IMPROVEMENT COST

Main Open Ditch \$ 34,713	
Main Tile \$ 168,008	

COMPLETE IMPROVEMENT COST \$	202,721	
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## LE SUEUR COUNTY COUNTY DITCH No. 41 September 7, 2017



#### ROAD CROSSING SUMMARY

	Crossing	Road Authority	Repair Cost With Road	Repair Cost Without Road	Improvement Cost	Road Authority Cost (Difference of Repair Cost With Road and Repair Cost Without Road)	Damages Paid To Road Authority (Difference of Improvement Cost and Road Authority Cost)
				MAIN			
	Township 113	TOWNSHIP	\$ 6,974	\$ 2,592	\$ 7,690	\$ 4,382	\$ 3,308
	MN 112	STATE	\$ 19,234	\$ 2,482	\$ 22,274	\$ 16,752	\$ 5,522
	TOTAL		\$ 26,208	\$ 5,074	\$ 29,964	\$ 21,134	\$ 8,830
F	STATE ROAD AUTHORITY	TOTAL	\$ 19,234	\$ 2,482	\$ 22,274	\$ 16,752	\$ 5,522
	COUNTY ROAD AUTHORITY TOTAL		\$ -	\$ -	\$ -	\$ -	\$ -
	TOWNSHIP ROAD AUTHOR	IY TOTAL	\$ 6,974	\$ 2,592	\$ 7,690	\$ 4,382	\$ 3,308

## LE SUEUR COUNTY COUNTY DITCH No. 41 September 7, 2017



#### **ROAD CROSSINGS**

#### MAINLINE TILE REPAIR COST WITH ROAD - TOWNSHIP 113

Item No.	ltem	Unit	Quantity	Unit Price		Amount			
101	MOBILIZATION	LS	1	\$ 300.00	\$	300			
102	12-INCH AGRICULTURAL TILE	LF	50	\$ 18.00	\$	900			
103	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970			
104	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170			
TOTAL									
			10% C	ONTINGENCY	\$	534			
				SUBTOTAL	\$	5,874			
		Co	ounty Admin	istration Costs	\$	200			
		Reports	s, Plans and	Specifications	\$	400			
Construction Staking & Administration									
	ESTIMATED MAINLINE TILE REPAIR	R COST WITH	ROAD - TO	OWNSHIP 113	\$	6,974			

#### **MAINLINE TILE REPAIR WITHOUT ROAD - TOWNSHIP 113**

Item No.	ltem	Unit	Quantity	Unit Price		Amount			
201	MOBILIZATION	LS	1	\$ 100.00	\$	100			
202	12-INCH AGRICULTURAL TILE	LF	50	\$ 18.00	\$	900			
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 400.00	\$	800			
				TOTAL	\$	1,800			
10% CONTINGENCY									
				SUBTOTAL	\$	1,980			
		Co	ounty Admin	istration Costs	\$	100			
		Reports	, Plans and	Specifications	\$	200			
		Construction	n Staking &	Administration	\$	200			
TEMPORARY DAMAGES AC 0.17 \$ 650									
	ESTIMATED MAINLINE TILE REPA	AIR WITHOUT	ROAD - TO	OWNSHIP 113	\$	2,592			

#### **MAINLINE TILE IMPROVEMENT COST - TOWNSHIP 113**

Item No.	ltem	Unit	Quantity	Unit Price		Amount			
301	MOBILIZATION	LS	1	\$ 300.00	\$	300			
302	24-INCH AGRICULTURAL TILE	LF	50	\$ 29.20	\$	1,460			
303	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970			
304	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170			
TOTAL									
			10% C	ONTINGENCY	\$	590			
				SUBTOTAL	\$	6,490			
		C	ounty Admin	istration Costs	\$	200			
		Reports	s, Plans and	Specifications	\$	400			
Construction Staking & Administration									
	ESTIMATED MAINLINE TILE IN	IPROVEMEN <sup>*</sup>	T COST - TO	OWNSHIP 113	\$	7,690			



#### **ROAD CROSSINGS**

#### **MAINLINE TILE REPAIR COST WITH ROAD - MN 112**

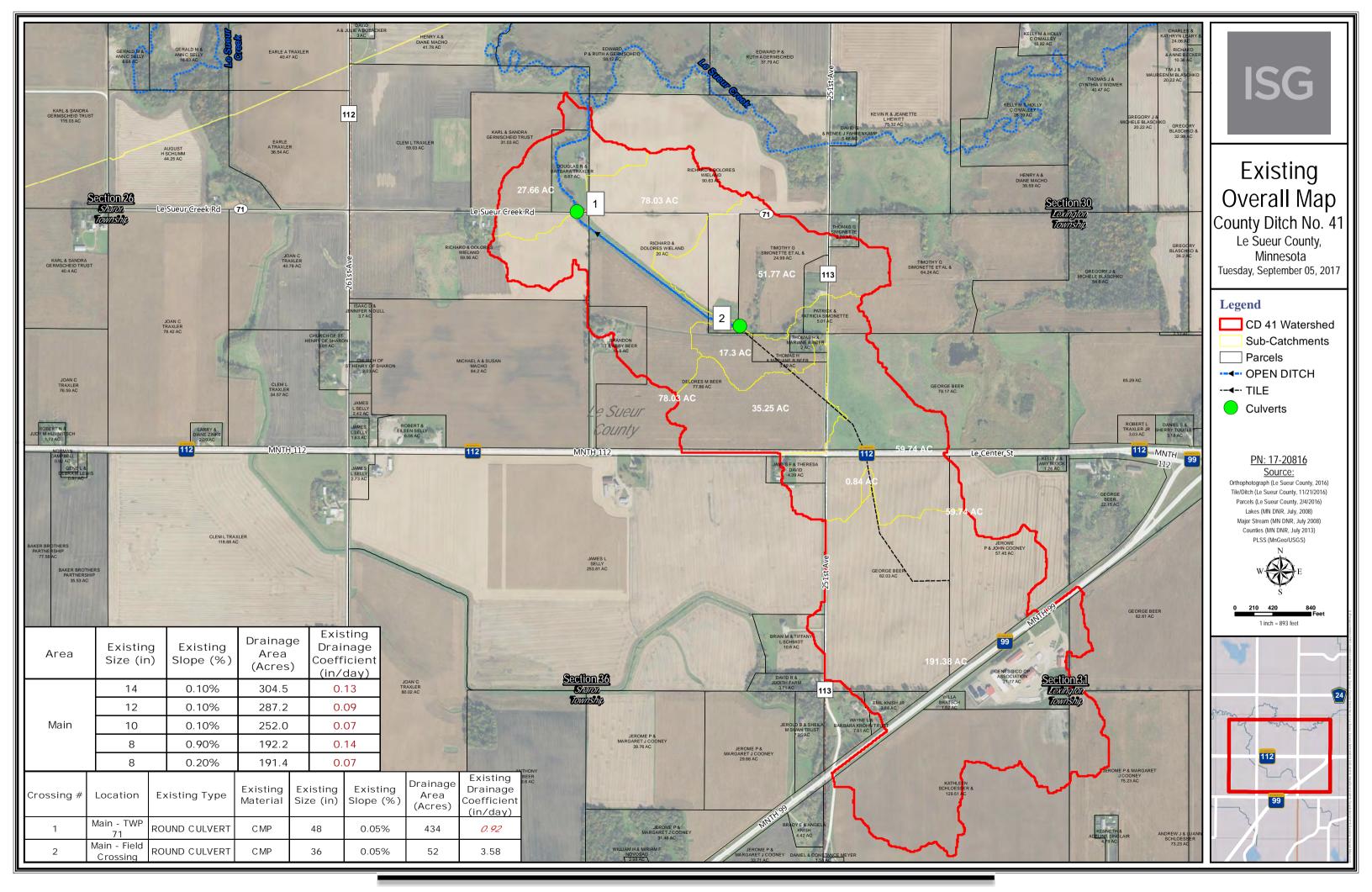
Item No.	Item	Unit	Quantity	Unit Price		Amount			
101	MOBILIZATION	LS	1	\$ 800.00	\$	800			
102	BORE 10-INCH TILE	LF	50	\$ 200.00	\$	10,000			
103	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970			
104	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170			
	TOTAL								
			10% C	ONTINGENCY	\$	1,494			
				SUBTOTAL	\$	16,434			
		С	ounty Admin	istration Costs	\$	400			
	Reports, Plans and Specifications								
Construction Staking & Administration									
	ESTIMATED MAINLINE TI	LE REPAIR CO	ST WITH R	OAD - MN 112	\$	19,234			

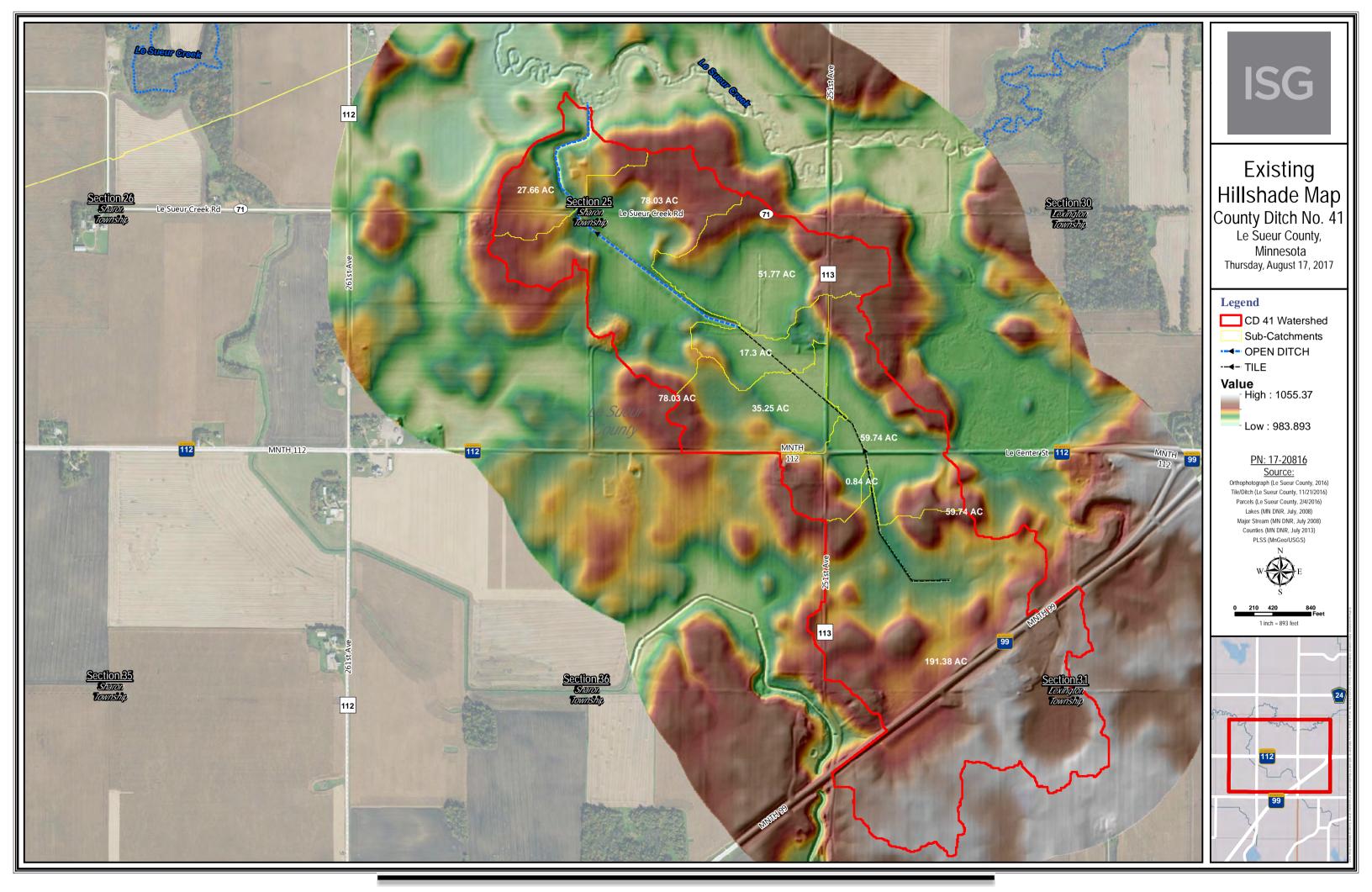
#### MAINLINE TILE REPAIR WITHOUT ROAD - MN 112

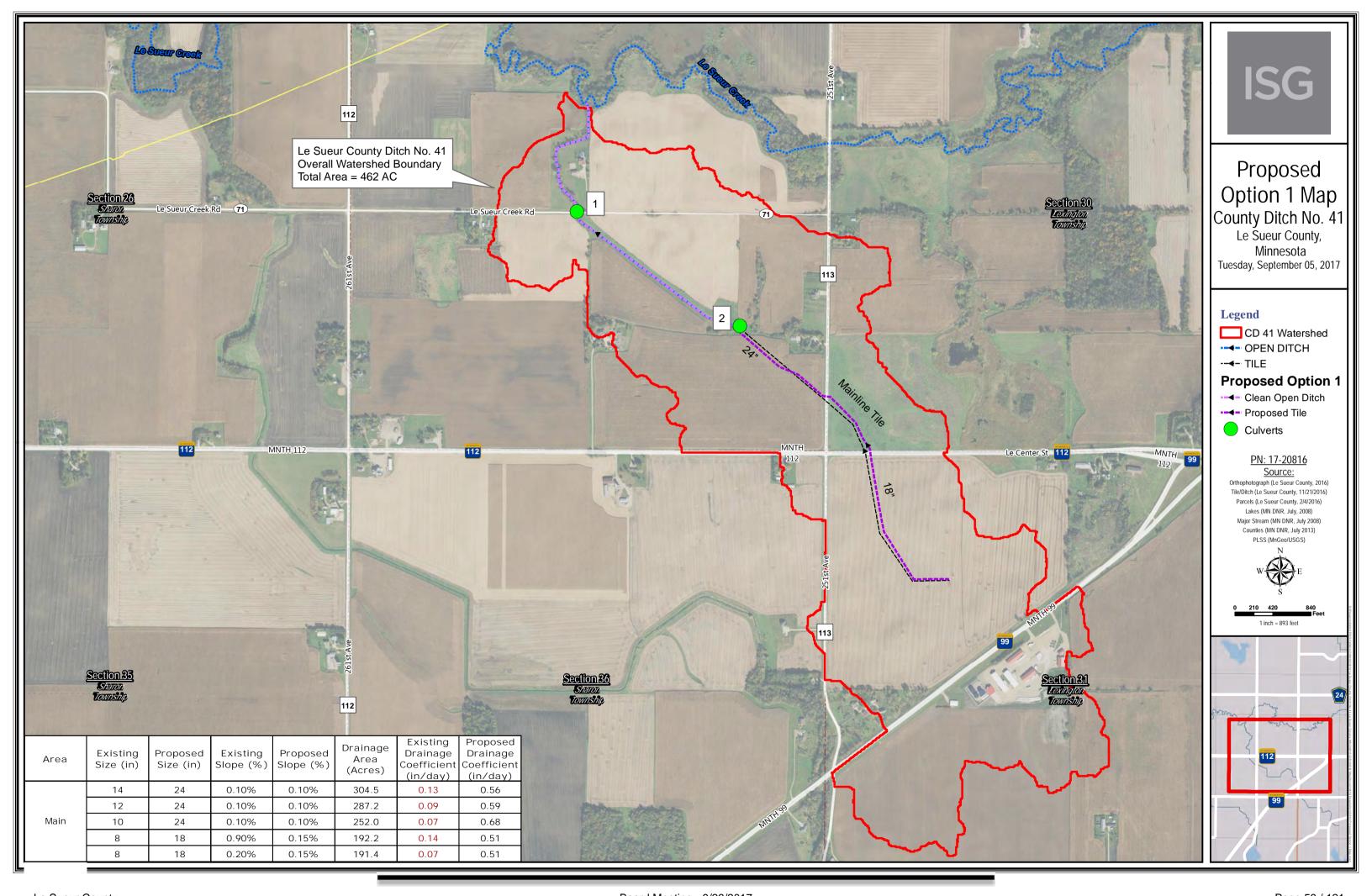
Item No.	ltem	Unit	Quantity	Uni	it Price		Amount		
201	MOBILIZATION	LS	1	\$	100.00	\$	100		
202	10-INCH AGRICULTURAL TILE	LF	50	\$	16.00	\$	800		
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400.00	\$	800		
	TOTAL								
10% CONTINGENCY									
				SUI	BTOTAL	\$	1,870		
		Co	ounty Admin	istrati	on Costs	\$	100		
		Reports	s, Plans and	Spec	ifications	\$	200		
		Constructio	n Staking &	Admir	nistration	\$	200		
TEMPORARY DAMAGES AC 0.17 \$ 650									
	ESTIMATED MAINLINE TIL	E REPAIR W	ITHOUT R	OAD -	- MN 112	\$	2,482		

#### **MAINLINE TILE IMPROVEMENT COST - MN 112**

Item No.	ltem	Unit	Quantity	Unit Price		Amount		
301	MOBILIZATION	LS	1	\$ 900.00	\$	900		
302	BORE 24-INCH TILE	LF	50	\$ 246.00	\$	12,300		
303	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970		
304	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170		
				TOTAL	\$	17,340		
			10% C	ONTINGENCY	\$	1,734		
				SUBTOTAL	\$	19,074		
		Co	ounty Admin	istration Costs	\$	400		
		Reports	s, Plans and	Specifications	\$	1,200		
	Construction Staking & Administration							
	ESTIMATED MAINLINE	TILE IMPRO	VEMENT C	OST - MN 112	\$	22,274		







# FEASIBILITY STUDY FOR:

COUNTY DITCH 61: LE SUEUR COUNTY, MINNESOTA

REPORT FOR: Le Sueur County Drainage Authority 181 W. Minnesota St. Le Center, MN 56057 507.357.4879 FROM: Chuck Brandel, PE Principal + Senior Civil Engineer ISG 115 E. Hickory Street, Suite 300 Mankato, MN 56001 507.387.6651 chuck.brandel@is-grp.com



ARCHITECTURE + ENGINEERING + ENVIRONMENTAL + PLANNING



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#### Project Scope

At your request, I+S Group (ISG) completed a preliminary review of Le Sueur County Ditch No. 61 (CD 61). The scope included an examination of the existing CD 61, as well as recommendations for repairing and improving the existing open ditch and tile. Maps of the CD 61 watershed and existing public open ditch and tile system is shown on the attached exhibits and is referenced herein.

It should be noted that some general assumptions were made during this analysis and minimal survey information was gathered. ISG received the original watershed map, showing the tile locations and sizes from Le Sueur County for the CD 61 system. Additional information may or may not modify our findings, but it is not anticipated that a significant change to our recommendation would result. If you or any land owners have tile maps or any other information that can aid us in future work, please feel free to share this information with us. A future survey will be necessary to verify these assumptions.

#### Watershed

Le Sueur County Ditch No. 61 open ditch lies in Cordova Township of Le Sueur County, Minnesota. The CD 61 mainline open ditch drains from the SE quarter of the NW quarter of Section 23 of Cordova Township and flows southwest where it outlets into County Ditch No. 64 open ditch in the SE quarter of the SE quarter of Section 22 of Cordova Township.

The CD 61 watershed consists primarily of gently rolling agricultural land which provides drainage to approximately 1,003 total acres. The watershed includes land from Sections 14, 15, 22, 23, and 26 of Cordova Township. Elevations within the entire watershed range from approximately 1018 to 1090 Mean Sea Level (MSL) according to county LIDAR data.

