

**City of Ramsey**  
**Agenda**  
**Public Works Committee**  
**Tuesday, October 17, 2023**

**5:30 pm**

**Lake Itasca Room, 7550 Sunwood Drive NW**

Remote Attendance available at [www.cityoframsey.com/meetings](http://www.cityoframsey.com/meetings).  
Those joining remotely and requesting to speak are asked to use a webcam when speaking.

1. **Call to Order**
  
2. **Citizen Input**
  
3. **Approve Agenda**
  
4. **Approve Minutes**
  1. Approve the following meeting minutes.
    1. Public Works Committee meeting dated September 19, 2023.
  
5. **Committee Business**
  1. Consider Ford Brook Estates Drainage Improvements
  2. Consider Replacement of Entrance Monument at TH #47 and Bunker Lake Boulevard
  3. Trail Gap Connection Planning
  
6. **Committee/Staff Input**
  1. Receive Updates on Improvement Projects, Studies and Items of Interest
  2. Review Future Topics Calendar
  
7. **Adjournment**

**Public Works Committee**

**Meeting Date:** 10/17/2023

**Primary Strategic Plan Initiative:** Not Applicable

**Title:**

Approve the following meeting minutes.  
1. Public Works Committee meeting dated September 19, 2023.

**Purpose/Background:**

**Purpose:**

To review and approve meeting minutes.

**Background:**

The meeting minutes dated September 19, 2023, are attached for review.

**Notification:**

N/A

**Time Frame/Observations/Alternatives:**

Staff anticipates this case will take less than 5 minutes.

**Funding Source:**

N/A

**Recommendation:**

To review and approve meeting minutes dated September 19, 2023.

**Outcome/Action:**

Motion to approve meeting minutes dated September 19, 2023.

**Attachments**

PWC Mtg Min 09.19.23

**Form Review**

<b>Inbox</b>	<b>Reviewed By</b>	<b>Date</b>
Bruce Westby	Bruce Westby	10/12/2023 01:29 PM
Brian Hagen	Brian Hagen	10/12/2023 03:04 PM
Form Started By: Marsha Weidner		Started On: 10/03/2023 11:05 AM
Final Approval Date: 10/12/2023		

**PUBLIC WORKS COMMITTEE  
CITY OF RAMSEY  
ANOKA COUNTY  
STATE OF MINNESOTA**

The Public Works Committee conducted a regular meeting on Tuesday, September 19, 2023, at the Ramsey Municipal Center, 7550 Sunwood Drive NW, Ramsey, Minnesota.

Members Present:     Chairperson Chris Riley  
                            Councilmember Debra Musgrove  
                            Councilmember Matt Woestehoff (Remote)

Members Absent:     None

Also Present:         City Engineer/Public Works Director Bruce Westby

**1.     CALL TO ORDER**

Chairperson Riley called the regular meeting of the Public Works Committee to order at 5:33 p.m.

**2.     CITIZEN INPUT**

There was none.

**3.     APPROVE AGENDA**

Motion by Councilmember Musgrove, seconded by Councilmember Woestehoff, to approve the agenda, as presented.

A roll call vote was performed:

Councilmember Musgrove aye  
Councilmember Woestehoff aye  
Chairperson Riley aye

Motion carried.

**4.     APPROVE MINUTES**

**4.01:   Approve July 18, 2023, Meeting Minutes**

Motion by Councilmember Musgrove, seconded by Councilmember Woestehoff, to approve the following minutes:

Regular Meeting Minutes dated July 18, 2023

A roll call vote was performed:

Councilmember Musgrove aye  
Councilmember Woestehoff aye  
Chairperson Riley aye

Motion carried.

## **5. COMMITTEE BUSINESS**

### **5.01: Review Drainage Concerns at 5725 180<sup>th</sup> Lane NW**

City Engineer/Public Works Director Westby reviewed the staff report.

Chairperson Riley asked the property owners at 5725 180<sup>th</sup> Lane NW, Scott and Lisa Monserud, if they wanted to add anything to staff's presentation. The Monserud's stated that more water has been ponding on their property since the street was reconstructed. They also stated they feel the City is responsible for fixing this issue since all stormwater runoff from their neighborhood ends up on their property.

City Engineer/Public Works Director Westby displayed the drainage plan from the Ford Brook Estates Street Reconstruction project, Improvement Project #19-01, and confirmed that stormwater runoff from the street and front yards of most of the properties do generally drain to the southeast corner of the Monserud's property via drainage ditches and a culvert crossing 180<sup>th</sup> Lane NW.

Councilmember Musgrove asked if the driveway culvert on the Monserud's neighbor's property to the east was upsized with IP #19-01.

City Engineer/Public Works Director Westby stated he was uncertain if the culvert had been upsized, but he recalled that the new culvert was raised several inches and the ditch bottom in this area was regraded to help remove the low point west of their neighbor's driveway to reduce the amount of standing water next to and on the Monserud's property.

Chairperson Riley asked if the drainage issues previously raised by the property owners Southeast of the Krypton Street cul-de-sac were proposed to or could be addressed with these drainage improvements.

City Engineer/Public Works Director Westby stated the improvements as currently proposed do not address the concerns previously raised by these property owners.

Chairperson Riley asked if the property owners drainage concerns could be addressed as part of these improvements.

City Engineer/Public Works Director Westby confirmed that staff could further explore this if the Committee directed staff to do so.

Motion by Councilmember Musgrove, seconded by Councilmember Woestehoff, to direct staff to prepare preliminary design plans based on the concept plan presented and to update the cost estimate for further review at the October Public Works Committee meeting, and to explore proposed improvements to address the drainage concerns of the property owners Southeast of the Krypton Street cul-de-sac.

A roll call vote was performed:

Councilmember Musgrove aye  
Councilmember Woestehoff aye  
Chairperson Riley aye

Motion carried.

## **5.02: Receive Updates on Improvement Projects, Studies and Items of Interest**

City Engineer/Public Works Director Westby reviewed the staff report and provided a brief update on the current status of pothole patching across the City, and noted that Staff plans to present a formal update on all 2023 pothole patching work to the City Council at an upcoming work session, as well as how Staff plans to prepare for 2024.

Councilmember Woestehoff stated that the south parking lot at Central Park was recently paved but that the pavement surface of the new basketball courts is slick and asked staff to look into this.

A vote was not called for.

## **6. COMMITTEE / STAFF INPUT**

### **6.01: Review Future Topics Calendar**

Chairperson Riley asked if Committee members had questions or comments on the calendar.

Chairperson Riley asked staff to add dates in place of “Future/TBD” for the last two items under “Topics for Discussion – Planning and Budget” titled “Replace City monument sign TH 47 & Bunker Lk Blvd” and “Targeted Trail Gap Connection Planning”. He noted that these items have been on the list for a long time and he would like them to be addressed in the near future.

Chairperson Riley inquired if others have noticed any traffic issues at the intersection of TH 47 and Bunker Lake Boulevard due to traffic backing up from the signal system at McKinley Street. He noted that this signal system is proposed to become permanent so he wanted to make sure no signal modifications were needed.

City Engineer/Public Works Director Westby stated staff is not aware of any issues resulting from the McKinley Street signal system.

None of the Committee members had noticed or heard of any traffic issues in this area either.

## 7. ADJOURNMENT

Motion by Councilmember Musgrove, seconded by Councilmember Woestehoff, to adjourn the Public Works Committee meeting.

A roll call vote was performed:

Councilmember Musgrove aye  
Councilmember Woestehoff aye  
Chairperson Riley aye

Motion carried.

The regular meeting of the Public Works Committee adjourned at 6:34 p.m.

Respectfully submitted,

---

Bruce Westby  
City Engineer/Public Works Director

Drafted by Katie Schmidt \*  
*City Clerk*

\* Timesavers did not prepare these minutes as the meeting was not recorded due to technical difficulties.

**Public Works Committee****Meeting Date:** 10/17/2023**Primary Strategic Plan Initiative:** Address infrastructure needs.**Title:**

Consider Ford Brook Estates Drainage Improvements

**Purpose/Background:****Purpose:**

The purpose of this case is review Staff's proposed preliminary plans and updated cost estimates and consider authorizing Staff to prepare final construction plans and specifications for drainage improvements in the Ford Brook Estates residential development in the Northeast corner of the City.

**Background:**

The property owners at 5725 180th Lane NW, Scott and Lisa Monserud, have concerns with stormwater runoff that backs up into their property from the drainage ditch in City right-of-way north of 180th Lane NW. They first shared these concerns with Staff during the design and construction of the 2019 City Improvement Project #19-01, Ford Brook Estates Street Reconstructions, which addressed minor drainage improvements as part of the project. After the project was completed, Staff informed the property owners that if they wanted the City to address their drainage concerns in greater detail Staff could explore drainage improvement options and present them to the Public Works Committee for consideration of further action.

On September 19, 2023, Staff presented the attached case to the Public Works Committee outlining drainage improvement options that would address the Monserud's concerns. The Committee directed staff to develop preliminary design plans for drainage improvements providing positive drainage to prevent stormwater runoff from temporarily ponding on/near the Southeast corner of the Monserud's property, which can then back up into their yard through the existing swale. The Committee also directed staff to explore providing an outlet for stormwater runoff that temporarily ponds West of Highway 47 on the East side of the property at 18013 Krypton Street NW in response to concerns previously raised by these property owners.

The preliminary design proposed in the attached plan sheets includes constructing an underground storm sewer system North of 180th Lane and West of Highway 47 to convey stormwater runoff collected within drainage ditches along both sides of 180th Lane and Krypton Street, and from the low-lying area partially within MnDOT right-of-way on the West side of Highway 47 and partially on the East side of the property at 18013 Krypton Street, to an outlet to the Ford Brook in the City of Nowthen. MnDOT's right-of-way along this segment of Highway 47 is 120-feet wide so all storm sewer along Highway 47 can be constructed within MnDOT's right-of-way, and the low-lying area on the East side of 18013 Krypton Street that has an elevation of less than 884 as shown in the attached figure titled "Ford Brook Estates 2-Foot Contours" extends into MnDOT's right-of-way.

Estimated construction costs for this preliminary design totals \$225,000 with approximately \$130,000 attributable to the storm sewer system between the Monserud's property and Ford Brook, and \$95,000 attributable to the storm sewer system South of 180th Lane. These costs include 10-percent contingency costs.

If the Committee were to direct Staff to prepare final design plans and cost estimates, additional topo survey and geotechnical evaluation work would be required to complete the design. This work is estimated to cost an additional \$20,000.

A MnDOT right of way permit would be required to construct this project.

A LRRWMO permit would also be required since work will be required in close proximity to Ford Brook, which could result in additional project costs depending on potential wetland impacts.

The City of Nowthen would also need to be contacted to ensure they don't restrict such work within their City limits.

**Notification:**

The property owners received notice of this meeting and a link to the Public Works agenda, including this case, and may attend the meeting.

**Time Frame/Observations/Alternatives:**

Staff anticipates up to 20 minutes will be required to present this case and respond to questions.

**Funding Source:**

Dependent on Public Works Committee direction.

**Recommendation:**

Staff has no recommendations to offer at this time.

**Outcome/Action:**

Dependent on discussions and direction from the Public Works Committee.

---

**Attachments**

- 091923 PWC case
- Final Plans IP 19-01
- Ford Brook Estates Plat
- Ford Brook Estates 2-Ft Contours
- 180th Lane Plan Sheet
- TH 47 North Plan Sheet
- TH 47 South Plan Sheet
- Title Plan Sheet

**Form Review**

<b>Inbox</b>	<b>Reviewed By</b>	<b>Date</b>
Brian Hagen	Brian Hagen	10/12/2023 03:11 PM
Form Started By: Bruce Westby		Started On: 10/10/2023 04:11 PM
Final Approval Date: 10/12/2023		

**Public Works Committee****Meeting Date:** 09/19/2023**Primary Strategic Plan Initiative:** Not Applicable**Title:**

Review Drainage Concerns at 5725 180th Lane NW

**Purpose/Background:****Purpose:**

The purpose of this case is review drainage concerns of the property owners at 5725 180<sup>th</sup> Lane NW. Staff will also present and discuss optional improvements to address their concerns and will seek direction for further action.

**Background:**

The property owners at 5725 180th Lane NW, Scott and Lisa Monserud, shared their drainage concerns with City Staff during the design and construction of City Improvement Project #19-01, Ford Brook Estates Street Reconstructions. In summary, they purchased this property over 25 years ago and have had concerns about stormwater runoff backing up into the property from the drainage ditch located within City right-of-way along 180<sup>th</sup> Lane.

When the street was reconstructed in 2019, minor drainage improvements were completed as part of the project. At the time staff informed the property owners that if they wanted the City to address their drainage concerns in greater detail following completion of the project Staff would explore options and present them to the Public Works Committee for review and consideration of further action.

Staff has since identified two primary options.

1. Option 1 - Fill the swale in between the ditch and the shallow pond east of their home that allows water to back up onto their private property. If this option is pursued the fill would have to be designed to allow runoff from the back yard to drain south into the drainage ditch unimpeded. Estimated costs for this option could approach \$25,000 depending on the scope of the work.
2. Option 2 - Construct an underground storm sewer system to direct runoff from the ditch to Ford Brook. Estimated costs for this option total \$183,000 if completed as a City Improvement project. Below is a cost breakout.

Option 2 estimated project costs -

48" Inlet Structure w/HC casting	\$ 10,000
4 x 48" Storm MH w/casting	\$ 30,000
18" Flared End Section w/ grate	\$ 3,000
650 LF 18" RCP	\$ 60,000
2 Driveway remove & replace	\$ 6,000

83 LF Culvert Removal	\$ 1,200
0.25 Acre Seeding	\$ 1,500
155 CY Topsoil	\$ 8,000
Erosion Control	\$ 1,200
Traffic Control (TH 47)	\$ 5,000
Mobilization	\$ 15,000
<b>Construction Total</b>	<b>\$140,900</b>
Contingency (10%)	\$ 14,090
Indirect (18%)	\$ 27,898
<b>Total Project</b>	<b>\$182,888 è say \$183,000</b>

A MnDOT right of way permit would be required to construct this project.

A LRRWMO permit would also likely be required since work will likely be required in close proximity to Ford Brook.

Permission from the City of Nowthen would also be required to construct this project.

Staff have visited the site numerous times since 2018 when Improvement Project #19-01 was first being scoped. Staff have taken numerous pictures of the streets, drainage ditches, driveways, culverts and abutting properties. Staff will share some of these pictures during the meeting.

The property owners have also taken and shared many pictures and videos with Staff, some of which will also be shared during Staff's presentation.

Drainage generally runs north to south, towards 180th Lane NW, across the property. Attached is a figure showing 2023 aerial photography with 2-foot contours.

Attached is a figure that shows the proposed storm sewer system outlined in option 2.

**Notification:**

N/A

**Time Frame/Observations/Alternatives:**

**Timeframe:**

Staff anticipates up to 45 minutes will be required to present this case and respond to questions.

**Observations/Alternatives:**

The property owners received notice of this meeting and a link to the Public Works agenda, including this case, and are planning to attend the meeting in person.

**Funding Source:**

Dependent on discussions and direction from the Public Works Committee.

**Recommendation:**

Staff has no recommendations to offer at this time.

**Outcome/Action:**

Dependent on discussions and direction from the Public Works Committee.

---

**Attachments**

Option 2 Project Layout  
2023 Aerial w 2' Contours

**Form Review**

Inbox

Reviewed By

Date

Brian Hagen

Brian Hagen

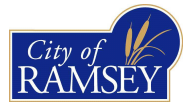
09/14/2023 03:20 PM

Form Started By: Bruce Westby

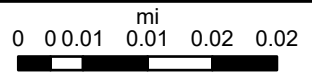
Started On: 09/12/2023 01:38 PM

Final Approval Date: 09/14/2023

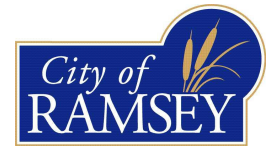
# 5725 180th Ln Storm Sewer Improvements



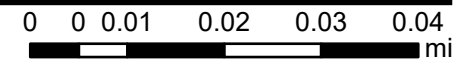
Esri, HERE, Garmin, INCREMENT P, NGA, USGS, LOGIS



# 2023 Aerial Image with 2-Foot Contours



Print Date: September 14, 2023



# CITY OF RAMSEY

## FORD BROOK ESTATES STREET RECONSTRUCTIONS

### CITY IMPROVEMENT PROJECT NO. 19-01

## GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

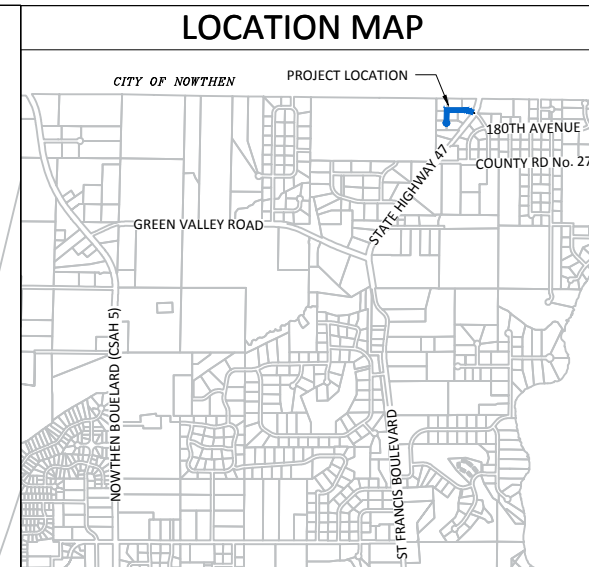
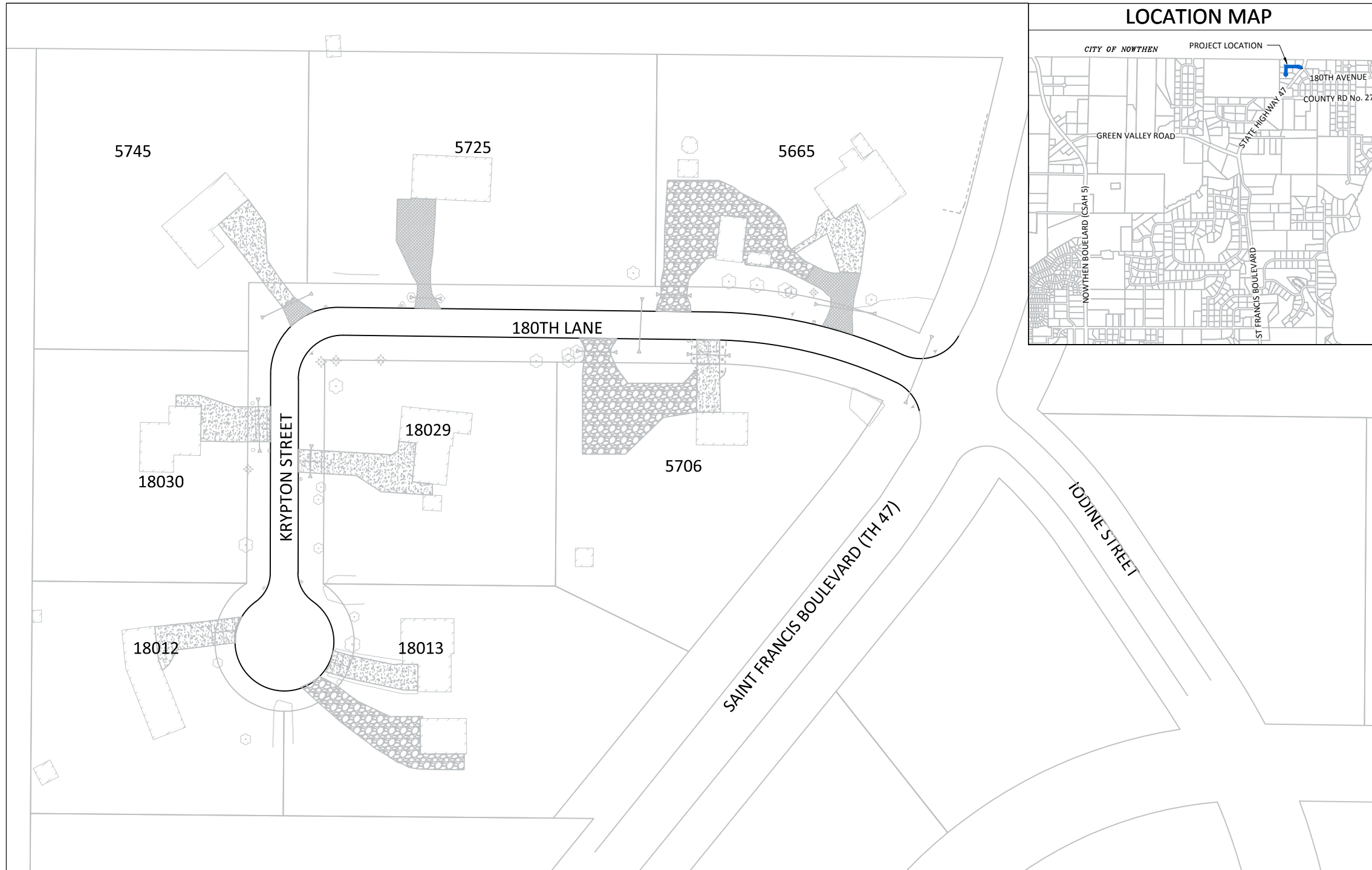
### SHEET INDEX

THIS PLAN CONTAINS 19 SHEETS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTION
4	DETAILS
5	EXISTING CONDITIONS AND REMOVALS
6	EROSION CONTROL
7	ALIGNMENT LAYOUT
8	STREET AND STORM SEWER - KRYPTON STREET
9	STREET AND STORM SEWER - 180TH LANE
10	ALT A - KRYPTON STREET CUL-DE-SAC
11	RESTORATION
12	CROSS SECTIONS - KRYPTON STREET CUL-DE-SAC
13	CROSS SECTIONS - STA. 0+50 TO 2+00
14	CROSS SECTIONS - STA. 2+50 TO 4+00
15	CROSS SECTIONS - STA. 4+50 TO 6+00
16	CROSS SECTIONS - STA. 6+15 TO 8+01
17 - 18	SWPPP - NOTES
19	SWPPP - SITE PLAN

### LEGEND

	LIGHT POLE		EASEMENT
	TREE		RIGHT OF WAY
	TREE		ELECTRIC
	SHRUB		OVERHEAD ELECTRIC
	SIGN		GAS
	VALVE		TELECOMMUNICATIONS
	UTILITY PEDESTAL		STORM SEWER
	HAND HOLE		SANITARY SEWER
	REMOVE TREE		WATERMAIN
	3'X2' CATCH BASIN		SAWCUT PAVEMENT
	MANHOLE		TREE LINE
	INLET PROTECTION		FENCE
	HYDRANT		LANDSCAPING
	VALVE		RETAINING WALL
			5' CONTOUR LINE
			1' CONTOUR LINE
			SILT FENCE
			REMOVE BITUMINOUS PAVEMENT
			SODDING TYPE LAWN
			CONCRETE PAVEMENT
			BITUMINOUS PAVEMENT
			GRAVEL SURFACE
			MILL BITUMINOUS PAVEMENT



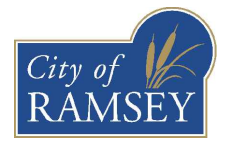
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

*Bruce Westby*  
 BRUCE WESTBY, P.E.  
 RAMSEY CITY ENGINEER

40116 DATE 4/8/19  
 LIC. NO.

DATE	REVISION
5/31/19	REVISE CENTERLINE ALIGNMENT

May 31, 2019 - 2:34pm  
 G:\Engineering\AutoCad Dwg\Projects A-M\Ford Brook Estates 19-01\Plan Drawings\19-01 Cover & Notes.dwg



CITY OF RAMSEY  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS 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."

