

Information for File # 2016-00412-MJB

Applicant	City of Rochester Public Works
Corps Contact	Meghan Brown
Address	1114 South Oak Street, La Crescent, MN 55947
E-Mail	Meghan.J.Brown@usace.army.mil
Phone	651-290-5688
Primary County	Olmsted
Section	35
Township	107 North
Range	14 West
Latitude (NAD83)	44.02837
Longitude (NAD83)	-92.47265
Information Complete On	04 February 2016
Posting Expires On	04 April 2016
Authorization Type	LOP-05-MN

This application is being reviewed in accordance with current practices for documenting U.S. Army Corps of Engineers (Corps) jurisdiction under Section 404 of the Clean Water Act. If an approved jurisdictional determination is completed as part of the review process for this application, a copy will be posted on the St. Paul District web page at the following link: <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

Project Description and Purpose (per applicant):

The proposed project consists of placing 550 cubic yards of riprap along 250 linear feet (0.006 acre) of Cascade Creek, a perennial stream. The 250 linear feet of Cascade Creek will be shaped at 2:1 slopes, and have geotextile fabric placed under the riprap. Above the riprap, the banks will be sloped and hydroseeded for added stabilization. Two J-hooks and three barb rock vanes will be used along the riprap to direct flow away from the eroding bank.

The purpose of the project is to provide bank stabilization for erosion control. The project is needed to protect the sanitary sewer that is running adjacent to the eroding bank.

State Designated Trout Stream:

Cascade Creek is not a designated trout stream.

State Listed Impaired (Section 303(d)) Waters:

Cascade Creek is a listed 303(d) stream for turbidity.

Name, Area, and Types of Waters Subject to Loss:

The project would result in the discharge of dredged material below the plane of the ordinary high water mark of approximately 250 linear feet (0.006 acre) of Cascade Creek, a perennial stream.

Alternative Considered (per applicant):

1. The applicant considered the “No Action” alternative but this would not address the eroding stream bank or the improvement of the Rochester sanitary sewer system.
2. Rerouting the sanitary sewer was considered by the applicant. There was no other alignment that allowed the sanitary sewer to remain at the same elevation as it currently does to function properly.
3. The applicant considered using bio-engineering techniques such as root wads, brush mats, and geogrids for stabilization. However, due to stream velocities and bank steepness, this alternative was not feasible.

Federally Listed Threatened and Endangered Species:

The northern long-eared bat (threatened), and Leedy’s roseroot (threatened) can be found in Fillmore County, Minnesota.

Historic Properties:

The latest version of the National Register of Historic Places has been consulted and no listed properties (known to be eligible for inclusion, or included in the Register) are located in the project area.

Compensatory Mitigation: The applicant has not proposed compensatory mitigation for the project.

Drawings: Please see enclosed drawings labeled: MVP-2016-00412-MJB Drawing 1 of 3 through Drawing 3 of 3.

CITY OF ROCHESTER

PROJECT NO M11-36, J-7797

COOKE PARK SANITARY SEWER RECONSTRUCTION

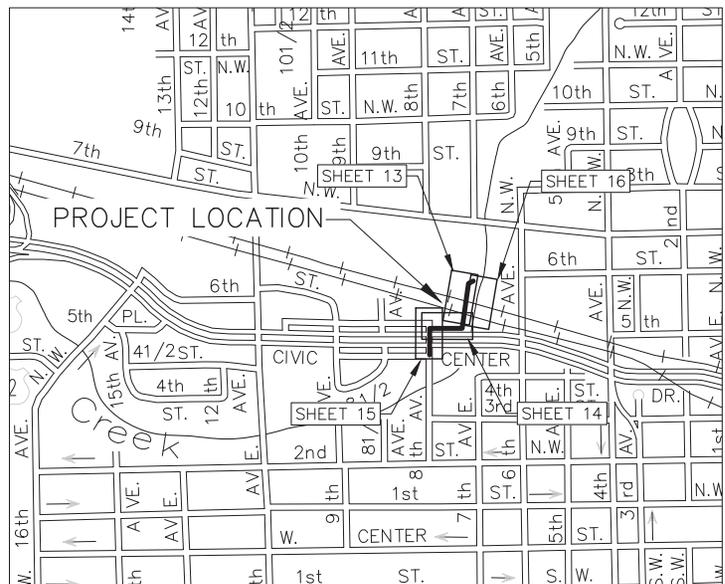
CONSTRUCTION PLAN FOR SANITARY SEWER
LOCATED ON CIVIC CENTER DRIVE NW FROM EAST END OF 8TH AVENUE TO COOKE PARK
LOCATED IN SECTION 35 T107N R14W, OLMSTED COUNTY, MN