The hydrologic soil classification for the land in the CD 61 watershed is predominantly type "B/D," which is considered as a dual hydrological soil group. This means that this soil has the potential to be adequately drained. The "D" in this group corresponds to the soil having over 40 percent clay and restricted water movement. The "B" is named the drained condition. That means if adequately drained, the soil would have moderately low runoff potential when thoroughly wet.

#### History

Le Sueur County Ditch No. 61 was originally constructed in 1957. This consisted of the construction of the banks of approximately 4,555 feet along the mainline open ditch along the East side of County Road 128 as well as installing two culverts throughout this portion of the open ditch. The construction also consisted of installing five buried tile branches labeled as Branch 1, 2, 3, 4 and 4-A.

## **Existing Conditions**

The open ditch channel contains a typical trapezoidal channel designed to convey both surface and subsurface tile water throughout the watershed. Based on the historical data of the area, the open ditch slopes range from 0.03% to 0.19%. In most areas, existing tile outlets from both public branches and private tiles outlet near the bottom of the ditch. During rain events, the open ditch fills with water, covering the tile outlets and creates forced outlets. In some cases during larger rain events, the water depth in the channel is high enough to restrict the flow of the tiles and cause water to back up into the adjacent fields.



#### **Drainage Capacity**

The information in this document has been prepared with the original CD 61 alignment map. A close representation of the CD 61 watershed was created using this information in conjunction with LiDAR contours, Minnesota DNR Watershed lines, aerial photographs and USGS Stream-Stats.

The capacity of agricultural tile is expressed as a drainage coefficient, in inches per day (in/day), and is defined as the depth of water over the entire area of the upstream watershed that a tile can drain in a 24-hour period. For a system like CD 61, the Natural Resources Conservation Service (NRCS) recommends a drainage coefficient of 0.50 to 0.75 in/day for buried tile and 1.0 in/day for open ditches. See Table 1 below for open ditch summary and Table 2 below for the existing tile inventory breakdown.

Drainage Existing

Existing Existing Existing Drainage Crossing # Location Existing Type Area Slope **Material** Size (in) Coefficient (%) (Acres) (in/day) 440th St. ROUND CULVERT СМР 48 0.05% 809 0.49 2 440th St. ROUND CULVERT CMP 48 0.19% 856 0.91

Table 1: Existing Open Ditch Drainage Capacities

Table 2: Existing Tile Drainage Capacity

Area	Existing Size (in)	Existing Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)
	14	0.30%	283.5	0.25
Branch 1	12	0.30%	247.8	0.19
	12	1.84%	247.8	0.47
	10	0.30%	142.3	0.20
Branch 2	10	0.87%	78.5	0.62
	10	0.30%	77.8	0.37
Branch 3	10	0.15%	98.8	0.21
	14	0.20%	278.6	0.21
Branch 4	14	0.90%	254.3	0.48
	14	0.14%	252.4	0.19
Branch 4-A	14	0.30%	47.9	1.47

The majority of the existing crossings of CD 61 are below the NRCS recommended drainage coefficient values as well as the majority of the existing tiles.

## **Proposed Conditions**

It is recommended that eventually the entire system should be repaired or improved. The repaired tile would be installed following the existing tile alignments matching the existing tile slopes and elevations. Options to improve the existing system were considered along with the costs for repairing the system. All improvement options are sized to achieve at least a drainage coefficient of 0.50 in/day for underground tiles and 1.0 in/day for open ditch crossings.

#### Repair Option

It is proposed in the repair option to clean the mainline open ditch, as well as repair all open ditch culverts that are below the NRCS recommended drainage coefficient. The repair will consist of cleaning 4,555 feet of 4-foot bottom open ditch. As well as installing approximately 3,900 feet of 15-inch tile, 1,260 feet of 12-inch tie, and 2,270 feet of 10-inch tile.

Le Sueur County Ditch No. 61 Feasibility Study



#### Improvement Option

It is proposed in the improvement option to clean the Main open ditch as well as improve the mainline open ditch crossings that are below the NRCS recommended drainage coefficient. The improvement will consist of cleaning approximately 4,555 feet of 4-foot bottom open ditch. The improvement will consist of replacing; Crossing 1 (CR 128) with a 48" RCP round culvert, Crossing 2 (private driveway) with a 48" RCP round culvert. Improvement Option 1 will also consist of replacing all tile throughout the entire system, which will consist of installing approximately 440 feet of 24-inch tile, 3,070 feet of 18-inch tile, 2,040 feet of 15-inch tile, and 1,925 feet of 12-inch tile.

#### Multi-Purpose Drainage Management

Multi-purpose drainage management incorporates Best Management Practices (BMPs) which utilize effective measures aimed at reducing sediment and nutrient loading, and improving water quality. These BMPs are divided into three areas: preventative measures, control measures, and treatment measures. Preventative measures that can be applied throughout the watershed include crop rotation, cover crops, residue management, and nutrient management. These measures are aimed at controlling sediment, minimizing erosion and nutrient loss, and sustaining the soils health, all without dramatically changing the current land use of the landscape.

Control measures are practices aimed at improving water quality directly associated with the flow of water by reducing peak flows, providing in stream storage, sedimentation, and nutrient uptake. Examples of control measures include alternative intake structures, grassed waterways, two stage ditches, water control structures, and controlled subsurface drainage. These practices are directly linked to the conveyance of subsurface tile water or open channel ditch flow.

The function of treatment measures is to improve water quality by directly removing sediment and nutrients from the subsurface or surface water flow throughout a watershed. Examples of treatment measures include surge basins (storage ponds), filter/buffer strips, wetland restorations, woodchip bioreactors, and water and sediment control basins (WASCOBs). These practices may be incorporated to either the public or private drainage systems.

Conservative drainage practices, such as controlled drainage systems, provide an option for improving the water quality and reduce peak flow rates within a drainage system. Through utilization of control structures, these systems are designed to allow agricultural producers to regulate water levels in their fields. The water level in the ground can be lowered during planting and harvest seasons and allowed to rise during the growing season. Water and nutrients stored in the soil during the growing season can then be used by the crops during drier periods, potentially increasing yields.

## Cost/Separable Maintenance

When a separable portion of a larger system is in need of repair, the drainage statute, M.S.103E.215, subd. 6, allows the separation of the cost of repair from the cost of improvement of the project. The condition of the existing system should be investigated further to discern the eligibility for separable maintenance costs. If it is determined that the system is in disrepair, separable maintenance costs can be applied to the project including the difference in costs associated between pipe/ditch replacement and pipe/ditch improvement. Separable maintenance for this system includes standard open ditch cleaning, rip rap outlet protection on all tile outlets, seeding (buffer and sideslopes), and standard tile installation.

A cost estimate was prepared for the above outline options for improvement to the system, as summarized in Table 3. The cost estimate summary includes the separable maintenance, improvement cost, and net benefit for each option.



Table 3: Cost Estimate Summary

#### PROPOSED OPTION #1 IMPROVEMENT COST SUMMARY

Area		Separable Maintenance	Imp	rovement Cost	ļ	Net Cost
Main Open Ditch	\$	43,867	\$	51,907	\$	8,040
Branch 1 Tile	\$	68,754	\$	72,540	\$	3,786
Branch 2 Tile	\$	34,669	\$	38,719	\$	4,050
Branch 3 Tile	\$	32,777	\$	40,352	\$	7,575
Branch 4 Tile	\$	95,524	\$	112,245	\$	16,721
Branch 4-A Tile	\$	16,129	\$	16,129	\$	-
Main Crossing # 1 ( 440th St. Crossing)	\$	34,421	\$	34,421	\$	-
Main Crossing # 2 (Driveway Crossing)	\$	31,940	\$	31,940	\$	-
Subtotal without Road Crossings	\$	358,081	\$	398,253	\$	40,172
Road Authority Cost	\$	31,985	\$	31,985	\$	-
Damages Paid To Road Authority	\$	6,602	\$	6,800	\$	198
Total	\$	396,668	\$	437,038	\$	40,370
		Sul	ototal	Landowner Costs	\$	405,053
				Net Costs	\$	40,370
	\$	6,018				
	Per	manent Damages (I	Buffer	Strip Acqusition)	\$	22,750
		Total Project Co	sts f	or Landowners	\$	433,821

#### Recommendation

Currently, the existing tile system has a lower capacity than what is recommended by the NRCS. Upgrading the tile system would increase the capacity of the system to a drainage coefficient over 0.50 in/day for buried tile and 1.0 in/day for open ditch crossings. The system is approximately 60-years old, which is slightly less than the life expectancy for ditch systems like CD 61. These improvements would be a public benefit and contribute to the public welfare of this area.

This scenario assumes that the project is completed publically through Le Sueur County and utilizing Minnesota Statute 103E. If the project was completed privately, some of the administration costs could be saved, but would require 100% agreement with everyone in the watershed that is affected.

At this point we would recommend keeping the project as a public project as only 26% of the affected landowners would need to sign the petition to move forward. We would appreciate the opportunity to discuss this in greater detail and to potentially meet with a group of landowners to discuss. Please contact us with questions or comments.

Sincerely,

Chuck Brandel, PE

Civil Engineer/Principal

ls T. Bell

Enclosures

# Le Sueur COUNTY COUNTY DITCH No. 61



#### PROPOSED OPTION #1 IMPROVEMENT COST SUMMARY

Area		Separable Maintenance	lm	provement Cost		Net Cost
Main Open Ditch	\$	43,867	\$	51,907	\$	8,040
Branch 1 Tile	\$	68,754	\$	72,540	\$	3,786
Branch 2 Tile	\$	34,669	\$	38,719	\$	4,050
Branch 3 Tile	\$	32,777	\$	40,352	\$	7,575
Branch 4 Tile	\$	95,524	\$	112,245	\$	16,721
Branch 4-A Tile	\$	16,129	\$	16,129	\$	-
Main Crossing # 1 ( 440th St. Crossing)	\$	34,421	\$	34,421	\$	-
Main Crossing # 2 (Driveway Crossing)	\$	31,940	\$	31,940	\$	-
Subtotal without Road Crossings	\$	358,081	\$	398,253	\$	40,172
Road Authority Cost	\$	31,985	\$	31,985	\$	-
Damages Paid To Road Authority	\$	6,602	\$	6,800	\$	198
Total	\$	396,668	\$	437,038	\$	40,370
		Subto	otal	Landowner Costs	\$	405,053
				Net Costs	\$	40,370
Redetermination of Benefits Costs						6,018
Pe	Permanent Damages (Buffer Strip Acqusition)					22,750
		<b>Total Project Cos</b>	sts	for Landowners	\$	433,821

# Le Sueur COUNTY COUNTY DITCH No. 61 September 6, 2017



# SEPARABLE MAINTANENCE (REPAIR)

## **Main Open Ditch**

Item No.	Item	Unit	Quantity	U	nit Price		Amount	
101	MOBILIZATION	LS	1	\$	1,370.00	\$	1,370	
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	4,555	\$	2.00	\$	9,110	
103	15-INCH TILE OUTLET	EA	2	\$	752.00	\$	1,504	
103	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	LA	2	Ψ	732.00	Э	1,504	
104	10-INCH TILE OUTLET	EA	2	\$	680.00	\$	1,360	
104	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	LA	2	Ψ	000.00	9	1,500	
105	16.5' BUFFER STRIP SEEDING	AC	3.50	\$	1,165	\$	4,078	
103	(SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	٨٥	3.30	Ψ	1,100		4,070	
106	SIDESLOPE SEEDING	AC	3.00	\$	3,353	\$	10,059	
	(SEED MIX: BUFFER BLEND WITH BFM)					•	,	
107	BUFFER STRIP MOWING	AC	3.50	\$	85	\$	298	
108	WEED SPRAYING	AC	6.50	\$	150	\$	975	
					Total	\$	28,753	
			,	10%	Unforeseen	\$	2,875	
					Subtotal	\$	31,628	
	TEMPORARY DAMAGES	AC	3.5	\$	650	\$	2,275	
County Administration Costs 5								
Topographic Survey								
Reports, Plans and Specifications S								
Construction Staking & Administration S								
		Total M	lain Open Dit	tch R	Repair Cost	\$	43,867	

#### **Branch 1 Tile**

Item No.	Item	Unit	Quantity	Unit Price		Amount		
101	MOBILIZATION	LS	1	\$ 2,340.00	\$	2,340		
102	TILE INVESTIGATION	HR	5	\$ 106.50	\$	533		
103	15-INCH AGRICULTURAL TILE	LF	790	\$ 21.00	\$	16,590		
104	12-INCH AGRICULTURAL TILE	LF	1261	\$ 18.00	\$	22,698		
105	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 1,085	\$	3,255		
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	9	\$ 400	\$	3,600		
	Total							
			1	10% Unforeseen	\$	4,910		
				Subtotal	\$	54,010		
	TEMPORARY DAMAGES	AC	7.1	\$ 650	\$	4,615		
			County Adm	inistration Costs	\$	1,081		
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
		Tota	al Branch 1 T	ile Repair Cost	\$	68,754		

# Le Sueur COUNTY COUNTY DITCH No. 61 September 6, 2017



## **SEPARABLE MAINTANENCE (REPAIR)**

#### **Branch 2 Tile**

Item No.	ltem	Unit	Quantity	U	Unit Price		Amount	
101	MOBILIZATION	LS	1	\$	1,170.00	\$	1,170	
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320	
103	10-INCH AGRICULTURAL TILE	LF	1172	\$	16.00	\$	18,752	
104	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170	
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	5	\$	400	\$	2,000	
	Total							
			1	ا %10	Jnforeseen	\$	2,450	
					Subtotal	\$	26,950	
	TEMPORARY DAMAGES	AC	4.1	\$	650	\$	2,665	
			County Adm	inistr	ation Costs	\$	539	
					ohic Survey		742	
	Reports, Plans and Specifications							
	Construction Staking & Administration							
		Tota	al Branch 2 T	ile R	epair Cost	\$	34,669	

#### **Branch 3 Tile**

Item No.	Item	Unit	Quantity	Ur	nit Price		Amount	
101	MOBILIZATION	LS	1	\$	1,110.00	\$	1,110	
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320	
103	10-INCH AGRICULTURAL TILE	LF	1097	\$	16.00	\$	17,552	
104	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170	
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	5	\$	400	\$	2,000	
	Total							
			1	ا %10	Jnforeseen	\$	2,320	
					Subtotal	\$	25,520	
	TEMPORARY DAMAGES	AC	3.8	\$	650	\$	2,470	
			County Adm	inistra	ation Costs	\$	511	
	Topographic Survey							
Reports, Plans and Specifications							1,532	
Construction Staking & Administration							2,042	
		Tota	al Branch 3 T	ile R	epair Cost	\$	32,777	

# Le Sueur COUNTY COUNTY DITCH No. 61 September 6, 2017



## **SEPARABLE MAINTANENCE (REPAIR)**

#### **Branch 4 Tile**

Item No.	Item	Unit	Quantity	U	Init Price		Amount	
101	MOBILIZATION	LS	1	\$	3,270.00	\$	3,270	
102	TILE INVESTIGATION	HR	6	\$	106.50	\$	639	
103	15-INCH AGRICULTURAL TILE	LF	2680	\$	21.00	\$	56,280	
104	CONNECT EXISTING 15-INCH TILE	EA	1	\$	644.50	\$	645	
105	INSTALL DROP INTAKE (18-INCH)	EA	3	\$	1,085	\$	3,255	
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$	400	\$	4,400	
Total								
			1	0%	Unforeseen	\$	6,850	
					Subtotal	\$	75,350	
	TEMPORARY DAMAGES	AC	9.3	\$	650	\$	6,045	
			County Adm	inistı	ration Costs	\$	1,507	
	Topographic Survey							
Reports, Plans and Specifications							4,521	
Construction Staking & Administration							6,028	
		Tota	al Branch 4 T	ile F	Repair Cost	\$	95,524	

## **Branch 4-A Tile**

Item No.	Item	Unit	Quantity	Ui	nit Price		Amount		
101	MOBILIZATION	LS	1	\$	560.00	\$	560		
102	TILE INVESTIGATION	HR	1	\$	106.50	\$	107		
103	15-INCH AGRICULTURAL TILE	LF	430	\$	21.00	\$	9,030		
104	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085		
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400	\$	800		
	Total								
			1	ا %0	Jnforeseen	\$	1,160		
					Subtotal	\$	12,760		
	TEMPORARY DAMAGES	AC	1.5	\$	650	\$	975		
			County Adm	inistra	ation Costs	\$	256		
	Topographic Survey								
Reports, Plans and Specifications							766		
Construction Staking & Administration							1,021		
		Total	Branch 4-A T	ile R	epair Cost	\$	16,129		



## **SEPARABLE MAINTANENCE (REPAIR)**

Main Crossing # 1 (440th St. Crossing)

Item No.	Item	Unit	Quantity	Unit Price		Amount		
101	MOBILIZATION	LS	1	\$ 1,250.00	\$	1,250		
102	REMOVE CMP CULVERT	LS	1	\$ 765.75	\$	766		
103	48-INCH CLASS III RCP PIPE	LF	74	\$ 128.00	\$	9,472		
104	48-INCH RCP APRON	EA	2	\$ 2,000.00	\$	4,000		
105	RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$ 62.00	\$	6,200		
106	MnDOT CATEGORY 4 EROSION CONTROL BLANKET	SY	150	\$ 2.80	\$	420		
107	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970		
108	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170		
				Total	\$	26,300		
			1	10% Unforeseen	\$	2,630		
				Subtotal	\$	28,930		
	TEMPORARY DAMAGES	AC	0.1	\$ 650	\$	65		
			County Adm	inistration Costs	\$	579		
			Top	ographic Survey	\$	796		
	Reports, Plans and Specifications							
				& Administration		2,315		
	Total Main Crossing	j # 1 ( 440t	h St. Crossir	ng) Repair Cost	\$	34,421		

Main Crossing # 2 (Driveway Crossing)

Main Crossing # 2 (Driveway Crossing)									
Item No.	Item	Unit	Quantity	Unit Price		Amount			
101	MOBILIZATION	LS	1	\$ 1,170.00	\$	1,170			
102	REMOVE CMP CULVERT	LS	1	\$ 765.75	\$	766			
103	48-INCH CLASS III RCP PIPE	LF	60	\$ 128.00	\$	7,680			
104	48-INCH RCP APRON	EA	2	\$ 2,000.00	\$	4,000			
105	RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$ 62.00	\$	6,200			
106	MnDOT CATEGORY 4 EROSION CONTROL BLANKET	SY	150	\$ 2.80	\$	420			
107	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970			
108	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170			
				Total	\$	24,400			
			1	10% Unforeseen	\$	2,440			
				Subtotal	\$	26,840			
	TEMPORARY DAMAGES	AC	0.1	\$ 650	\$	65			
			County Adm	inistration Costs	\$	537			
Topographic Survey									
	Reports, Plans and Specifications								
	Construction Staking & Administration								
	Total Main Crossing	# 2 (Drive	eway Crossir	ng) Repair Cost	\$	31,940			

## **TOTAL REPAIR COST**

TOTAL KLI AIK OOOT	
Main Open Ditch \$	43,867.30
Branch 1 Tile \$	68,754.00
Branch 2 Tile \$	34,669.00
Branch 3 Tile \$	32,777.00
Branch 4 Tile \$	95,524.00
Branch 4-A Tile \$	16,129.00
Main Crossing # 1 ( 440th St. Crossing) \$	34,421.00
Main Crossing # 2 (Driveway Crossing) \$	31,940.00
COMPLETE REPAIR COST \$	358 081 30