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL 1-800-252-1166 OR 651-454-0002



19-01 FORD BROOK ESTATES STREET RECONSTRUCTIONS

STATEMENT OF ESTIMATED QUANTITIES

PAGE No.	NOTE	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
		2021.501	MOBILIZATION	LS	1
5	1	2101.502	CLEARING TREE	TREE	4
5	1	2101.507	GRUBBING TREE	TREE	4
5	1	2104.501	REMOVE PIPE CULVERTS	LF	142
5	1	2104.503	REMOVE CONCRETE PAVEMENT - DRIVEWAYS	SF	1,370
5	1	2104.505	REMOVE BITUMINOUS PAVEMENT - DRIVEWAYS	SY	87
5	1	2104.505	REMOVE BITUMINOUS PAVEMENT - ROADWAY	SY	2,641
5	1	2104.505	REMOVE GRAVEL PAVEMENT - DRIVEWAYS	SY	117
5	1	2104.507	SUBGRADE EXCAVATION, REMOVE UNSUITABLE MATERIAL (EV)	CY	2,097
5	1	2104.511	SAWING CONCRETE PAVEMENT - FULL DEPTH	LF	110
5	1	2104.513	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LF	113
5	1	2104.521	SALVAGE AND INSTALL RETAINING WALL	LF	52
5	5, 1	2104.523	SALVAGE AND INSTALL MAIL BOX SUPPORT	EA	8
5		2104.523	TEMPORARY MAIL BOX CLUSTER	EA	1
12 - 16	2	2105.501	COMMON EXCAVATION (EV)	CY	175
8 - 9	2	2105.522	SELECT GRANULAR BORROW (CV)	CY	2,430
8 - 9		2105.604	GEOTEXTILE FABRIC TYPE V	SY	3,036
8 - 9		2112.501	SUBGRADE PREPARATION	RDST	8
11	2	2118.502	AGGREGATE SURFACING, CLASS 5 MODIFIED (LV) - DRIVEWAYS	CY	16
8 - 9		2130.501	WATER	MGAL	16
8 - 9		2211.503	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	380
5	1	2232.501	MILL BITUMINOUS PAVEMENT (1.5")	SY	126
11	3	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	200
11	4	2360.501	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C) (1.5")	TON	230
11	4	2360.501	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C) DRIVEWAYS (2.0")	TON	10
11	4	2360.502	TYPE SP 12.5 NON WEARING COURSE MIXTURE (SPNWB330C) (2.0")	TON	302
9		2501.511	15" CS PIPE CULVERT	LF	127
9		2501.515	15" CS PIPE APRON	EA	8
8 - 9		2501.602	CLEAN PIPE CULVERT	EA	5
8 - 9		2502.541	4" PERF. PIPE DRAIN	LF	721
9		2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LF	5.3
9		2506.516	FURNISH & INSTALL CASTING ASSEMBLY - STORM	EA	1
9		2506.522	ADJUST FRAME & RING CASTING	EA	1
11		2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SF	1,377
5, 11		2540.601	LANDSCAPE RESTORATION	LS	1
	6	2563.601	TRAFFIC CONTROL	LS	1
6		2572.501	TREE PROTECTION FENCE	LF	155
6		2573.502	SILT FENCE, TYPE MS	LF	220
6		2573.530	STORM DRAIN INLET PROTECTION - MANHOLE	EA	1
6		2573.530	STORM DRAIN INLET PROTECTION - CULVERT	EA	20
11		2574.508	FERTILIZER TYPE 3	LBS	52
11		2574.525	TOPSOIL (LV)	CY	173
11		2575.501	HYDROSEEDING	ACRE	0.52
11		2575.502	SEED MIXTURE 25-151	LBS	63
11		2575.505	SODDING TYPE LAWN	SY	83
11		2575.562	HYDRAULIC MATRIX TYPE MULCH	LBS	1,040

ALT A: KRYPTON STREET CUL-DE-SAC (100' DIAMETER)

PAGE No.	NOTE	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
10	1	2101.502	CLEARING TREE	TREE	1
10	1	2101.507	GRUBBING TREE	TREE	1
10	1	2104.503	REMOVE CONCRETE PAVEMENT - DRIVEWAYS	SF	208
10	1	2104.507	SUBGRADE EXCAVATION, REMOVE UNSUITABLE MATERIAL (EV)	CY	160
10	2	2105.501	COMMON EXCAVATION (EV)	CY	10
10	2	2105.522	SELECT GRANULAR BORROW (CV)	CY	192
10		2105.604	GEOTEXTILE FABRIC TYPE V	SY	240
10	2	2211.503	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	32
10	3	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	17
10	4	2360.501	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C) (1.5")	TON	20
10	4	2360.502	TYPE SP 12.5 NON WEARING COURSE MIXTURE (SPNWB330C) (2.0")	TON	26
10		2571.502	DECIDUOUS TREE 2.5" CAL. BR	EA	1

PAY ITEM NOTES:

1. REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
2. EV TO CV CONVERSION FACTOR = 1.2.
3. ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 0.07 GAL/SY.
4. ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 110 LB/SY-IN.
5. PAY ITEM INCLUDES ALL EXISTING MAILBOX SUPPORTS, REGARDLESS OF MATERIAL(S), SIZE, FOOTING TYPE, LOCATION, OR EXISTING ELECTRICAL SERVICE.
6. LUMP SUM QUANTITY SHALL INCLUDE ALL COST REQUIRED FOR MAINTAINING ALL FLAGGING OPERATIONS AS NECESSARY, MAINTAINING PEDESTRIAN ACCESS ROUTES, ANY SIGNAGE AND BARRICADES AS NECESSARY.

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT CONSTRUCTION LIMITS BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO IRRIGATION SYSTEMS WHERE POSSIBLE.
3. SALVAGE AND INSTALL MAILBOX SUPPORTS IN THE SAME LOCATION, UNLESS OTHERWISE DIRECTED. THE INSTALLATION WILL BE THE SAME TYPE AS ORIGINAL INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING MAILBOX SUPPORTS WHICH ARE DAMAGED DURING SALVAGE AND/OR INSTALLATION UNLESS CONTRACTOR NOTIFIES CITY OF DAMAGED MAILBOX SUPPORTS BEFORE SALVAGE OPERATIONS BEGIN. SALVAGED MAILBOX SUPPORTS SHALL BE STORED BY CONTRACTOR DURING PROJECT.

DATE	REVISION

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

*Bruce Westby*  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

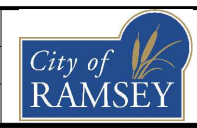
DESIGNED BY:  
JJF

DRAWN BY:  
JJF

CHECKED BY:  
BRW

DATE:  
4/8/19

FILE No.  
19-01

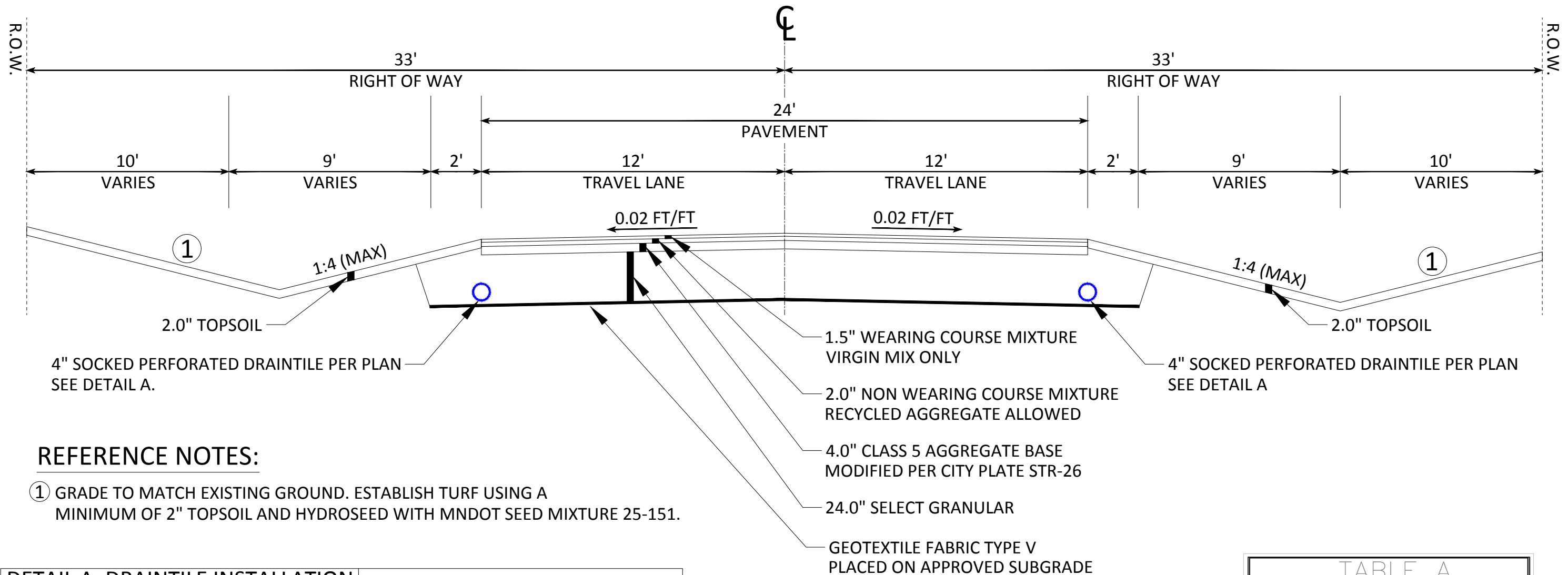


CITY OF RAMSEY  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

STATEMENT OF ESTIMATED QUANTITIES

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA

# 180th Lane & Krypton Street Typical Section

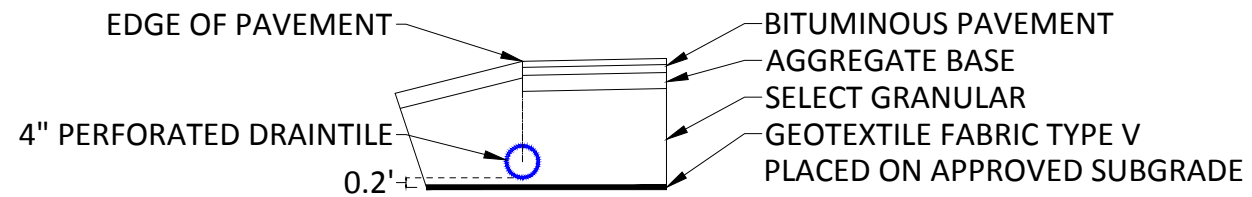


## REFERENCE NOTES:

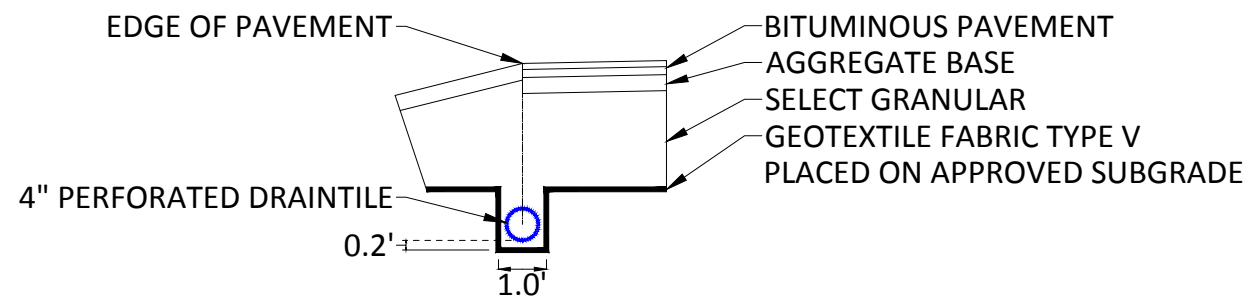
- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 2" TOPSOIL AND HYDROSEED WITH MNDOT SEED MIXTURE 25-151.

### DETAIL A: DRAINTILE INSTALLATION

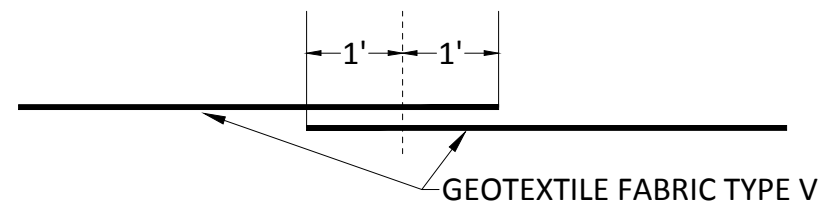
#### TYPICAL DRAINTILE INSTALLATION



#### DRAINTILE INSTALLATION: DRAINTILE BELOW SELECT GRANULAR GRADE



### DETAIL B: GEOTEXTILE FABRIC SEAM



1. GEOTEXTILE FABRIC SHALL BE OVERLAPPED 2- FEET AS SHOWN.
2. THE GEOTEXTILE FABRIC MUST BE SECURED SO THAT IT IS NOT DISPLACED DURING SUBSEQUENT CONSTRUCTION. NO TRAFFIC OR CONSTRUCTION EQUIPMENT IS TO OPERATE DIRECTLY ON THE FABRIC, 1-FOOT OF SELECT GRANULAR FILL MUST BE PLACED FIRST.
3. MEASUREMENT FOR PAYMENT DOES NOT INCLUDE ALLOWANCE FOR SEAMS OR OVERLAPS.

### TABLE A MODIFIED CLASS 5 SPECIFICATIONS

% PASSING	
1"	100
3/4"	90 - 100
3/8"	50 - 80
No.4	35 - 70
No.10	20 - 60
No.40	10 - 35
No.200	5 - 10

NOTES:  
 1. THE AGGREGATE BASE CONSTRUCTION WILL BE ACCEPTED FOR PAYMENT IN ACCORDANCE WITH THE PROVISIONS IN TABLE A.  
 2. IF THE AGGREGATE BASE FAILS TO MEET THE REQUIREMENTS OF TABLE A THE MATERIAL CAN BE CORRECTED IN PLACE OR REMOVED AND REPLACED WITH MATERIAL THAT MEET THE REQUIREMENTS OF TABLE A.  
 3. IN THE EVENT THAT RECYCLED MATERIAL IS USE IT MUST MEET MNDOT REQUIREMENTS FOR RECYCLED BASE.

APPROVED:  
2 - 2003



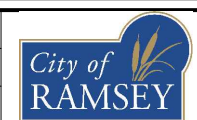
STANDARD DETAILS:  
MODIFIED CLASS 5  
SPECIFICATIONS  
CITY PLATE No. STR-26

DATE	REVISION
Apr 09, 2019 - 7:32am	

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

BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
 DRAWN BY: JJF  
 CHECKED BY: BRW  
 DATE: 4/8/19  
 FILE No. 19-01

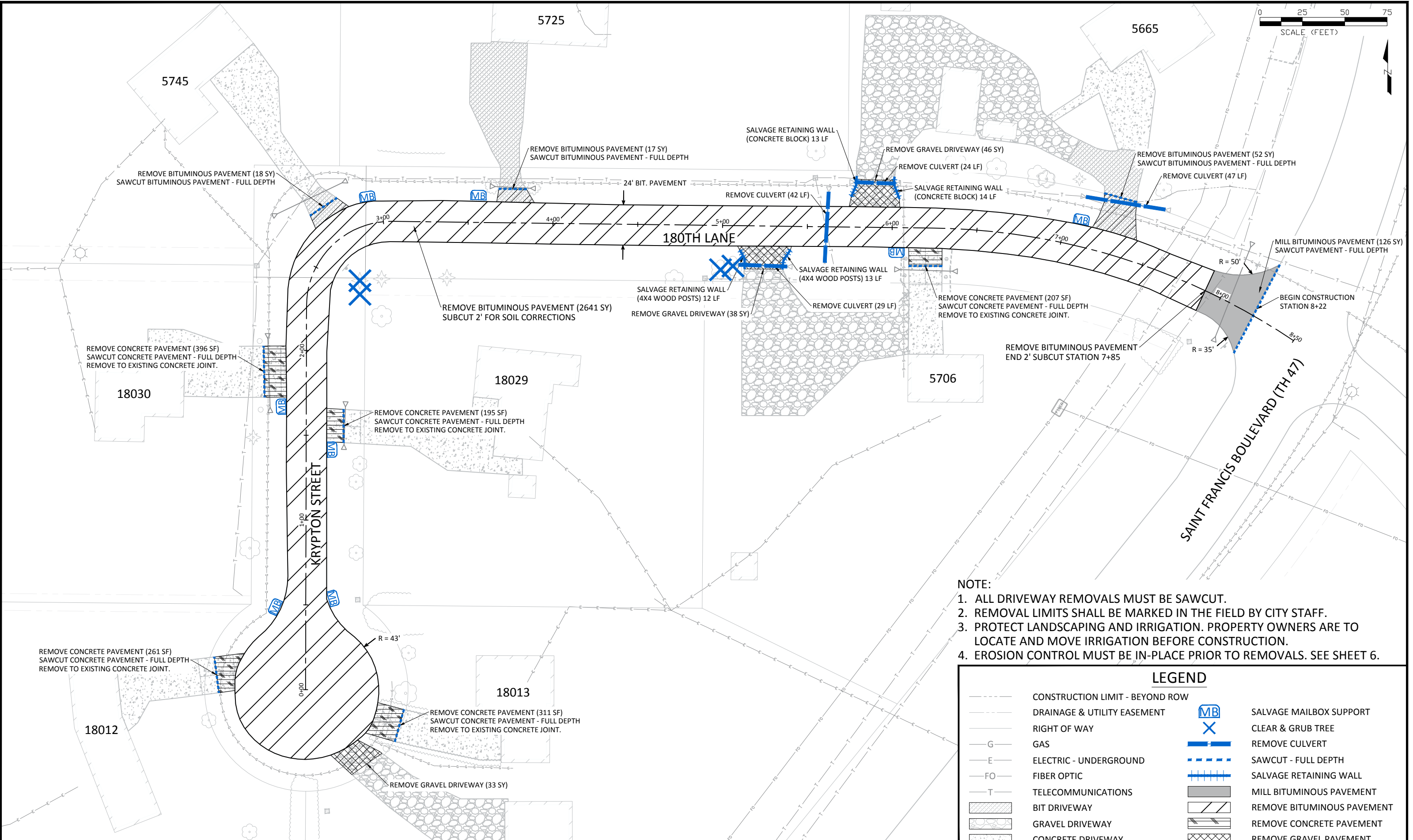


CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

TYPICAL SECTION

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA





- NOTE:**
1. ALL DRIVEWAY REMOVALS MUST BE SAWCUT.
  2. REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
  3. PROTECT LANDSCAPING AND IRRIGATION. PROPERTY OWNERS ARE TO LOCATE AND MOVE IRRIGATION BEFORE CONSTRUCTION.
  4. EROSION CONTROL MUST BE IN-PLACE PRIOR TO REMOVALS. SEE SHEET 6.

