

Information for File #2013-00566-ERH

Applicant: Sibley County Ditch Authority, Jeff Majeski

Corps Contact: Eric Hanson

Address: 180 5th Street East, Suite 700 St. Paul, MN 55101

E-Mail: eric.r.hanson@usace.army.mil

Phone: (651) 290-5386

Primary County: Sibley

Sections: 23, 24, 25, 26 and 27

Township: 114N

Range: 25W

Information Complete on: September 30, 2014

Posting Expires: October 17, 2014

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project Description and Purpose:

The Sibley County Drainage Authority proposes to improve a portion of an existing private drainage ditch system located in Sections 23, 24, 25, 26 and 27 and incorporate the new drainage system (County Ditch 70) into the Sibley County drainage ditch system.

Existing Conditions

Existing conditions consist of 8,328 linear feet of existing open ditch that run meandering west to east/northeast through land that is primarily agricultural. The existing ditch ranges in depth from about 4 feet to 11 feet deep, with sideslopes at 1.5: 1 to 2:1, and a bottom width that varies from 4 feet to 8 feet. The portion of the private ditch to be established as a county ditch is bounded on the upstream end by 265th Avenue and on the downstream end by 200th Street. The existing ditch continues for approximately 0.8 miles downstream of 200th Street before crossing under Market

Avenue into Carver County. Along the length of the ditch there are: 3 road crossings, one field crossing, and approximately 220 feet of 36-inch pipe running beneath a private airstrip.

Proposed Improvements

Proposed improvements would include modifying the bottom elevation to a constant grade between the downstream invert of the road crossing at 265th Avenue to the upstream invert of the road crossing at 200th Street. Since most of the existing ditch system is already at or below the required grade (5400 linear feet), only the section between the field crossing at station 67+19 and 95+86 requires modification of the bottom elevation, and an average of 11 inches of material would be removed along this stretch to achieve the proposed constant grade. In addition, the existing 42-inch road culvert crossing at CSAH 14 would be lowered 1.9 feet to accommodate the new constant grade, a 36-inch field crossing at station 96+15 would be removed and not replaced, and 4270 linear feet of non-perforated drainage tile ranging in size from 8-18 inches would be installed upstream of the road crossing at 265th Avenue.

Additional Objectives

Additional objectives of the proposal are to provide a tile outlet to approximately 15 acres of the Mark Laabs property located in the southwest quarter of the northeast quarter of section 27, intercept the discharge on Steve Morrison's property from the private tile system that drains approximately 50 acres, and provide a subsurface drainage/outlet for the remaining area of the watershed upstream of 265th Avenue (approximately 270 acres).

Name, Area and Types of Waters (Including Wetlands) Subject to loss:

Proposed aquatic resource impacts would include the discharge of dredged or fill material consequential to the excavation and regrading activities along 2900 linear feet of the existing drainage ditch as described above. No wetland impacts are proposed.

Alternatives Considered:

Due to the nature of the project, there are no feasible off-site alternatives that would have the same drainage benefits for the local landowners and therefore would not meet the applicant's objectives.

On-site configuration alternatives would be cost-prohibitive because the current proposal only plans minor modifications to a small portion of an existing ditch system, which would be substantially cheaper than constructing new ditch sections. Therefore, alternative on-site configurations were dismissed.

The "No Permit" alternative for this project was considered for this proposal and dismissed because the lack of a permit would not prevent private individuals from constructing similar drainage systems either individually or cumulatively without restriction. Under the County's proposal, final ditch dimensions and tile sizes would be fixed and any additional drainage features added to the system would require authorization from the County Drainage Authority and other state and federal regulatory authorities.

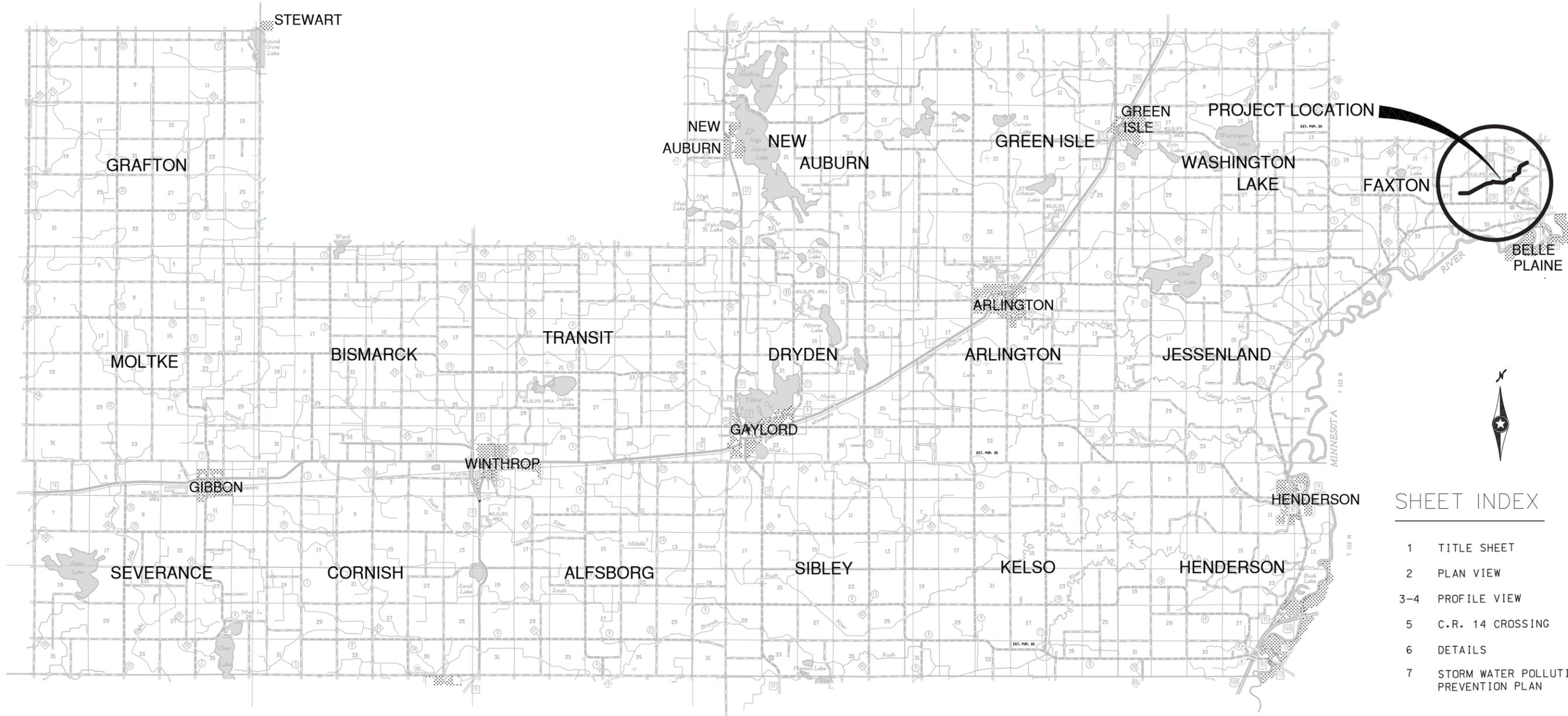
Compensatory Mitigation:

Current St. Paul District Policy does not require compensatory mitigation for the proposed project.

Drawings: MVP-2014-00931-ERH, Figure 1 of 7 through Figure 7 of 7.

BIDDING DOCUMENTS

CONSTRUCTION PLANS FOR ESTABLISHMENT OF SIBLEY COUNTY DITCH NO. 70 IN SEC. 24, 25, 26, & 27, T114, R25 FAXON TWP. SIBLEY COUNTY, MINNESOTA



SHEET INDEX

- 1 TITLE SHEET
- 2 PLAN VIEW
- 3-4 PROFILE VIEW
- 5 C.R. 14 CROSSING
- 6 DETAILS
- 7 STORM WATER POLLUTION PREVENTION PLAN

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS", - CURRENT EDITION.

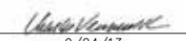
THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

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DRAWN BY:	SJP
DESIGNER:	CJV
CHECKED BY:	CJV
DESIGN TEAM	

NO.	BY	DATE	REVISIONS

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


 CHARLES VERMEERSCH, P.E.
 Lic. No. 43842
 Date: 9/24/13

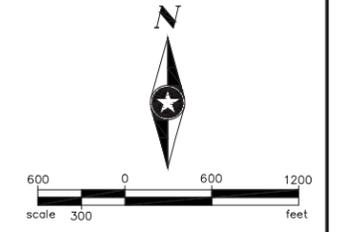

 PHONE: 507.388.1989
 12 CIVIC CENTER PLZ STE 2088
 MANKATO, MN 56001-7787
 www.sehinc.com

**SIBLEY COUNTY,
MINNESOTA**

TITLE
 ESTABLISHMENT OF SIBLEY CD 70
 IN SEC. 24,25,26 & 27, T114, R25

FILE NO.
SIBLC 122958

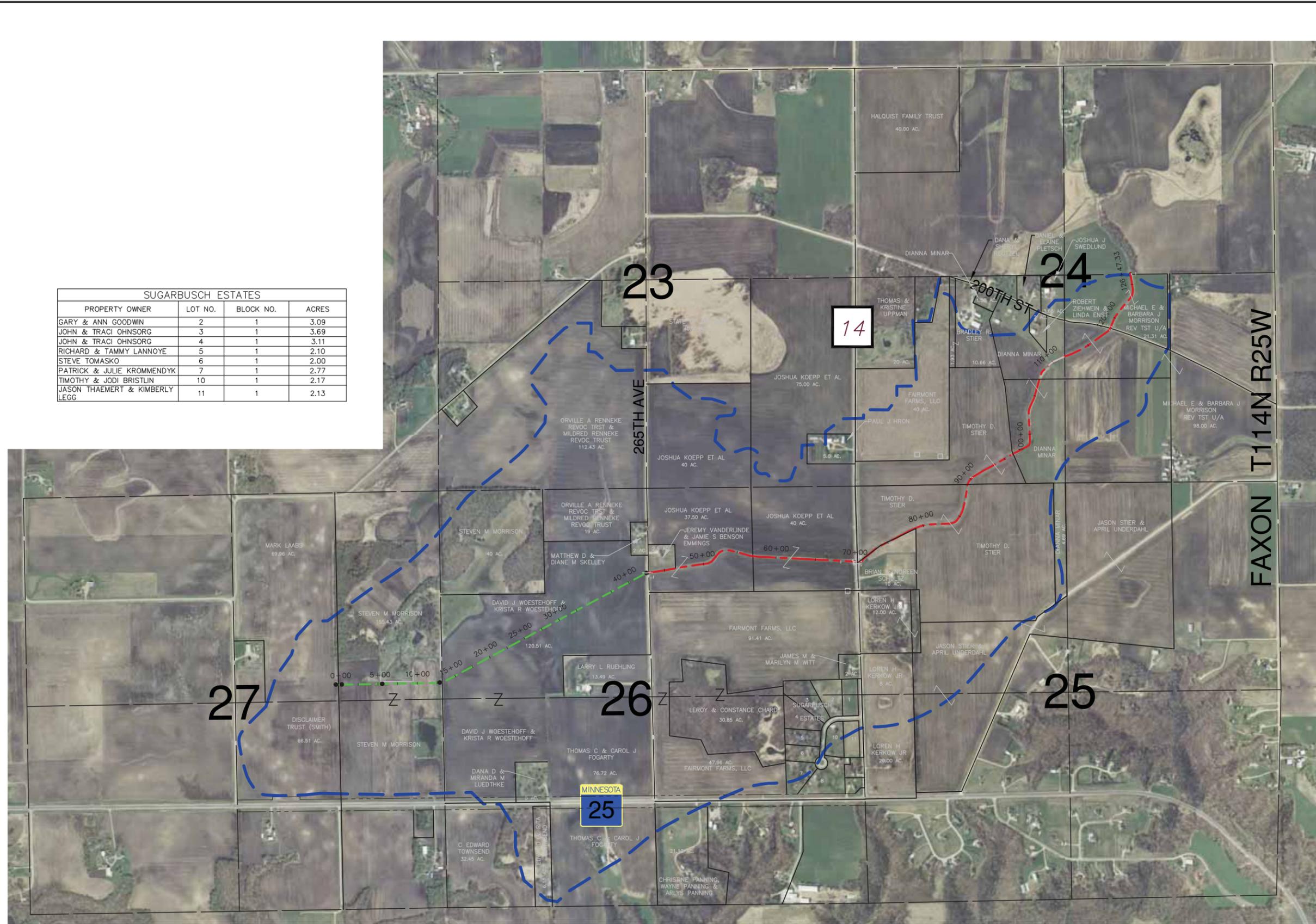
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LEGEND