# Main Open Ditch

Item No.	Item	Unit	Quantity	Unit Price		Amount	
101	MOBILIZATION	LS	1	\$ 1,650.00	\$	1,650	
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	4,555	\$ 2.00	\$	9,110	
103	24-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 1,265.00	\$	2,530	
104	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	6	\$ 752.00	\$	4,512	
105	10-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$ 680.00	\$	1,360	
106	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	3.50	\$ 1,165	\$	4,078	
107	SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH BFM)	AC	3.00	\$ 3,353	\$	10,059	
108	BUFFER STRIP MOWING	AC	3.50	\$ 85	\$	298	
109	WEED SPRAYING	AC	6.50	\$ 150	\$	975	
				Total	\$	34,571	
			1	0% Unforeseen	\$	3,457	
				Subtotal	\$	38,028	
	TEMPORARY DAMAGES	AC	3.5	\$ 650	\$	2,275	
			County Adm	inistration Costs	\$	761	
				ographic Survey		4,000	
Reports, Plans and Specifications							
Construction Staking & Administration							
Total Main Open Ditch Improvement Cost							

#### **Branch 1 Tile**

Item No.	ltem	Unit	Quantity	Unit Price		Amount		
101	MOBILIZATION	LS	1	\$ 2,480.00	\$	2,480		
102	TILE INVESTIGATION	HR	5	\$ 106.50	\$	533		
103	18-INCH AGRICULTURAL TILE	LF	790	\$ 24.60	\$	19,434		
104	12-INCH AGRICULTURAL TILE	LF	1261	\$ 18.00	\$	22,698		
105	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 1,085	\$	3,255		
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	9	\$ 400	\$	3,600		
				Total	\$	52,000		
			1	10% Unforeseen	\$	5,200		
				Subtotal	\$	57,200		
	TEMPORARY DAMAGES	AC	7.1	\$ 650	\$	4,615		
			County Adm	inistration Costs	\$	1,144		
			Тор	ographic Survey	\$	1,573		
Reports, Plans and Specifications								
Construction Staking & Administration								
		<b>Total Bran</b>	ch 1 Tile Imp	rovement Cost	\$	72,540		

## Branch 2 Tile

Item No.	Item	Unit	Quantity	Unit Price		Amount	
101	MOBILIZATION	LS	1	\$ 1,320.00	\$	1,320	
102	TILE INVESTIGATION	HR	2	\$ 106.50	\$	213	
103	15-INCH AGRICULTURAL TILE	LF	500	\$ 21.00	\$	10,500	
104	12-INCH AGRICULTURAL TILE	LF	300	\$ 18.00	\$	5,400	
105	10-INCH AGRICULTURAL TILE	LF	372	\$ 16.00	\$	5,952	
106	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085	\$	2,170	
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	5	\$ 400	\$	2,000	
				Total	\$	27,600	
			1	10% Unforeseen	\$	2,760	
				Subtotal	\$	30,360	
	TEMPORARY DAMAGES	AC	4.1	Ψ 000		2,665	
				inistration Costs		608	
				ographic Survey		835 1,822	
Reports, Plans and Specifications							
Construction Staking & Administration							
		Total Bran	ch 2 Tile Imp	rovement Cost	\$	38,719	



## **Branch 3 Tile**

Item No.	Item	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 1,380.00	\$	1,380
102	TILE INVESTIGATION	HR	3	\$ 106.50	\$	320
103	15-INCH AGRICULTURAL TILE	LF	1097	\$ 21.00	\$	23,037
104	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085	\$	2,170
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	5	\$ 400	\$	2,000
				Tota	\$	29,000
			•	10% Unforeseer	\$	2,900
				Subtota	\$	31,900
	TEMPORARY DAMAGES	AC	3.8	\$ 650	\$	2,470
			County Adm	inistration Costs	\$	638
			Тор	ographic Survey	\$	878
Reports, Plans and Specifications						
Construction Staking & Administration						
		Total Bran	ch 3 Tile Imp	rovement Cost	\$	40,352

#### **Branch 4 Tile**

Item No.	Item	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 3,870.00	\$	3,870
102	TILE INVESTIGATION	HR	6	\$ 106.50	\$	639
103	24-INCH AGRICULTURAL TILE	LF	400	\$ 29.20	\$	11,680
104	18-INCH AGRICULTURAL TILE	LF	2280	\$ 24.60	\$	56,088
105	CONNECT EXISTING 15-INCH TILE	EA	2	\$ 644.50	\$	1,289
106	INSTALL DROP INTAKE (18-INCH)	EA	3	\$ 1,085	\$	3,255
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$ 400	\$	4,400
				Total	\$	81,300
10% Unforeseen						8,130
Subtotal						89,430
	TEMPORARY DAMAGES	AC	9.3	\$ 650	\$	6,045
County Administration Costs						1,789
Topographic Survey						2,460
Reports, Plans and Specifications						5,366
Construction Staking & Administration						7,155
Total Branch 4 Tile Improvement Cost						112,245

## Branch 4-A Tile

Item No.	Item	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 560.00	\$	560
102	TILE INVESTIGATION	HR	1	\$ 106.50	\$	107
103	15-INCH AGRICULTURAL TILE	LF	430	\$ 21.00	\$	9,030
104	INSTALL DROP INTAKE (18-INCH)	EA	1	\$ 1,085	\$	1,085
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 400	\$	800
				Total	\$	11,600
			•	10% Unforeseen	\$	1,160
Subtotal						12,760
	TEMPORARY DAMAGES	AC	1.5	\$ 650	\$	975
County Administration Costs					\$	256
Topographic Survey						351
Reports, Plans and Specifications						766
Construction Staking & Administration						1,021
Total Branch 4-A Tile Improvement Cost						16,129



Main Crossing # 1 (Driveway Crossing)

Item No.	Item	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 1,250.00	\$	1,250
102	REMOVE CMP CULVERT	LS	1	\$ 765.75	\$	766
103	48-INCH CLASS III RCP PIPE	LF	74	\$ 128.00	\$	9,472
104	48-INCH RCP APRON	EA	2	\$ 2,000.00	\$	4,000
105	RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$ 62.00	\$	6,200
106	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970
107	MnDOT CATEGORY 4 EROSION CONTROL BLANKET	SY	150	\$ 2.80	\$	420
108	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
				Tota	\$	26,300
			1	10% Unforeseer	\$	2,630
Subtotal						28,930
	TEMPORARY DAMAGES	AC	0.1	\$ 650	\$	65
County Administration Costs						579
Topographic Survey						796
Reports, Plans and Specifications						1,736
Construction Staking & Administration						2,315
Total Main Crossing # 1 (Driveway Crossing) Repair Cost						34,421

Main Crossing # 2 (Driveway Crossing)

Item No.	ltem	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 1,170.00	\$	1,170
102	REMOVE CMP CULVERT	LS	1	\$ 765.75	\$	766
103	48-INCH CLASS III RCP PIPE	LF	60	\$ 128.00	\$	7,680
104	48-INCH RCP APRON	EA	2	\$ 2,000.00	\$	4,000
105	RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$ 62.00	\$	6,200
106	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970
107	MnDOT CATEGORY 4 EROSION CONTROL BLANKET	SY	150	\$ 2.80	\$	420
108	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
				Total	\$	24,400
10% Unforeseen						2,440
Subtotal						26,840
	TEMPORARY DAMAGES	AC	0.1	\$ 650	\$	65
County Administration Costs						537
Topographic Survey						739
Reports, Plans and Specifications						1,611
Construction Staking & Administration						2,148
Total Main Crossing # 2 (Driveway Crossing) Repair Cost						31,940

# TOTAL IMPROVEMENT COST

Main Open Ditch	\$ 51,907.10
Branch 1 Tile	\$ 72,540.00
Branch 2 Tile	\$ 38,719.00
Branch 3 Tile	\$ 40,352.00
Branch 4 Tile	\$ 112,245.00
Branch 4-A Tile	\$ 16,129.00
Main Crossing # 1 (Driveway Crossing)	\$ 34,421.00
Main Crossing # 2 (Driveway Crossing)	\$ 31,940.00
COMPLETE IMPROVEMENT COST	\$ 331.892.10

# Le Sueur COUNTY COUNTY DITCH No. 61 September 6, 2017



## ROAD CROSSING SUMMARY

		NOAD	SKOSSING (			
Crossing	Road Authority	Repair Cost With Road	Repair Cost Without Road	Improvement Cost	Road Authority Cost (Difference of Repair Cost With Road and Repair Cost Without Road)	Damages Paid To Road Authority (Difference of Improvement Cost and Road Authority Cost)
			Main Open Dite	ch		
440th St.	COUNTY	\$ 31,448	\$ 3,845	\$ 31,448	\$ 27,602	\$ 3,845
			Branch 4			
209th Ave.	COUNTY	\$ 7,139.00	\$ 2,756.91	\$ 7,337.00	\$ 4,382.09	\$ 2,954.91
				-		
TOTAL		\$ 38,587	\$ 6,602	\$ 38,785	\$ 31,985	\$ 6,800
STATE ROAD AUTHORITY	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -
COUNTY ROAD AUTHORITY	Y TOTAL	\$ 38,587	\$ 6,602	\$ 38,785	\$ 31,985	\$ 6,800
TOWNSHIP ROAD AUTHOR	TOWNSHIP ROAD AUTHORIY TOTAL		\$ -	\$ -	\$ -	\$ -

## Le Sueur COUNTY COUNTY DITCH No. 61 September 6, 2017



## ROAD CROSSINGS

## BRANCH 4 TILE REPAIR COST WITH ROAD - 209TH AVE.

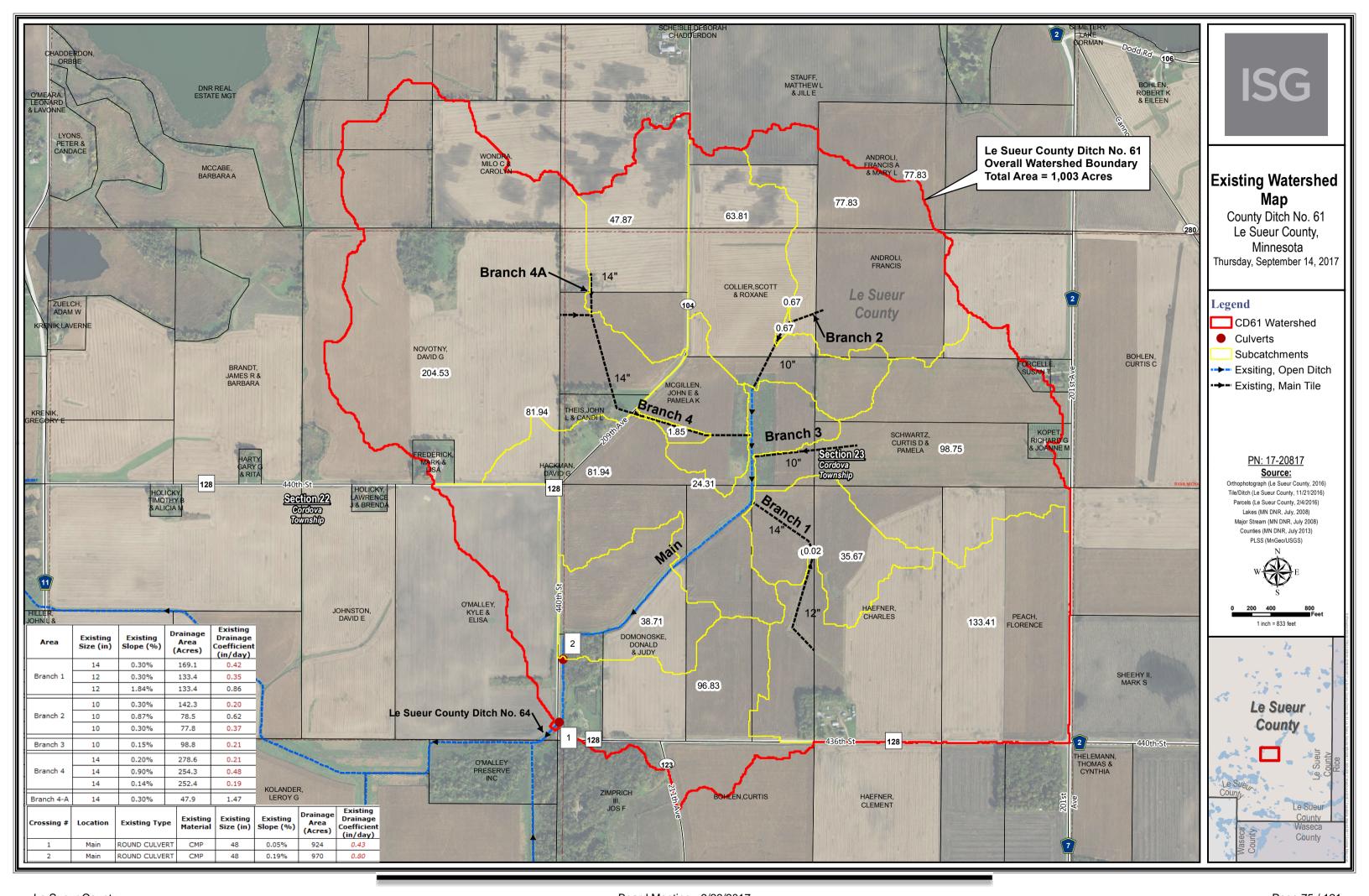
Item No.	Item	Unit	Quantity	Unit Price		Amount		
101	MOBILIZATION	LS	1	\$ 300.00	\$	300		
102	15-INCH AGRICULTURAL TILE	LF	50	\$ 21.00	\$	1,050		
103	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970		
104	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170		
TOTAL								
			10% C0	ONTINGENCY	\$	549		
				SUBTOTAL	\$	6,039		
		Co	ounty Admin	istration Costs	\$	200		
		Reports	, Plans and	Specifications	\$	400		
Construction Staking & Administration								
ESTIMATED BRANCH 4 TILE REPAIR COST WITH ROAD - 209TH AVE.								

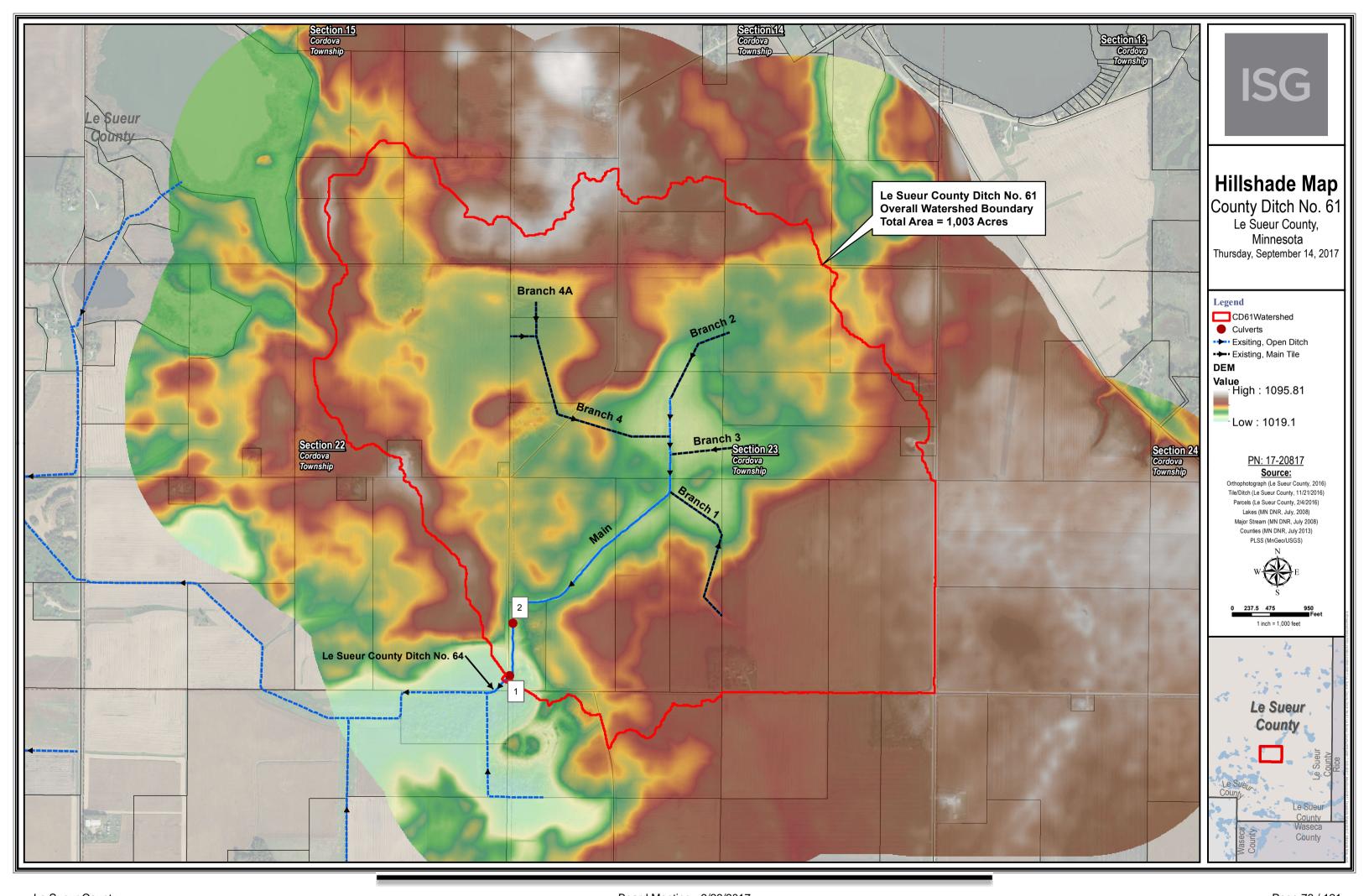
#### BRANCH 4 TILE REPAIR WITHOUT ROAD - 209TH AVE.