LEGEND	
	CONSTRUCTION LIMIT - BEYOND ROW
	DRAINAGE & UTILITY EASEMENT
	RIGHT OF WAY
	GAS
	ELECTRIC - UNDERGROUND
	FIBER OPTIC
	TELECOMMUNICATIONS
	BIT DRIVEWAY
	GRAVEL DRIVEWAY
	CONCRETE DRIVEWAY
	SALVAGE MAILBOX SUPPORT
	CLEAR & GRUB TREE
	REMOVE CULVERT
	SAWCUT - FULL DEPTH
	SALVAGE RETAINING WALL
	MILL BITUMINOUS PAVEMENT
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE GRAVEL PAVEMENT

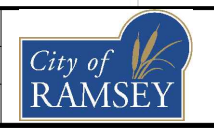
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

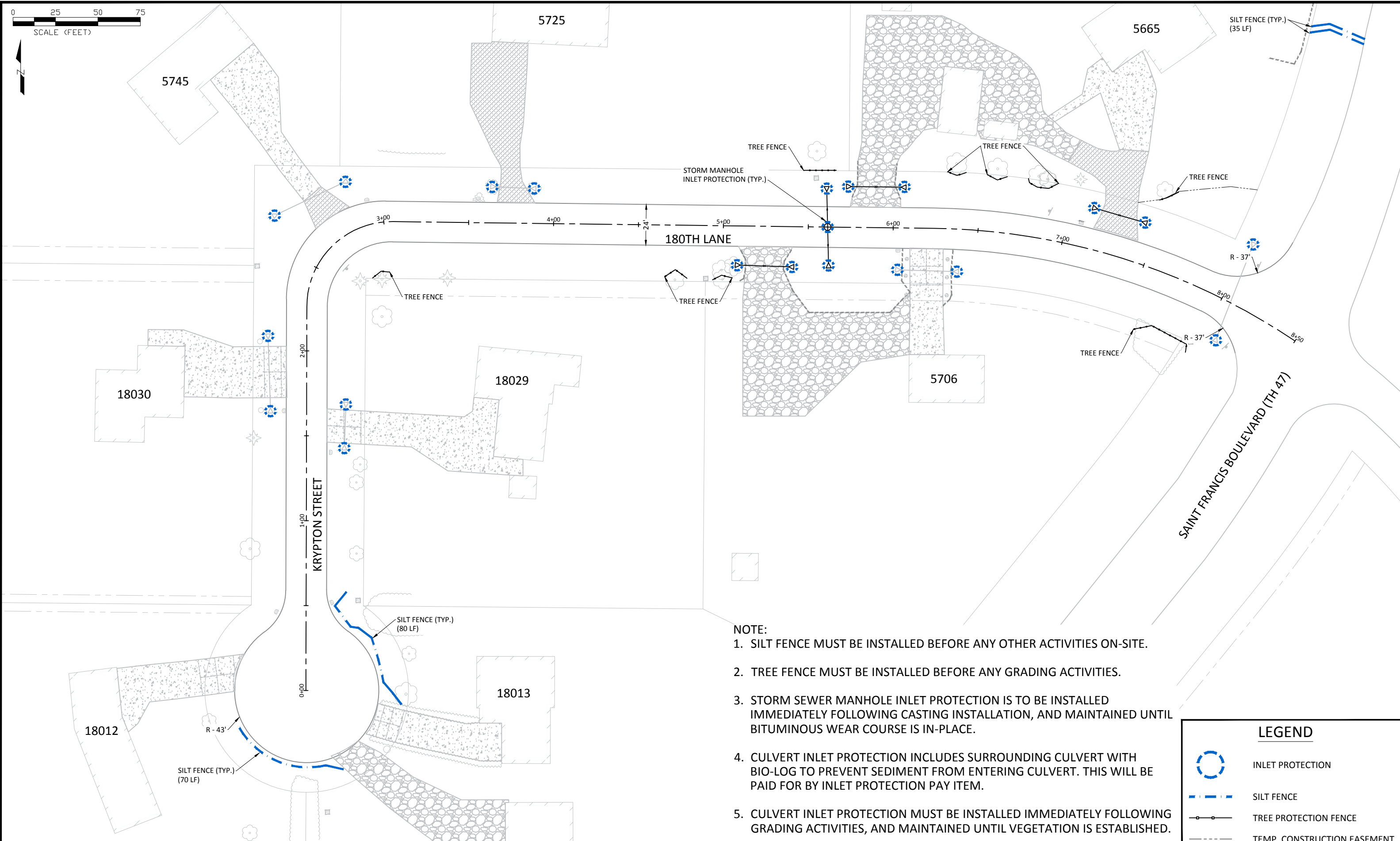
DATE: 4/8/19  
FILE No. 19-01



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

**EXISTING CONDITIONS AND REMOVALS**

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA



- NOTE:**
1. SILT FENCE MUST BE INSTALLED BEFORE ANY OTHER ACTIVITIES ON-SITE.
  2. TREE FENCE MUST BE INSTALLED BEFORE ANY GRADING ACTIVITIES.
  3. STORM SEWER MANHOLE INLET PROTECTION IS TO BE INSTALLED IMMEDIATELY FOLLOWING CASTING INSTALLATION, AND MAINTAINED UNTIL BITUMINOUS WEAR COURSE IS IN-PLACE.
  4. CULVERT INLET PROTECTION INCLUDES SURROUNDING CULVERT WITH BIO-LOG TO PREVENT SEDIMENT FROM ENTERING CULVERT. THIS WILL BE PAID FOR BY INLET PROTECTION PAY ITEM.
  5. CULVERT INLET PROTECTION MUST BE INSTALLED IMMEDIATELY FOLLOWING GRADING ACTIVITIES, AND MAINTAINED UNTIL VEGETATION IS ESTABLISHED.

LEGEND	
	INLET PROTECTION
	SILT FENCE
	TREE PROTECTION FENCE
	TEMP. CONSTRUCTION EASEMENT

DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

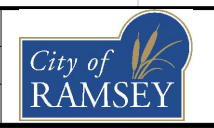
DESIGNED BY:  
JJF

DRAWN BY:  
JJF

CHECKED BY:  
BRW

DATE:  
4/8/19

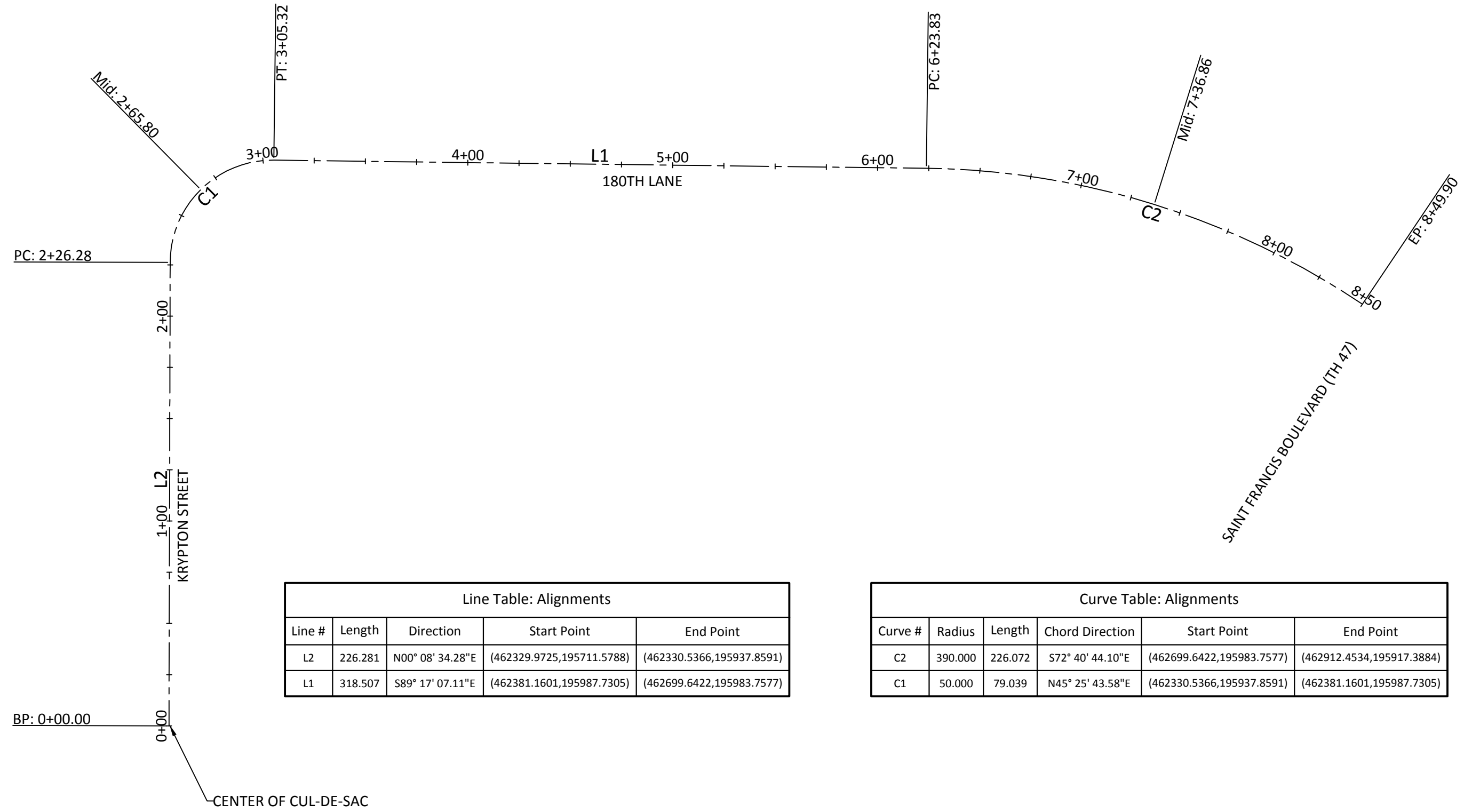
FILE No.  
19-01



CITY OF RAMSEY  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

EROSION CONTROL

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA



Line Table: Alignments				
Line #	Length	Direction	Start Point	End Point
L2	226.281	N00° 08' 34.28"E	(462329.9725,195711.5788)	(462330.5366,195937.8591)
L1	318.507	S89° 17' 07.11"E	(462381.1601,195987.7305)	(462699.6422,195983.7577)

Curve Table: Alignments					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C2	390.000	226.072	S72° 40' 44.10"E	(462699.6422,195983.7577)	(462912.4534,195917.3884)
C1	50.000	79.039	N45° 25' 43.58"E	(462330.5366,195937.8591)	(462381.1601,195987.7305)

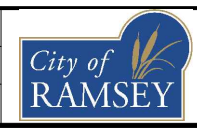
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

DATE: 4/8/19  
FILE No. 19-01

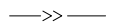

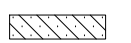




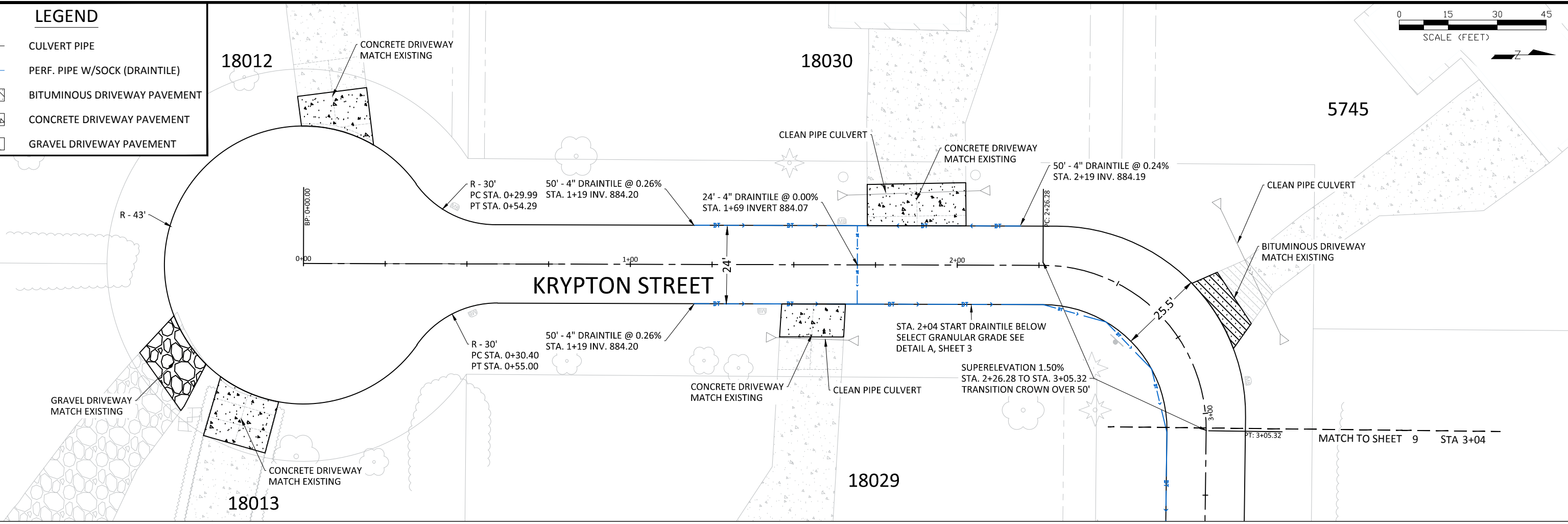
CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

ALIGNMENT LAYOUT

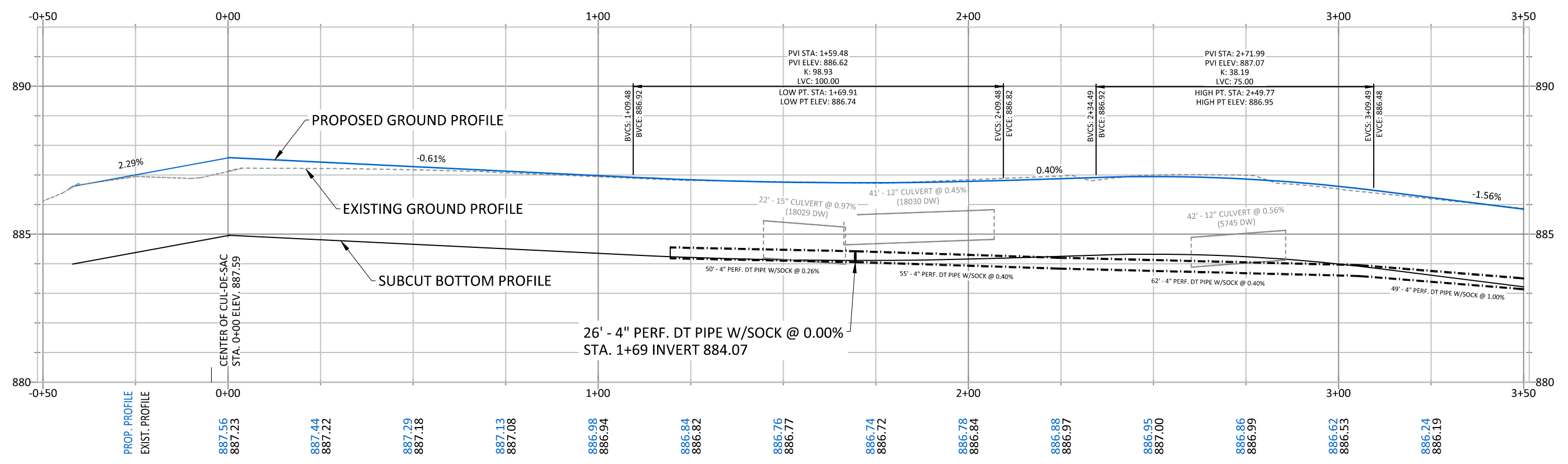
FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA

**LEGEND**

-  CULVERT PIPE
-  PERF. PIPE W/SOCK (DRAINTILE)
-  BITUMINOUS DRIVEWAY PAVEMENT
-  CONCRETE DRIVEWAY PAVEMENT
-  GRAVEL DRIVEWAY PAVEMENT



Profile View of Alignment - 19-01 Centerline



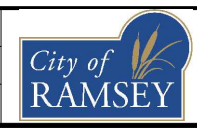
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

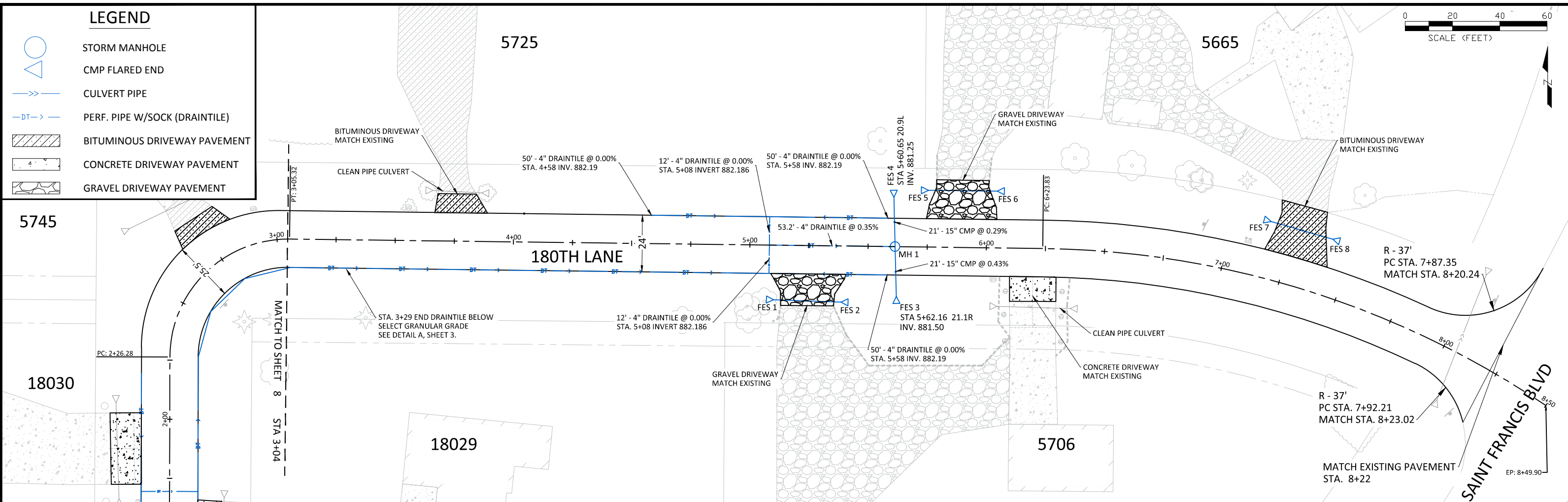
DATE: 4/8/19  
FILE No. 19-01



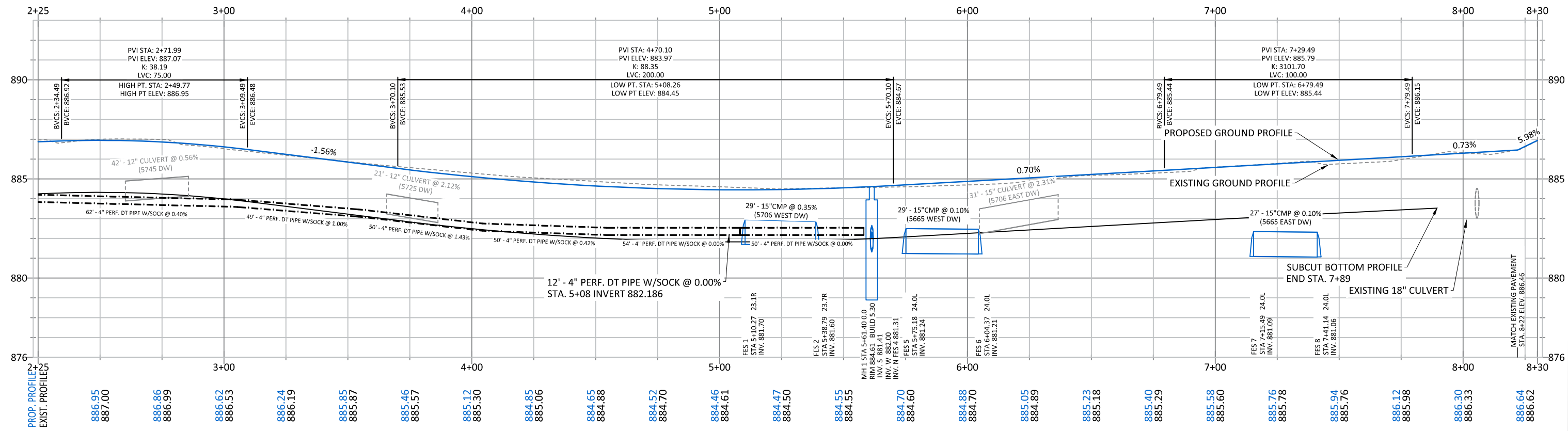
CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

STREET AND STORM SEWER - KRYPTON STREET

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA



Profile View of Alignment - 19-01 Centerline



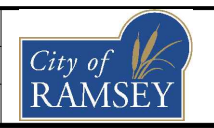
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
 DRAWN BY: JJF  
 CHECKED BY: BRW