- SECTION LINES
- EXISTING OPEN DITCH
- PROPOSED TILE
- WATERSHED
- PROPERTY LINE
- PROPOSED NEW TILE INLET
- C.S.A.H.
- TRUNK HWY

SUGARBUSCH ESTATES			
PROPERTY OWNER	LOT NO.	BLOCK NO.	ACRES
GARY & ANN GOODWIN	2	1	3.09
JOHN & TRACI OHNSORG	3	1	3.69
JOHN & TRACI OHNSORG	4	1	3.11
RICHARD & TAMMY LANNOYE	5	1	2.10
STEVE TOMASKO	6	1	2.00
PATRICK & JULIE KROMMENDYK	7	1	2.77
TIMOTHY & JODI BRISTLIN	10	1	2.17
JASON THAEMERT & KIMBERLY LEGG	11	1	2.13



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DESIGNER: CJV				
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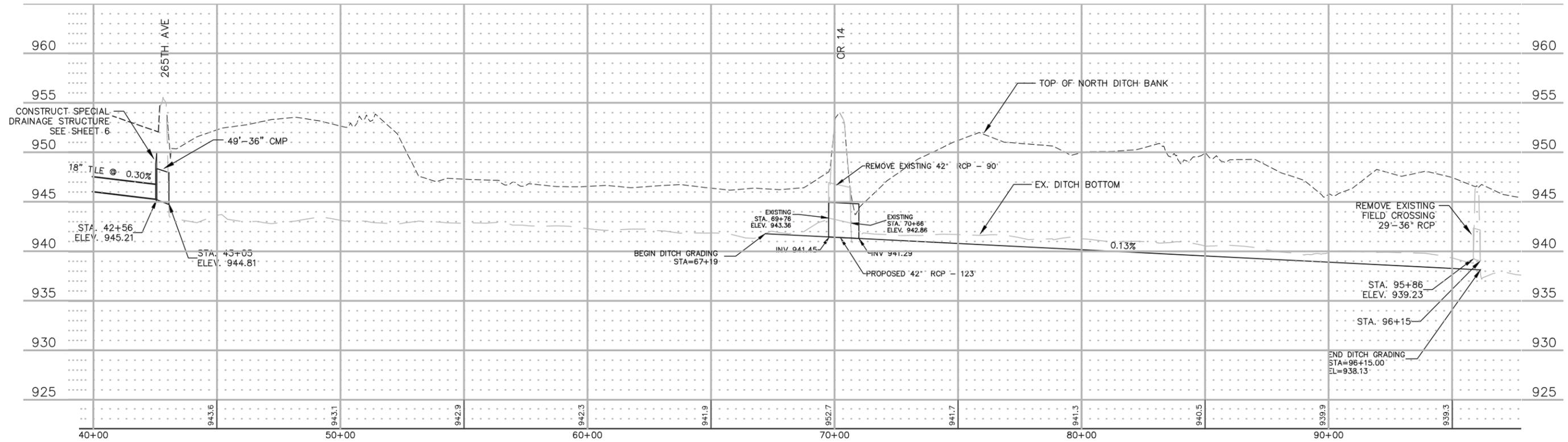
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SIBLEY COUNTY,
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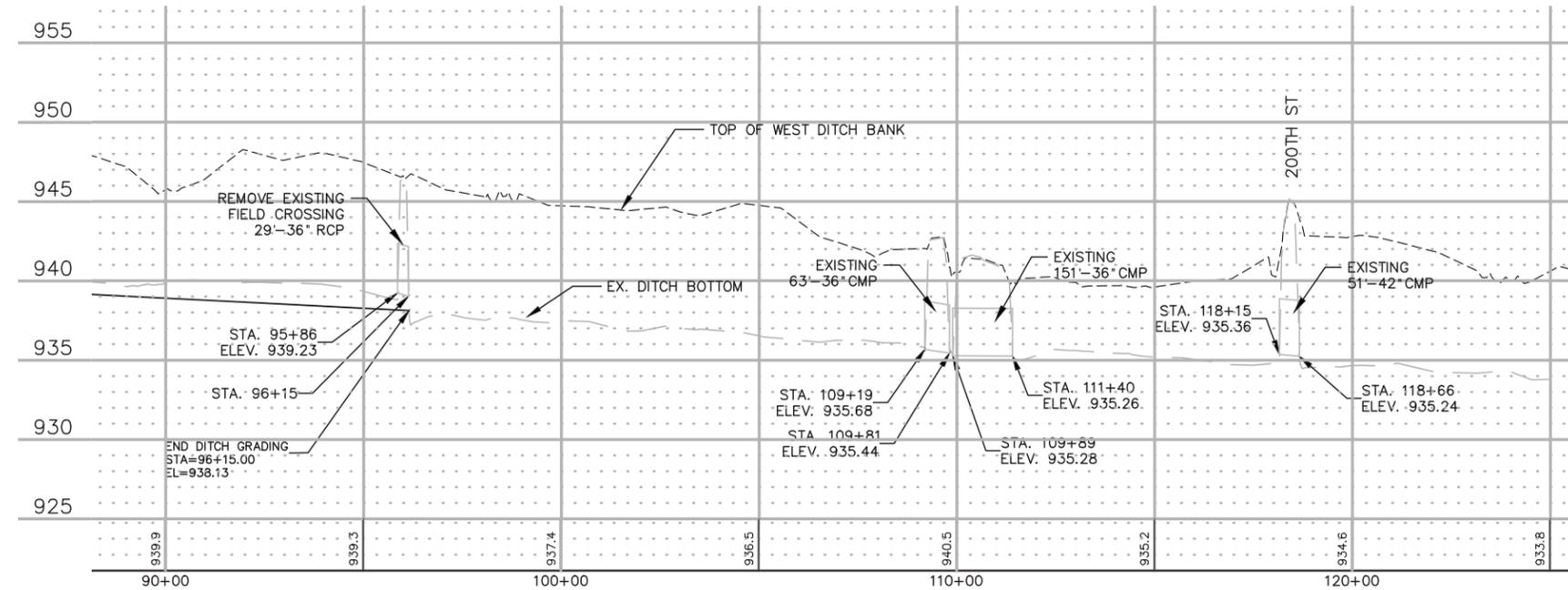
PLAN VIEW
ESTABLISHMENT OF SIBLEY CD 70
IN SEC. 24,25,26 & 27, T114, R25