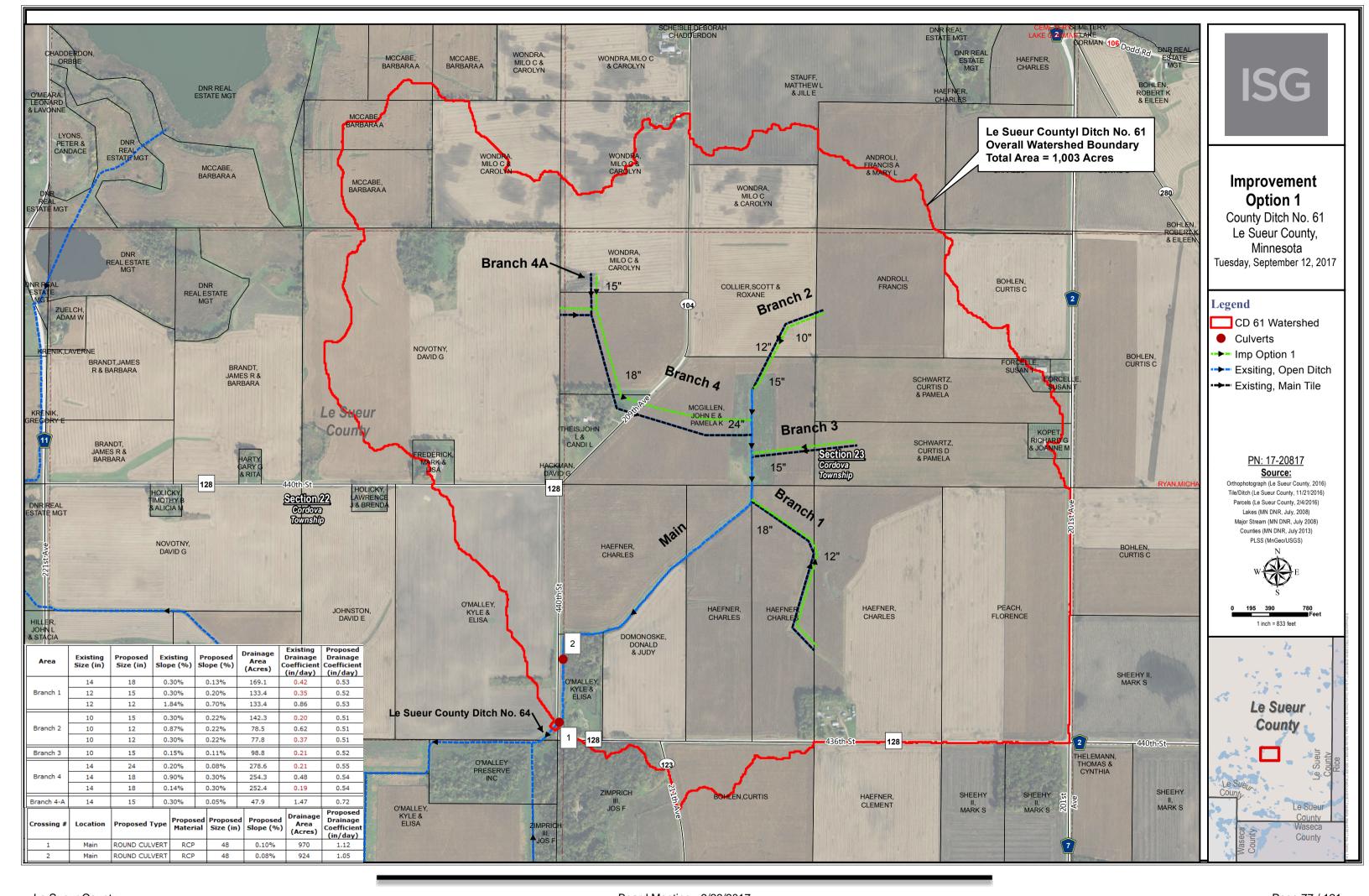
Item No.	Item	Unit	Quantity	Unit Price		Amount		
201	MOBILIZATION	LS	1	\$ 100.00	\$	100		
202	15-INCH AGRICULTURAL TILE	LF	50	\$ 21.00	\$	1,050		
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 400.00	\$	800		
TOTAL								
10% CONTINGENCY								
				SUBTOTAL	\$	2,145		
		Co	unty Admin	istration Costs	\$	100		
		Reports	, Plans and	Specifications	\$	200		
Construction Staking & Administration								
	TEMPORARY DAMAGES AC 0.17 \$ 650 \$							
ESTIMATED BRANCH 4 TILE REPAIR WITHOUT ROAD - 209TH AVE.								

## BRANCH 4 TILE IMPROVEMENT COST - 209TH AVE.

Item No.	Item	Unit	Quantity	Unit Price		Amount		
301	MOBILIZATION	LS	1	\$ 300.00	\$	300		
302	18-INCH AGRICULTURAL TILE LF 50 \$ 24							
303	REPLACE GRAVEL ROAD OR DRIVEWAY	LS	1	\$ 1,970.00	\$	1,970		
304	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170		
TOTAL								
			10% CC	ONTINGENCY	\$	567		
				SUBTOTAL	\$	6,237		
		Co	unty Admin	istration Costs	\$	200		
Reports, Plans and Specifications								
Construction Staking & Administration								
	ESTIMATED BRANCH 4 TILE	IMPROVEM	ENT COST	- 209TH AVE.	\$	7,337		







# **FEASIBILITY STUDY FOR:**

JOINT COUNTY DITCH 4: LE SUEUR & SCOTT COUNTIES, MINNESOTA

REPORT FOR: Le Sueur County Drainage Authority 181 W. Minnesota St. Le Center, MN 56057 507.357.4879 FROM: Chuck Brandel, PE Principal + Senior Civil Engineer ISG 115 E. Hickory Street, Suite 300 Mankato, MN 56001 507.387.6651 chuck.brandel@is-grp.com



ARCHITECTURE + ENGINEERING + ENVIRONMENTAL + PLANNING



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## Project Scope

At your request, I+S Group (ISG) completed a preliminary review of Le Sueur and Scott County Joint County Ditch No. 4 (JCD 4). The scope included an examination of the existing JCD 4, as well as recommendations for repairing and improving the existing open ditch and tile system. Maps of the JCD 4 watershed and existing public open ditch and tile system is shown on the attached exhibits and is referenced herein.

It should be noted that some general assumptions were made during this analysis and minimal survey information was gathered. ISG received the original watershed maps, showing the tile locations and sizes from Le Sueur County for the JCD 4 system. Additional information may or may not modify our findings, but it is not anticipated that a significant change to our recommendation would result. If you or any land owners have tile maps or any other information that can aid us in future work, please feel free to share this information with us. A future survey will be necessary to verify these assumptions.

#### Watershed

Le Sueur and Scott County Joint County Ditch No. 4 open ditch lies in Tyrone and Derrynane Township of Le Sueur County, Minnesota. The mainline open ditch drains from the NE ¼ of the NW ¼ of Section 6 of Darrynane Township and flows southwest where it outlets into Forest Prairie Creek in the SE ¼ fo the SW ¼ of Section 11 of Tyrone Township.

The JCD 4 watershed consists primarily of gently rolling agricultural land which provides drainage to approximately 3,467 total acres. The watershed includes land from Sections 31 and 32 of Belle Plaine Township and Section 36 of Blakeley Township of Scott County as well as Sections 5, 6, 7 and 8 of Darrynane Township and Sections 1, 2, 11 and 12 of Tyrone Township of Le Sueur County. County Ditch No. 70 of Le Sueur County provides drainage to approximately 1,657 acres which drains into the JCD 4 system through Branch H open ditch in the NE ¼ of the NW ¼ of Section 11 of Tyrone Township. Elevations within the entire watershed range from approximately 905 to 1027 Mean Sea Level (MSL) according to county LIDAR data.

The hydrologic soil classification for the land in the JCD 4 watershed is predominantly type "C/D," which is considered as a dual hydrological soil group. This means that this soil has the potential to be adequately drained. The "D" in this group corresponds to the soil having over 40 percent clay and restricted water movement. The "C" is named the drained condition. That means if adequately drained, the soil would have moderately high runoff potential when thoroughly wet.

## History

Le Sueur and Scott County Joint County Ditch No. 4 was originally constructed in 1958 with minor repairs completed throughout the years and no known improvements. The original construction consisted of approximately 24,620 linear feet of open ditch as well as approximately 30,105 linear feet of buried tile. There are approximately nine culvert crossings throughout the entire length of the mainline open ditch.

## **Existing Conditions**

The open ditch channel contains a typical trapezoidal channel designed to convey both surface and subsurface tile water throughout the watershed. Based on the original profiles, the open ditch slopes range from 0.04% to 0.49%. In most areas, existing tile outlets from both public branches and private tiles outlet near the bottom of the ditch. During rain events, the open ditch fills with water, covering the tile outlets and creates forced outlets. In some cases during larger rain events, the water depth in the channel is high enough to restrict the flow of the tiles and cause water to back up into the adjacent fields.

#### **Drainage Capacity**

The information in this document has been prepared with the original JCD 4 alignment map. A close representation of the JCD 4 watershed was created using this information in conjunction with LiDAR contours, Minnesota DNR Watershed lines, aerial photographs and USGS Stream-Stats.

Le Sueur & Scott County Joint County Ditch No. 4 – Feasibility Study

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The capacity of agricultural tile is expressed as a drainage coefficient, in inches per day (in/day), and is defined as the depth of water over the entire area of the upstream watershed that a tile can drain in a 24-hour period. For a system like JCD 4, the Natural Resources Conservation Service (NRCS) recommends a drainage coefficient of 0.50 to 0.75 in/day for buried tile and 1.0 in/day for open ditches. See Table 1 below for open ditch summary and Table 2 below for the existing tile inventory breakdown.

Table 1: Existing Open Ditch Drainage Capacities

Crossing #	Location	Existing Type	Existing Material	Existing Size (in)	Existing Rise x Span (in)	Existing Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)
1	Main - Field Crossing	ARCH CULVERT	CMP	-	63 x 87	1.25%	5123	1.34
2	Main - TWP 118	ARCH CULVERT	CMP	-	63 x 87	2.06%	4947	1.79
3	Main - Field Crossing	ROUND CULVERT	CMP	60	-	1.00%	3051	1.06
4	Main - Field Crossing	ROUND CULVERT	CMP	60	-	1.83%	2754	1.59
5	Main - TWP 119	ROUND CULVERT	RCP	54	-	0.30%	2454	1.05
6	Main - Field Crossing	ROUND CULVERT	CMP	54	-	0.42%	2407	0.65
7	Main - Field Crossing	ROUND CULVERT	CMP	54	-	0.83%	1929	1.16
8	Main - Field Crossing	ROUND CULVERT	CMP	54	-	0.56%	1528	1.19
9	Main - CSAH 11	ROUND CULVERT	RCP	54	-	0.31%	1486	1.77
10	Main - Field Crossing	ROUND CULVERT	CMP	42	-	2.50%	482	4.10

Table 2: Existing Tile Drainage Capacity

Area	Existing Size (in)	Existing Slope (%)	Drainage Area (Acres)	Existing Drainage Coefficient (in/day)
	18	0.22%	460.0	0.26
Main	18	0.20%	441.2	0.25
riaiii	18	0.17%	409.7	0.25
	10	0.20%	103.1	0.23
Branch A	8	0.30%	13.9	1.14
Branen A	6	0.90%	9.5	1.34
Branch B	10	0.40%	229.4	0.14
Branch B	10	0.20%	228.6	0.10
Branch C	8	0.10%	75.6	0.12
Branch C	6	0.40%	65.4	0.13
	18	0.12%	402.8	0.22
Branch D	18	0.08%	286.7	0.25
	12	0.50%	275.4	0.22
Branch D-1	8	0.10%	27.5	0.33
Branch E	8	0.10%	44.7	0.20
Dranen E	6	0.10%	43.9	0.10
Branch F	10	0.10%	202.1	0.08
	16	0.06%	209.8	0.21
	14	0.08%	207.3	0.17
Branch L	14	0.06%	187.3	0.17
Brunen E	12	0.06%	178.6	0.12
	8	0.06%	100.9	0.07
	6	0.06%	96.1	0.03
	18	0.30%	468.3	0.29
	16	0.30%	468.2	0.21
Branch J	14	0.30%	289.5	0.24
	10	0.10%	75.2	0.22
	6	0.40%	25.2	0.34
	12	0.30%	138.1	0.34
	10	1.10%	130.7	0.42
Branch J-1	14	0.10%	129.3	0.31
	12	0.15%	114.5	0.29
	8	0.10%	96.4	0.09
Branch J-2	6	0.20%	10.7	0.56
Branch J-3	6	0.75%	18.2	0.64
Branch J-4	10	0.10%	3.3	5.04
Branch J-5	10	0.10%	130.8	0.13
	14	0.10%	254.7	0.16
Branch K	12	0.10%	226.8	0.12
	10	0.10%	201.8	0.08
	8	0.10%	200.1	0.05

The majority of the existing crossings of JCD 4 are above the NRCS recommended drainage coefficient values while majority of the existing tiles are below the recommended drainage coefficient.

Le Sueur & Scott County Joint County Ditch No. 4 – Feasibility Study



#### **Proposed Conditions**

It is recommended that eventually the entire system should be repaired or improved. The repaired tile would be installed following the existing tile alignments matching the existing tile slopes and elevations. Options to improve the existing system were considered along with the costs for repairing the system. All improvement options are sized to achieve at least a drainage coefficient of 0.50 in/day for underground tiles and 1.0 in/day for open ditch crossings.

#### Repair Option 1

It is proposed in repair option 1 to clean the entire mainline open ditch, repair any of the culvert crossings within the open ditch that are below the NRCS recommended drainage coefficient and repair the mainline buried tile. The repair will consist of cleansing approximately 2,025 feet of 18-foot bottom open ditch, 1,300 feet of 8-foot bottom open ditch, 2,700 feet of 6-foot bottom open ditch and 20,375 feet of 4-foot bottom open ditch as well as 3,156 feet of 18-inch tile and 1,624 feet of 10-inch tile. The repair will also consist of replacing culvert crossing #6 with a 54-inch RCP culvert.

#### Repair Option 2

It is proposed in repair option 2 to clean the entire mainline open ditch, repair any of the culvert crossings within the open ditch that are below the NRCS recommended drainage coefficient and repair the mainline buried tile. The repair will consist of cleansing approximately 2,025 feet of 18-foot bottom open ditch, 1,300 feet of 8-foot bottom open ditch, 2,700 feet of 6-foot bottom open ditch and 20,875 feet of 4-foot bottom open ditch as well as 8,156 feet of 18-inch tile, 5,550 feet of 15-inch tile, 3,550 feet of 12-inch tile, 5,699 feet of 10-inch tile, 2,625 feet of 8-inch tile and 2,146 feet of 6-inch tile. The repair will also consist of replacing culvert crossing #6 with a 54-inch RCP culvert.

#### Improvement Option 1

It is proposed in improvement option 1 clean the entire mainline open ditch, repair any of the culvert crossings within the open ditch that are below the NRCS recommended drainage coefficient and repair the mainline buried tile. The repair will consist of cleansing approximately 2,025 feet of 18-foot bottom open ditch, 1,300 feet of 8-foot bottom open ditch, 2,700 feet of 6-foot bottom open ditch and 20,375 feet of 4-foot bottom open ditch as well as 3,156 feet of 24-inch tile and 1,624 feet of 18-inch tile. The improvement will also consist of replacing culvert crossing #6 with a 54-inch RCP culvert.

#### Improvement Option 2

It is proposed in improvement option 2 to clean the entire mainline open ditch, repair any of the culvert crossings within the open ditch that are below the NRCS recommended drainage coefficient and repair the mainline buried tile. The repair will consist of cleansing approximately 2,025 feet of 18-foot bottom open ditch, 1,300 feet of 8-foot bottom open ditch, 2,700 feet of 6-foot bottom open ditch and 20,875 feet of 4-foot bottom open ditch as well as 15,956 feet of 24-inch tile, 3,527 feet of 18-inch tile, 4,874 feet of 15-inch tile, 2,175 feet of 12-inch tile and 1,490 feet of 10-inch tile. The improvement will also consist of replacing culvert crossing #6 with a 54-inch RCP culvert.

These options are summarized on *the Improvement Maps* attached with this report. The repair option and improvement option described above are a sample size of what can be done to repair or improve this system. Any and all branches can be added or removed as another option to best suit the landowners involved.

## Multi-Purpose Drainage Management

Multi-purpose drainage management incorporates Best Management Practices (BMPs) which utilize effective measures aimed at reducing sediment and nutrient loading, and improving water quality. These BMPs are divided into three areas: preventative measures, control measures, and treatment measures. Preventative measures that can be applied throughout the watershed include crop rotation, cover crops, residue management, and nutrient management. These measures are aimed at controlling sediment,

Le Sueur & Scott County Joint County Ditch No. 4 – Feasibility Study

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minimizing erosion and nutrient loss, and sustaining the soils health, all without dramatically changing the current land use of the landscape.

Control measures are practices aimed at improving water quality directly associated with the flow of water by reducing peak flows, providing in stream storage, sedimentation, and nutrient uptake. Examples of control measures include alternative intake structures, grassed waterways, two stage ditches, water control structures, and controlled subsurface drainage. These practices are directly linked to the conveyance of subsurface tile water or open channel ditch flow.

The function of treatment measures is to improve water quality by directly removing sediment and nutrients from the subsurface or surface water flow throughout a watershed. Examples of treatment measures include surge basins (storage ponds), filter/buffer strips, wetland restorations, woodchip bioreactors, and water and sediment control basins (WASCOBs). These practices may be incorporated to either the public or private drainage systems.

Conservative drainage practices, such as controlled drainage systems, provide an option for improving the water quality and reduce peak flow rates within a drainage system. Through utilization of control structures, these systems are designed to allow agricultural producers to regulate water levels in their fields. The water level in the ground can be lowered during planting and harvest seasons and allowed to rise during the growing season. Water and nutrients stored in the soil during the growing season can then be used by the crops during drier periods, potentially increasing yields.

## Cost/Separable Maintenance

When a separable portion of a larger system is in need of repair, the drainage statute, M.S.103E.215, subd. 6, allows the separation of the cost of repair from the cost of improvement of the project. The condition of the existing system should be investigated further to discern the eligibility for separable maintenance costs. If it is determined that the system is in disrepair, separable maintenance costs can be applied to the project including the difference in costs associated between pipe/ditch replacement and pipe/ditch improvement. Separable maintenance for this system includes standard open ditch cleaning, rip rap outlet protection on all tile outlets, seeding (buffer and sideslopes), and standard tile installation.

A cost estimate was prepared for the above outline options for improvement to the system, as summarized in Table 3. The cost estimate summary includes the separable maintenance, improvement cost, and net benefit for each option.



Table 3: Cost Estimate Summary

#### PROPOSED OPTION #1 IMPROVEMENT COST SUMMARY

Area		Separable Maintenance	Imp	rovement Cost		Net Cost	
Main Open Ditch	\$	215,435	\$	217,139	\$	1,704	
Main Tile	\$	175,725	\$	215,195	\$	39,470	
Subtotal without Road Crossings	\$	391,160	\$	432,334	\$	41,174	
Road Authority Cost	\$	17,127	\$	17,127	\$	-	
Damages Paid To Road Authority	\$	3,065	\$	4,365	\$	1,300	
Total	\$	411,352	\$	453,826	\$	42,474	
		Sul	btotal	Landowner Costs	\$	436,699	
				Net Costs	\$	25,346	
	of Benefits Costs	\$	20,799				
	Permanent Damages (Buffer Strip Acqusition)						
		Total Project Co	sts f	or Landowners	\$	579,444	

#### PROPOSED OPTION #2 IMPROVEMENT COST SUMMARY

Area		Separable Improvement Cost				Net Cost
Main Open Ditch	\$	215,435	\$	217,139	\$	1,704
Main Tile	\$	175,725	\$	216,911	\$	41,186
Branch B Tile	\$	16,415	\$	22,621	\$	6,206
Branch C Tile	\$	23,533	\$	31,055	\$	7,522
Branch D Tile	\$	69,299	\$	87,515	\$	18,216
Branch E Tile	\$	24,325	\$	26,041	\$	1,716
Branch F Tile	\$	11,273	\$	13,649	\$	2,376
Branch H Open Ditch	\$	38,565	\$	62,325	\$	23,760
Branch L Tile	\$	137,266	\$	195,478	\$	58,212
Branch J Tile	\$	295,526	\$	353,870	\$	58,344
Branch J-1 Tile	\$	82,410	\$	91,520	\$	9,110
Branch J-5 Tile	\$	10,089	\$	13,653	\$	3,564
Branch K Tile	\$	74,106	\$	88,175	\$	14,069
Potential Storage - 4.25 AC	\$	-	\$	75,578	\$	75,578
Subtotal without Road Crossings	\$	1,173,967	\$	1,495,530	\$	321,563
Road Authority Cost	\$	60,664	\$	60,664	\$	-
Damages Paid To Road Authority	\$	11,049	\$	23,729	\$	12,680
Total	\$	1,245,680	\$	1,579,923	\$	334,243
Subtotal Landowner Costs						1,519,258
Net Costs						273,578
	Redetermination of Benefits Costs					
	Per	manent Damages (	Buffe	r Strip Acqusition)	\$	121,946
		Total Project Co	sts 1	for Landowners	\$	1,662,003



#### Recommendation

Currently, the existing tile system has a lower capacity than what is recommended by the NRCS. Upgrading the tile system would increase the capacity of the system to a drainage coefficient over 0.50 in/day for buried tile and 1.0 in/day for open ditch crossings. The system is approximately 60-years old, which is half the life expectancy for ditch systems like JCD 4. These improvements would be a public benefit and contribute to the public welfare of this area.