DATE: 4/8/19  
 FILE NO. 19-01



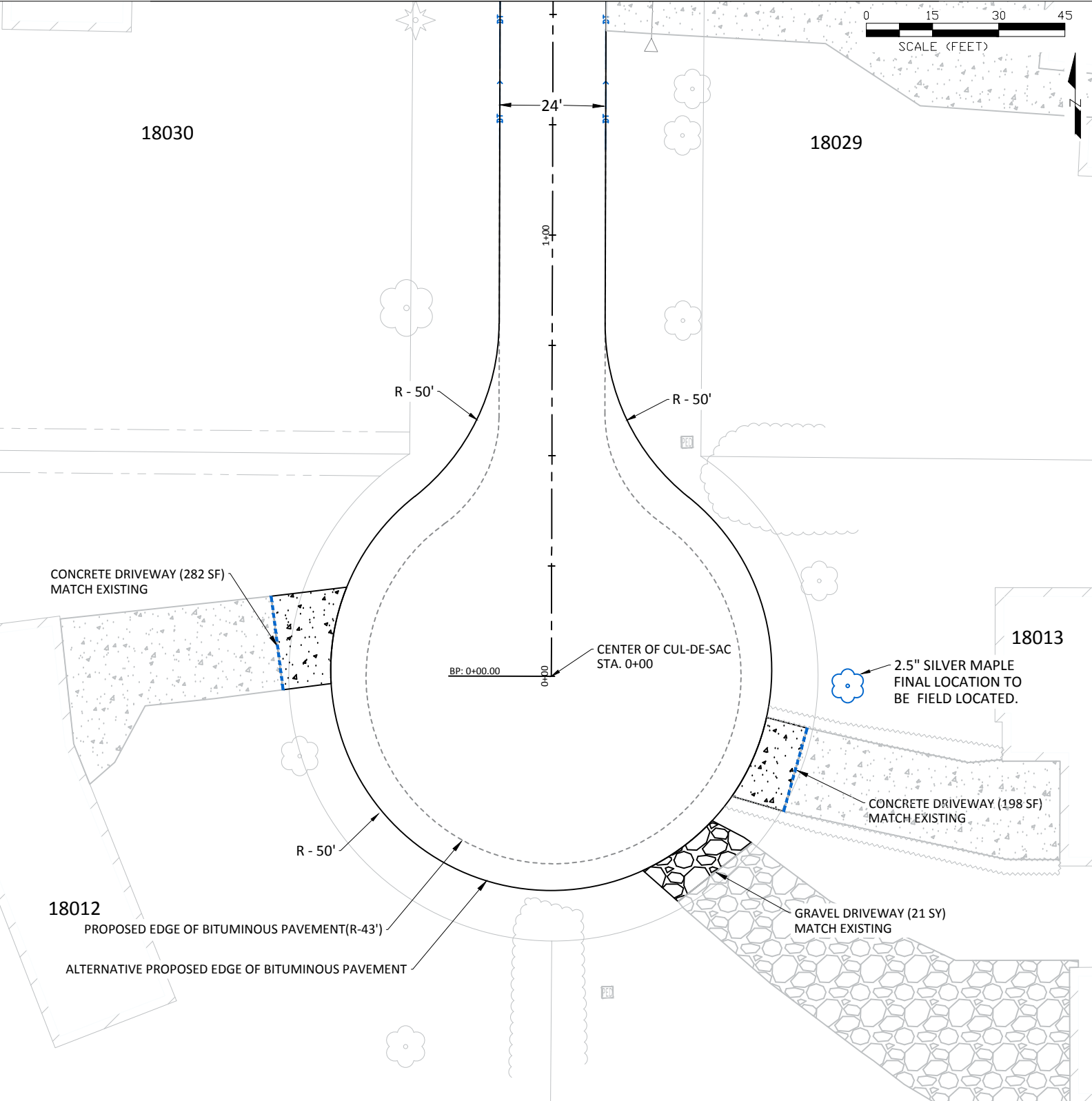
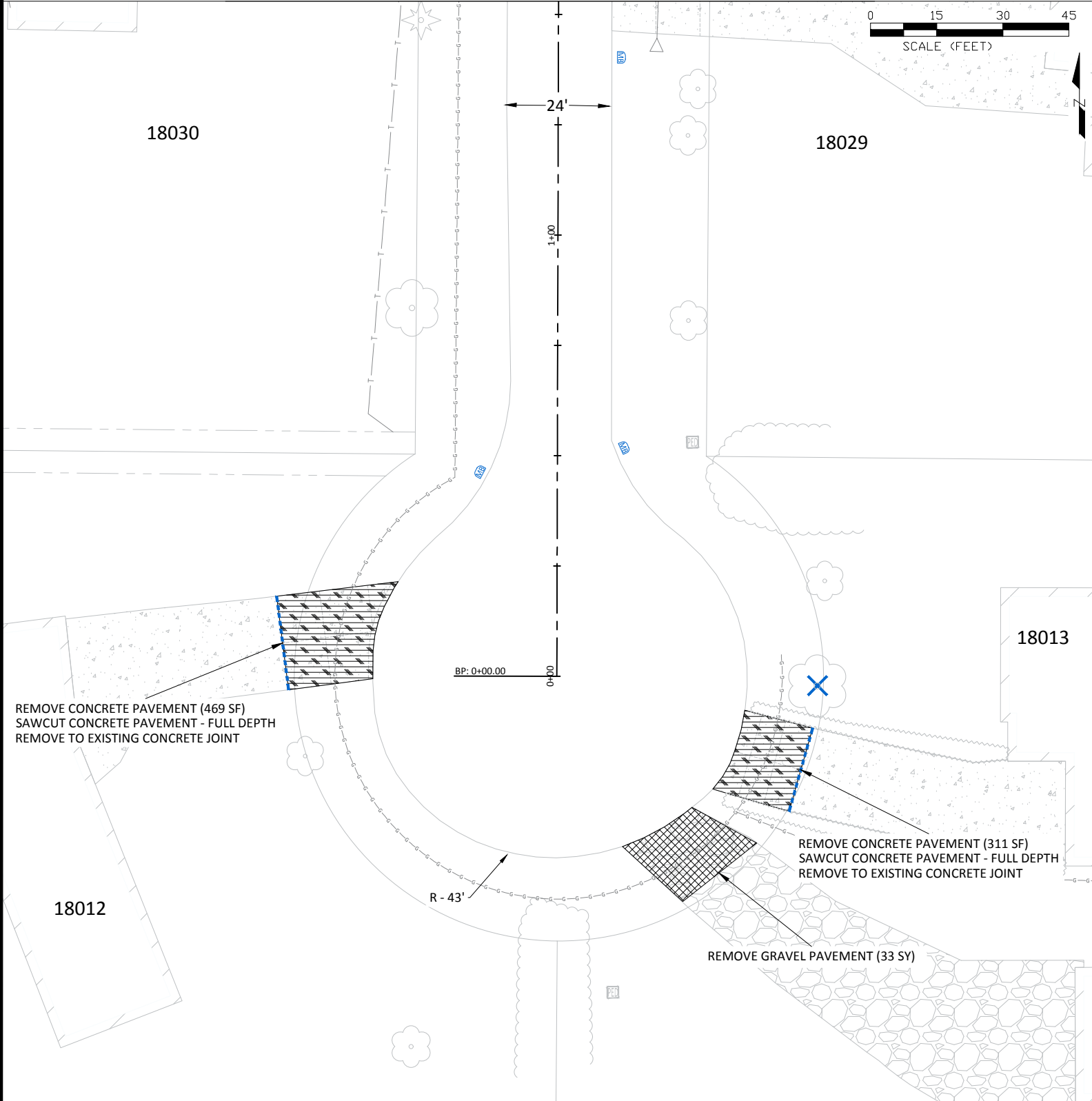
CITY OF RAMSEY  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

STREET AND STORM SEWER - 180TH LANE

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA

ALTERNATIVE CUL-DE-SAC (100-FOOT DIAMETER) REMOVALS

ALTERNATIVE CUL-DE-SAC (100-FOOT DIAMETER) PROPOSED CONDITIONS



**LEGEND**

—	EASEMENT	MB	SALVAGE MAILBOX SUPPORT
—	RIGHT OF WAY	X	CLEAR & GRUB TREE
G	GAS	—	REMOVE CULVERT
E	ELECTRIC - UNDERGROUND	—	SAWCUT - FULL DEPTH
FO	FIBER OPTIC	—	SALVAGE RETAINING WALL
T	TELECOMMUNICATIONS	—	MILL BITUMINOUS PAVEMENT
—	BIT DRIVEWAY	—	REMOVE BITUMINOUS PAVEMENT
—	GRAVEL DRIVEWAY	—	REMOVE CONCRETE PAVEMENT
—	CONCRETE DRIVEWAY	—	REMOVE GRAVEL PAVEMENT

**NOTE:**

1. ALL DRIVEWAY REMOVALS MUST BE SAWCUT.
2. REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
3. PROTECT LANDSCAPING AND IRRIGATION. PROPERTY OWNERS ARE TO LOCATE AND MOVE IRRIGATION BEFORE CONSTRUCTION.
4. EROSION CONTROL MUST BE IN-PLACE PRIOR TO REMOVALS. SEE SHEET 6.

**LEGEND**

—	PROPOSED TREE
—	CULVERT PIPE
—	PERF. PIPE W/SOCK (DRAINTILE)
—	BITUMINOUS DRIVEWAY PAVEMENT
—	CONCRETE DRIVEWAY PAVEMENT
—	GRAVEL DRIVEWAY PAVEMENT

**NOTE:**

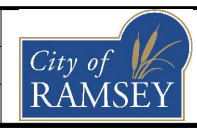
1. PROPOSED CUL-DE-SAC RADIUS ENLARGED TO 50-FEET, EXISTING 43-FEET.
2. ASSUMED DRIVEWAY MATCHES ARE SHOWN 8-FEET BEHIND PROPOSED EDGE OF PAVEMENT.
3. 2-FOOT SUBCUT WILL BE EXTENDED TO ACCOMMODATE THE ENLARGED CUL-DE-SAC DIAMETER.

DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

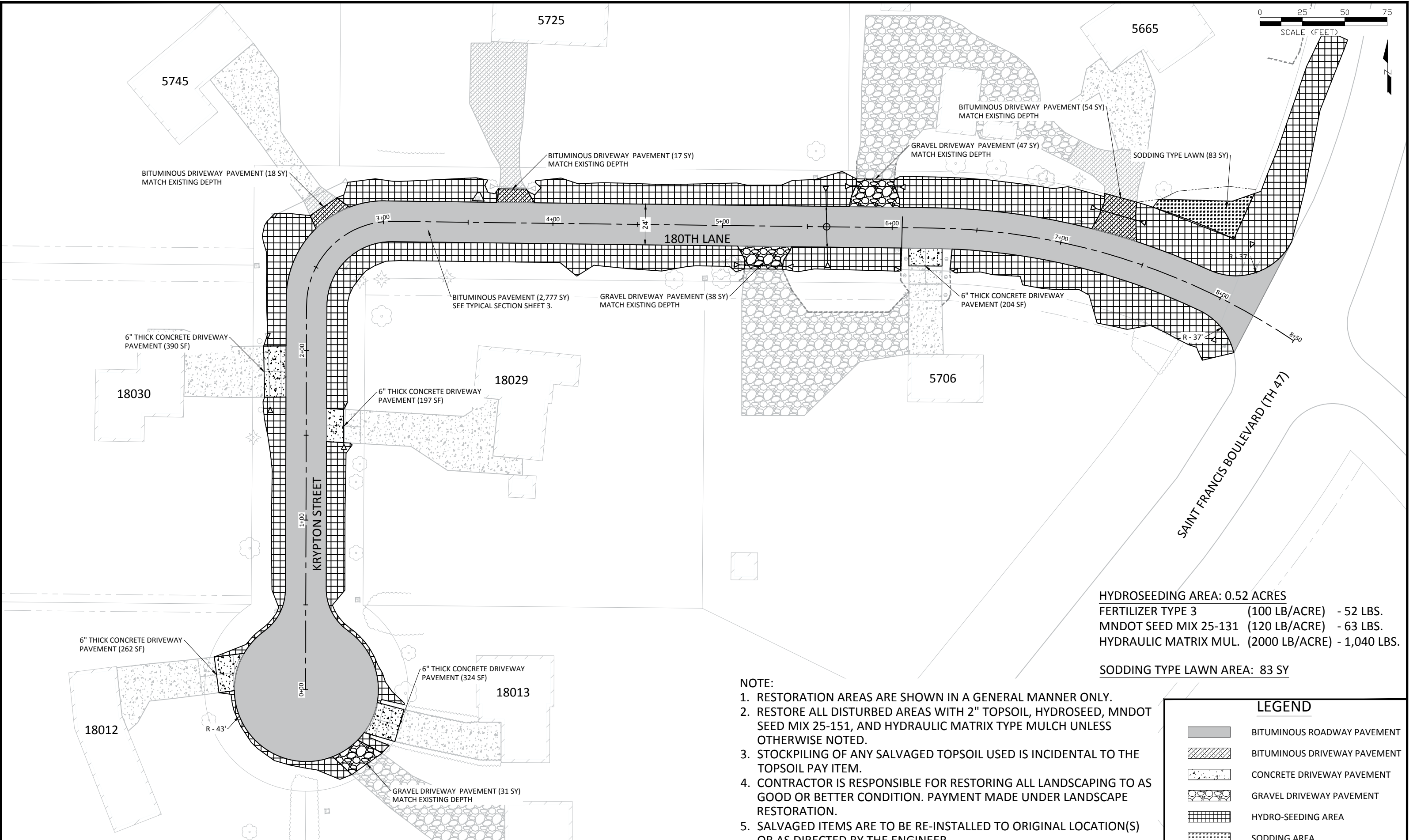
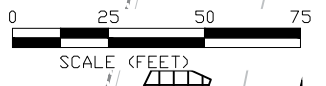
DESIGNED BY: JJF	DATE: 4/8/19
DRAWN BY: JJF	FILE No. 19-01
CHECKED BY: BRW	



**CITY OF RAMSEY**  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

**ALT A - KRYPTON STREET CUL-DE-SAC**

**FORD BROOK ESTATES STREET RECONSTRUCTIONS**  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA



HYDROSEEDING AREA: 0.52 ACRES  
 FERTILIZER TYPE 3 (100 LB/ACRE) - 52 LBS.  
 MNDOT SEED MIX 25-131 (120 LB/ACRE) - 63 LBS.  
 HYDRAULIC MATRIX MUL. (2000 LB/ACRE) - 1,040 LBS.

SODDING TYPE LAWN AREA: 83 SY

- NOTE:**
1. RESTORATION AREAS ARE SHOWN IN A GENERAL MANNER ONLY.
  2. RESTORE ALL DISTURBED AREAS WITH 2" TOPSOIL, HYDROSEED, MNDOT SEED MIX 25-151, AND HYDRAULIC MATRIX TYPE MULCH UNLESS OTHERWISE NOTED.
  3. STOCKPILING OF ANY SALVAGED TOPSOIL USED IS INCIDENTAL TO THE TOPSOIL PAY ITEM.
  4. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL LANDSCAPING TO AS GOOD OR BETTER CONDITION. PAYMENT MADE UNDER LANDSCAPE RESTORATION.
  5. SALVAGED ITEMS ARE TO BE RE-INSTALLED TO ORIGINAL LOCATION(S) OR AS DIRECTED BY THE ENGINEER.

LEGEND	
	BITUMINOUS ROADWAY PAVEMENT
	BITUMINOUS DRIVEWAY PAVEMENT
	CONCRETE DRIVEWAY PAVEMENT
	GRAVEL DRIVEWAY PAVEMENT
	HYDRO-SEEDING AREA
	SODDING AREA

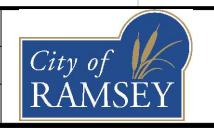
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
 DRAWN BY: JJF  
 CHECKED BY: BRW

DATE: 4/8/19  
 FILE No. 19-01

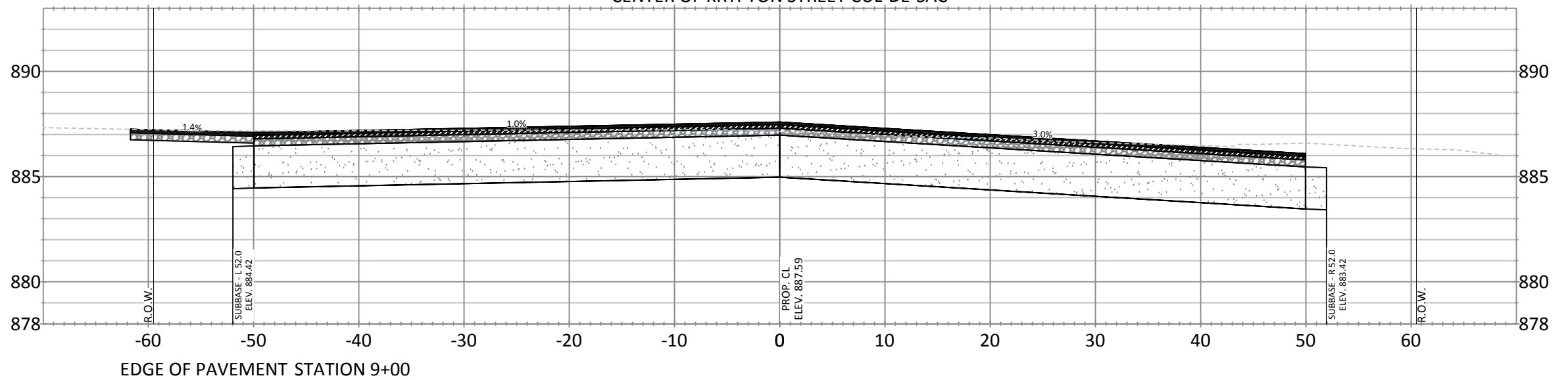


CITY OF RAMSEY  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

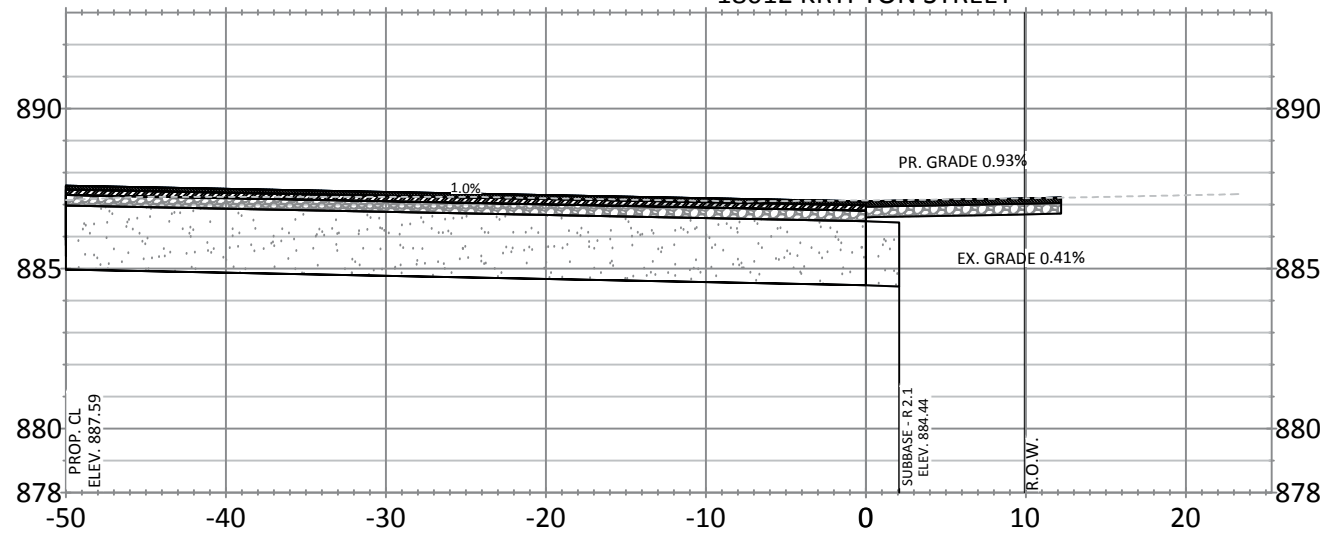
RESTORATION

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA

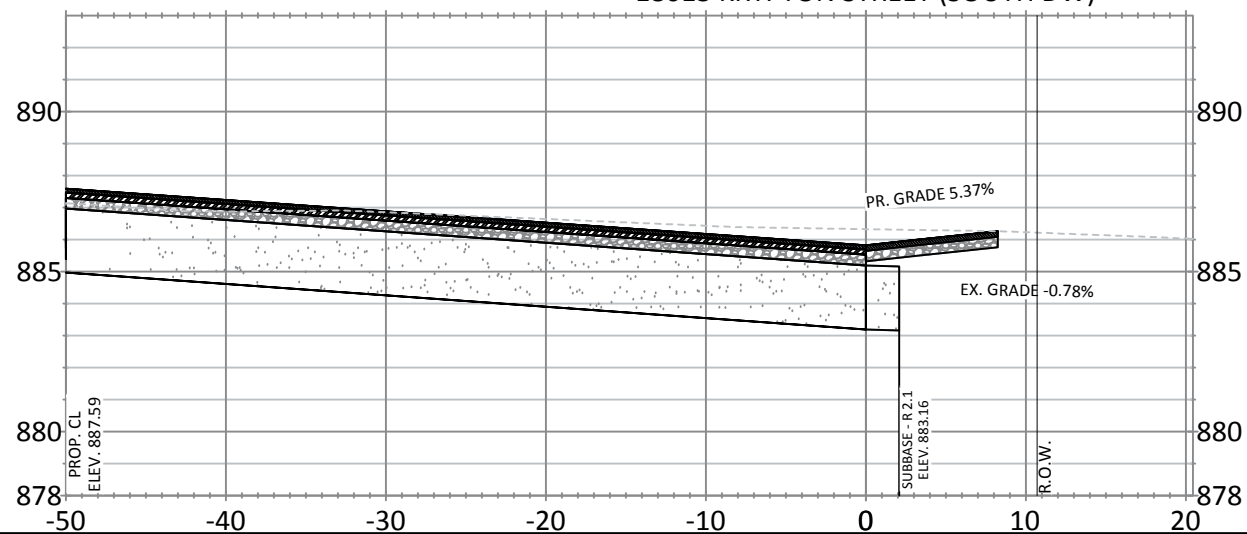
STATION 0+00  
CENTER OF KRYPTON STREET CUL-DE-SAC



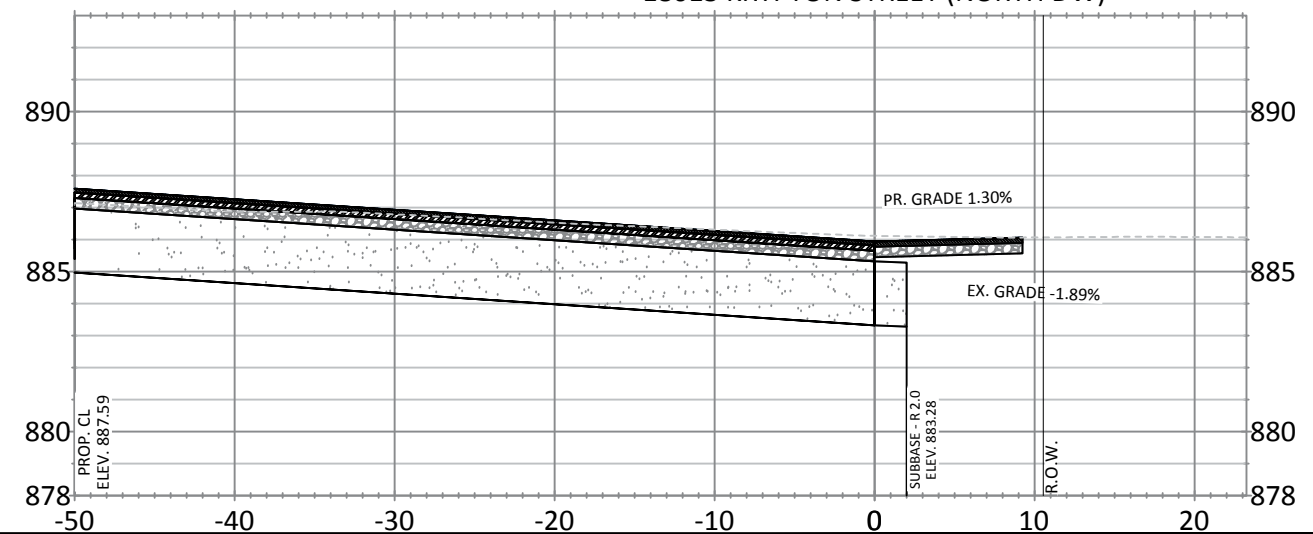
EDGE OF PAVEMENT STATION 9+00  
18012 KRYPTON STREET



EDGE OF PAVEMENT STATION 10+19  
18013 KRYPTON STREET (SOUTH DW)