FILE NO.
SIBLC 122958

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EXISTING TILE INLETS		
STATION	ELEVATION	SIZE/TYPE
43+32	945.3	10" CMP
69+13	944.15	10" CMP
69+58	943.29	10" CMP
70+71	944.06	6" CORRUGATED PLASTIC
71+54	944.09	6" CMP
79+83	945.46	6" CORRUGATED PLASTIC
83+52	943.63	6" CMP
83+89	944.66	6" CORRUGATED PLASTIC
84+79	945.76	10" CORRUGATED PLASTIC
87+54	942.56	15" CORRUGATED PLASTIC
89+71	942.21	5" CORRUGATED PLASTIC
90+25	941.78	8" CMP
95+80	942.04	6" CORRUGATED PLASTIC
103+19	939.83	10" CMP
107+25	938.46	6" CMP
111+65	938.85	6" CMP
115+83	936.48	6" CMP
116+67	936.48	10" CMP
117+86	937.44	6" CMP
119+46	938.78	6" CMP
123+14	937.11	6" CMP



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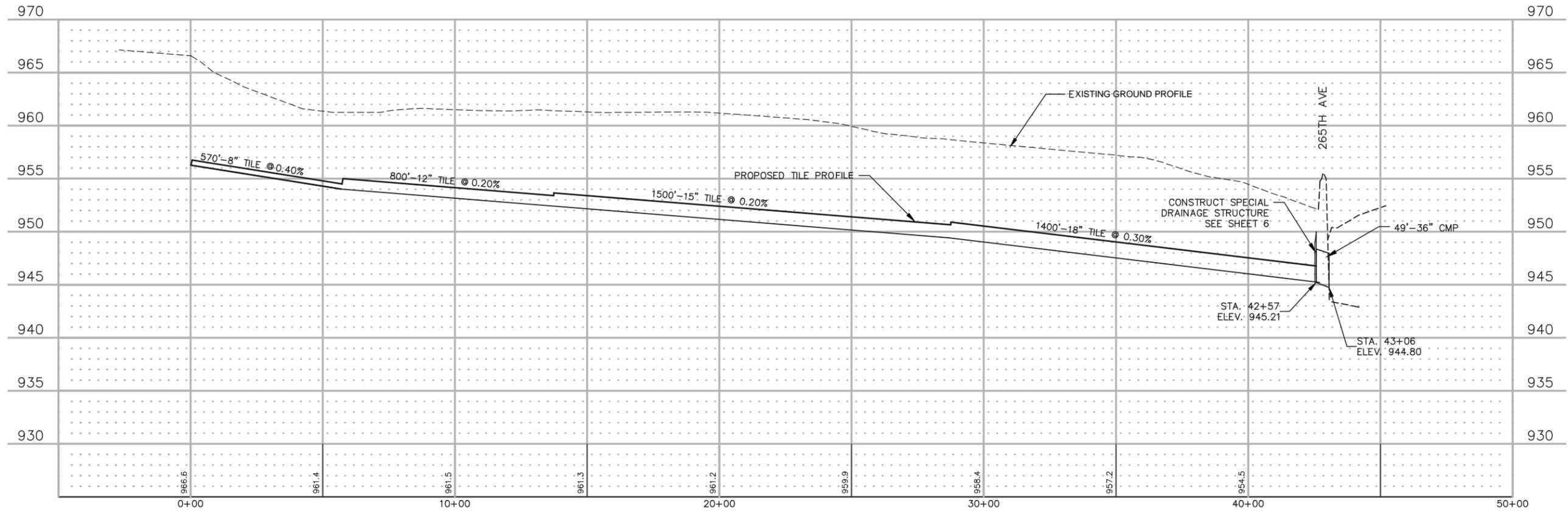
Charles Vermeersch
 CHARLES VERMEERSCH, P.E.
 Lic. No. 43842
 Date: 9/24/13

SEH
 PHONE: 507.388.1989
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SIBLEY COUNTY, MINNESOTA