This scenario assumes that the project is completed publically through Le Sueur County and utilizing Minnesota Statute 103E. If the project was completed privately, some of the administration costs could be saved, but would require 100% agreement with everyone in the watershed that is affected.

At this point we would recommend keeping the project as a public project as only 26% of the affected landowners would need to sign the petition to move forward. We would appreciate the opportunity to discuss this in greater detail and to potentially meet with a group of landowners to discuss. Please contact us with questions or comments.

Sincerely,

Chuck Brandel, PE

Civil Engineer/Principal

les T. Bold

**Enclosures** 

## LE SUEUR & SCOTT COUNTY JOINT COUNTY DITCH No. 4



#### PROPOSED OPTION #1 IMPROVEMENT COST SUMMARY

Area		Separable Maintenance	lm	provement Cost		Net Cost
Main Open Ditch	\$	215,435	\$	217,139	\$	1,704
Main Tile	\$	175,725	\$	215,195	\$	39,470
Subtotal without Road Crossings	\$	391,160	\$	432,334	\$	41,174
Road Authority Cost	\$	17,127	\$	17,127	\$	-
Damages Paid To Road Authority	\$	3,065	\$	4,365	\$	1,300
Total	\$	411,352	\$	453,826	\$	42,474
		Subto	tal	Landowner Costs	\$	436,699
				Net Costs	\$	25,346
	\$	20,799				
Permanent Damages (Buffer Strip Acqusition)						121,946
	T	otal Project Cos	ts t	for Landowners	\$	579,444

## LE SUEUR & SCOTT COUNTY JOINT COUNTY DITCH No. 4



## PROPOSED OPTION #2 IMPROVEMENT COST SUMMARY

Area		Separable Maintenance	lm	provement Cost		Net Cost
Main Open Ditch	\$	215,435	\$	217,139	\$	1,704
Main Tile	\$	175,725	\$	216,911	\$	41,186
Branch B Tile	\$	16,415	\$	22,621	\$	6,206
Branch C Tile	\$	23,533	\$	31,055	\$	7,522
Branch D Tile	\$	69,299	\$	87,515	\$	18,216
Branch E Tile	\$	24,325	\$	26,041	\$	1,716
Branch F Tile	\$	11,273	\$	13,649	\$	2,376
Branch H Open Ditch	\$	38,565	\$	62,325	\$	23,760
Branch L Tile	\$	137,266	\$	195,478	\$	58,212
Branch J Tile	\$	295,526	\$	353,870	\$	58,344
Branch J-1 Tile	\$	82,410	\$	91,520	\$	9,110
Branch J-5 Tile	\$	10,089	\$	13,653	\$	3,564
Branch K Tile	\$	74,106	\$	88,175	\$	14,069
Potential Storage - 4.25 AC	\$	-	\$	75,578	\$	75,578
Subtotal without Road Crossings	\$	1,173,967	\$	1,495,530	\$	321,563
Road Authority Cost	\$	60,664	\$	60,664	\$	-
Damages Paid To Road Authority	\$	11,049	\$	23,729	\$	12,680
Total	\$	1,245,680	\$	1,579,923	\$	334,243
	\$ \$	1,519,258				
Net Costs						273,578
Redetermination of Benefits Costs						20,799
Perr		nent Damages (Bu			\$	121,946
		Total Project Cos	ts	for Landowners	\$	1,662,003



## SEPARABLE MAINTANENCE (REPAIR)

Main Open Ditch

Item No.	Item	Unit	Quantity	l	Init Price		Amount
101	MOBILIZATION	LS	1	\$	6,830.00	\$	6,830
102	DITCH CLEANING (18' WIDE DITCH BOTTOM)	LF	2,025	\$	4.50	\$	9,113
103	DITCH CLEANING (8' WIDE DITCH BOTTOM)	LF	1,300	\$	2.75	\$	3,575
104	DITCH CLEANING (6' WIDE DITCH BOTTOM)	LF	2,700	\$	2.25	\$	6,075
105	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	20,375	\$	2.00	\$	40,750
106	18-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$	860.00	\$	2,580
107	15-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	1	\$	752.00	\$	752
108	10-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	2	\$	680.00	\$	1,360
109	8-INCH TILE OUTLET (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$	635.00	\$	1,905
110	16.5' BUFFER STRIP SEEDING (SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	AC	20.00	\$	1,165	\$	23,300
111	SIDESLOPE SEEDING (SEED MIX: BUFFER BLEND WITH BFM)	AC	12.12	\$	3,353	\$	40,642
112	BUFFER STRIP MOWING	AC	20.00	\$	85	\$	1,700
113	WEED SPRAYING	AC	32.12	\$	150	\$	4,818
					Total	\$	143,400
				10%	Unforeseen	\$	14,340
					Subtotal	\$	157,740
	TEMPORARY DAMAGES	AC	20.0	\$	650	\$	13,000 3,155
County Administration Costs							
Topographic Survey							19,455 9,465
Reports, Plans and Specifications							
Construction Staking & Administration							
		Total M	ain Open Dit	ch F	Repair Cost	\$	215,435

#### Main Tile

Item No.	ltem	Unit	Quantity	U	nit Price		Amount
101	MOBILIZATION	LS	1	\$	5,950.00	\$	5,950
102	TILE INVESTIGATION	HR	10	\$	106.50	\$	1,065
103	18-INCH AGRICULTURAL TILE	LF	3156	\$	24.60	\$	77,638
104	10-INCH AGRICULTURAL TILE	LF	1624	\$	16.00	\$	25,984
105	CONNECT EXISTING 18-INCH TILE	EA	1	\$	871.50	\$	872
106	INSTALL DROP INTAKE (18-INCH)	EA	5	\$	1,085	\$	5,425
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	20	\$	400	\$	8,000
					Total	\$	125,000
			1	ا %10	Unforeseen	\$	12,500
					Subtotal	\$	137,500
	TEMPORARY DAMAGES	AC	16.5	\$	650	\$	10,725
			County Adm	inistr	ation Costs	\$	2,750
Topographic Survey							
Reports, Plans and Specifications							
Construction Staking & Administration							
			Total Main T	ile R	epair Cost	\$	175,725



## **SEPARABLE MAINTANENCE (REPAIR)**

#### Branch B Tile

Item No.	Item	Unit	Quantity	Ur	nit Price		Amount
101	MOBILIZATION	LS	1	\$	550.00	\$	550
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213
103	10-INCH AGRICULTURAL TILE	LF	525	\$	16.00	\$	8,400
105	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	3	\$	400	\$	1,200
					Total	\$	11,500
			,	10% L	Jnforeseen	\$	1,150
					Subtotal	\$	12,650
	TEMPORARY DAMAGES	AC	1.9	\$	650	\$	1,235
			County Adm	inistra	ation Costs	\$	253
Topographic Survey							506
Reports, Plans and Specifications							
Construction Staking & Administration							1,012
		Tota	l Branch B T	ile Re	epair Cost	\$	16,415

#### **Branch C Tile**

Item No.	Item	Unit	Quantity	Uı	nit Price		Amount
101	MOBILIZATION	LS	1	\$	780.00	\$	780
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213
103	8-INCH AGRICULTURAL TILE	LF	700	\$	14.60	\$	10,220
104	6-INCH AGRICULTURAL TILE	LF	200	\$	12.00	\$	2,400
105	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	4	\$	400	\$	1,600
					Total	\$	16,300
			,	10% l	Jnforeseen	\$	1,630
					Subtotal	\$	17,930
	TEMPORARY DAMAGES	AC	3.1	\$	650	\$	2,015
			County Adm	inistra	ation Costs	\$	359
Topographic Survey							
Reports, Plans and Specifications							
Construction Staking & Administration							
		Tota	I Branch C T	ile R	epair Cost	\$	23,533



## **SEPARABLE MAINTANENCE (REPAIR)**

#### **Branch D Tile**

Item No.	Item	Unit	Quantity	U	Init Price		Amount
101	MOBILIZATION	LS	1	\$	2,340.00	\$	2,340
102	TILE INVESTIGATION	HR	4	\$	106.50	\$	426
103	18-INCH AGRICULTURAL TILE	LF	900	\$	24.60	\$	22,140
104	12-INCH AGRICULTURAL TILE	LF	1100	\$	16.75	\$	18,425
105	CONNECT EXISTING 8-INCH TILE	EA	1	\$	315.50	\$	316
106	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	8	\$	400	\$	3,200
					Total	\$	49,100
			•	10%	Unforeseen	\$	4,910
					Subtotal	\$	54,010
	TEMPORARY DAMAGES	AC	6.9	\$	650	\$	4,485
			County Adm	inisti	ration Costs	\$	1,081 2,161
Topographic Survey							
Reports, Plans and Specifications							
Construction Staking & Administration							
		Tota	l Branch D T	ile F	Repair Cost	\$	69,299

#### **Branch D-1 Tile**

Item No.	ltem	Unit	Quantity	Uı	nit Price		Amount
101	MOBILIZATION	LS	1	\$	810.00	\$	810
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213
103	8-INCH AGRICULTURAL TILE	LF	900	\$	14.60	\$	13,140
104	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	4	\$	400	\$	1,600
					Total	\$	16,900
			1	10% l	Jnforeseen	\$	1,690
					Subtotal	\$	18,590
	TEMPORARY DAMAGES	AC	3.1	\$	650	\$	2,015
	·		County Adm	inistra	ation Costs	\$	372
			Top	ograp	hic Survey	\$	744
Reports, Plans and Specifications							
Construction Staking & Administration							
		Total I	Branch D-1 T	ile R	epair Cost	\$	24,325

#### **Branch E Tile**

Item No.	Item	Unit	Quantity	U	nit Price		Amount
101	MOBILIZATION	LS	1	\$	370.00	\$	370
102	TILE INVESTIGATION	HR	1	\$	106.50	\$	107
103	8-INCH AGRICULTURAL TILE	LF	100	\$	14.60	\$	1,460
104	6-INCH AGRICULTURAL TILE	LF	325	\$	12.00	\$	3,900
105	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400	\$	800
					Total	\$	7,800
			,	10%	Unforeseen	\$	780
					Subtotal	\$	8,580
	TEMPORARY DAMAGES	AC	1.5	\$	650	\$	975
			County Adm	inistr	ation Costs	\$	172
Topographic Survey							
Reports, Plans and Specifications							
Construction Staking & Administration							
		Tota	I Branch E T	ile R	epair Cost	\$	11,273



## **SEPARABLE MAINTANENCE (REPAIR)**

#### **Branch F Tile**

Item No.	ltem	Unit	Quantity	U	Init Price		Amount	
101	MOBILIZATION	LS	1	\$	1,290.00	\$	1,290	
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320	
103	10-INCH AGRICULTURAL TILE	LF	1300	\$	16.00	\$	20,800	
105	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170	
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	6	\$	400	\$	2,400	
				_	Total	\$	27,000	
			1	10%	Unforeseen	\$	2,700	
					Subtotal	\$	29,700	
	TEMPORARY DAMAGES	AC	4.5	\$	650	\$	2,925	
			County Adm	inistr	ration Costs	\$	594	
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
		Tota	l Branch F T	ile R	Repair Cost	\$	38,565	

**Branch H Open Ditch** 

Item No.	Item	Unit	Quantity	U	nit Price		Amount
101	MOBILIZATION	LS	1	\$	120.00	\$	120
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	500	\$	2.00	\$	1,000
103	16.5' BUFFER STRIP SEEDING	AC	0.38	\$	1,165	\$	441
103	(SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)	٨٥	0.50	Ψ	1,100	¥	
104	SIDESLOPE SEEDING	AC	0.23	\$	3,353	\$	770
	(SEED MIX: BUFFER BLEND WITH BFM)				ŕ	*	
105	BUFFER STRIP MOWING	AC	0.38	\$	85	\$	32
106	WEED SPRAYING	AC	0.61	\$	150	\$	91
					Total	\$	2,454
				10% l	Unforeseen	\$	245
					Subtotal	\$	2,700
	TEMPORARY DAMAGES	AC	0.4	\$	650	\$	260
			County Adm	inistr	ation Costs	\$	54
Topographic Survey							
Reports, Plans and Specifications							
Construction Staking & Administration							
	T	otal Branci	h H Open Dit	ch R	epair Cost	\$	3,419

#### Branch L Tile

Item No.	ltem	Unit	Quantity	U	Init Price		Amount	
101	MOBILIZATION	LS	1	\$	4,610.00	\$	4,610	
102	TILE INVESTIGATION	HR	7	\$	106.50	\$	746	
103	18-INCH AGRICULTURAL TILE	LF	500	\$	24.60	\$	12,300	
104	15-INCH AGRICULTURAL TILE	LF	1700	\$	21.00	\$	35,700	
105	12-INCH AGRICULTURAL TILE	LF	1100	\$	16.75	\$	18,425	
106	8-INCH AGRICULTURAL TILE	LF	200	\$	14.60	\$	2,920	
107	6-INCH AGRICULTURAL TILE	LF	781	\$	12.00	\$	9,372	
108	INSTALL DROP INTAKE (18-INCH)	EA	5	\$	1,085	\$	5,425	
109	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	18	\$	400	\$	7,200	
					Total	\$	96,700	
			1	10%	Unforeseen	\$	9,670	
					Subtotal	\$	106,370	
	TEMPORARY DAMAGES	AC	14.8	\$	650	\$	9,620	
			County Adm	inistr	ration Costs	\$	2,128 4,255	
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
		Tota	ll Branch L T	ile R	Repair Cost	\$	137,266	



# SEPARABLE MAINTANENCE (REPAIR) Branch J Tile

Item No.	Item	Unit	Quantity	l	Init Price		Amount	
101	MOBILIZATION	LS	1	\$	9,990.00	\$	9,990	
102	TILE INVESTIGATION	HR	15	\$	106.50	\$	1,598	
103	18-INCH AGRICULTURAL TILE	LF	3600	\$	24.60	\$	88,560	
104	15-INCH AGRICULTURAL TILE	LF	2350	\$	21.00	\$	49,350	
105	10-INCH AGRICULTURAL TILE	LF	1550	\$	16.00	\$	24,800	
106	6-INCH AGRICULTURAL TILE	LF	840	\$	12.00	\$	10,080	
107	CONNECT EXISTING 12-INCH TILE	EA	1	\$	494.50	\$	495	
108	CONNECT EXISTING 10-INCH TILE	EA	2	\$	447.50	\$	895	
109	CONNECT EXISTING 6-INCH TILE	EA	2	\$	281.00	\$	562	
110	INSTALL DROP INTAKE (18-INCH)	EA	9	\$	1,085	\$	9,765	
111	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	34	\$	400	\$	13,600	
					Total	\$	209,700	
			,	10%	Unforeseen	\$	20,970	
					Subtotal	\$	230,670	
	TEMPORARY DAMAGES	AC	28.8	\$	650	\$	18,720	
			County Adm				4,614	
			Тор	ogra	phic Survey	\$	9,227	
Reports, Plans and Specifications								
Construction Staking & Administration								
		Tota	al Branch J T	ile F	Repair Cost	\$	295,526	

#### **Branch J-1 Tile**

Item No.	ltem	Unit	Quantity	U	Init Price		Amount		
101	MOBILIZATION	LS	1	\$	2,760.00	\$	2,760		
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320		
102	15-INCH AGRICULTURAL TILE	LF	900	\$	21.00	\$	18,900		
103	12-INCH AGRICULTURAL TILE	LF	1000	\$	16.75	\$	16,750		
104	10-INCH AGRICULTURAL TILE	LF	400	\$	16.00	\$	6,400		
105	8-INCH AGRICULTURAL TILE	LF	350	\$	14.60	\$	5,110		
106	INSTALL DROP INTAKE (18-INCH)	EA	3	\$	1,085	\$	3,255		
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$	400	\$	4,400		
					Total	\$	57,900		
			1	10%	Unforeseen	\$	5,790		
					Subtotal	\$	63,690		
	TEMPORARY DAMAGES	AC	9.2	\$	650	\$	5,980		
			County Adm	inistı	ration Costs	\$	1,274		
Topographic Survey									
Reports, Plans and Specifications									
Construction Staking & Administration									
		Total	Branch J-1 T	ile R	Repair Cost	\$	82,410		



# SEPARABLE MAINTANENCE (REPAIR) Branch J-5 Tile

Item No.	Item	Unit	Quantity	U	nit Price		Amount
101	MOBILIZATION	LS	1	\$	340.00	\$	340
102	TILE INVESTIGATION	HR	1	\$	106.50	\$	107
103	10-INCH AGRICULTURAL TILE	LF	296	\$	16.00	\$	4,736
104	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400	\$	800
					Total	\$	7,100
			1	ا %10	Jnforeseen	\$	710
					Subtotal	\$	7,810
	TEMPORARY DAMAGES	AC	1.1	\$	650	\$	715
			County Adm	inistr	ation Costs	\$	157
Topographic Survey							313
Reports, Plans and Specifications							
Construction Staking & Administration							
		Total	Branch J-5 T	ile R	epair Cost	\$	10,089

#### **Branch K Tile**

Item No.	Item	Unit	Quantity	U	Init Price		Amount	
101	MOBILIZATION	LS	1	\$	2,490.00	65	2,490	
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320	
103	15-INCH AGRICULTURAL TILE	LF	900	\$	21.00	\$	18,900	
104	12-INCH AGRICULTURAL TILE	LF	1000	\$	16.75	\$	16,750	
105	10-INCH AGRICULTURAL TILE	LF	400	\$	16.00	\$	6,400	
106	INSTALL DROP INTAKE (18-INCH)	EA	3	\$	1,085	\$	3,255	
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	10	\$	400	\$	4,000	
					Total	\$	52,200	
			•	10%	Unforeseen	\$	5,220	
					Subtotal	\$	57,420	
	TEMPORARY DAMAGES	AC	8.0	\$	650	\$	5,200	
			County Adm	inistr	ration Costs	\$	1,149 2,297	
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
		Tota	I Branch K T	ile R	Repair Cost	\$	4,594 <b>74,106</b>	

#### **TOTAL REPAIR COST**

	_	
Main Open Ditch		215,435
Main Tile	\$	175,725
Branch B Tile	\$	16,415
Branch C Tile	\$	23,533
Branch D Tile	\$	69,299
Branch E Tile	\$	24,325
Branch F Tile	\$	11,273
Branch H Open Ditch	\$	38,565
Branch L Tile	\$	137,266
Branch J Tile	\$	295,526
Branch J-1 Tile	\$	82,410
Branch J-5 Tile	\$	10,089
Branch K Tile	\$	74,106



#### PROPOSED OPTION #1 IMPROVEMENT

#### Main Open Ditch

102   DITCH CLEANING (18' WIDE DITCH BOTTOM)	Item No.	Item	Unit	Quantity	l	Jnit Price		Amount	
103		MOBILIZATION		1		6,900.00	\$	6,900	
104   DITCH CLEANING (6' WIDE DITCH BOTTOM)   LF   2,700   \$ 2.25   \$ 6     105   DITCH CLEANING (4' WIDE DITCH BOTTOM)   LF   20,375   \$ 2.00   \$ 40     106   24-INCH TILE OUTLET   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   1   \$ 1,265.00   \$ 1     107   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   3   \$ 860.00   \$ 2     108   15-INCH TILE OUTLET   EA   1   \$ 752.00   \$     109   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   1   \$ 752.00   \$     109   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   2   \$ 680.00   \$ 1     110   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   3   \$ 635.00   \$ 1     111   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   3   \$ 635.00   \$ 1     111   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   3   \$ 635.00   \$ 1     112   SIDESLOPE SEEDING   AC   20.00   \$ 1,165   \$ 23     113   SIDESLOPE SEEDING   AC   20.00   \$ 85   \$ 1     114   WEED SPRAYING   AC   32.12   \$ 150   \$ 4     115   Total   \$ 144     116   SUBFFER STRIP MOWING   AC   20.00   \$ 650   \$ 13     117   COUNTY Administration Costs   \$ 3     TOMOURORSEN   COUNTY Administration Costs   \$ 3     TOPOGRAPHIC SURVEY   \$ 19     Reports, Plans and Specifications   \$ 9								9,113	
105				,			•	3,575	
106								6,075	
106	105		LF	20,375	\$	2.00	\$	40,750	
107	106		EA	1	\$	1,265.00	\$	1,265	
107   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)									
108	107		EA	3	\$	860.00	\$	2,580	
109	108		EA	1	\$	752.00	\$	752	
109   (20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)   EA   2   \$680.00   \$ 1					Ė		Ė		
110   8-INCH TILE OUTLET   EA   3   \$635.00   \$ 1	109		EA	2	\$	680.00	\$	1,360	
111	110		ΕΛ	2	•	625.00	6	1.905	
111	110		EA	3	Ф	635.00	Ą	1,905	
SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH    SIDESLOPE SEEDING	111	16.5' BUFFER STRIP SEEDING	AC.	20.00	\$	1 165	\$	23,300	
112			710	20.00	Ψ	1,100	•	20,000	
SEED MX: BUFFER BLEND WITH BFM)	112		AC	12.12	\$	3.353	\$	40,642	
114   WEED SPRAYING   AC   32.12   \$ 150   \$ 4	110		10	00.00	·		•		
Total   \$   144								1,700	
10% Unforeseen   \$   14	114	WEED SPRAYING	AC	32.12	<b>\$</b>			4,818	
Subtotal   \$ 159					400/			144,735	
TEMPORARY DAMAGES  AC 20.0 \$ 650 \$ 13  County Administration Costs \$ 3  Topographic Survey \$ 19  Reports, Plans and Specifications \$ 9					10%			14,474	
County Administration Costs \$ 3 Topographic Survey \$ 19 Reports, Plans and Specifications \$ 9		TEMPODADY DAMACES	1 40	20.0	Φ.			159,209	
Topographic Survey \$ 19 Reports, Plans and Specifications \$ 9	-	TEMPORART DAMAGES	AC					13,000 3.185	
Reports, Plans and Specifications \$ 9									
	Construction Staking & Administration								
Total Main Open Ditch Improvement Cost \$ 217.									