EDGE OF PAVEMENT STATION 10+47  
18013 KRYPTON STREET (NORTH DW)



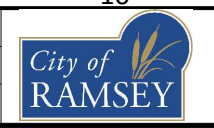
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT
5/31/19	ALTERNATIVE A CDS DIAMETER - 100'
Jun 03, 2019 - 10:36am	

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

DATE: 4/8/19  
FILE No. 19-01

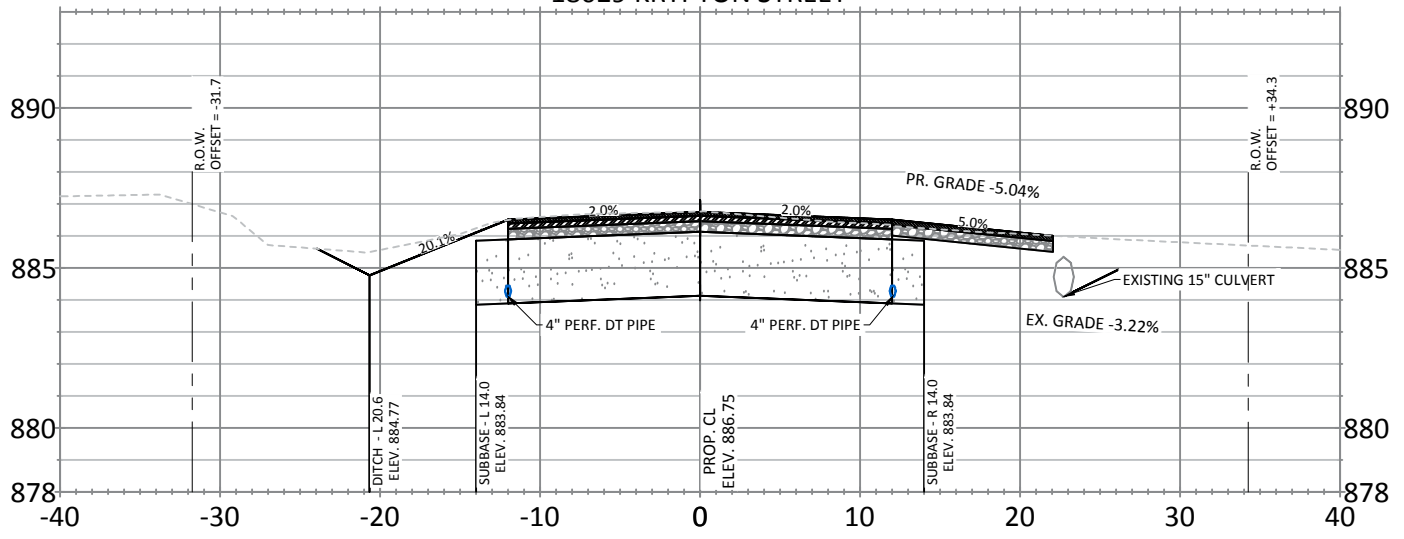


CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

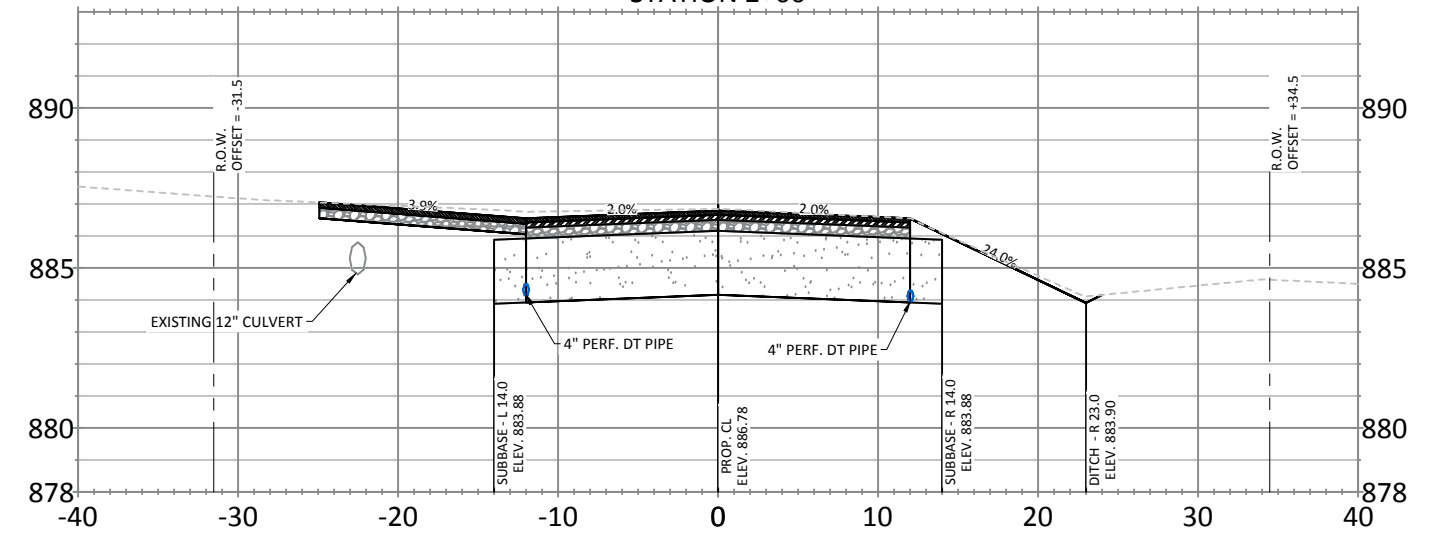
CROSS SECTIONS - KRYPTON STREET CUL-DE-SAC

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA

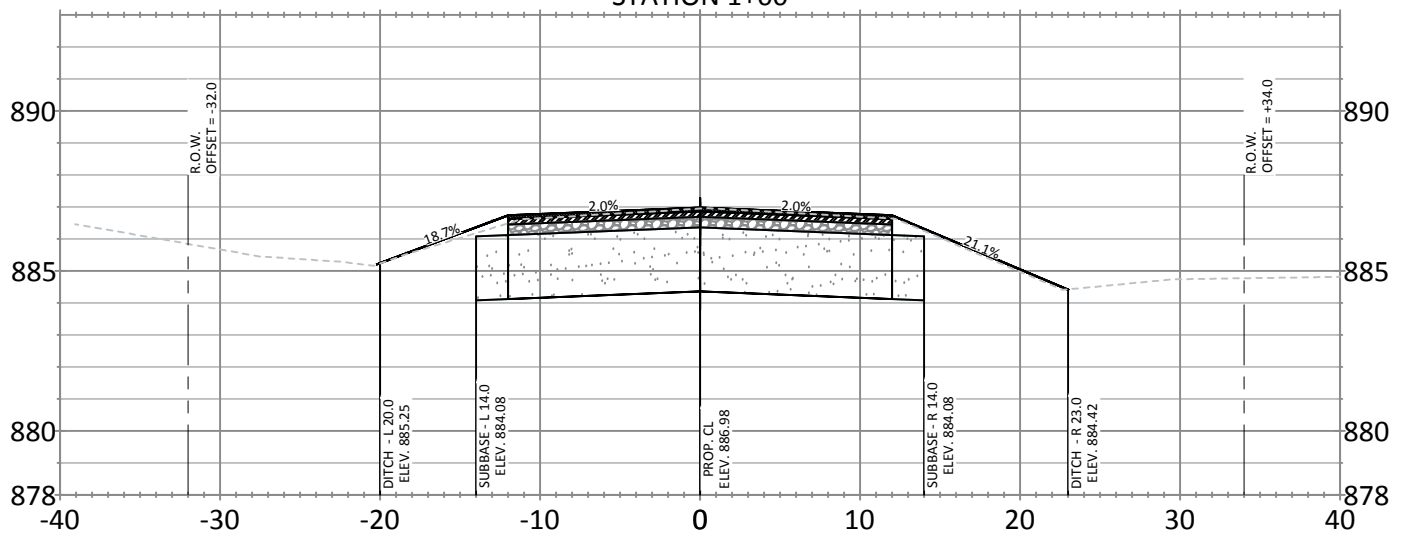
STATION 1+56  
18029 KRYPTON STREET



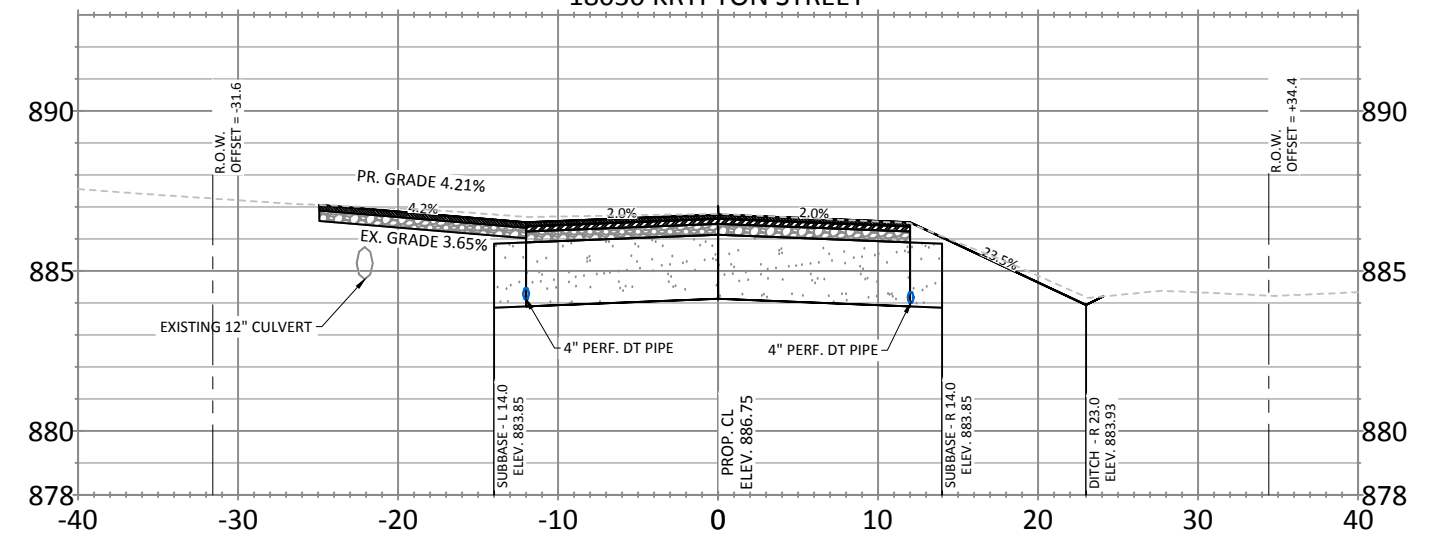
STATION 2+00



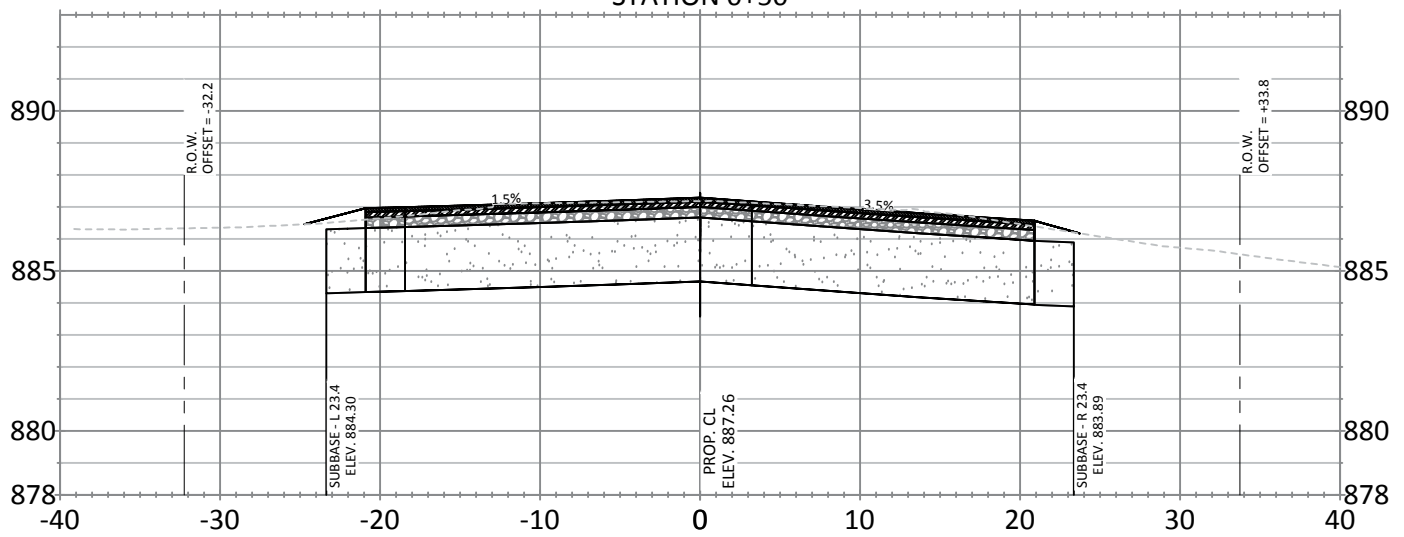
STATION 1+00



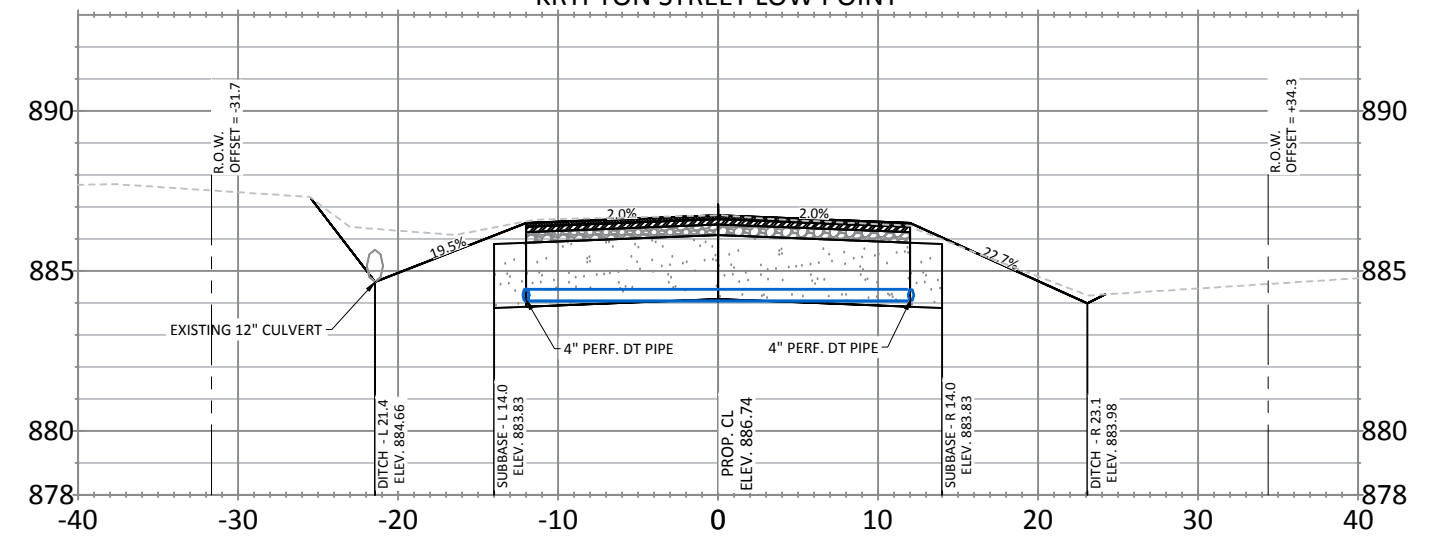
STATION 1+88  
18030 KRYPTON STREET



STATION 0+50



STATION 1+69  
KRYPTON STREET LOW POINT



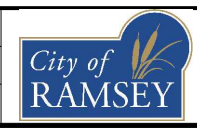
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