SYMBOL LEGEND

- ▲ CONTROL POINT
- ⊙ EXISTING SANITARY CLEANOUT
- ⊙ EXISTING SANITARY MANHOLE
- ⊙ EXISTING STORM MANHOLE
- ⊙ EXISTING HYDRANT
- ⊙ EXISTING GATE VALVE
- ⊙ PROPOSED HYDRANT
- ⊙ PROPOSED GATE VALVE
- ⊙ PROPOSED MANHOLE
- ⊙ EXISTING CONIFER TREE
- ⊙ EXISTING DECIDUOUS TREE
- ⊙ EXISTING SOIL BORE
- ⊙ EXISTING SHRUB
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING GUY WIRE
- ⊙ EXISTING TELEPHONE PEDESTAL
- ⊙ EXISTING CURB STOP
- ⊙ EXISTING ELECTRIC PEDESTAL
- ⊙ EXISTING CABLE TV PEDESTAL
- ⊙ EXISTING SATELLITE DISH
- ⊙ EXISTING MAILBOX
- ⊙ EXISTING SIGN
- ⊙ EXISTING WELL
- ⊙ EXISTING LIGHTPOLE
- ⊙ EXISTING BOLLARD
- ⊙ EXISTING STUMP
- ⊙ EXISTING GAS VALVE
- ⊙ BENCHMARK
- ⊙ EXISTING GAS METER
- ⊙ EXISTING TRAFFIC LIGHT

LINE LEGEND

- FIB — FIB — FIBER OPTIC
- □ — □ — CONTROLLED ACCESS
- — — — — ROW
- — — — — UTILITY
- — — — — EX DRAINAGE DITCH
- — — — — MNDOT ROW
- — — — — BARBWARE FENCE
- — — — — CHAINLINK FENCE
- — — — — SECTION LINE
- — — — — QUARTER SECTION LINE
- — — — — WOODEN FENCE
- — — — — TREE LINE
- — — — — RETAINING WALL
- — — — — EX SEALCOAT
- — — — — GUARD RAIL
- — — — — EX WATERMAIN
- — — — — UNDERGROUND ELECTRIC
- — — — — UNDERGROUND CABLE TV
- — — — — EX CRUSHED ROCK
- — — — — UNDERGROUND TELEPHONE
- — — — — UNDERGROUND GAS
- — — — — EX CONTOUR
- — — — — EX STORM SEWER
- — — — — PERMANENT EASEMENT
- — — — — TEMPORARY EASEMENT
- — — — — OVERHEAD ELECTRIC
- — — — — OVERHEAD TELEPHONE
- — — — — EX SANITARY SEWER
- — — — — CENTERLINE
- — — — — SILT FENCE



INDEX

THIS PLAN CONTAINS 18 SHEETS

SHEET 1	TITLE SHEET
SHEET 2-3	ESTIMATED QUANTITIES & TABULATIONS
SHEET 3	EXISTING TABULATIONS
SHEET 5-6	SWPPP
SHEET 7	TYPICAL SECTION
SHEET 8-11	DETAILS
SHEET 12	REMOVALS
SHEET 13-15	PLAN AND PROFILE
SHEET 16	PLAN
SHEET 17	EROSION CONTROL PLAN
SHEET 18	TRAFFIC CONTROL PLAN
SHEET 19	CROSS-SECTIONS

UTILITY LOCATION
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL C. THIS UTILITY 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."
UTILITY LOCATION PERFORMED ON: 01-03-2014
GOPHER ONE CALL TICKET NUMBERS: 140030376
UTILITY DESIGN MEETING HELD ON: TBD



