

To: All interested Agencies, Groups and Individuals
From: Steven Hegland, PE
Project/File: Corcoran Water Supply Construction HUD EA Project Information
Date: August 11, 2023

The purpose of this memorandum is to provide a high-level overview of the project and its needs.

Project Background

This project supports the City of Corcoran's efforts to provide a safe, clean and reliable drinking water to a significant portion of the City. This project includes the extension of 16- and 20-inch diameter water main, 30-inch dia. sanitary sewer and 16-inch dia. raw water main. This project will supply raw water to a water treatment plant and treated water to a water tower. Both the Plant and the Tower are currently under construction, separate from this project. This project will distribute treated water to existing city businesses and residents. The sanitary sewer will allow for urban development and allow for the backwash water from the treatment facility to be discharged to the Met Council wastewater system. The raw water main and the sewer pipe will be constructed adjacent to and in conjunction with the treated water main.

The City of Corcoran is the lead agency on the project. When completed, the project will improve conditions for economic development in the City. The larger NE Water Supply Initiative supports the construction of a water supply system, including a well, water treatment facility and a water tower for the City of Corcoran's Northeast District. Proposed improvements have been discussed for decades but have not proceeded because of lack of funding sources and availability to purchase water from an adjacent city. However, the ability to purchase water, at the quantity desired, is no longer available to the City. Project components include the following:

30-inch Sanitary Sewer Improvements

The project includes construction of approximately 2,150-feet of 30-inch diameter trunk sanitary sewer. The sewer extension is consistent with the City's 2040 Comprehensive Plan. The City's trunk sewer system in this Northeast District flows to a regional interceptor that conveys flows to a regional wastewater treatment plant run by the Metropolitan Council. The majority of city residences have individual sewage treatment systems (ISTS). It is anticipated that this roughly 40-foot deep sewer will disturb a width of 120 to 150-feet wide along the sewer alignment.

Water Main Improvements

The project includes the construction of approximately 3,750-feet of 16- and 20-inch diameter water main and 1,200-feet of 16-inch diameter raw water pipe. The new water main will connect the planned water treatment plant to a water tower for redistribution in the City's Northeast District. The raw water pipe conveys water pumped from the proposed well network to the City's water treatment plant. Where the water main lies adjacent to the trunk sewer being installed concurrently the work will occur within the disturbance limits of the sewer pipe. Where the water main runs by itself (south of Hunter's Ridge) the construction will disturb a width between 60 and 80-feet wide along the water main corridor.

Roadway Improvements

Hunter's Ridge Road access to County State Aid Highway (CSAH) 116 will be reconstructed as part of this project. The reconstruction of Hunter's Ridge is necessary to extend the trunk sewer along the road. County Road 116 (Fletcher Ln) will not be impacted by this project as all utility crossings will be done by jacking and directional drilling.

Hunter's Ridge is classified as a local road. here are no existing traffic counts for the road. The assumed Average Daily Traffic volume (ADT) is <500 as it provides access to six residences and a Hope Community Church. The road width and pavement section will be rebuilt to match existing or the City's standard pavement section for a local road. The existing road is approximately 24 to 26-feet in width with a right turn lane on to CSAH 116. Roadway signing will be installed to meet general rural local road requirements.

Restoration

Surface restoration of wetland areas will consist of wetland seeding and planting. Surface restoration of upland shrub and treed areas will consist of native grass seeding. Surface restoration of turf grass areas will consist of turf grass seeding. ErosionA and sediment control measure will be installed as required.

Project Goals / Outputs / Outcomes

The project's main goal is to provide raw water to the water treatment plant and treated water to the water tower for distribution prior to the plant and tower coming on-line. This project supports the City of Corcoran's efforts to provide a safe, clean and reliable drinking water to a significant portion of the City. In addition, the new system will spur significant residential and commercial growth in the roughly 2,000 acre service area.

Project area maps are provided with this project memo. Please feel free to reach out if you have any additional questions or comments.