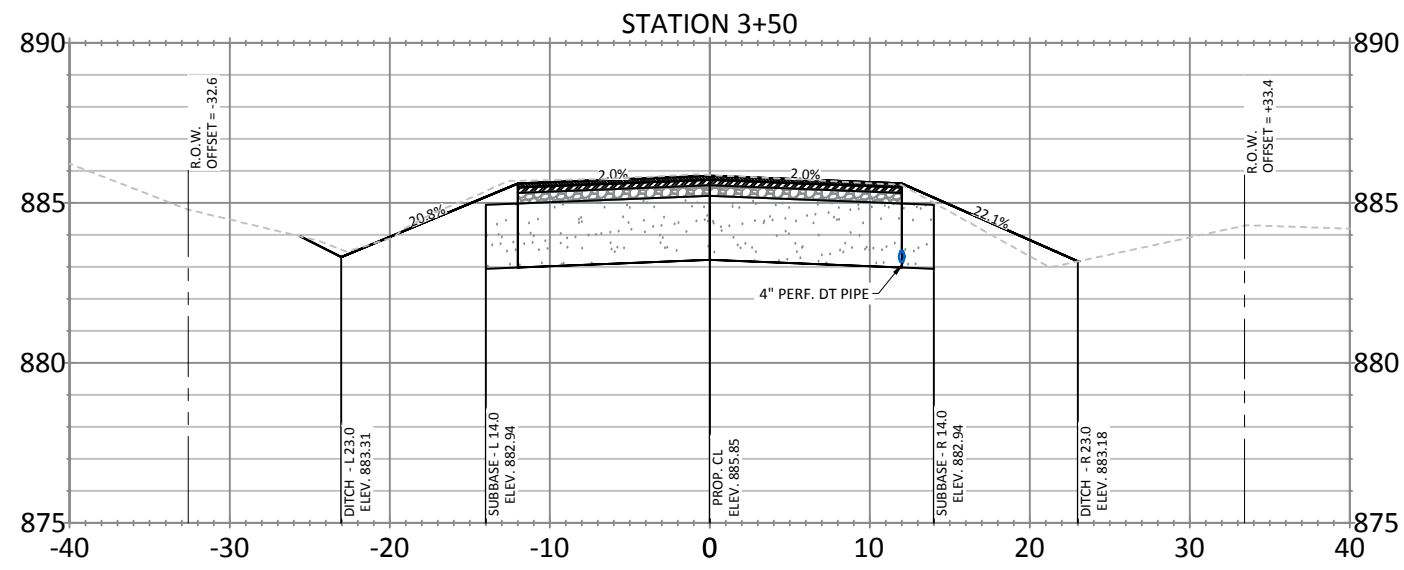
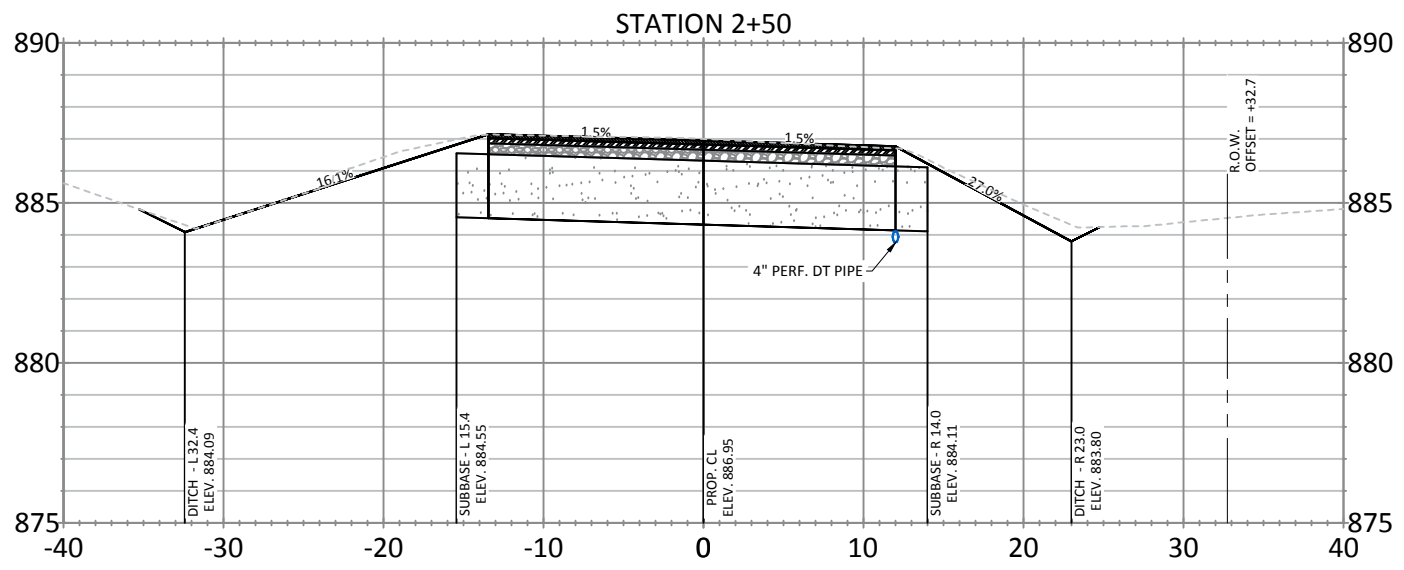
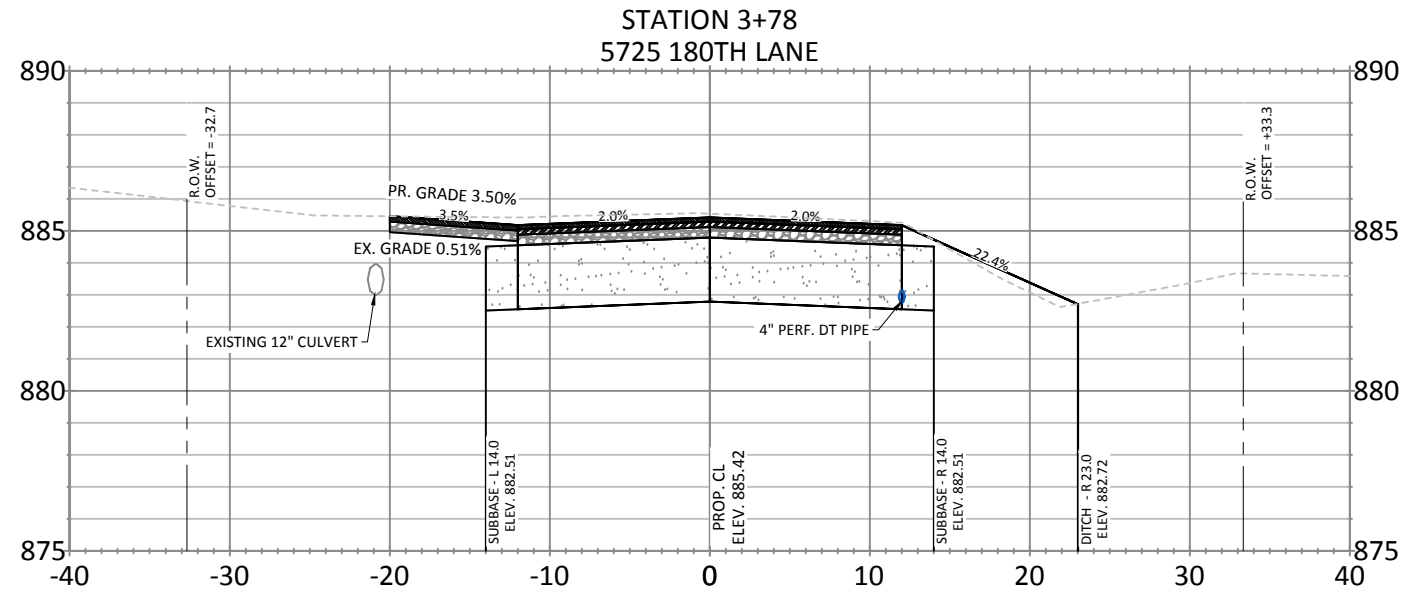
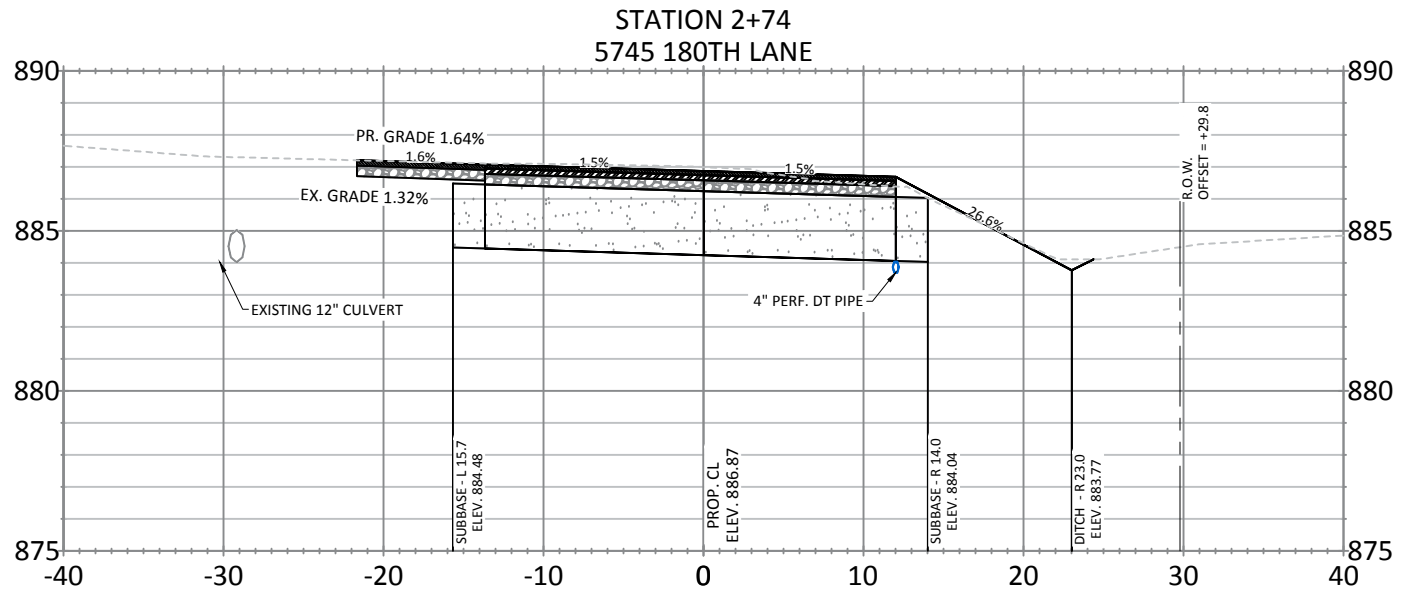
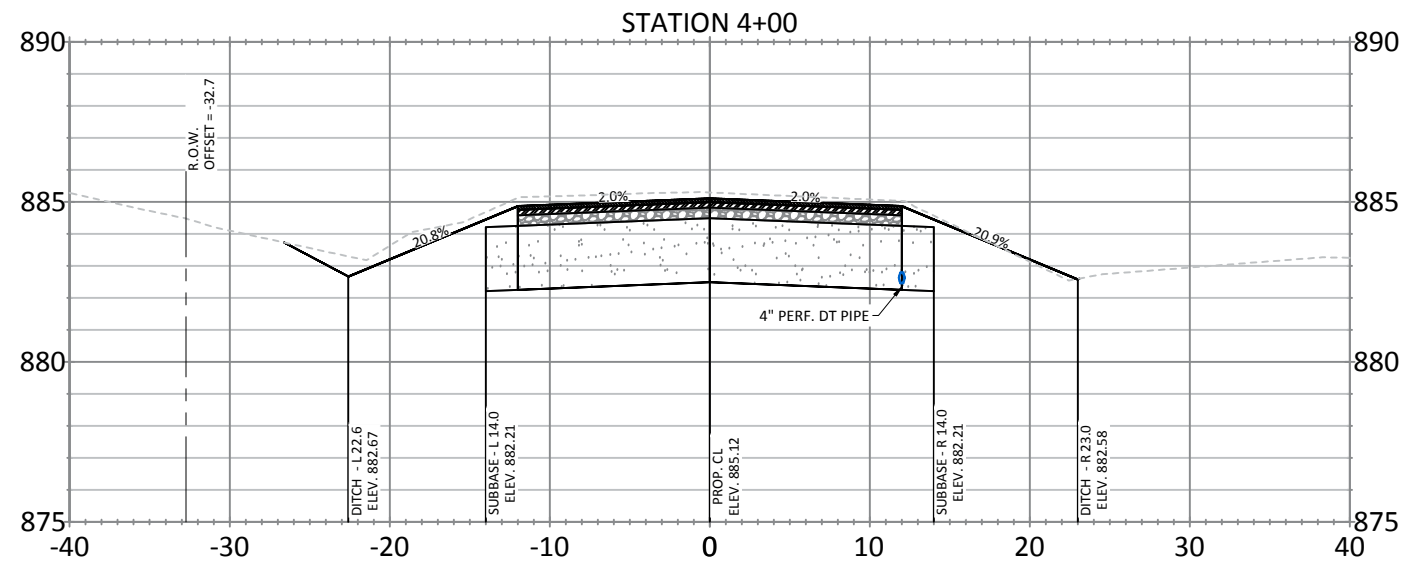
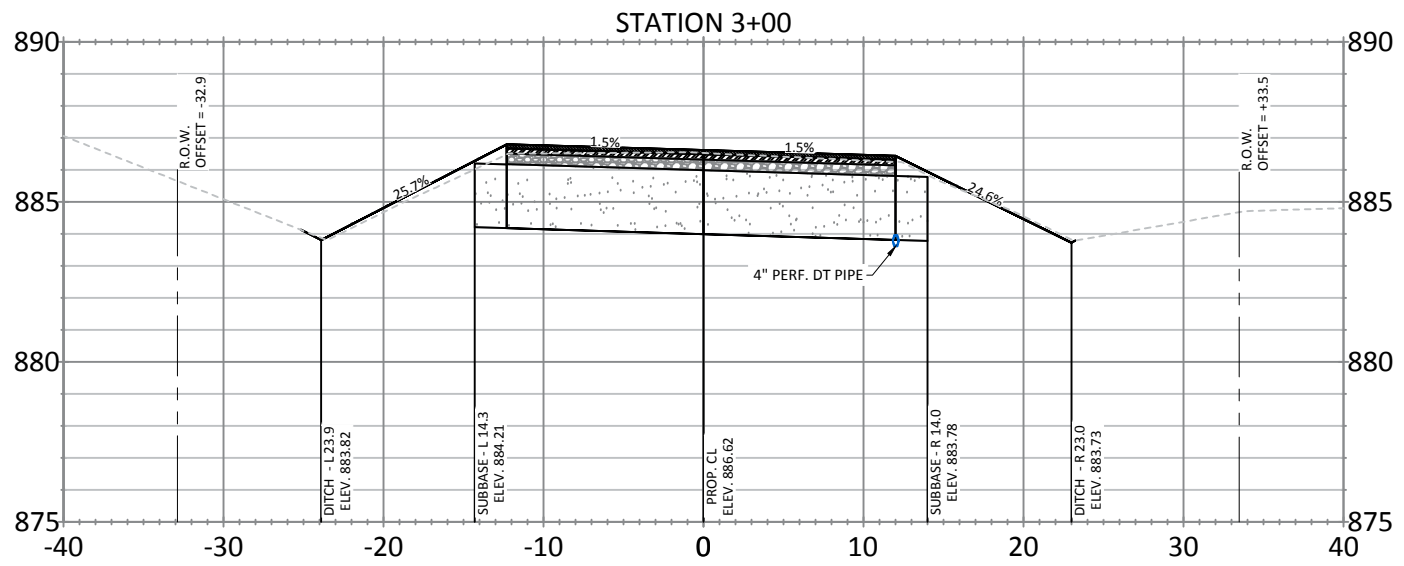
DATE: 4/8/19  
FILE NO. 19-01



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS - STA. 0+50 TO 2+00

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA



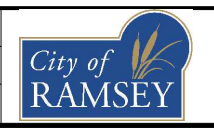
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