#### Main Tile

Item No.	ltem	Unit	Quantity	U	Jnit Price		Amount
101	MOBILIZATION	LS	1	\$	7,380.00	\$	7,380
102	TILE INVESTIGATION	HR	10	\$	106.50	\$	1,065
103	24-INCH AGRICULTURAL TILE	LF	3156	\$	29.20	\$	92,155
104	18-INCH AGRICULTURAL TILE	LF	1624	\$	24.60	\$	39,950
105	CONNECT EXISTING 18-INCH TILE	EA	1	\$	871.50	\$	872
106	INSTALL DROP INTAKE (18-INCH)	EA	5	\$	1,085	\$	5,425
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	20	\$	400	\$	8,000
					Total	\$	154,900
				10%	Unforeseen	\$	15,490
					Subtotal	\$	170,390
	TEMPORARY DAMAGES	AC	16.5	\$	650	\$	10,725
			County Adm	ninist	tration Costs	\$	3,408
			Top	ogra	aphic Survey	\$	6,816
Reports, Plans and Specifications							
Construction Staking & Administration							
		Total	Main Tile Imp	orov	ement Cost	\$	215,195

#### TOTAL IMPROVEMENT COST

Main Open Ditch \$	217,139
Main Tile \$	215,195
COMPLETE IMPROVEMENT COSTI \$	432.334



#### **PROPOSED OPTION #2 IMPROVEMENT**

Main Open Ditch

Main Open Ditch															
Item No.	Item	Unit	Quantity		Init Price	Ţ	Amount								
101	MOBILIZATION	LS	1	\$	6,900.00	\$	6,900								
102	DITCH CLEANING (18' WIDE DITCH BOTTOM)	LF	2,025	\$	4.50	\$	9,113								
103	DITCH CLEANING (8' WIDE DITCH BOTTOM)	LF	1,300	\$	2.75	\$	3,575								
104	DITCH CLEANING (6' WIDE DITCH BOTTOM)	LF	2,700	\$	2.25	\$	6,075								
105	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	20,375	\$	2.00	\$	40,750								
106	24-INCH TILE OUTLET	EA	1	\$	1,265.00	\$	1,265								
100	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)		'		1,200.00	•	1,200								
107	18-INCH TILE OUTLET	EA	3	\$	860.00	\$	2,580								
107	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	LA	3	<del>)</del>	000.00	9	2,300								
108	15-INCH TILE OUTLET	EA	1	\$	752.00	\$	752								
100	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	LA		Э	732.00	Э	132								
109	10-INCH TILE OUTLET	EA	2	2	6	6	\$	6	•	+	•	•	680.00	\$	1 200
109	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)			Ф	080.00	Ф	1,360								
440	8-INCH TILE OUTLET	Ε.Δ.	3	•	005.00	+	4.005								
110	(20 LF OF PIPE & RIPRAP ON GEOTEXTILE FABRIC)	EA	3	\$	635.00	\$	1,905								
444	16.5' BUFFER STRIP SEEDING	AC	20.00	_	4.405	•	00.000								
111	(SEED MIX: BUFFER BLEND WITH TYPE 3 MULCH)			Ф	Ф	\$	Ф	Ф	Ф	Ф	1,165	\$	23,300		
440	SIDESLOPE SEEDING	<b>—</b>	4.0	40.40	•	0.050	•	10.010							
112	(SEED MIX: BUFFER BLEND WITH BFM)	AC	AC 12.12	12.12 \$	Ъ	3,353	\$	40,642							
113	BUFFER STRIP MOWING	AC	20.00	\$	85	\$	1,700								
114	WEED SPRAYING	AC	32.12	\$	150	\$	4,818								
					Total	\$	144,735								
			,	10%	Unforeseen	\$	14,474								
					Subtotal	\$	159,209								
	TEMPORARY DAMAGES	AC	20.0	\$	650	\$	13,000								
County Administration Costs							3,185								
Topographic Survey															
Reports, Plans and Specifications															
Construction Staking & Administration															
Total Main Open Ditch Improvement Cost							12,737 <b>217,139</b>								
						-	=11,100								

#### Main Tile

Item No.	Item	Unit	Quantity	U	nit Price		Amount	
101	MOBILIZATION	LS	1	\$	7,440.00	\$	7,440	
102	TILE INVESTIGATION	HR	10	\$	106.50	\$	1,065	
103	24-INCH AGRICULTURAL TILE	LF	3156	\$	29.20	\$	92,155	
104	18-INCH AGRICULTURAL TILE	LF	1624	\$	24.60	\$	39,950	
105	CONNECT EXISTING 24-INCH TILE	EA	1	\$	1,232.50	\$	1,233	
106	CONNECT EXISTING 18-INCH TILE	EA	1	\$	871.50	\$	872	
107	INSTALL DROP INTAKE (18-INCH)	EA	5	\$	1,085	\$	5,425	
108	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	20	\$	400	\$	8,000	
					Total	\$	156,200	
			1	10%	Unforeseen	\$	15,620	
					Subtotal	\$	171,820	
	TEMPORARY DAMAGES	AC	16.5	\$	650	\$	10,725	
			County Adm	inistr	ation Costs	\$	3,437	
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
		Total N	lain Tile Imp	rove	ement Cost	\$	216,911	



#### **PROPOSED OPTION #2 IMPROVEMENT**

#### Branch B Tile

Item No.	ltem	Unit	Quantity	Uı	nit Price		Amount	
101	MOBILIZATION	LS	1	\$	780.00	\$	780	
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213	
103	18-INCH AGRICULTURAL TILE	LF	525	\$	24.60	\$	12,915	
105	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085	
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	3	\$	400	\$	1,200	
Total								
			1	10% L	Jnforeseen	\$	1,620	
					Subtotal	\$	17,820	
	TEMPORARY DAMAGES	AC	1.9	\$	650	\$	1,235	
			County Adm	inistra	ation Costs	\$	357	
	Topographic Survey							
Reports, Plans and Specifications								
Construction Staking & Administration								
	T	otal Brand	h B Tile Imp	rove	ment Cost	\$	22,621	

#### **Branch C Tile**

Item No.	Item	Unit	Quantity	J	Init Price		Amount		
101	MOBILIZATION	LS	1	\$	1,050.00	\$	1,050		
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213		
103	15-INCH AGRICULTURAL TILE	LF	700	\$	21.00	\$	14,700		
104	12-INCH AGRICULTURAL TILE	LF	200	\$	16.75	\$	3,350		
105	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085		
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	4	\$	400	\$	1,600		
	Total								
			1	10%	Unforeseen	\$	2,200		
					Subtotal	\$	24,200		
	TEMPORARY DAMAGES	AC	3.1	\$	650	\$	2,015		
			County Adm	inisti	ration Costs	\$	484		
Topographic Survey									
Reports, Plans and Specifications									
Construction Staking & Administration									
	Т	otal Brand	h C Tile Imp	rove	ement Cost	\$	31,055		



#### **PROPOSED OPTION #2 IMPROVEMENT**

#### **Branch D Tile**

Item No.	ltem	Unit	Quantity	Unit Price		Amount		
101	MOBILIZATION	LS	1	\$ 3,000.00	\$	3,000		
102	TILE INVESTIGATION	HR	4	\$ 106.50	\$	426		
103	24-INCH AGRICULTURAL TILE	LF	900	\$ 29.20	\$	26,280		
104	18-INCH AGRICULTURAL TILE	LF	1100	\$ 24.60	\$	27,060		
105	CONNECT EXISTING 10-INCH TILE	EA	1	\$ 447.50	\$	448		
106	CONNECT EXISTING 8-INCH TILE	EA	1	\$ 315.50	\$	316		
107	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085	\$	2,170		
108	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	8	\$ 400	\$	3,200		
				Total	\$	62,900		
			1	10% Unforeseen	\$	6,290		
				Subtotal	\$	69,190		
	TEMPORARY DAMAGES	AC	6.9	\$ 650	\$	4,485		
			County Adm	inistration Costs	\$	1,384		
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
	T	otal Branc	ch D Tile Imp	rovement Cost	\$	87,515		

#### Branch D-1 Tile

Item No.	ltem	Unit	Quantity	J	nit Price		Amount	
101	MOBILIZATION	LS	1	\$	870.00	\$	870	
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213	
103	10-INCH AGRICULTURAL TILE	LF	900	\$	16.00	\$	14,400	
104	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085	
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	4	\$	400	69	1,600	
					Total	\$	18,200	
			1	ا %10	Jnforeseen	\$	1,820	
					Subtotal	\$	20,020	
	TEMPORARY DAMAGES	AC	3.1	\$	650	\$	2,015	
			County Adm	inistra	ation Costs	\$	401	
			Тор	ograp	hic Survey	\$	801	
Reports, Plans and Specifications								
	Construction Staking & Administration							
	Total Branch D-1 Tile Improvement Cost							

## Branch E Tile

Didiicii E Tile								
Item No.	Item	Unit	Quantity	U	nit Price		Amount	
101	MOBILIZATION	LS	1	\$	460.00	\$	460	
102	TILE INVESTIGATION	HR	1	\$	106.50	\$	107	
103	12-INCH AGRICULTURAL TILE	LF	425	\$	16.75	\$	7,119	
105	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085	
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400	\$	800	
					Total	\$	9,600	
			•	10% l	Unforeseen	\$	960	
					Subtotal	\$	10,560	
	TEMPORARY DAMAGES	AC	1.5	\$	650	\$	975	
			County Adm	inistra	ation Costs	\$	212	
Topographic Survey								
Reports, Plans and Specifications								
Construction Staking & Administration								
	T	otal Brand	ch E Tile Imp	rove	ment Cost	\$	13,649	



#### **PROPOSED OPTION #2 IMPROVEMENT**

#### **Branch F Tile**

Item No.	Item	Unit	Quantity	l	Init Price		Amount		
101	MOBILIZATION	LS	1	\$	2,150.00	\$	2,150		
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320		
103	24-INCH AGRICULTURAL TILE	LF	1300	\$	29.20	\$	37,960		
105	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170		
106	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	6	\$	400	69	2,400		
	Total \$								
	10% Unforeseen								
					Subtotal	\$	49,500		
	TEMPORARY DAMAGES	AC	4.5	\$	650	\$	2,925		
			County Adm	inist	ration Costs	\$	990		
			Тор	ogra	phic Survey	\$	1,980		
	Reports, Plans and Specifications								
	Construction Staking & Administration \$								
	Ţ	otal Brand	ch F Tile Imp	rove	ement Cost	\$	62,325		

## **Branch H Open Ditch**

Item No.	ltem	Unit	Quantity	Uı	nit Price		Amount			
101	MOBILIZATION	LS	1	\$	120.00	\$	120			
102	DITCH CLEANING (4' WIDE DITCH BOTTOM)	LF	500	\$	2.00	\$	1,000			
103	16.5' BUFFER STRIP SEEDING	AC	0.38	\$	1,165	\$	441			
104	SIDESLOPE SEEDING	AC	0.23	\$	3,353	\$	770			
105	BUFFER STRIP MOWING	AC	0.38	\$	85	\$	32			
106	WEED SPRAYING	AC	0.61	\$	150	\$	91			
	Total									
			•	10% l	Jnforeseen	\$	245			
					Subtotal	\$	2,700			
	TEMPORARY DAMAGES	AC	0.4	\$	650	\$	260			
			County Adm	inistra	ation Costs	\$	54			
			Тор	ograp	hic Survey	\$	27			
Reports, Plans and Specifications										
	Construction Staking & Administration									
	Total Bra	anch H Op	en Ditch Imp	rove	ment Cost	\$	3,419			

#### Branch L Tile

Item No.	ltem	Unit	Quantity	Ur	nit Price		Amount
101	MOBILIZATION	LS	1	\$	6,710.00	\$	6,710
102	TILE INVESTIGATION	HR	9	\$	106.50	\$	959
103	24-INCH AGRICULTURAL TILE	LF	3300	\$	29.20	\$	96,360
104	18-INCH AGRICULTURAL TILE	LF	981	\$	24.60	\$	24,133
108	INSTALL DROP INTAKE (18-INCH)	EA	5	\$	1,085	\$	5,425
109	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	18	\$	400	\$	7,200
	Total \$						140,800
			1	ا %10	<b>Jnforeseen</b>	\$	14,080
					Subtotal	\$	154,880
	TEMPORARY DAMAGES	AC	14.8	\$	650	\$	9,620
			County Adm			•	3,098
			Top	ograp	hic Survey	\$	6,196
	Reports, Plans and Specifications \$						9,293
	Construction Staking & Administration \$						12,391
	Ţ	otal Brand	ch L Tile Imp	rove	ment Cost	\$	195,478



# PROPOSED OPTION #2 IMPROVEMENT Branch J Tile

Item No.	ltem	Unit	Quantity	Į	Jnit Price		Amount	
101	MOBILIZATION	LS	1	\$	12,090.00	\$	12,090	
102	TILE INVESTIGATION	HR	17	\$	106.50	\$	1,811	
103	24-INCH AGRICULTURAL TILE	LF	5950	\$	29.20	\$	173,740	
104	12-INCH AGRICULTURAL TILE	LF	1550	\$	16.75	\$	25,963	
105	10-INCH AGRICULTURAL TILE	LF	840	\$	16.00	\$	13,440	
106	CONNECT EXISTING 18-INCH TILE	EA	1	\$	871.50	\$	872	
107	CONNECT EXISTING 15-INCH TILE	EA	1	\$	644.50	\$	645	
108	CONNECT EXISTING 12-INCH TILE	EA	1	\$	494.50	\$	495	
109	CONNECT EXISTING 10-INCH TILE	EA	2	\$	447.50	\$	895	
110	CONNECT EXISTING 6-INCH TILE	EA	2	\$	281.00	\$	562	
111	INSTALL DROP INTAKE (18-INCH)	EA	9	\$	1,085	\$	9,765	
112	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	34	\$	400	69	13,600	
					Total	\$	253,900	
			,	10%	Unforeseen	\$	25,390	
					Subtotal	\$	279,290	
	TEMPORARY DAMAGES	AC	28.8	\$	650	\$	18,720	
			County Adm	inist	ration Costs	\$	5,586	
					aphic Survey		11,172 16,758	
	Reports, Plans and Specifications							
		Construc	tion Staking	& Ac	dministration	\$	22,344	
	1	otal Bran	ch J Tile Imp	rov	ement Cost	\$	353,870	

#### **Branch J-1 Tile**

Item No.	Item	Unit	Quantity	U	Init Price		Amount				
101	MOBILIZATION	LS	1	\$	3,100.00	\$	3,100				
102	TILE INVESTIGATION	HR	6	\$	106.50	\$	639				
102	15-INCH AGRICULTURAL TILE	LF	2550	\$	21.00	\$	53,550				
106	INSTALL DROP INTAKE (18-INCH)	EA	3	\$	1,085	\$	3,255				
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	11	\$	400	\$	4,400				
	Total 5										
			•	10%	Unforeseen	\$	6,500				
					Subtotal	\$	71,500				
	TEMPORARY DAMAGES	AC	8.8	\$	650	\$	5,720				
		<u>-</u>	County Adm				1,430				
			Тор	ogra	phic Survey	\$	2,860				
	Reports, Plans and Specifications										
			ction Staking				5,720				
	Tot	tal Branch	J-1 Tile Imp	rove	ement Cost	\$	91,520				



#### PROPOSED OPTION #2 IMPROVEMENT Branch J-5 Tile

Item No.	Item	Unit	Quantity	Ur	nit Price		Amount		
101	MOBILIZATION	LS	1	\$	470.00	\$	470		
102	TILE INVESTIGATION	HR	1	\$	106.50	\$	107		
103	18-INCH AGRICULTURAL TILE	LF	296	\$	24.60	\$	7,282		
104	INSTALL DROP INTAKE (18-INCH)	EA	1	\$	1,085	\$	1,085		
105	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400	\$	800		
	Total \$								
			,	10% L	Inforeseen	\$	980		
					Subtotal	\$	10,780		
	TEMPORARY DAMAGES	AC	1.1	\$	650	\$	715		
			County Adm	inistra	ation Costs	\$	216		
			Тор	ograp	hic Survey	\$	432		
	Reports, Plans and Specifications								
	Construction Staking & Administration								
	Tot	tal Branch	J-5 Tile Imp	rove	ment Cost	\$	13,653		

#### **Branch K Tile**

Mana Na	14	11:4	0		luit Duine		A			
Item No.	Item	Unit	Quantity	U	Init Price		Amount			
101	MOBILIZATION	LS	1	\$	3,020.00	\$	3,020			
102	TILE INVESTIGATION	HR	2	\$	106.50	\$	213			
103	24-INCH AGRICULTURAL TILE	LF	1350	\$	29.20	\$	39,420			
104	18-INCH AGRICULTURAL TILE	LF	625	\$	24.60	\$	15,375			
106	INSTALL DROP INTAKE (18-INCH)	EA	2	\$	1,085	\$	2,170			
107	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	8	\$	400	\$	3,200			
	Total									
			1	10%	Unforeseen	\$	6,340			
					Subtotal	\$	69,740			
	TEMPORARY DAMAGES	AC	6.9	\$	650	\$	4,485			
			County Adm	inist	ration Costs	\$	1,395			
			Top	ogra	phic Survey	\$	2,790 4,185			
	Reports, Plans and Specifications									
	Construction Staking & Administration									
	T	otal Brand	h K Tile Imp	rove	ement Cost	\$	88,175			