PROFILE VIEW - OPEN DITCH
 ESTABLISHMENT OF SIBLEY CD 70
 IN SEC. 24,25,26 & 27, T114, R25

FILE NO. SIBLC 122956
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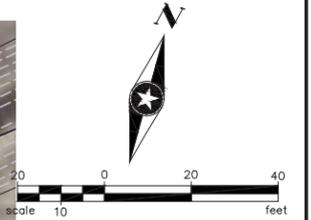
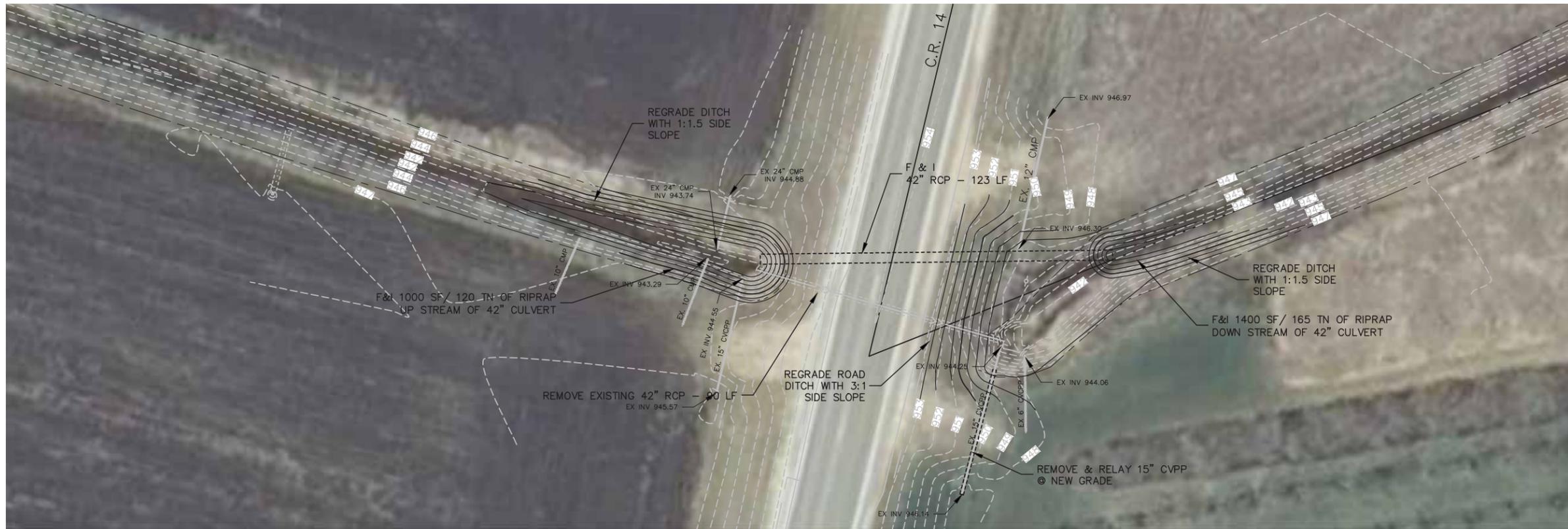
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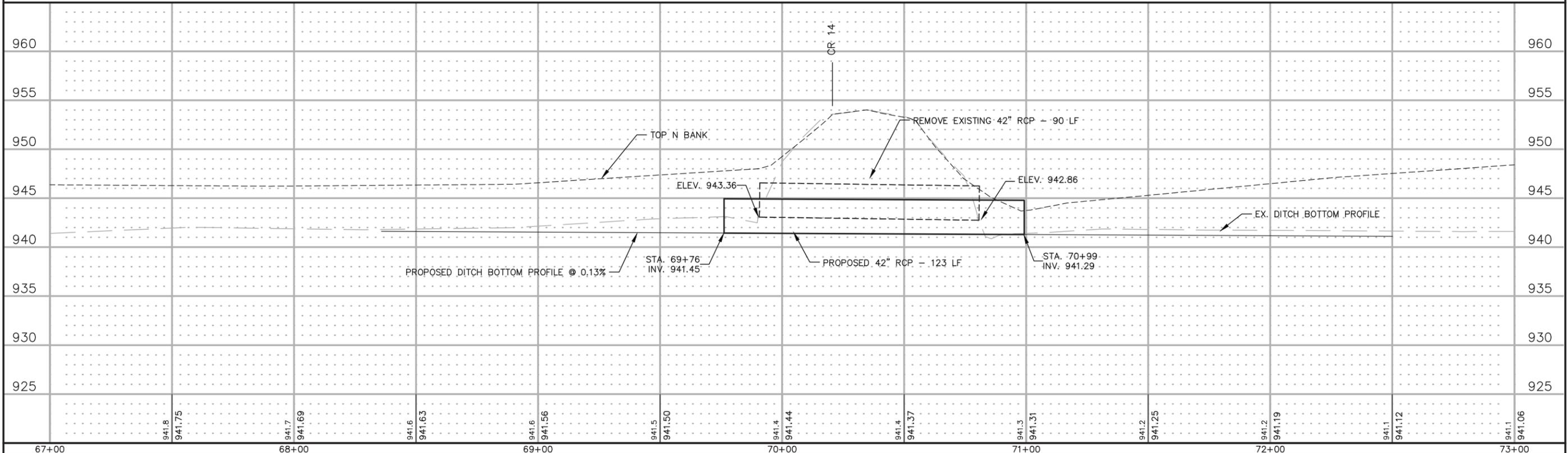
SIBLEY COUNTY, MINNESOTA

PROFILE VIEW - TILE
 ESTABLISHMENT OF SIBLEY CD 70
 IN SEC. 24,25,26 & 27, T114, R25

FILE NO. SIBLC 122958
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SIBLEY CR 14 CROSSING