APPROVED _____ DATE _____
ROCHESTER PUBLIC WORKS DIRECTOR

RECOMMENDED FOR APPROVAL _____ DATE _____
MANAGER OF ENGINEERING

RECOMMENDED FOR APPROVAL _____ DATE _____
PROJECT MANAGER

I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Timothy A. Hruska
Date _____ License No. 44930



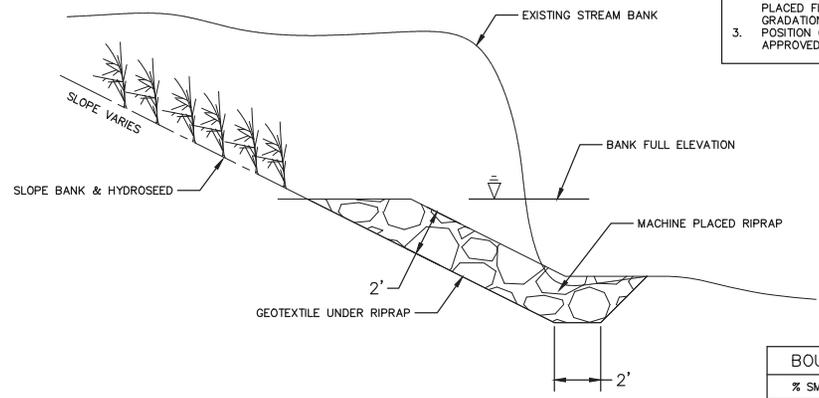
GOVERNING SPECIFICATIONS
THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND ANY SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN.

NO.	DATE	DESCRIPTION

DETAILS
COOKE PARK SANITARY SEWER RECONSTRUCTION
ROCHESTER, MN
2016

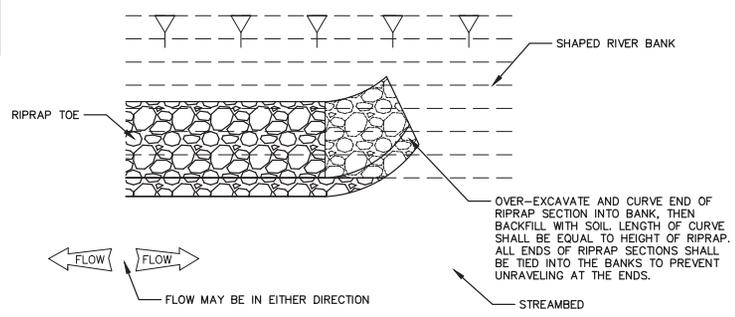
SCALE:	AS SHOWN
WHKS PROJECT:	7808-01
DRAWN BY:	DJO
CHECKED BY:	
SHEET	11 OF 19

- NOTES
- BOULDER MATERIAL SHALL BE FIELD STONE MEETING THE REQUIREMENT OF MNDOT 3801.2
 - FIELD STONE FOR THE PURPOSES OF THIS PROJECT ARE GENERALLY DEFINED AS SLABS OF ROCK WITH TWO OPPOSING SIDES THAT ARE RELATIVELY FLAT, AND THAT WHEN PLACED FLAT SIDE DOWN MEET THE SPECIFIED GRADATION REQUIREMENTS.
 - POSITION OF CROSS VANE & HOOKS TO BE APPROVED BY ENGINEER