#### Potential Storage - 4.25 AC

	. otomua otomago .									
Item No.	Item	Unit	Quantity	J	Init Price		Amount			
101	MOBILIZATION	LS	1	\$	2,590.00	\$	2,590			
102	TILE INVESTIGATION	HR	3	\$	106.50	\$	320			
103	COMMON EXCAVATION	CY	13,769.85	\$	3.00	\$	41,310			
104	INSTALL STRUCTURE S-1 WITH GALVINIZED GRATE	LS	1	\$	3,850.00	\$	3,850			
106	RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$	62	\$	6,200			
Total										
			1	10%	Unforeseen	\$	5,430			
					Subtotal	\$	59,730			
	TEMPORARY DAMAGES	AC	6.0	\$	650	\$	3,900			
		<u>-</u>	County Adm	inistr	ration Costs	\$	1,195			
			Тор	ogra	phic Survey	\$	2,390			
Reports, Plans and Specifications										
Construction Staking & Administration										
	Total Potential	Storage -	4.25 AC Imp	rove	ement Cost	\$	75,578			



1,495,530

#### **PROPOSED OPTION #2 IMPROVEMENT**

#### **TOTAL IMPROVEMENT COST**

TOTAL INITIOVE MENT GOOT	
Main Open Ditch	\$ 217,139
Main Tile	\$ 216,911
Branch B Tile	\$ 22,621
Branch C Tile	\$ 31,055
Branch D Tile	\$ 87,515
Branch E Tile	\$ 26,041
Branch F Tile	\$ 13,649
Branch H Open Ditch	\$ 62,325
Branch L Tile	\$ 195,478
Branch J Tile	\$ 353,870
Branch J-1 Tile	\$ 91,520
Branch J-5 Tile	\$ 13,653
Branch K Tile	\$ 88,175
Potential Storage - 4.25 AC	\$ 75,578

COMPLETE IMPROVEMENT COST \$



#### **ROAD CROSSING SUMMARY - OPTION #1**

	• • • • • • • • • • • • • • • • • • • •	07.2 0.1001										
Crossing	Road Authority	Repair Cost With Road	Repair Cost Without Road	Improvement Cost	Road Authority Cost (Difference of Repair Cost With Road and Repair Cost Without Road)	Damages Paid To Road Authority (Difference of Improvement Cost and Road Authority Cost)						
	MAIN											
County Road 5	COUNTY	\$ 20,192	\$ 3,065	\$ 21,492	\$ 17,127	\$ 4,365						
TOTAL		\$ 20,192	\$ 3,065	\$ 21,492	\$ 17,127	\$ 4,365						
STATE ROAD AUTHORITY	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -						
COUNTY ROAD AUTHORIT	Y TOTAL	\$ 20,192	\$ 3,065	\$ 21,492	\$ 17,127	\$ 4,365						
TOWNSHIP ROAD AUTHOR	IY TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -						

#### ROAD CROSSING SUMMARY - OPTION #2

Crossing	Road Authority	epair Cost Vith Road	Repair Cost Without Road						Road Authority Cost ifference of Repair Cost th Road and Repair Cost Without Road)	Aı İn	amages Paid To Road uthority (Difference of nprovement Cost and Road Authority Cost)
			MAIN								
County Road 5	COUNTY	\$ 20,192	\$ 3,065	\$	21,492	\$	17,127	\$	4,365		
			BRANCH J								
County Road 5	COUNTY	\$ 20,192.00	\$ 3,064.91	\$	21,492.00	\$	17,127.09	\$	4,364.91		
County Road 6	COUNTY	\$ 19,917.00	\$ 2,756.91	\$	21,492.00	\$	17,160.09	\$	4,331.91		
County Road 6	COUNTY	\$ 11,412.00	\$ 2,161.91	\$	19,917.00	\$	9,250.09	\$	10,666.91		
TOTAL		\$ 71,713	\$ 11,049	\$	84,393	\$	60,664	\$	23,729		
STATE ROAD AUTHOR	TY TOTAL	\$ -	\$ -	\$	-	\$	-	\$	-		
COUNTY ROAD AUTHOR	RITY TOTAL	\$ 71,713	\$ 11,049	\$	84,393	\$	60,664	\$	23,729		
TOWNSHIP ROAD AUTHORIY TOTAL		\$ -	\$ -	\$	-	\$	-	\$			



## **ROAD CROSSINGS**

#### MAINLINE TILE REPAIR COST WITH ROAD - COUNTY ROAD 5

Item No.	Item	Unit	Quantity	Unit Price		Amount	
101	MOBILIZATION	LS	1	\$ 800.00	\$	800	
102	BORE 18-INCH TILE	LF	50	\$ 255.00	\$	12,750	
103	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170	
	TOTAL \$						
			10% C	ONTINGENCY	\$	1,572	
				SUBTOTAL	\$	17,292	
		С	ounty Admin	istration Costs	\$	400	
		Report	s, Plans and	Specifications	\$	1,100	
		Construction	n Staking &	Administration	\$	1,400	
	ESTIMATED MAINLINE TILE REPAIR (	COST WITH I	ROAD - COL	JNTY ROAD 5	\$	20,192	

#### MAINLINE TILE REPAIR WITHOUT ROAD - COUNTY ROAD 5

Item No.	Item	Unit	Quantity	Unit Price		Amount
201	MOBILIZATION	LS	1	\$ 200.00	\$	200
202	18-INCH AGRICULTURAL TILE	LF	50	\$ 24.60	\$	1,230
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 400.00	\$	800
TOTAL						
10% CONTINGENCY						223
				SUBTOTAL	\$	2,453
		Co	ounty Admin	istration Costs	\$	100
		Reports	s, Plans and	Specifications	\$	200
Construction Staking & Administration						
TEMPORARY DAMAGES AC 0.17 \$ 650						112
ESTIMATED MAINLINE TILE REPAIR WITHOUT ROAD - COUNTY ROAD 5						

#### **MAINLINE TILE IMPROVEMENT COST - COUNTY ROAD 5**

Item No.	ltem	Unit	Quantity	Unit Price		Amount
301	MOBILIZATION	LS	1	\$ 800.00	\$	800
302	BORE 24-INCH TILE	LF	50	\$ 275.00	\$	13,750
303	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
				TOTAL	\$	16,720
			10% C	ONTINGENCY	\$	1,672
				SUBTOTAL	\$	18,392
		С	ounty Admin	istration Costs	\$	400
Reports, Plans and Specifications						1,200
Construction Staking & Administration						1,500
	ESTIMATED MAINLINE TILE IMPR	ROVEMENT	COST - COL	JNTY ROAD 5	\$	21,492



#### **ROAD CROSSINGS**

#### **BRANCH J TILE REPAIR COST WITH ROAD - COUNTY ROAD 5**

Item No.	Item	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 800.00	\$	800
102	BORE 18-INCH TILE	LF	50	\$ 255.00	\$	12,750
103	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
	TOTAL					
			10% C	ONTINGENCY	\$	1,572
				SUBTOTAL	\$	17,292
		С	ounty Admin	istration Costs	\$	400
Reports, Plans and Specifications						1,100
Construction Staking & Administration					\$	1,400
	ESTIMATED BRANCH J TILE REPAIR COST WITH ROAD - COUNTY ROAD 5					

#### BRANCH J TILE REPAIR WITHOUT ROAD - COUNTY ROAD 5

Item No.	Item	Unit	Quantity	Uni	Unit Price		Amount
201	MOBILIZATION	LS	1	\$	200.00	\$	200
202	18-INCH AGRICULTURAL TILE	LF	50	\$	24.60	\$	1,230
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$	400.00	\$	800
					TOTAL	\$	2,230
	10% CONTINGENCY						
				SUI	BTOTAL	\$	2,453
		Co	ounty Admin	istrati	on Costs	\$	100
		Reports	, Plans and	Spec	ifications	\$	200
Construction Staking & Administration							200
TEMPORARY DAMAGES AC 0.17 \$ 650							112
ESTIMATED BRANCH J TILE REPAIR WITHOUT ROAD - COUNTY ROAD 5							3,065

#### **BRANCH J TILE IMPROVEMENT COST - COUNTY ROAD 5**

Item No.	Item	Unit	Quantity	Unit Price		Amount	
301	MOBILIZATION	LS	1	\$ 800.00	\$	800	
302	BORE 24-INCH TILE	LF	50	\$ 275.00	\$	13,750	
303	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170	
TOTAL						16,720	
			10% C	ONTINGENCY	\$	1,672	
				SUBTOTAL	\$	18,392	
		С	ounty Admin	istration Costs	\$	400	
Reports, Plans and Specifications						1,200	
Construction Staking & Administration					\$	1,500	
ESTIMATED BRANCH J TILE IMPROVEMENT COST - COUNTY ROAD 5						21,492	



#### **ROAD CROSSINGS**

#### BRANCH J TILE REPAIR COST WITH ROAD - COUNTY ROAD 6

Item No.	ltem	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 800.00	\$	800
102	BORE 15-INCH TILE	LF	50	\$ 250.00	\$	12,500
103	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
	TOTAL					
			10% C	ONTINGENCY	\$	1,547
				SUBTOTAL	\$	17,017
		C	ounty Admin	istration Costs	\$	400
Reports, Plans and Specifications						1,100
Construction Staking & Administration					\$	1,400
	ESTIMATED BRANCH J TILE REPAIR C	OST WITH F	ROAD - COL	JNTY ROAD 6	\$	19,917

#### BRANCH J TILE REPAIR WITHOUT ROAD - COUNTY ROAD 6

Item No.	ltem	Unit	Quantity	Unit Price		Amount
201	MOBILIZATION	LS	1	\$ 100.00	\$	100
202	15-INCH AGRICULTURAL TILE	LF	50	\$ 21.00	\$	1,050
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 400.00	\$	800
				TOTAL	\$	1,950
	10% CONTINGENCY					
				SUBTOTAL	\$	2,145
		Co	ounty Admin	istration Costs	\$	100
		Reports	s, Plans and	Specifications	\$	200
Construction Staking & Administration						
TEMPORARY DAMAGES AC 0.17 \$ 650						
ESTIMATED BRANCH J TILE REPAIR WITHOUT ROAD - COUNTY ROAD 6						

#### **BRANCH J TILE IMPROVEMENT COST - COUNTY ROAD 6**

Item No.	Item	Unit	Quantity	Unit Price		Amount
301	MOBILIZATION	LS	1	\$ 800.00	\$	800
302	BORE 24-INCH TILE	LF	50	\$ 275.00	\$	13,750
303	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
	TOTAL					
			10% C	ONTINGENCY	\$	1,672
				SUBTOTAL	\$	18,392
		С	ounty Admin	istration Costs	\$	400
Reports, Plans and Specifications						1,200
Construction Staking & Administration					\$	1,500
	ESTIMATED BRANCH J TILE IMPI	ROVEMENT	COST - COL	JNTY ROAD 6	\$	21,492



#### **ROAD CROSSINGS**

#### BRANCH J TILE REPAIR COST WITH ROAD - COUNTY ROAD 6

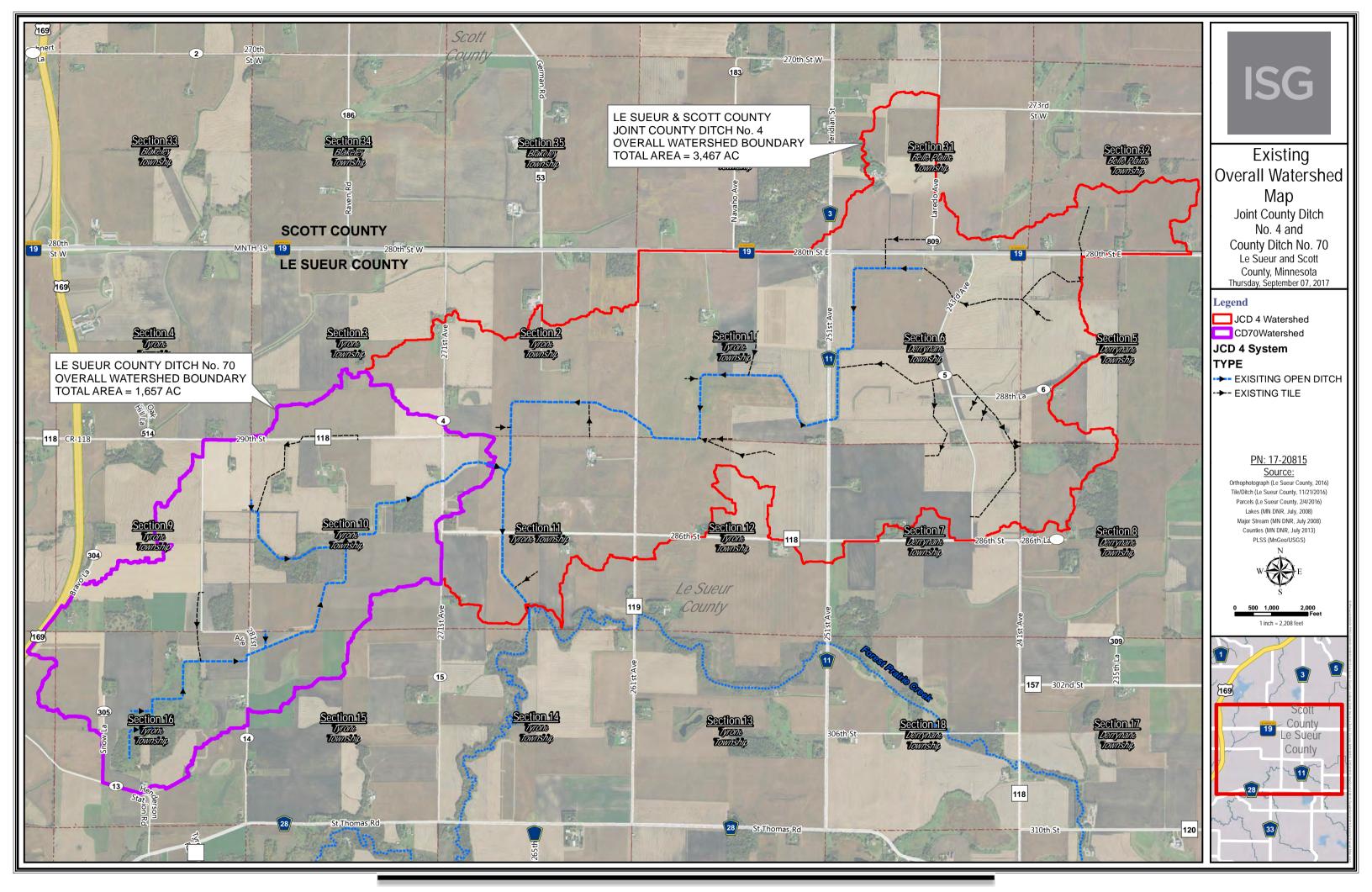
Item No.	Item	Unit	Quantity	Unit Price		Amount
101	MOBILIZATION	LS	1	\$ 500.00	\$	500
102	BORE 6-INCH TILE	LF	50	\$ 125.00	\$	6,250
103	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170
	TOTAL					
			10% C	ONTINGENCY	\$	892
				SUBTOTAL	\$	9,812
		C	ounty Admin	istration Costs	\$	200
Reports, Plans and Specifications						600
Construction Staking & Administration					\$	800
ESTIMATED BRANCH J TILE REPAIR COST WITH ROAD - COUNTY ROAD 6						11,412