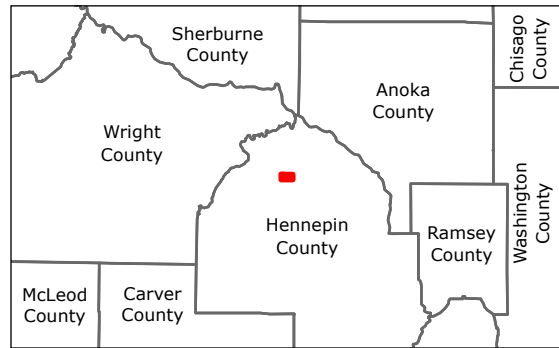
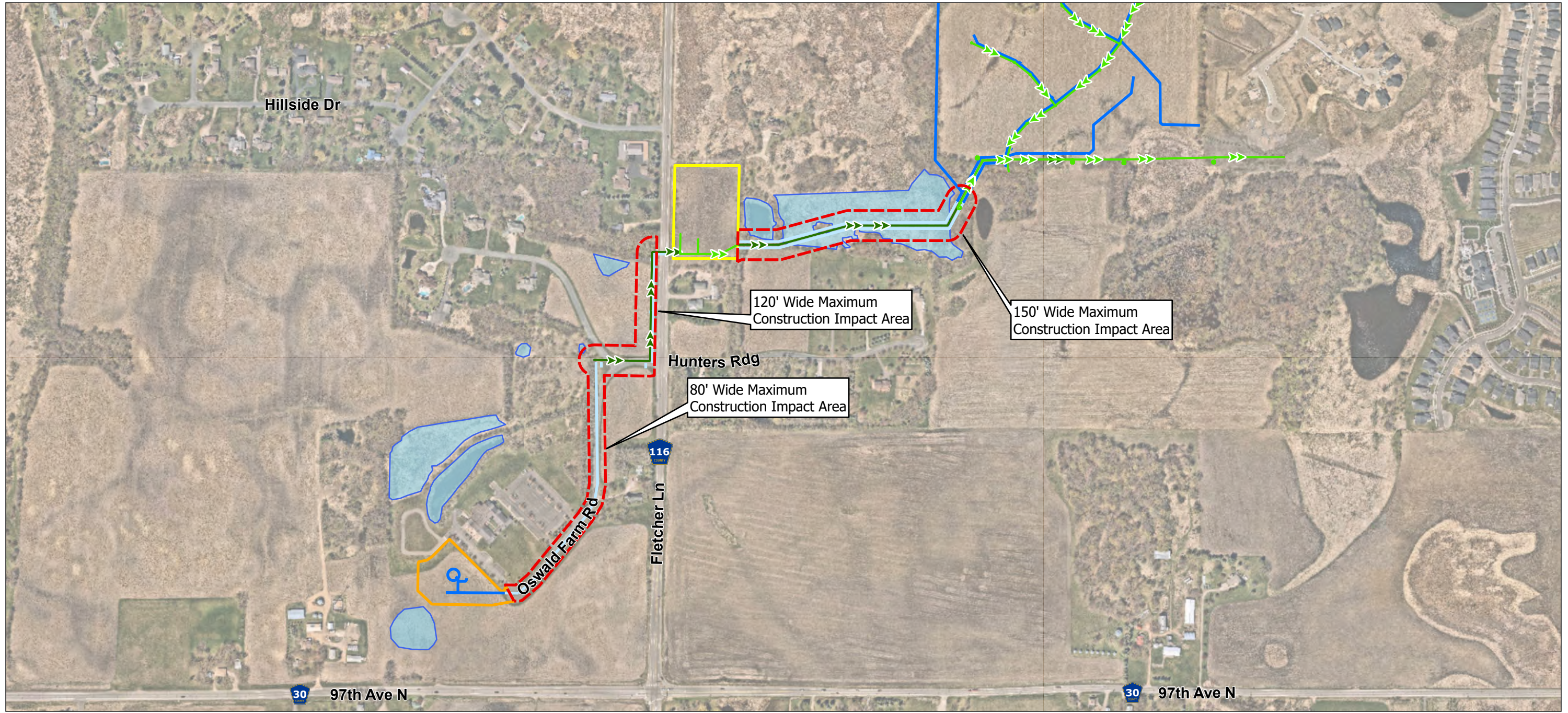
Sincerely,