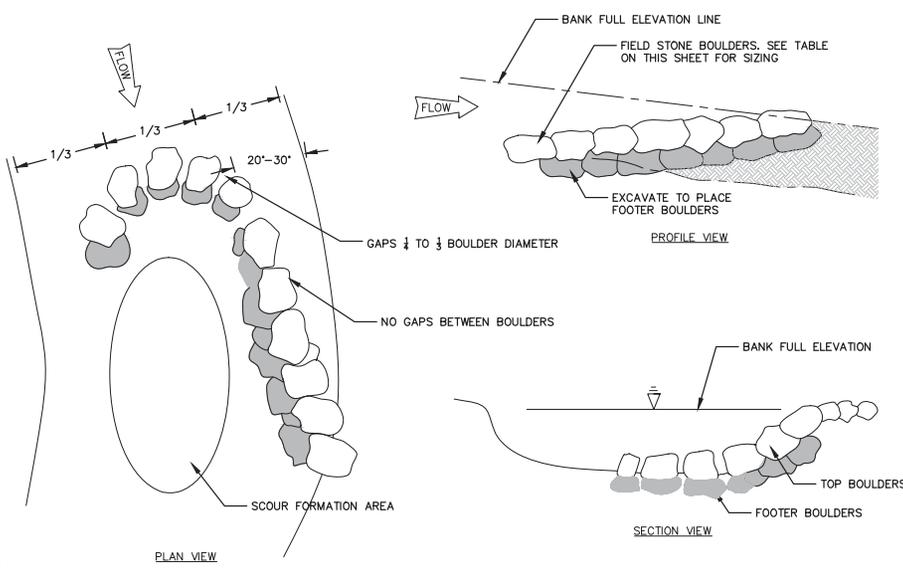


EXPOSED RIPRAP TOE PROFILE DETAIL
NOT TO SCALE

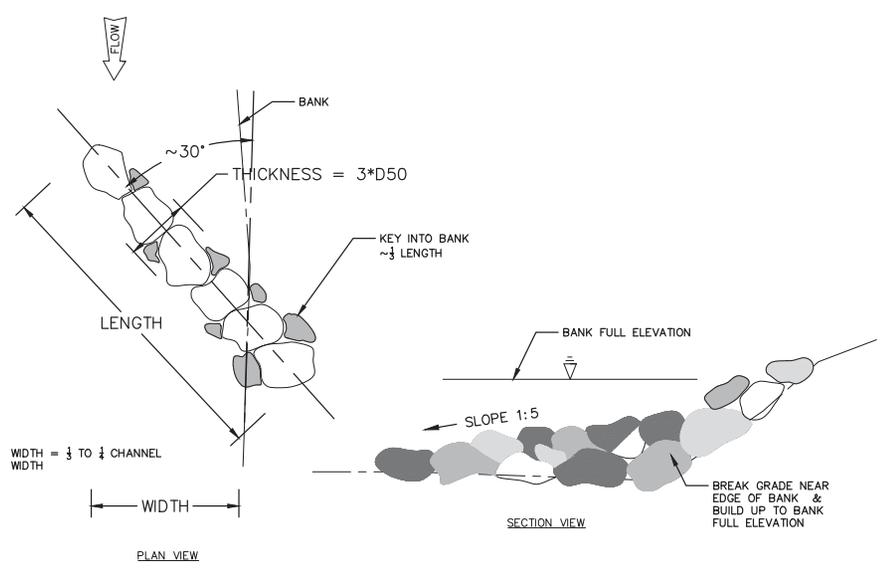
BOULDER GRADATION	
% SMALLER	SIZE (INCHES)
100	36
50	30
0 (MIN)	24



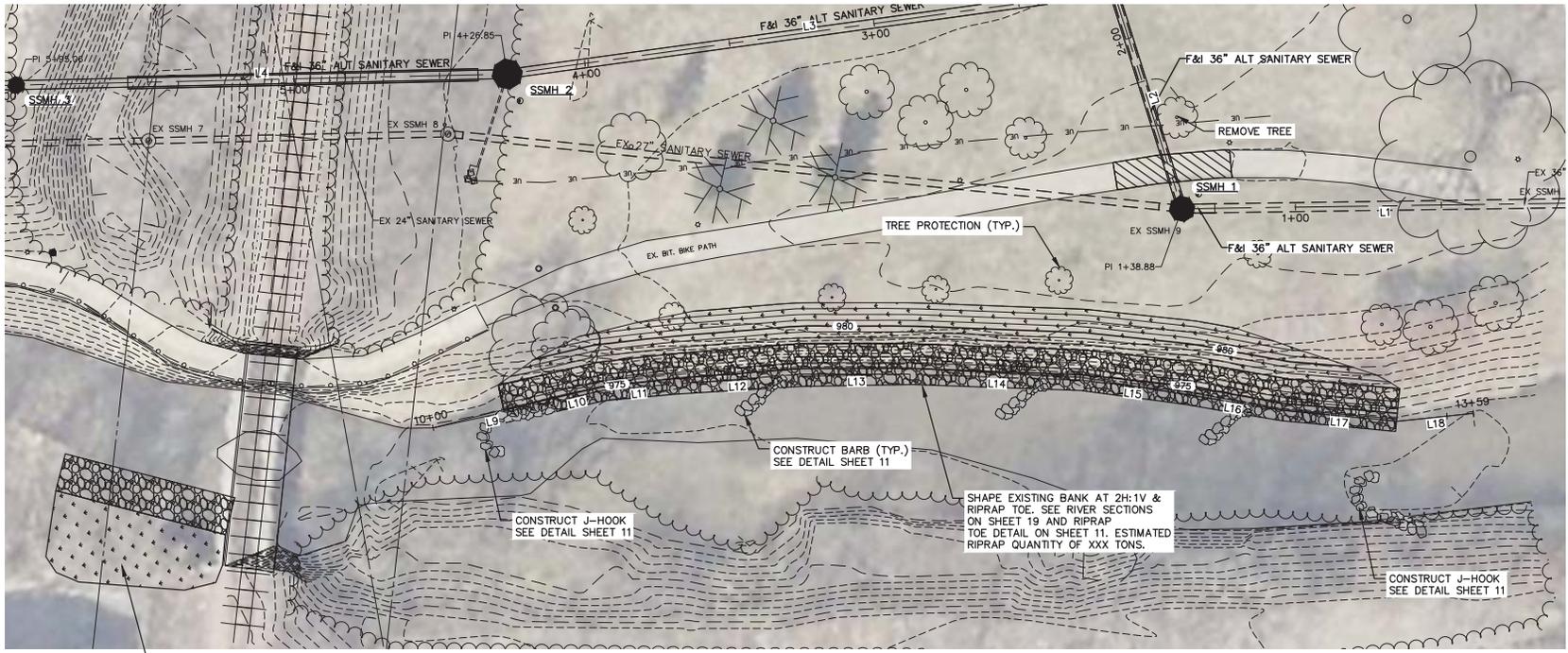
TYPICAL RIPRAP SECTION END DETAIL
NOT TO SCALE



J-HOOK DETAIL DETAIL
NOT TO SCALE



ROCK VANE DETAIL
NOT TO SCALE



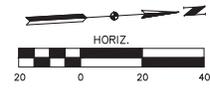
SHAPE EXISTING BANK AT 2H:1V & RIPRAP TOE. SEE RIVER SECTIONS ON SHEET 19 AND RIPRAP TOE DETAIL ON SHEET 11. ESTIMATED RIPRAP QUANTITY OF XXXX TONS.

CONSTRUCT J-HOOK SEE DETAIL SHEET 11

CONSTRUCT BARB (TYP.) SEE DETAIL SHEET 11

SHAPE EXISTING BANK AT 2H:1V & RIPRAP TOE. SEE RIVER SECTIONS ON SHEET 19 AND RIPRAP TOE DETAIL ON SHEET 11. ESTIMATED RIPRAP QUANTITY OF XXX TONS.

CONSTRUCT J-HOOK SEE DETAIL SHEET 11



SYMBOL LEGEND	
	TREE LINE
	EXISTING TREE
	RIPRAP
	SHAPE & HYDRO-SEED

NOTE:
 ① TREE PROTECTION. THE TREE PROTECTION ZONE SHALL BE DETERMINED BY THE CITY FORESTER PRIOR TO CONSTRUCTION. SEE DETAIL SHEET 8.

I hereby certify that this plan, specification and schedule of work were prepared by me or my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Nathan W. Anderson
 License No. 46020
 Date: _____

NO.	DATE	REVISIONS DESCRIPTION

STREAM BANK RESTORATION
 COOKE PARK SANITARY SEWER RECONSTRUCTION
 ROCHESTER, MN
 2016

SCALE:	AS SHOWN
WHKS PROJECT:	7808.01
DRAWN BY:	DJO
CHECKED BY:	
SHEET	16 OF 19