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DESIGNER: CJV			
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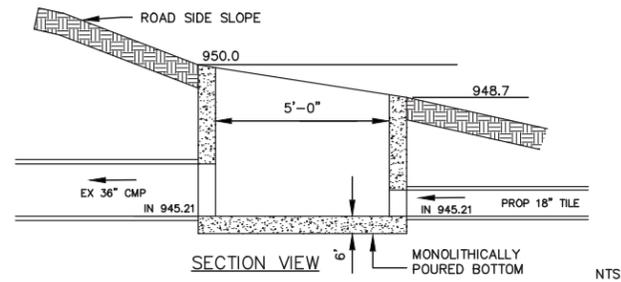
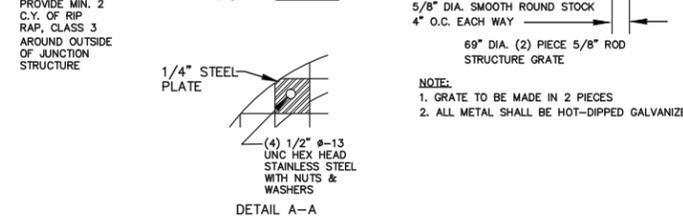
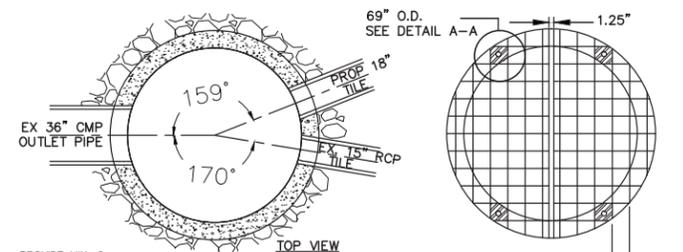
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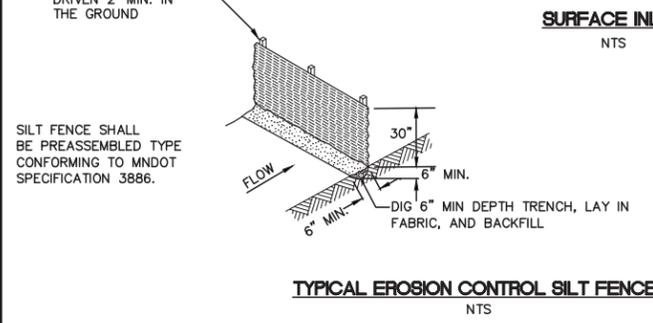
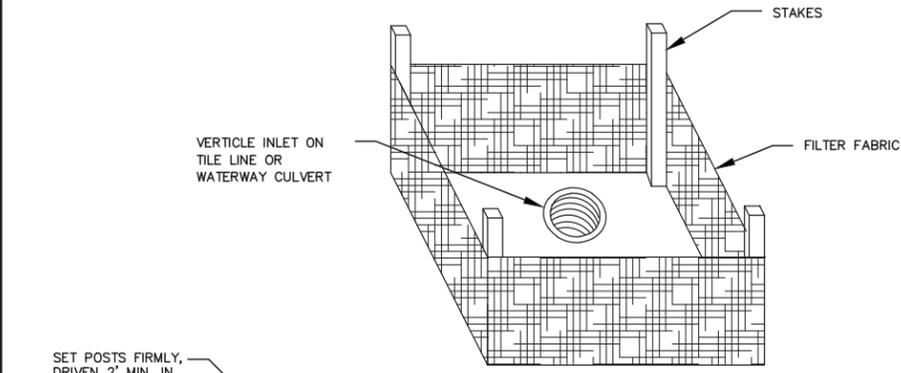
PLAN & PROFILE CR 14 CROSSING
 ESTABLISHMENT OF SIBLEY CD 70
 IN SEC. 24,25,26 & 27, T114, R25

FILE NO. SIBLC 122958	5 / 7



DRAINAGE STRUCTURE • 265TH AVE
(60" DIA. OPENING)

SEDIMENT FENCE DETAIL



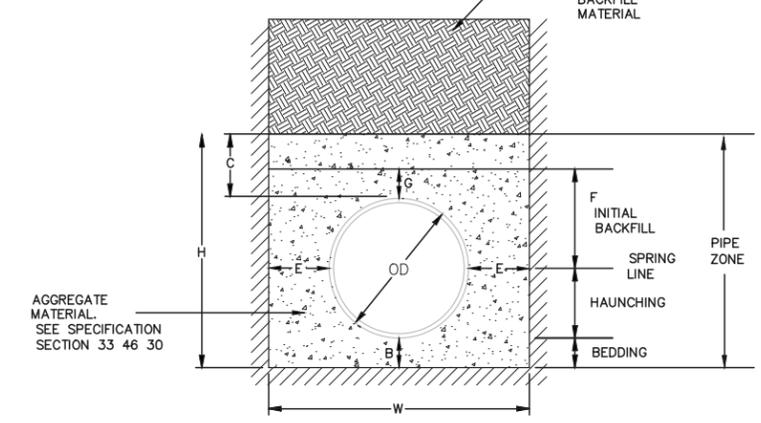
TYPICAL EROSION CONTROL SILT FENCE

FLAT TRENCH BOTTOM INSTALLATION

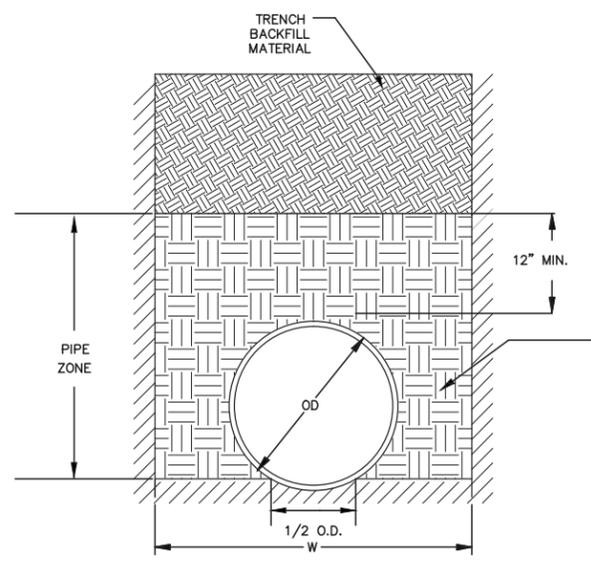
CPE PIPE ENVELOPE & TRENCH DIMENSIONS (1)