Steven Hegland, PE

Associate, Senior Civil Engineer

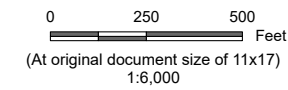
Phone: 763-479-4237

Steven.Hegland@stantec.com



- Legend**
- Construction Impact Area
 - Parcels
 - Water Treatment Facility
 - Water Tower
 - Wetland
 - Sanitary
 - Sanitary Proposed
 - Watermain
 - Watermain Proposed

Notes
 1. Coordinate System: NAD 1983 HARN Adj MN Hennepin Feet
 2. Data Sources: Hennepin County, Stantec
 3. Background: Hennepin County 2021 Aerial



Project Location T119N, R23W, S12
 Corcoran, Hennepin Co., MN
 Prepared by ARH on 2023-08-03

Client/Project City of Corcoran
 NE Corcoran Trunk Infrastructure
 227705275

Figure No.

1

Title
Proposed Project

V:\2277\active\227705275\03_data\gis\proj\ne_corcoran_trunk_infrastructure\ne_corcoran_trunk_infrastructure.aprx Revised: 2023-08-03 By: ahlyms

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The **horizontal datum** was NAD 27, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Minnesota Department of Natural Resources. This information was photogrammetrically compiled at a scale of 1:12,000 from aerial photography dated 2010 or later.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.


Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.





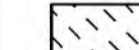
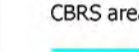





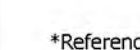
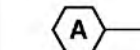
For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

 ADMINISTRATIVE FLOODWAY

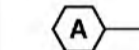

* Administrative floodway designated in accordance with local regulations for management of these areas

 MODELED NODE LABEL

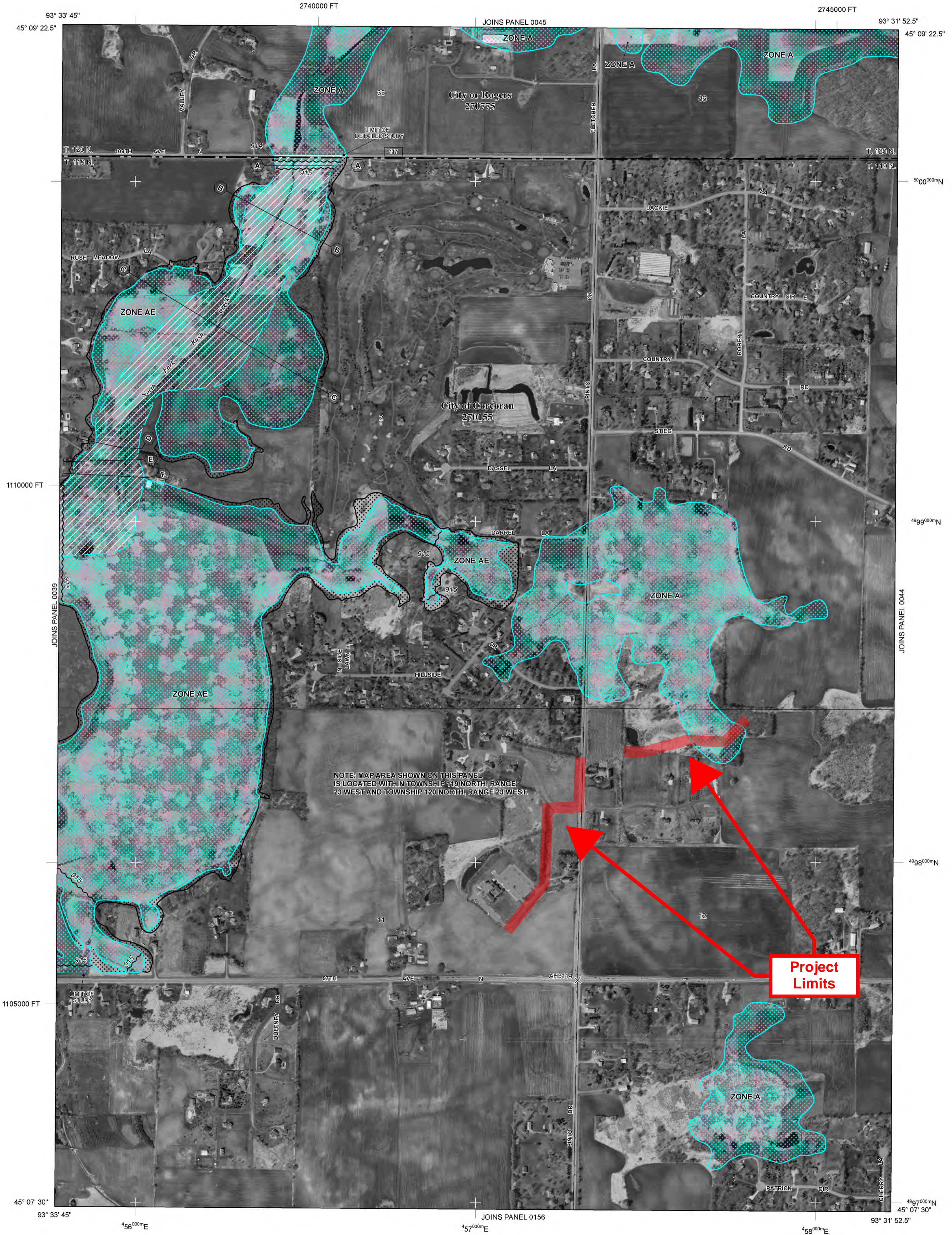
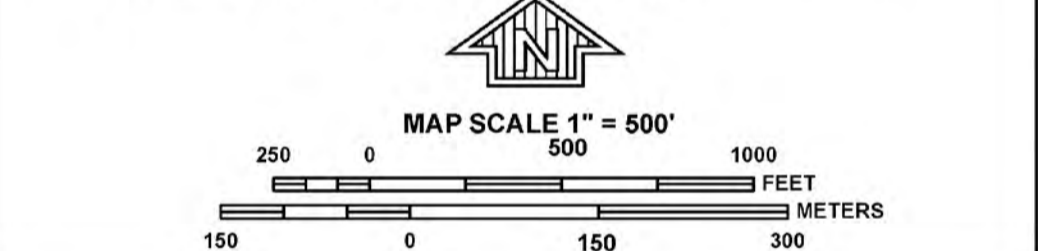
LEGEND