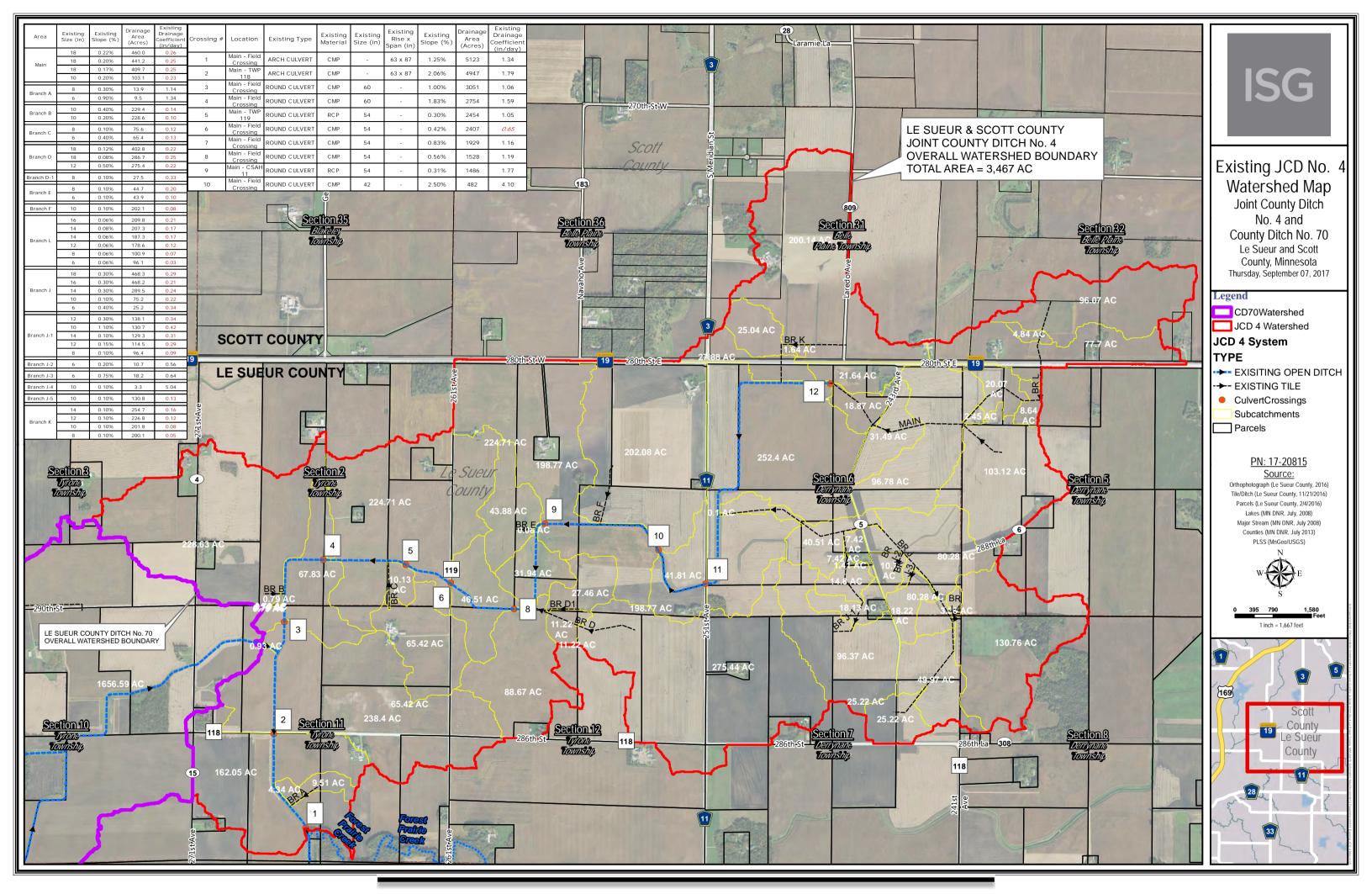
#### BRANCH J TILE REPAIR WITHOUT ROAD - COUNTY ROAD 6

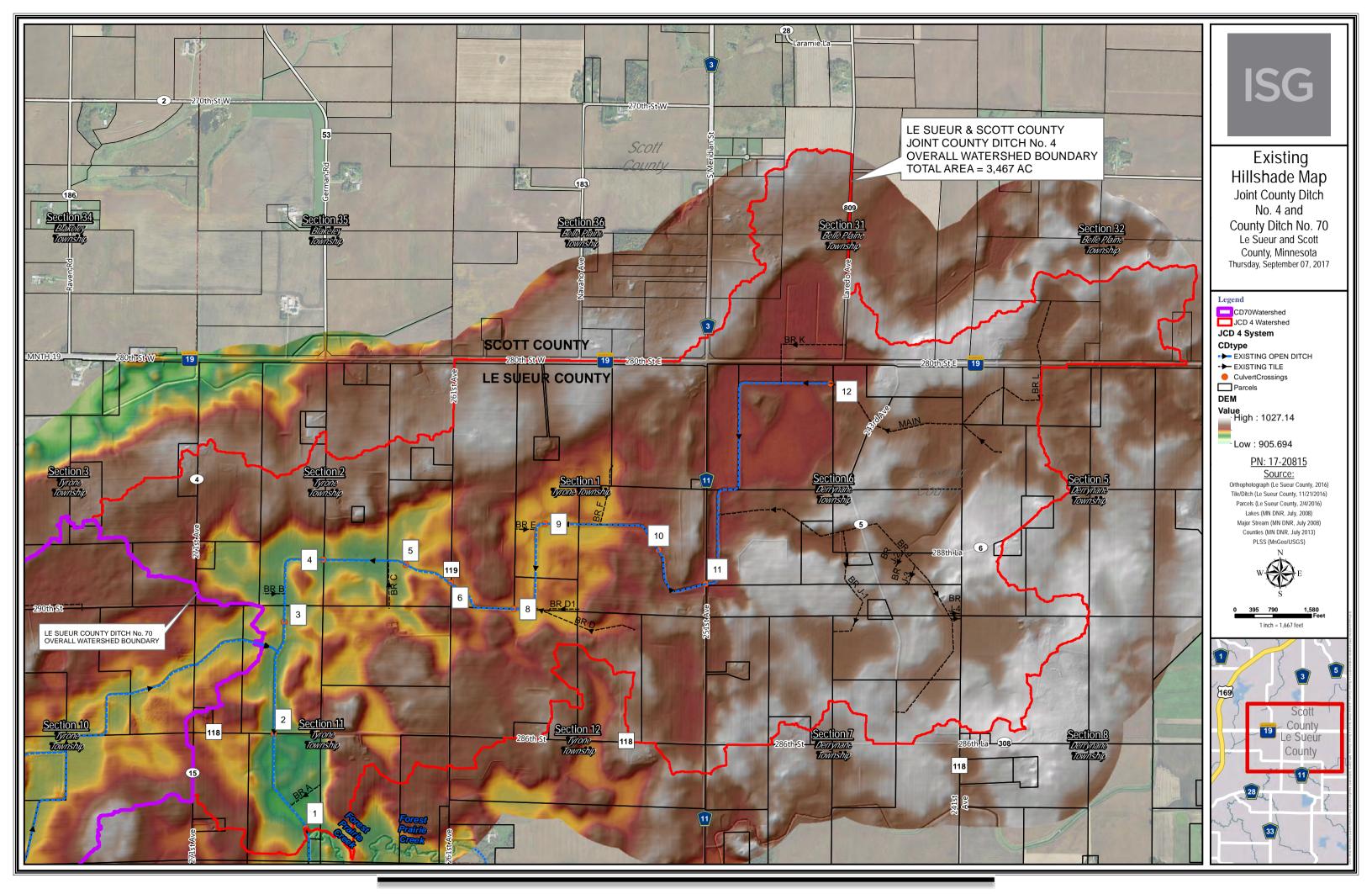
Item No.	ltem	Unit	Quantity	Unit Price		Amount	
201	MOBILIZATION	LS	1	\$ 100.00	\$	100	
202	6-INCH AGRICULTURAL TILE	LF	50	\$ 12.00	\$	600	
203	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 400.00	\$	800	
				TOTAL	\$	1,500	
	10% CONTINGENCY						
				SUBTOTAL	\$	1,650	
		Co	ounty Admin	istration Costs	\$	100	
		Reports	s, Plans and	Specifications	\$	100	
Construction Staking & Administration							
TEMPORARY DAMAGES AC 0.17 \$ 650						112	
	ESTIMATED BRANCH J TILE REPAIR WITHOUT ROAD - COUNTY ROAD 6						

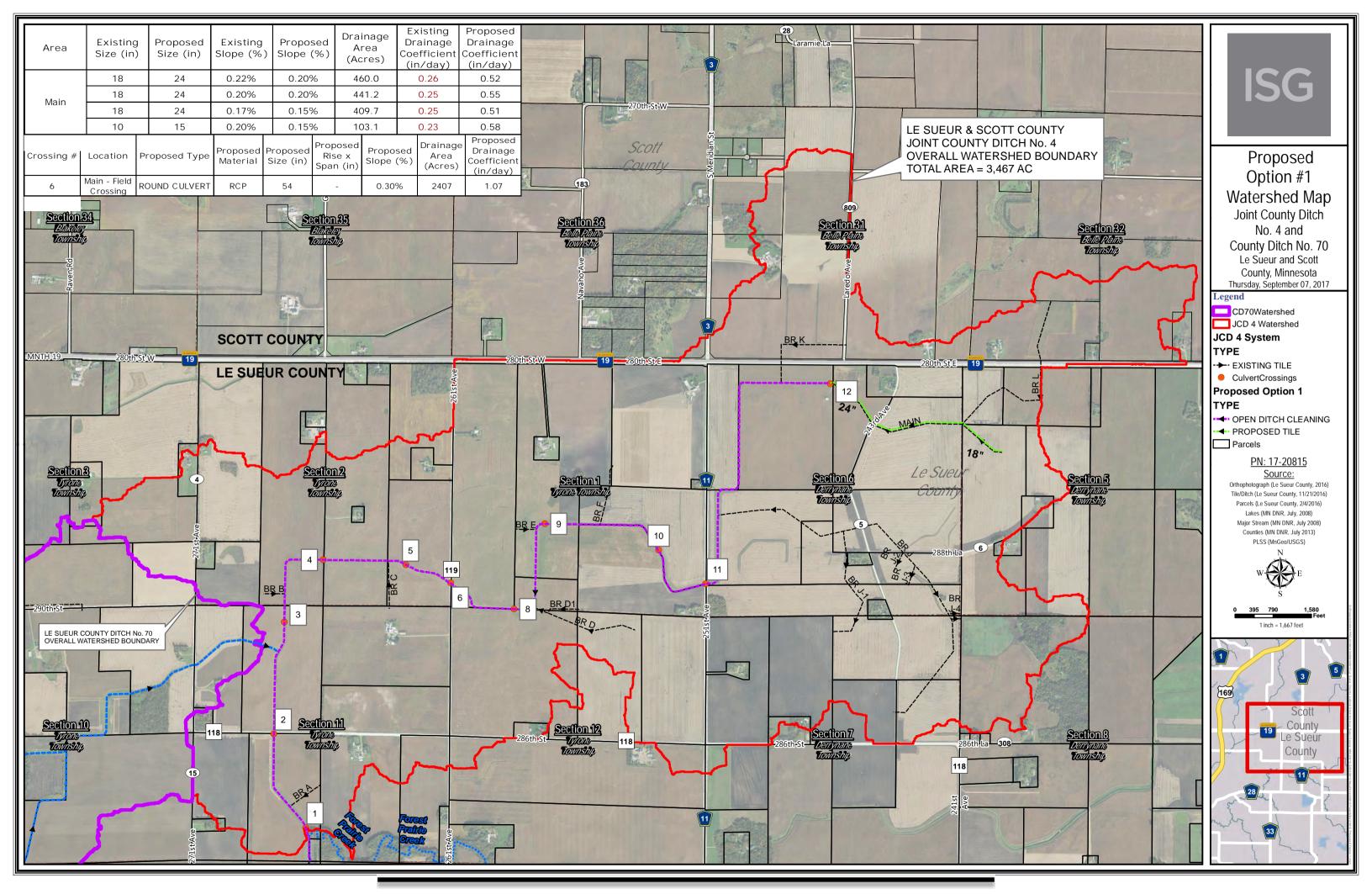
#### **BRANCH J TILE IMPROVEMENT COST - COUNTY ROAD 6**

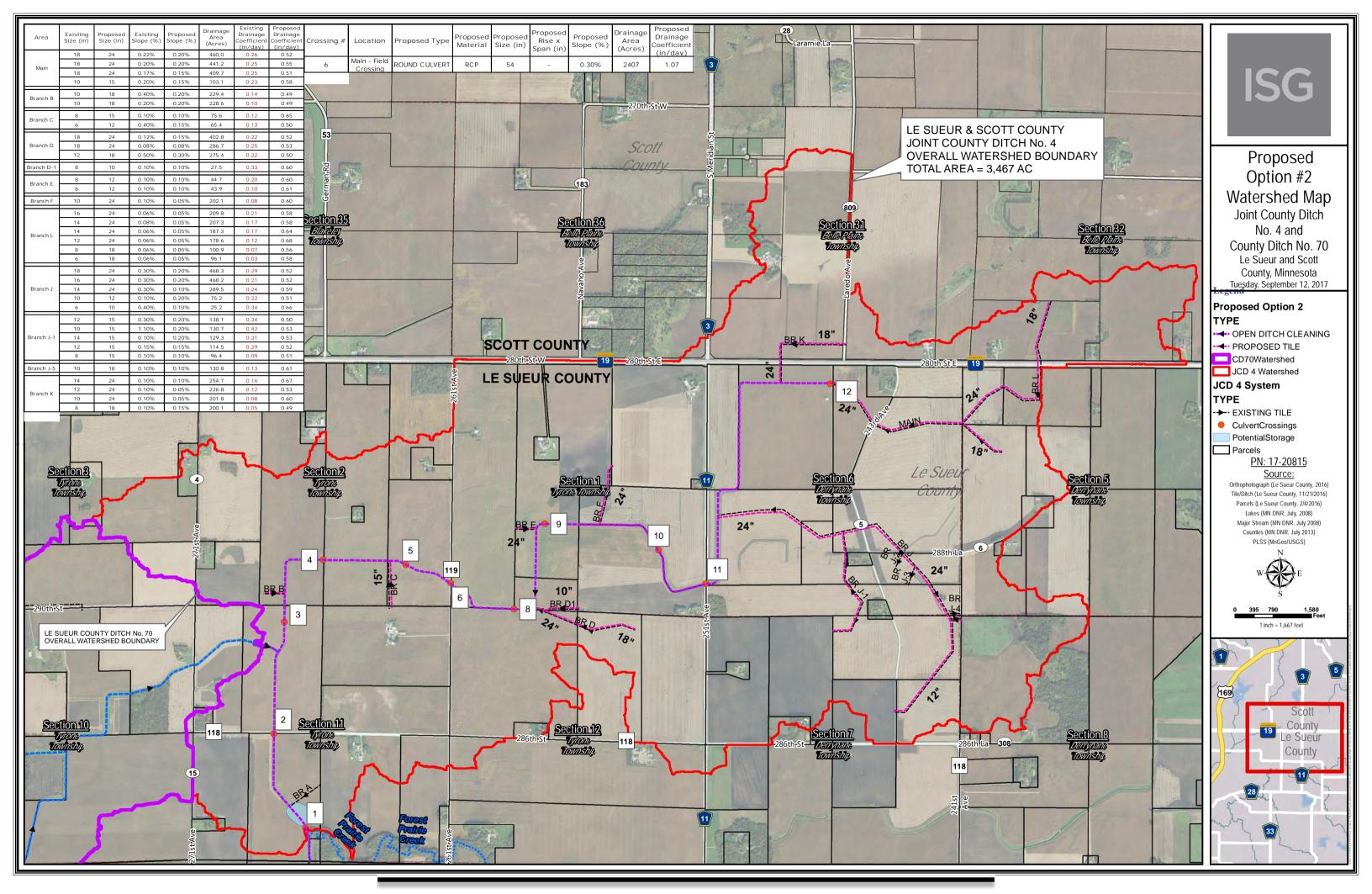
Item No.	Item	Unit	Quantity	Unit Price		Amount	
301	MOBILIZATION	LS	1	\$ 800.00	\$	800	
302	BORE 15-INCH TILE	LF	50	\$ 250.00	\$	12,500	
303	INSTALL DROP INTAKE (18-INCH)	EA	2	\$ 1,085.00	\$	2,170	
	TOTAL						
			10% C0	ONTINGENCY	\$	1,547	
				SUBTOTAL	\$	17,017	
		С	ounty Admin	istration Costs	\$	400	
Reports, Plans and Specifications						1,100	
Construction Staking & Administration						1,400	
	ESTIMATED BRANCH J TILE IMPF	ROVEMENT (	COST - COL	JNTY ROAD 6	\$	19,917	













**Tuesday, September 26, 2017 Board Meeting** 

### Item 6

9:40 a.m. Pam Simonette, Auditor - Treasurer (5 min)

**RE: Tax Forfeiture Auction properties** 

On motion by	, seconded by	and approved, the
following resolution	was adopted:	

BE IT RESOLVED, that all parcels of tax-forfeited land listed on the List of Tax-Forfeited Land be classified as nonconservation land; that the basic sale price of each parcel on the List of Tax-Forfeited Land, which is on file with the Le Sueur County Auditor, be approved and authorization for a public sale of this land be granted, pursuant to M.S. 282.01; that the sale will be held at 10:00 A.M., Monday, October 23rd, 2017 by the Le Sueur County Auditor-Treasurer at the Le Sueur County Auditor-Treasurer's Office, 88 S Park Ave, Le Center MN 56057 for not less than the basic sale price.

PARCEL TWP OR CITY LOT/BLOCK BASIC SUBDIVISION SALE PRICE

06.006.0500 KILKENNY TOWNSHIP BEGINNING AT A POINT \$100.00

658.50 FEET NORTH AND 1161.17 FEET WEST OF THE CENTER OF SECTION NUMBER 6, TOWNSHIP NUMBER 110 NORTH, RANGE NUMBER 23 WEST, LE SUEUR COUNTY, MINNESOTA, THENCE NORTH 76 DEGREES 10' WEST 50.77 FEET TO PLACE OF **BEGINNING: THENCE SOUTH 76** DEGREES 10' EAST 591.77 FEET MORE OR LESS TO THE WESTERLY END OF A COUNTY ROAD BUILT ON A TRACT OF LAND AS DESCRIBED IN DEED RECORD NO. 112, PAGE 234, NOW ON FILE IN THE OFFICE OF THE REGISTER OF DEEDS OF LE SUEUR COUNTY. SAID ABOVE DESCRIBED LINE BEING THE CENTER LINE OF A ROADWAY 39.00 FEET IN WIDTH.

(Private sale only)

15.015.7600	CLEVELAND CITY	THAT PART OF SW 1/4 \$25,000.00 OF SW 1/4 OF SEC 15 & OF SE 1/4 OF SE 1/4 SEC 16, BEG AT POINT ON C. L. OF TH #99 WHICH IS 151 FT N OF SW COR OF SEC 15, TH SW ALONG C. L. 109.21 FT TO INT. WITH C.R. #15, TH N ALONG C.L. OF CO. RD.#15 251.86 FT, E 215 FT, SE 35.35 FT, S 177.82 FT TO C.L. OF TH #99 TH SW ALONG SAID C.L. 135.75 FT TO BEG, SEC 15 & 16, TOWNSHIP 110, RANGE 25 1.24 AC.
21.680.0470	LE SUEUR CITY	LOT 13, BLOCK 49, RISEDORPH ADDN. \$10,000.00
22.480.0630	MONTGOMERY CITY	LOT 5, BLOCK 4, \$45,000.00 COLUMBIA HEIGHTS ADDITION
24.450.0450	WATERVILLE CITY	W 40 FT OF LOT 1, BLOCK 7, \$250.00 BROWN ADDITION (Private Sale Only)
24.510.0410	WATERVILLE CITY	E 8 FT OF LOT 9 & W 18 FT \$30,000.00 OF LOT 10 LESS N 65 FT, BLOCK 8, CITY OF WATERVILLE
24,510.0890	WATERVILLE CITY	N 57 FT OF W 13 ½ FT LOT 3 \$1.00 BLOCK 13 & 4 ½ X 14 FT ADJOINING ON SE, CITY OF WATERVILLE

BE IT FURTHER RESOLVED that the conditions and terms of the public sale shall be described as herein and approved by the Le Sueur County Board of Commissioners.

#### Public Sales: Basic Sale Price

All parcels are offered at public auction and sold to the highest bidder. The minimum bid acceptable is the basic sale price that is shown on the list of tax-forfeited land. The basic sale price is equal to the appraised value.

#### Extra Fees and Costs: In Addition to the Basic Sale Price

A 3% surcharge for the state assurance account and a state deed fee of \$25.00 will be collected at the time of the sale.

#### Payment Terms: Cash or Contract

Sale of \$1,500 or less Full payment at sale

Sale of \$1,501 or more 10% down; balance in 10 equal, annual installments

#### Contract Sales: Installments and Interest

Installments and interest on all deferred payments are due on the anniversary date of the purchase. The entire unpaid balance of the basic sale price and the accrued interest may be paid any time before the final installment becomes due. The annual interest rate is computed per M.S. 270.75, Subd. 5. (4% for 2011, but subject to change each year.)

Contracts may be canceled by the County Board for the following reasons: (1) failure to pay an installment and interest when due, and (2) failure to pay current taxes during the time of contract.

#### Special Assessments: Levied Before Forfeiture

The balance of any special assessments that were levied before forfeiture and canceled at forfeiture are not included in the basic sale price and may be reassessed by the municipality.

#### Private Sales: Parcels Not Sold at Public Auction

Any parcel not sold at public sale may be purchased after the public sale by paying the basic sale price. The basic sale price cannot be changed until the parcel is reappraised, republished, and again offered at a later public sale.

#### Title: Proof of Ownership

The buyer will receive a receipt at the time of sale. The Department of Revenue will issue a state quitclaim deed after full payment is made. A state deed has the characteristics of a patent from the State of Minnesota.



**Tuesday, September 26, 2017 Board Meeting** 

Item 7

**Commissioner Committee Reports** 



**Tuesday, September 26, 2017 Board Meeting** 

Item 8

**Future Meetings List** 

# Future Meetings September - October 2017

#### September

Tuesday, September 26, 2017 Board Meeting, 9:00 a.m.

\*Park Board Work Session, 9:45 a.m.
\*West Jefferson Work Session, 10:30 a.m.

**October** 

Tuesday, October 3, 2017 Board Meeting, 9:00 a.m.

\*County Ditch 42 Public Hearing, 10:00 a.m.

Thursday, October 12, 2017 P&Z Meeting, 7:00 p.m. at Environmental Services

Tuesday, October 17, 2017 Board Meeting, 9:00 a.m.

\*Buffer Ordinance Public Hearing, 11:00 a.m.

Thursday, October 19, 2017 Board of Adjustment Meeting, 3:00 p.m. at Environmental Services

Tuesday, October 24, 2017 Board Meeting, 9:00 a.m.

<u>November</u>

Tuesday, November 7, 2017 Board Meeting, 9:00 a.m.

\*CHB Meeting, 1:00 p.m. in Waterville

Thursday, November 9, 2017 P&Z Meeting, 7:00 p.m. at Environmental Services

Friday, November 10, 2017 Offices Closed – Veteran's Day

Thursday, November 16, 2017 Board of Adjustment Meeting, 3:00 p.m. at Environmental Services

Tuesday, November 21, 2017 Board Meeting, 9:00 a.m.

November 23-24, 2017 Offices Closed – Thanksgiving Holiday

Tuesday, November 28, 2017 Board Meeting, 9:00 a.m.

Thursday, November 30, 2017 Final Redetermination Hearings, 10:00 a.m.

County Ditches 19, 28, 42, 52 and 69



**Tuesday, September 26, 2017 Board Meeting** 

Item 9

9:45 a.m. Parks Board Workshop



**Tuesday, September 26, 2017 Board Meeting** 

Item 10

10:30 a.m. West Jefferson Work Session