Pipe Size	Pipe OD (Nominal) in.	B Bed Depth Aggregate Material (2) in.	C Min. Cover (2) in.	H Min. Trench Depth (OD+B+C) ft.	E Envelope Width in.	W Min. Trench Width (OD+2E) in.	F Initial Backfill (2) in.	G Initial Backfill Over Pipe in.
4"	4.8	4 - 6	12	17 - 21	8	21	8	6
6"	6.9	4 - 6	12	19 - 23	8	23	10	6
8"	9.1	4 - 6	12	22 - 26	8	25	11	6
10"	11.4	4 - 6	12	24 - 28	8	28	12	6
12"	14.5	4 - 6	12	26 - 30	8	31	13	6
15"	17.6	4 - 6	12	30 - 34	8	34	15	6
18"	21.2	4 - 6	12	34 - 38	9	39	17	6

- (1) Refer To Specific Manufacture's Installation Instructions.
- (2) Aggregate Material. See Project Manual Specification 33 46 30.



CORRUGATED P.E. PIPE



CONCRETE DRAIN TILE TRENCH DIMENSIONS

Pipe Size	Trench Width W (in.)
8"	24
10"	24
12"	24
15"	30
18"	36
22"	42
24"	42

- NOTES:
- BACKFILL SOIL WHICH IS FREE OF SOIL CLUMPS, ROCKS, DEBRIS AND TOP SOIL.
 - SHOVEL SOIL UNDER PIPE HUNCHES.
 - SOIL IN PIPE ZONE TO BE PLACED AND COMPACTED TO ACHIEVE 85% STANDARD PROCTOR DENSITY.

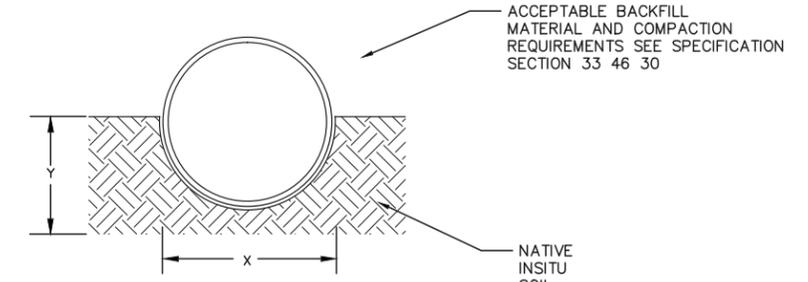
CONCRETE DRAIN TILE

NOTES:

- A ROUND TRENCH BOTTOM MAY BE FORMED WITH THE USE OF A SHAPED TRENCHER OR WITH A BACKHOE WITH A HALF-CIRCLE SHAPED BUCKET, ALSO REFERRED TO AS A "SPOON".
- THE ROUNDED TRENCH BOTTOM SHOULD CLOSELY FIT THE OUTSIDE OF THE PIPE TO PROVIDE SUFFICIENT SUPPORT OF THE PIPE. APPROXIMATE DIMENSIONS OF THE ROUNDED TRENCH BOTTOM ARE FOUND IN TABLE 1

SHAPED TRENCH BOTTOM INSITU INSTALLATION

THIS APPLIES ONLY TO THOSE INSITU SOIL CONDITIONS WHERE THE NATIVE SOIL CAN BE CUT TO A STABLE SHAPED TRENCH FOR BURIAL DEPTHS OF 7' OR LESS



CIRCULAR SHAPED TRENCH BOTTOM

TABLE 1

ROUNDED TRENCH DIMENSIONS

PIPE DIA. (IN.)	WIDTH "X" (IN.)	DEPTH "Y" (IN.)
8	9.5	4.80
10	11.6	5.80
12	14.2	7.10
15	18.3	9.20
18	21.5	10.80

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DRAWN BY: SJP				
DESIGNER: CJV				
CHECKED BY: CJV				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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

Date: 9/24/13 CHARLES VERMEERSCH, P.E. Lic. No. 43842

SIBLEY COUNTY, MINNESOTA

DETAILS
ESTABLISHMENT OF SIBLEY CD 70
IN SEC. 24,25,26 & 27, T114, R25

FILE NO. SIBLC 122958
6
7

Project: SIBLEY COUNTY DITCH 49 IMPROVEMENT PROJECT SWPPP DESIGNER(S): SANDRA POMPLUN
 Owner: Sibley County Public Works Sibley County, Minnesota 55334 CERTIFICATION: DESIGN OF SWPPP EXP. MAY 31, 2015

SWPPP SUMMARY/OVERVIEW

This Stormwater Pollution Prevention Plan (SWPPP) has been developed by Short Elliott Hendrickson, Inc. for the owner to address the requirements of NPDES Permit MN R100001, Part III, Subpart A. This SWPPP includes a combination of narrative and references to plan sheets that describe the temporary and permanent storm water management plan for the project. The numbered sections below correspond to the same sections of the NPDES Permit.

PART III. STORMWATER DISCHARGE DESIGN REQUIREMENTS

A. Stormwater Pollution Prevention Plan

Nature of construction activity:

The project will consist of the construction of a relocated ditch lateral, grading, abandonment of old ditch lateral and insulation of new tile.

- Person knowledgeable in erosion prevention and sediment control and who will oversee implementation of the SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction: Contractor.

Responsible for long-term operation and maintenance:

Owner, Sibley County Public Works,
400 Court Ave., Gaylord MN, 55334
Attn: Jeffery Majeski

- Training requirements: See Part III.A.2.a,b,c,d.
Contractor to submit proof of SWPPP maintenance and installation certification before construction is to begin.

CONTRACTOR'S SWPPP INSPECTOR: _____ PHONE NO. _____

CERTIFICATION: _____ EXP. _____

- Narrative describing timing of installation of BMPs in Parts III, IV, Appendix A:
The Contractor and the Owner or Owner's representative shall meet on site prior to the start of grading operations to discuss the locations where silt fence and other erosion control features are proposed and to recommend any additions or modifications prior to installation.