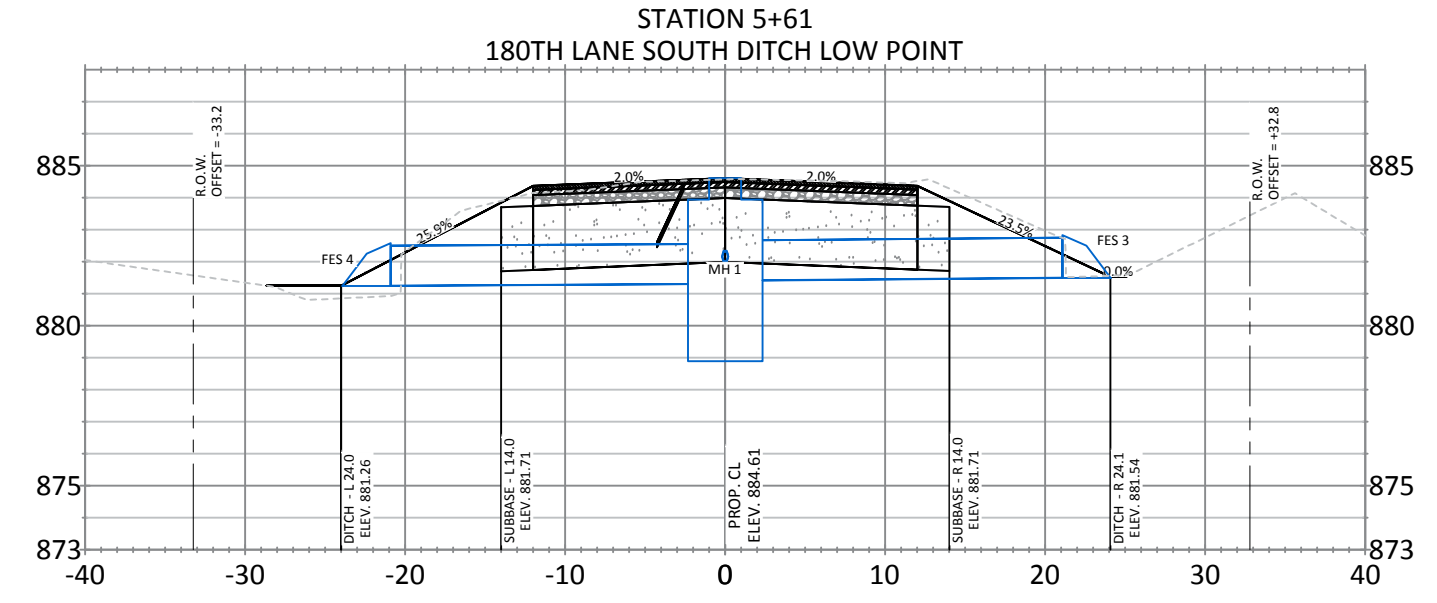
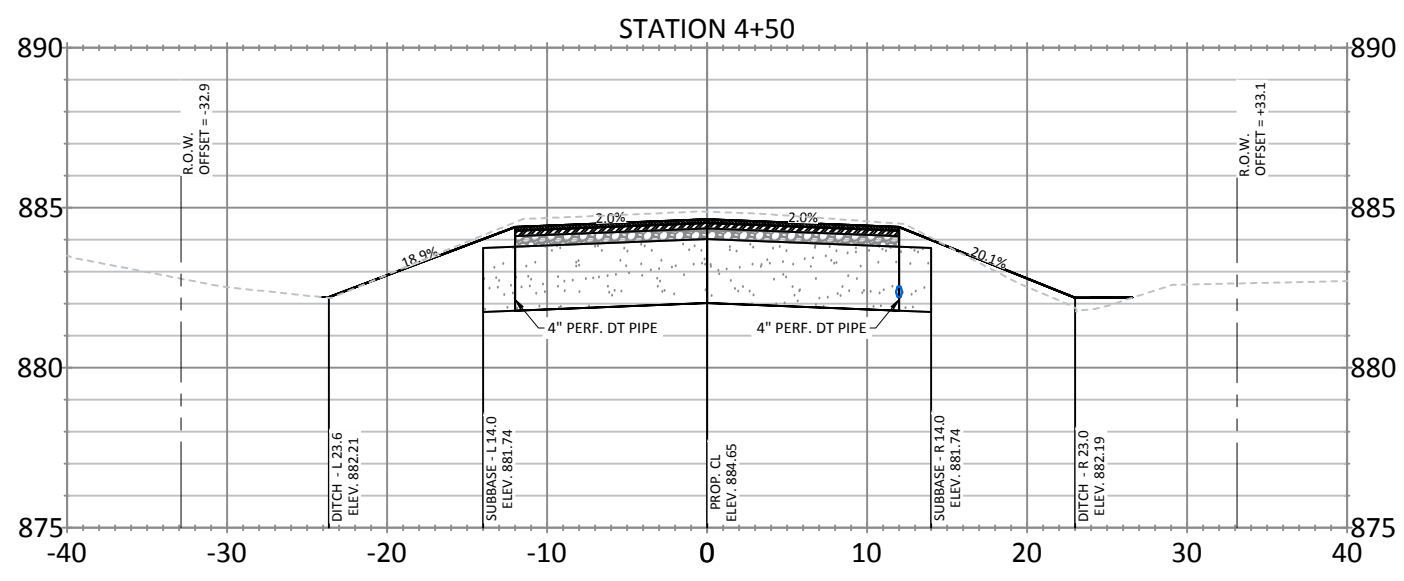
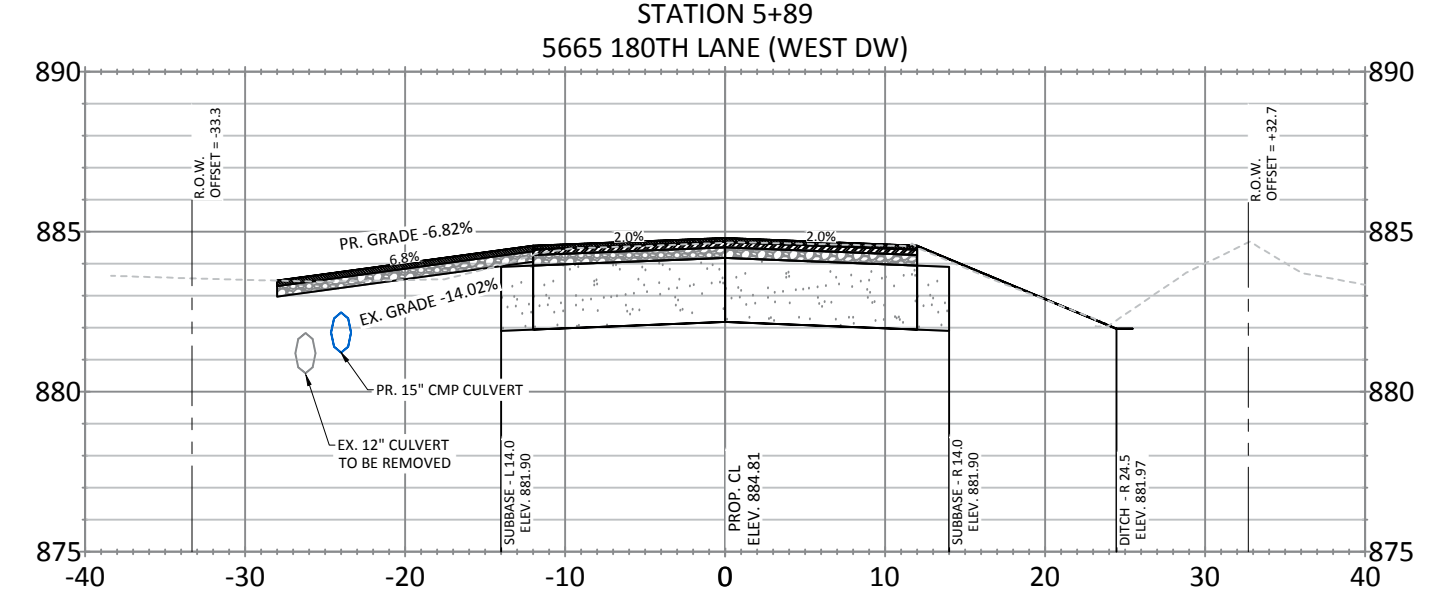
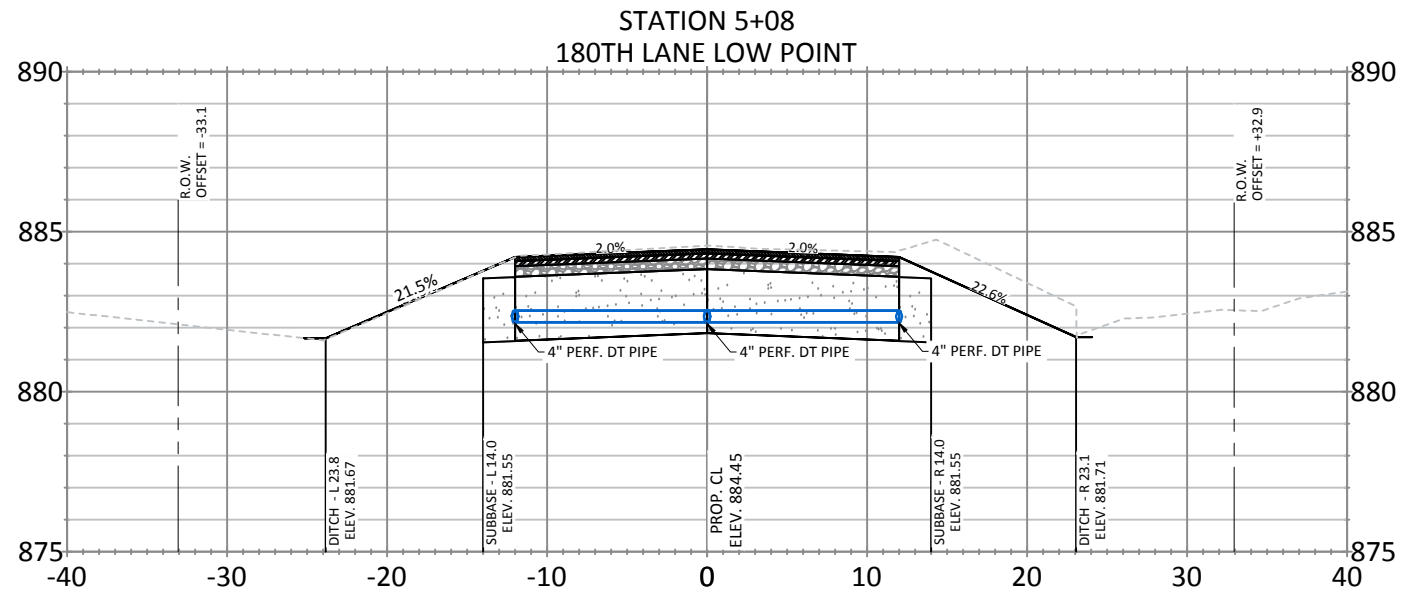
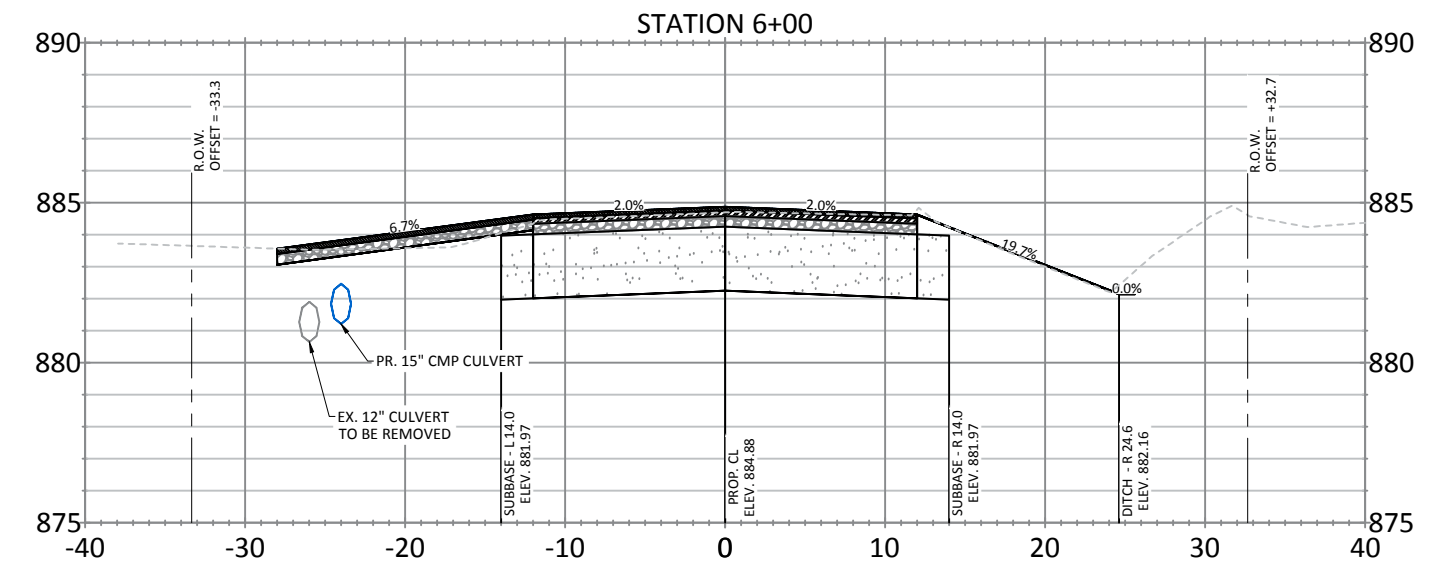
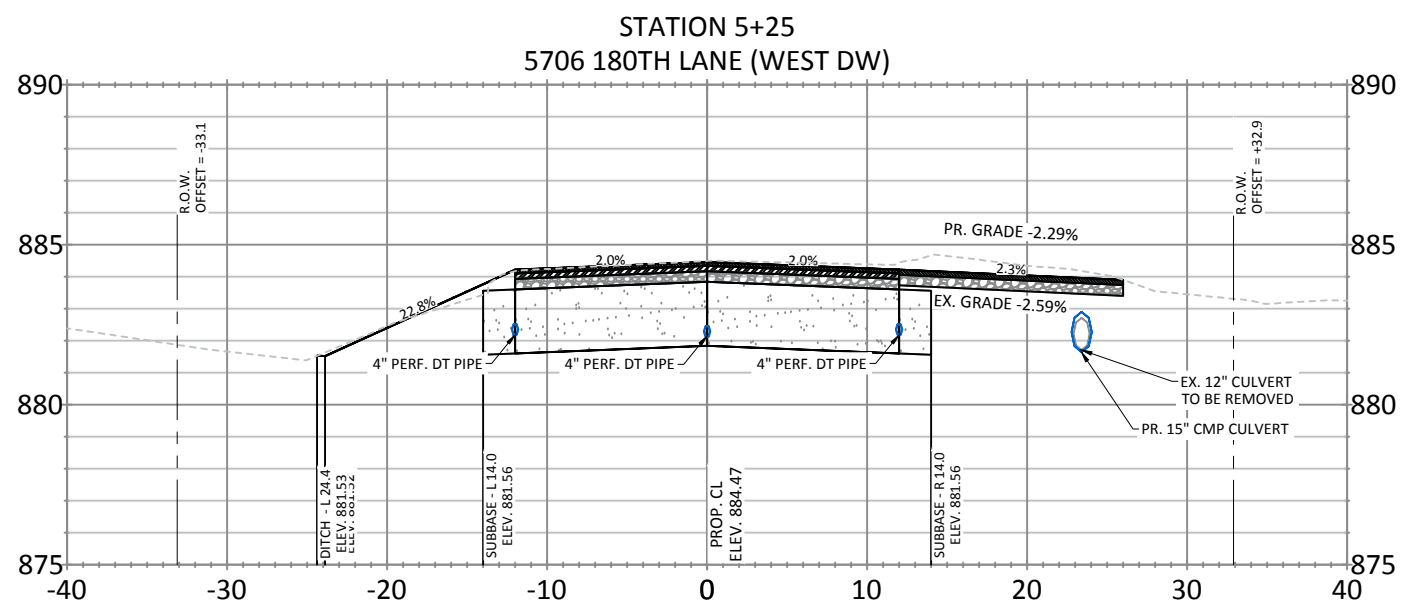
DATE: 4/8/19  
FILE No. 19-01



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS - STA. 2+50 TO 4+00

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA



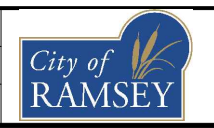
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY:  
JJF  
DRAWN BY:  
JJF  
CHECKED BY:  
BRW

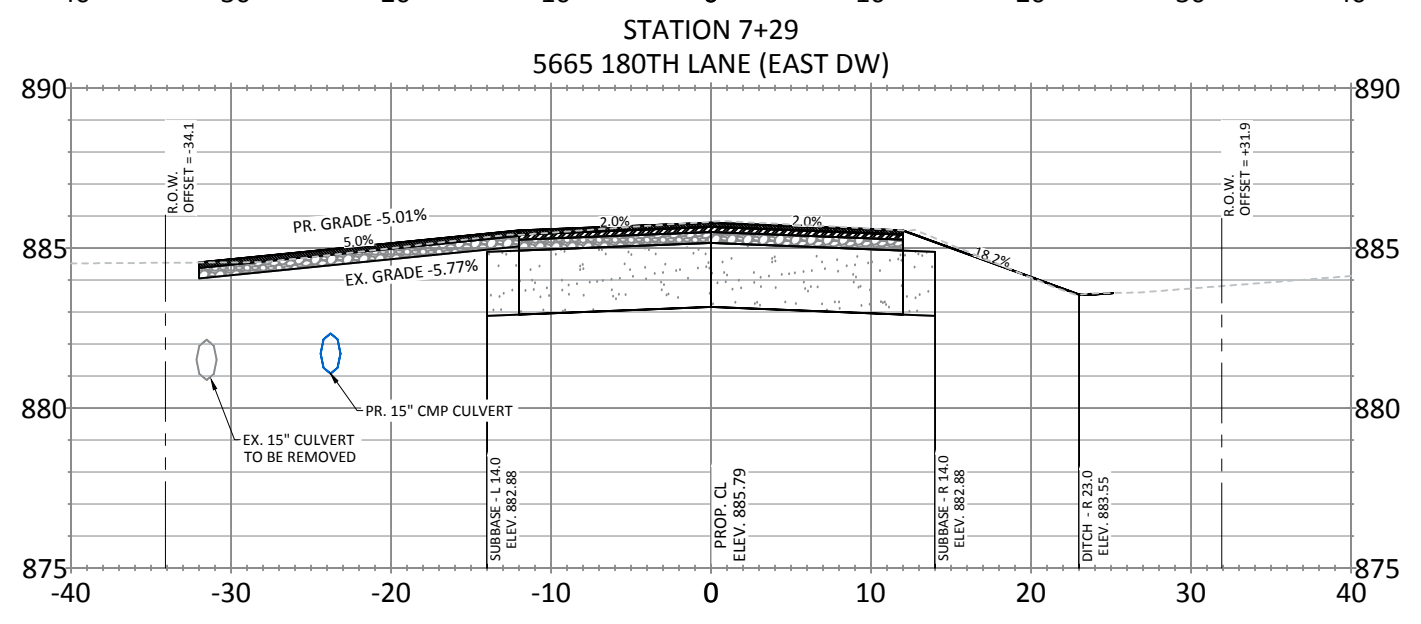
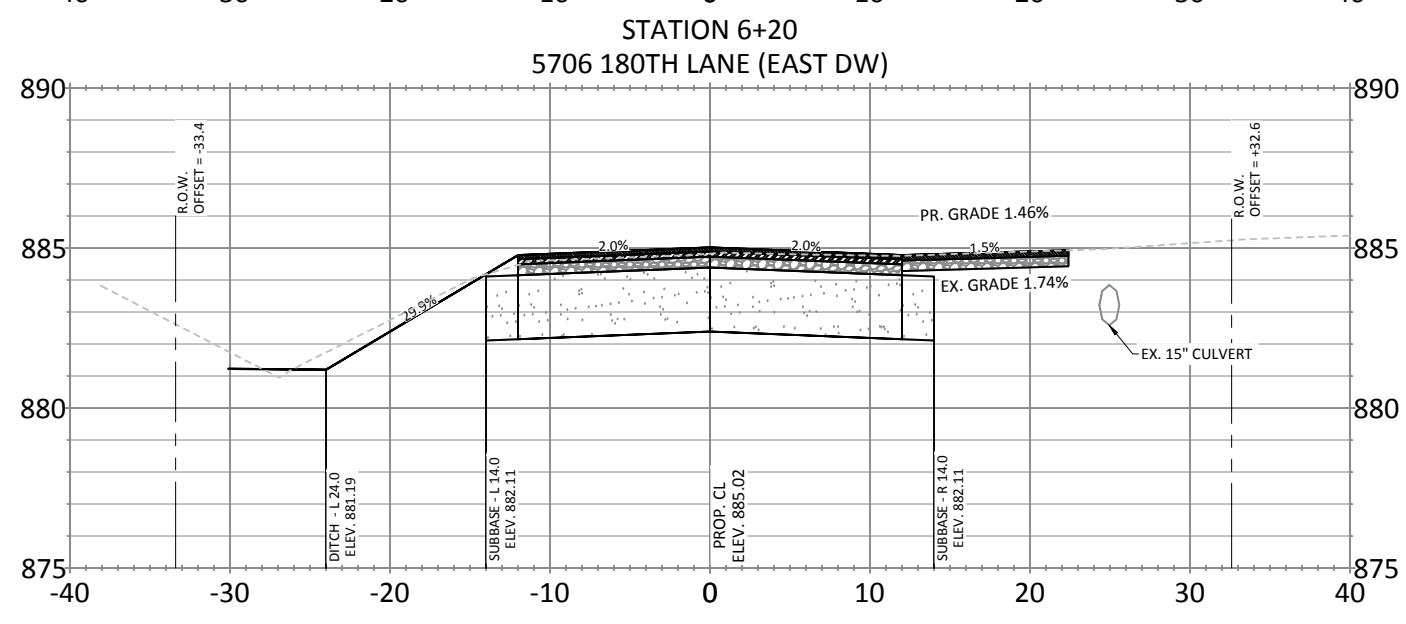
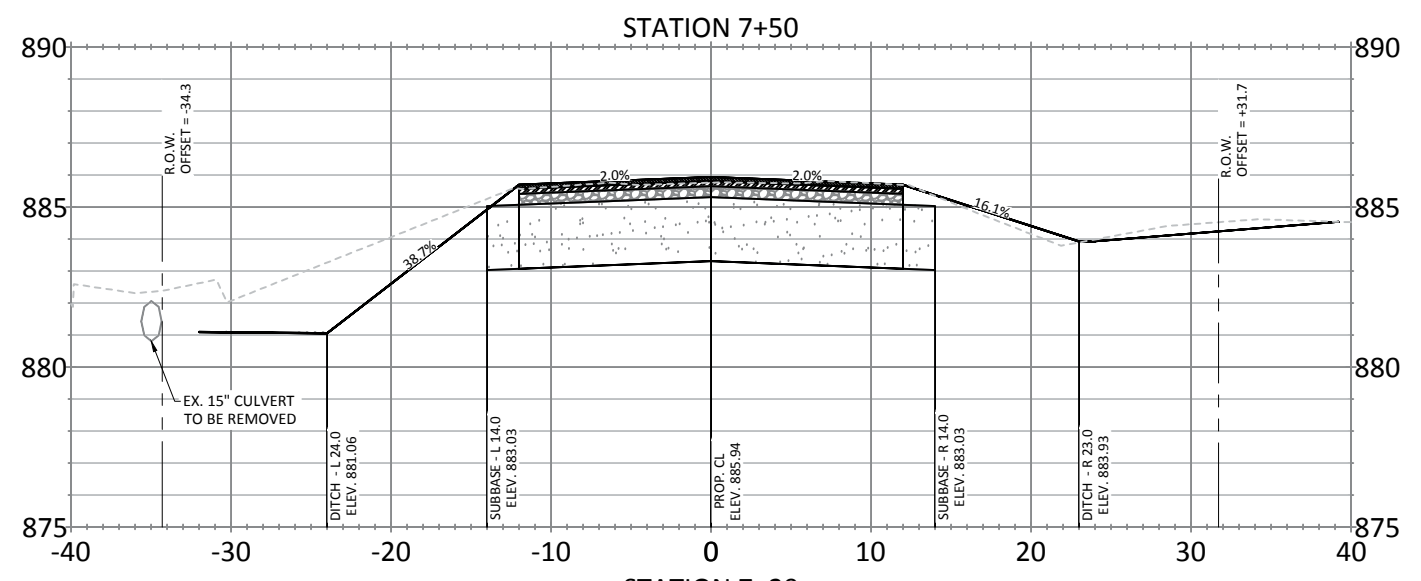
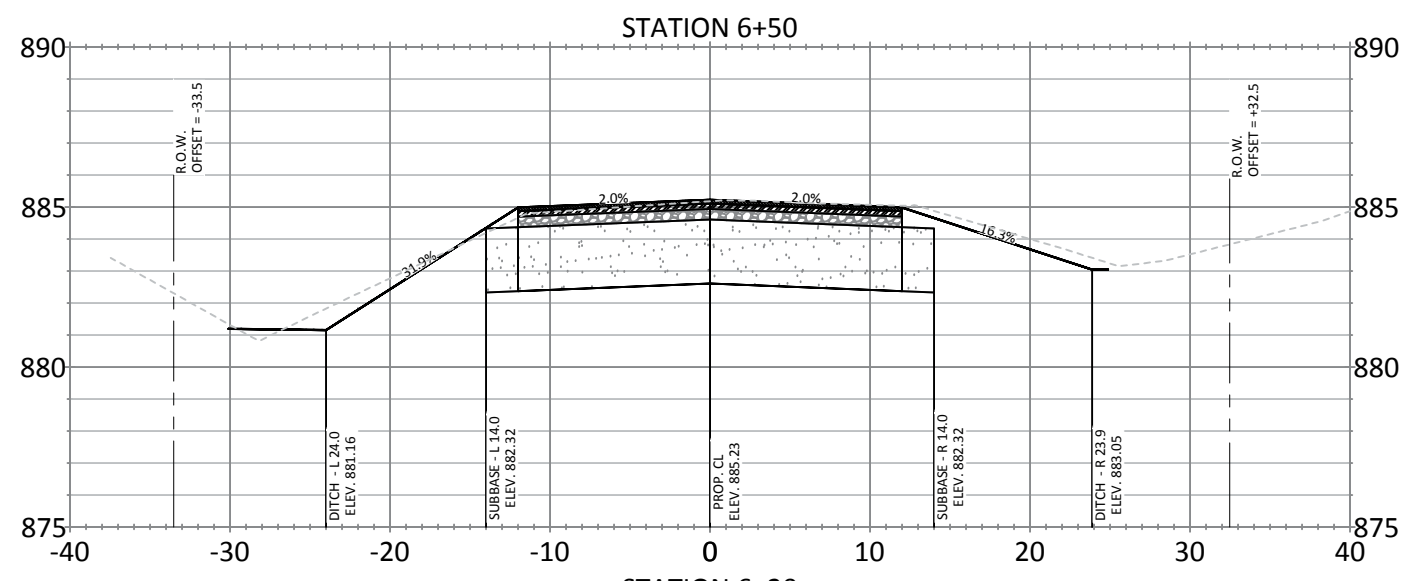
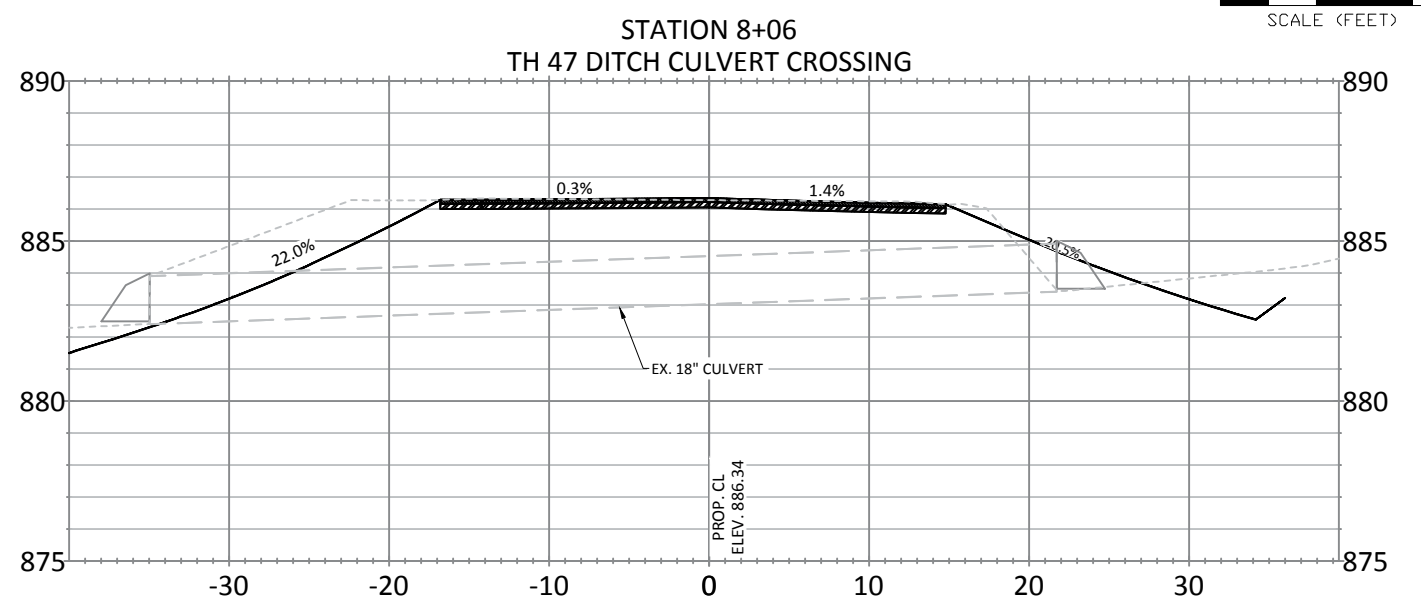
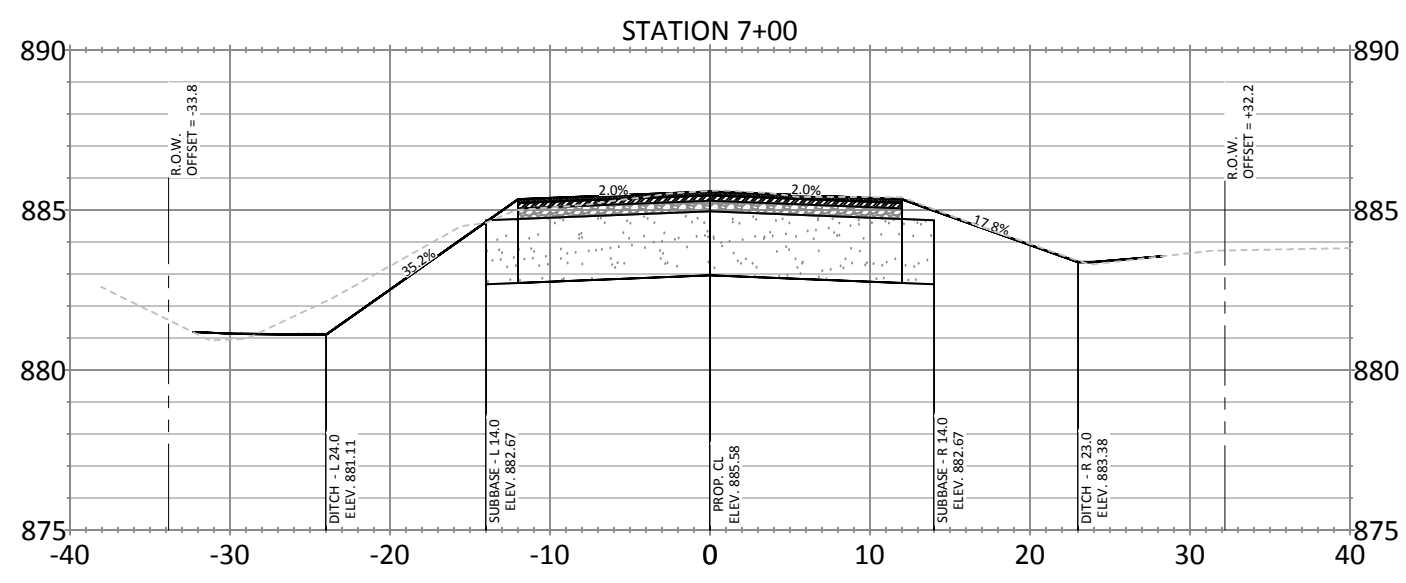
DATE:  
4/8/19  
FILE NO.  
19-01