-  SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently identified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
-  FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
-  OTHER FLOOD AREAS
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
-  COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
-  OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
-  1% Annual Chance Floodplain Boundary
-  0.2% Annual Chance Floodplain Boundary
-  Floodway boundary
-  Zone D boundary
-  CBRS and OPA boundary
-  Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
-  Base Flood Elevation line and value; elevation in feet*
(EL 987)
-  Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the National Geodetic Vertical Datum of 1929

-  Cross section line
-  Transect line
- 45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 3100000 FT 5000-foot ticks: Minnesota State Plane coordinate system, South Zone (FIPSZONE 2203), Lambert Conformal Conic projection
- 1000-meter Universal Transverse Mercator grid values, zone 15
- DX5510 X Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 River Mile
- MAP REPOSITORIES Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 2, 2004
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
November 4, 2016 - to add Special Flood Hazard Areas, to change Base Flood Elevations, to change floodway, to change Special Flood Hazard Areas, to decrease Base Flood Elevations, to incorporate previously issued Letters of Map Revisions, to increase Base Flood Elevations, to reflect updated topographic information, to update corporate limits, to update map format

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 419 NORTH, RANGE 23 WEST AND TOWNSHIP 120 NORTH, RANGE 23 WEST.

Project Limits

PANEL 0043F


FIRM
FLOOD INSURANCE RATE MAP
HENNEPIN COUNTY,
MINNESOTA
(ALL JURISDICTIONS)

PANEL 43 OF 500
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CORCORAN, CITY OF	270155	0043	F
ROGERS, CITY OF	270775	0043	F

Notice to User: The **Map Number** shown below should be used when placing map orders, the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
27053C0043F
MAP REVISED
NOVEMBER 4, 2016
Federal Emergency Management Agency