Silt fence and other erosion prevention features will be placed prior to any construction activities and on an as needed basis as determined by the contractor and owner or the owner's representative in the field.

Areas where construction activity temporarily stops for more than 14 days will be stabilized with a temporary seed and mulch. Once construction is completed in an area, that area will be stabilized with seed and mulch; or sod as specified in the plan.

Erosion and sediment control devices shall be removed once the site is stabilized with at least 70% vegetation coverage.

4. SWPPP Requirements:

a. Erosion Prevention and Sediment Control BMPs

Temporary: Erosion and sediment control prevention features will be placed as shown on the plans and as determined in the field by the Contractor or Engineer. Existing vegetation will be retained whenever possible. The contractor will conduct construction operations to minimize the area of exposed or disturbed soil at any given time, to the extent practical.

See Plan and Profile Sheet

Permanent Turf Establishment: All non-paved, disturbed areas will be topsoiled, seeded or sodded, fertilized, as specified in the plan and/or specifications. Disturbed areas of the site where seeding is specified will be seeded with Mn/DOT Seed Mixtures at the rates indicated on plans, and Type 2 fertilizer (phosphorus free) will be applied at a rate of 200 lbs/ac. Disturbed portions of the site where construction activity has been permanently stopped shall be stabilized with seed, or sod within 14 days of the last construction activity.

See Plan View and Detail Sheets

b. Estimated preliminary quantities tabulation

N/A

c. Impervious surface

No new Impervious to be added to project.

d. Site map with existing and final grades and drainage areas, soil types and impervious surfaces:

- See Project Manual for Soils report
- See the Construction Plans and Erosion Control Sheets for pre and post drainage directions and grades.

e. Locations of areas not to be disturbed:
All areas within construction limits will be disturbed. Areas outside construction limits will not be disturbed.

f. Locations where construction will be phased to minimized exposed soil areas:
n/a

g. Surface waters and wetlands within 1 mile that will receive stormwater:
County Ditch 49

h. Methods for final stabilization of exposed soils:
Erosion prevention features will be placed as shown on the plans and as determined in the field by the contractor. Existing vegetation will be retained whenever possible. The contractor will conduct construction operations to minimize the area of exposed or disturbed soil at any given time, to the extent practical.

- Amendments to the SWPPP:
The SWPPP will be amended as needed and/or as required by provisions of the Permit.
- Mitigation measures required from previous reviews (EAW, EIS, local, etc):
n/a
- Karst and drinking water supply management area measures:
n/a
- Calcareous fen;
n/a
- Discharges to Impaired waters and TMDL: n/a
- Temporary Sediment Basins
Use of temporary sediment basins is not anticipated however the contractor shall install temporary sediment basins as required by the NPDES permit if a situation arises which would require a temporary sediment basins
- Permanent Stormwater Management System
Stormwater will be managed through the use existing stormwater conveyance and treatment infrastructure

PART IV. CONSTRUCTION ACTIVITY REQUIREMENTS

A. Stormwater Pollution Prevention Plan
The SWPPP and BMPs identified will be installed and implemented in an appropriate and functional manner.

B. Erosion Prevention Practices
See Part III.A.3.a for erosion prevention and sediment control BMPs.

C. Sediment Control Practices
See Part III.A.3.a for erosion prevention and sediment control BMPs.

D. Dewatering and Basin Draining

- Dewatering is considered incidental to the project. If any dewatering is required, the contractor must either outlet the water to a temporary sediment basin or utilize a sediment control system approved by engineer in the field.
- Discharge water shall be properly treated to effectively remove sediment.
- Discharge water shall be dispersed over effective energy dissipation measure

E. Inspections and Maintenance
The construction site will be observed by the contractor's SWPPP inspector once every 7 days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.

When sediment is observed up to approximately one-third of the height of silt fence, sediment will be removed. Silt fence will be repaired, replaced, or supplemented if it becomes nonfunctional.

A summary maintenance/construction observation report will be recorded after each site visit/observation, with information outlined in Part IV.E.2

Permanent seeding will be observed for growth and washouts.

Inspection and maintenance requirements shall be completed as outlined in the NPDES Phase II Construction Permit.

F. Pollution Prevention Management Measures

- Solid Waste: Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal requirements.
- The disposal and/or storage of any hazardous waste and materials will comply with MPCA regulations.
- External washing of trucks, construction vehicles, or engine degreasing shall not be allowed on site.
- Concrete washout will not be allowed on site unless the proper disposal methods are followed according to guidelines set forth by MPCA.

G. Final Stabilization

See Part III.A.3.a. for permanent erosion and sediment control.
The permittee will submit a Notice of Termination (NOT) within 30 days after final stabilization is complete.

- All soil disturbing activities have been completed.
- Exposed soils have been uniformly stabilized to min. 70% vegetation coverage.
- All ditches, ponds, storm sewer conveyance systems have been cleared of sediment.
- All BMPs have been properly removed and disposed of.

Appendix A.

- General Requirements
All requirements in this Appendix are in addition to BMPs already specified. The provisions in this Appendix take precedence.
- Requirements for Discharge to Special Water
n/a
- Additional BMPs for Special Waters & Impaired Waters
n/a
- Requirements for Discharging to Wetlands
n/a
- Discharges Requiring Environmental Review
n/a
- Discharges Affecting Endangered or Threatened Species
n/a
- Discharges Affecting Historic Places or Archeological Sites
n/a

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DRAWN BY: SJP				
DESIGNER: CJV				
CHECKED BY: CJV				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 Date: 9/24/13 CHARLES VERMEERSCH, P.E. Lic. No. 43842

SIBLEY COUNTY, MINNESOTA	STORMWATER POLLUTION PREVENTION PLAN	FILE NO. 7 SIBLC 122958
	ESTABLISHMENT OF SIBLEY CD 70 IN SEC. 24,25,26 & 27, T114, R25	