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

CROSS SECTIONS - STA. 4+50 TO 6+00

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA



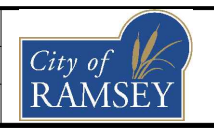
DATE	REVISION
5/31/19	REVISED CENTERLINE ALIGNMENT

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW

DATE: 4/8/19  
FILE NO. 19-01



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

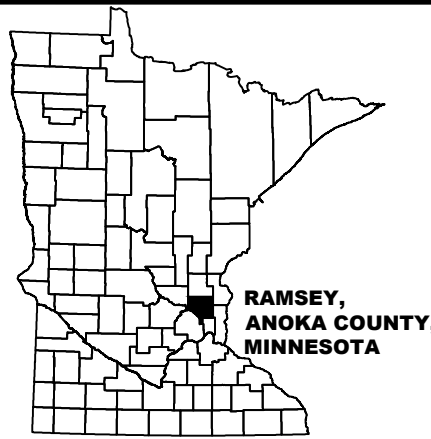
CROSS SECTIONS - STA. 6+15 TO 8+01

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA

# STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

## FORD BROOK ESTATES STREET RECONSTRUCTIONS

### CITY OF RAMSEY ANOKA COUNTY, MINNESOTA



#### DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include; Site Grading, Storm Sewer Construction, Temporary Erosion and Sediment Control, Roadway Construction, and Permanent Stabilization.

#### Project Description:

This project consists of reconstruction of 0.16 miles of existing bituminous streets with drainage ditches, replacing with bituminous street to the existing width and grade, with the addition of a 2-foot soil correction. The drainage for the existing street flows to drainage swales to the northeast end of the project, eventually reaching the Ford Brook to the north. The construction will include the addition of drain tile to properly drain the subsoil corrections, minor improvements will be made to the drainage ditches to improve the drainage of the site. There is no change to the outfall location of the storm water runoff.

#### RESPONSIBLE PARTIES:

The Contractor and Owner must apply for coverage under the MPCA's General Storm Water Permit for Construction Activity as required by the National Pollution Discharge Elimination System (NPDES) Phase II program. Coverage under the permit will begin automatically 7 calendar days after the electronic submittal date or after the postmarked date of a complete application. (Longer time frames will apply to areas disturbing 50 acres or discharge within 1 mile of a special water).

	COMPANY	CONTACT PERSON	PHONE
OWNER:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825
SWPPP DESIGNER:	CITY OF RAMSEY	LEONARD LINTON, PE	763-433-9834
CONTRACTOR:			
STIE MANAGER:			
PARTY RESPONSIBLE FOR LONG TERM O&M:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825

Individuals listed above, including the SWPPP preparer, individual overseeing implementation of, revising and amending the SWPPP, Individuals performing or supervising the installation, maintenance and repair of BMP's must be trained. At least one individual present on the permitted project, or available within 72 hours shall be trained in the applicable job duties. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Copies of the SWPPP preparer information is included in the Project Manual. The Contractor shall provide information for the individual(s) overseeing implementation, supervising installation, maintenance, and repair of BMP's to be included in the Project Manual prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

#### Documentation shall include:

- Names of trained personnel associated with this project.
- Dates of training, names of instructor(s) and entity providing training.
- Content of training course or workshop including the number of hours trained.
- As an alternative to a, b, and c listed above, a photocopy of the current Erosion and Stormwater Management card issued by the University of Minnesota can be attached to the SWPPP as suitable documentation of training.

#### DOCUMENTATION RETENTION:

The following documentation will be retained for a period of not less than 3-years from the date of submittal of the NOT.

- The final SWPPP.
- Copies of all stormwater related permits required for the project.
- Records of all inspection and maintenance conducted during construction.
- Copies of all permanent operation and maintenance agreements; including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance.
- All required calculations for design of temporary and permanent BMP's.

#### IMPLEMENTATION SCHEDULE AND PHASING:

- Furnish & Install perimeter sediment control and inlet protection.
- Removal of existing bituminous street.
- Rough grade site.
- Furnish & install bituminous pavement.
- Add additional temporary BMP's as necessary during construction based on inspection reports.
- Submit Notice of Termination (NOT) to MPCA within 30 days of final stabilization.

#### FINAL STABILIZATION:

The permittee(s) must ensure final stabilization of the site. The permittee(s) must submit a NOT within 30 days after final stabilization is complete, or another owner/operator (permittee) has assumed control over all areas of the site which have not undergone final stabilization. Final stabilization can be achieved in one of the following ways:

- All soil disturbing activities at the site have been completed and all soils must be stabilized by a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions and;
  - All drainage ditches, constructed to drain water from the site after construction is complete, must be stabilized to preclude erosion;
  - All temporary synthetic, and structural erosion prevention and sediment control BMP's (such as silt fence) must be removed as part of the site final stabilization; and
  - The permittee(s) must clean out all sediment from conveyances and from temporary sedimentation basins to be used as permanent water quality management basins. Sediment must be stabilized to prevent it from being washed back into the basin, conveyances or drainage ways discharging off-site or to surface waters. The cleanout of permanent basins must be sufficient to return the basin to design capacity.
- Final vegetation cover shall be in the Project Specifications.
- For residential construction only, final stabilization has been achieved when temporary erosion protection and down gradient perimeter control for individual lots has been completed and the residence has been transferred to the homeowner. Additionally, the permittee must distribute the MPCA "Homeowner fact sheet" to the homeowner to inform the homeowner of the need for, and benefits of, final stabilization.

#### SPECIAL ENVIRONMENTAL CONSIDERATIONS:

Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
Does any portion of the site have the potential to affect threatened or endangered species?	NO
Does any portion of this site discharge to a Calcareous Fen and the letter of approval from the DNR is located in the Project Manual?	NO
Will any portion of this site potentially affect properties listed on the National Register of Historic Places or a Known or Discovered Archeological site?	NO
Have any Karst features been identified in the project vicinity?	NO
Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO

#### POLLUTION PREVENTION MANAGEMENT MEASURES:

- The permittee(s) shall implement the following pollution prevention management measures on the site:
- 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 regulations.
  - Hazardous materials: oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
  - External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.

#### GENERAL STORMWATER DISCHARGE REQUIREMENTS:

All requirements listed in Part 15 of the permit for the design of permanent stormwater treatment system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

- The expected amount, frequency, intensity and duration of precipitation.
- The nature of stormwater runoff and run-on at the site.
- Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- The range of soil particle sizes expected to be present on the site.

#### RECEIVING WATERS:

Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds are identified on the USGS 7.5min quad map within 1 mile of the project boundary. Receiving waters that are impaired, the impairment and WLA are listed as follows. All specific BMP's relative to construction activities listed in this permit for special and impaired waters have been incorporated into this plan. All specific BMP's listed in approved TMDLs and those BMP's listed for construction related waste load allocations have also been incorporated.

NAME OF WATER BODY	TYPE (DITCH, POND, WETLAND, LAKE, ETC.)	APPENDIX A SPECIAL WATER?	FLOWS TO IMPAIRED WATER WITHIN 1 MILE?	USEPA APPROVED TMDL?
RUM RIVER	RIVER	YES	YES	YES

IMPAIRMENTS: NOT FOR CONSTRUCTION, MERCURY AND FISH CONSUMPTION

#### PROJECT AREAS:

Total project size (disturbed area) =	1.15 acres
Existing area of impervious surface =	0.64 acres
Post construction area of impervious surface =	0.64 acres
New impervious surface area created =	0.00 acres

Planned construction start date: June 2019  
Planned construction completion date: September 2019

#### PROJECT LOCATION:

County: ANOKA Township: 32 Range: 25 Section: 2 Latitude: 45.2980 Longitude: -93.4124

#### PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

- Wet Sedimentation Pond
- Infiltration / Filtration
- Regional Pond
- Permanent Stormwater Management Not Required

#### LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN:

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEETS No. 6
FINAL STABILIZATION	SHEETS No. 10
STORM SEWER TABULATION	SHEETS No. 8 - 9
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS No. 4

#### EROSION AND SEDIMENT CONTROL QUANTITIES:

DESCRIPTION	QUANTITY
SILT FENCE TYPE MS	235 LF
INLET PROTECTION - MANHOLE	1 EA.
INLET PROTECTION - CULVERT	20 EA.

#### CERTIFICATION:

UNIVERSITY OF MINNESOTA

**Joe Feriancek**

Design of Construction SWPPP (May 31 2020)

**Erosion and Stormwater Management**

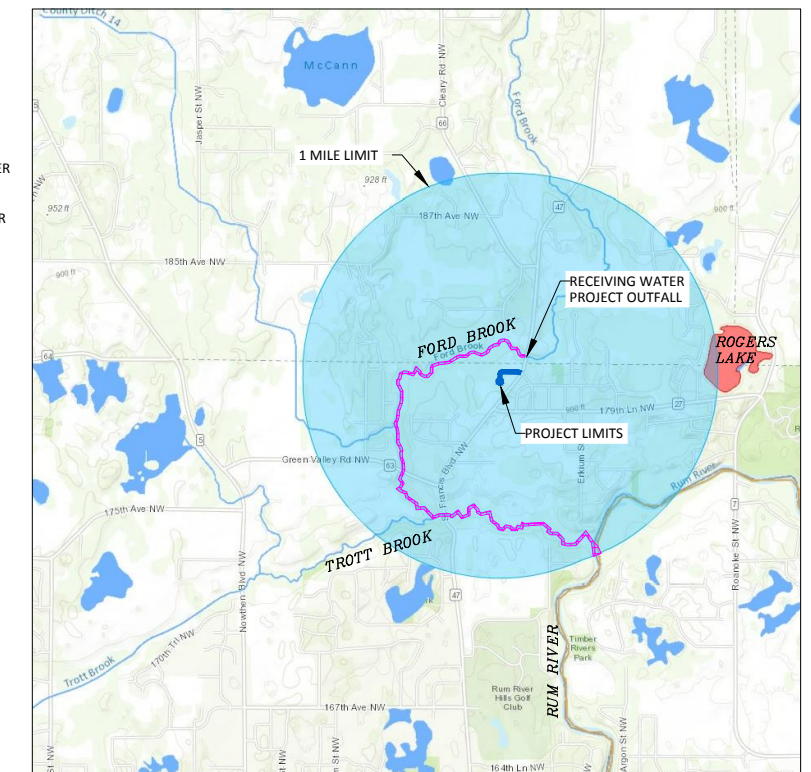
The bearer of this card has been tested and is certified in the area(s) shown on the reverse of this card. Certification expiration dates appear after each certification area.

*Joe Feriancek*

Gray Tenth, Head  
Department of Engineering and Bioscience Engineering  
University of Minnesota  
http://www.erosion.umn.edu Card issued: 8/12/18

#### LEGEND

<span style="display: inline-block; width: 15px; height: 10px; background-color: blue; border: 1px solid black;"></span>	PROJECT LIMITS
<span style="display: inline-block; width: 15px; height: 10px; background-color: lightblue; border: 1px solid black;"></span>	1 MILE LIMIT
<span style="display: inline-block; width: 15px; height: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, blue 2px, blue 4px); border: 1px solid black;"></span>	RECEIVING WATER
<span style="display: inline-block; width: 15px; height: 10px; background-color: red; border: 1px solid black;"></span>	IMPAIRED WATER

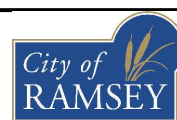


DATE	REVISION
Apr 09, 2019 - 11:20am	
G:\Engineering\AutoCad Dwg\Projects A-M\Ford Brook Estates 19-01\Plan Drawings\19-01 SWPPP.dwg	

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

*Bruce Westby*  
BRUCE WESTBY  
Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: BRW  
DATE: 4/8/19  
FILE NO: 19-01



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

SWPPP - NOTES

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
CITY PROJECT NO. 19-01  
CITY OF RAMSEY, MINNESOTA

SHEET 17 OF 19 SHEETS

**SEQUENCE OF CONSTRUCTION:**

Construction shall proceed in the following sequence:

1. Contractor shall schedule and conduct a pre-construction meeting with the City.
2. Contractor shall secure all necessary permits and licenses.
3. Furnish & install erosion control measures.
4. Maintain erosion control measures, i.e. silt fence, inlet protection.
5. Remove existing bituminous pavement and base.
6. Remove undesirable subcut material.
7. Prepare subbase, finish and install geotextile fabric, select granular base material, and draitile.
8. Furnish and install class 5 aggregate base, grade and compact aggregate.
9. Furnish & install base course of bituminous pavement
10. Grade and compact drainage ditches to final grades, install restoration per plan.
11. Furnish & install wear course of bituminous pavement.
12. Remove erosion control after vegetation is established.

**ADDITIONAL STORMWATER POLLUTION PREVENTION, GRADING PLAN, AND SCHEDULE NOTES:**

1. All slopes to be 1:4 unless approved by the city engineer.
2. Below grade structures shall be protected and meet drainage requirements per the city engineer.
3. Construction operation hours are from 7:00 a.m. - 10:00 p.m. Monday through Saturday.
4. Call Gopher State One Call for utility locations prior to any work at 1-800-252-1166.
5. Permittee may need to modify SWPPP if the general objectives of controlling pollutants is not being met.
6. Operator shall implement these and any other BMP's that may be required to meet the general permit requirements.
7. Site is not in karst area or pollution or remediation site.
8. Silt fence to be installed downhill from any grading activity.
9. If tracking onto adjacent streets occurs a street sweeper shall be used to clean streets within 8 hours or as directed by the engineer.
10. Dust control may be necessary during rough grading. No grading can take place if wind speed exceeds 25 mph.
11. Solid waste shall be collected and disposed of properly and must comply with MPCA disposal requirements.
12. Hazardous materials shall be stored properly to prevent spills and vandalism.
13. No engine degreasing is allowed on site. External washing of vehicles shall be limited to a defined area (bone yard) on site.
14. Permittee(s) shall adhere to all SWPPP specifications on the plan and other MPCA permit requirements.

**EROSION PREVENTION PRACTICES:**

1. The permittee(s) must plan for and implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion, so that the inspection and maintenance requirements are complied with. The location of areas not to be disturbed must be delineated (e.g. with flags, stakes, signs, silt fence, etc.) on the development site before work begins.
2. All exposed soil areas must be stabilized as soon as practical, but in no case later than 7 days after the construction area has temporarily or permanently ceased.  
These areas include constructed stormwater management pond side slopes, and any exposed soil areas with a positive slope to a stormwater conveyance system, such as a curb and gutter system, storm sewer inlet, temporary or permanent drainage ditch or other natural or man made systems that discharge to a surface water.
3. The normal wetted perimeter of any temporary or permanent drainage ditch that drains water from a construction site, or diverts water around a site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge to any surface water. Stabilization must be completed within 24 hours of connecting to a surface water.
4. Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
5. All disturbed areas, except roadways, building areas, parking areas, islands and sidewalk, shall be restored with minimum 4 inches topsoil, seeded and mulched within 7 days of completion of site grading. Seeding shall be in accordance with MnDOT Specification 2575. Where side slopes exceed or equal 1:3 and running slope is greater than 1:50, a polypropylene netting or wood fiber blanket shall be provided and staked over the mulched area. Seed and mulch types and applications rates are per plan and specification.
6. Refer to restoration plan for areas to be seeded or sodded for erosion control.

**DEWATERING AND BASIN DRAINING:**

1. Dewatering or basin draining (e.g. pumped discharges, trench/ditch cuts for drainage) related to the construction activity that may have turbid or sediment laden discharge water must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible. If the water cannot be discharged to a sedimentation basin prior to entering the surface water, it must be treated with the appropriate BMP's, such that the discharge does not adversely affect the receiving water or downstream landowners. The permittee(s) must ensure that discharge points are adequately protected from erosion and scour. The discharge must be dispersed over natural rock rip rap, sand bags, plastic sheeting or other accepted energy dissipation measures. Adequate sedimentation control measures are required for discharge water that contains suspended solids.
2. All water from dewatering or basin draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in receiving channels or on downslope properties, or inundation in wetlands causing significant adverse impact to the wetland.

**SEDIMENT CONTROL PRACTICES:**

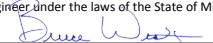
1. Sediment control practices must minimize sediment from entering surface waters, including curb and gutter systems and storm sewer inlets.
  - a. Temporary or permanent drainage ditches and sediment basins that are designed as part of a treatment system (e.g. ditches with rock check dams) require sediment control practices only as appropriate for site conditions.
  - b. If the down gradient treatment system is overloaded, additional upgradient sediment control practices must be installed to eliminate the overloading, and the SWPPP must be amended to identify these additional practices.
  - c. In order to maintain sheet flow and minimize rills and/or gullies, there shall be no unbroken slope length of greater than 75 feet for slopes with a grade of 1:3 or steeper.
2. Sediment control practices must be established on all down gradient perimeters before any upgradient land disturbing activities begin. These practices shall remain in place until final stabilization has been established.
3. The timing of the installation of sediment control practices may be adjusted to accommodate short-term activities such as clearing or grubbing, or passage of vehicles. Any short-term activity must be completed as quickly as possible and the sediment control practices must be installed immediately after the activity is completed. However, sediment control practices must be installed before the next precipitation event even if the activity is not complete.
4. All storm drain inlets must be protected by appropriate BMP's during construction until all sources with potential for discharging to the inlet have been stabilized.
5. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches.
6. Stockpile areas which remain on the site for more than seven days shall be seeded, mulched, and surrounded by silt fence.
7. Vehicle tracking of sediment from the construction site must be minimized by BMP's such as stone pads, concrete or steel wash racks, or equivalent systems. Street sweeping must be used if such BMPs are not adequate to prevent sediment from being tracked onto the street.
8. The permittee must install temporary sedimentation basins as required.

**INSPECTIONS AND MAINTENANCE:**

1. The permittee(s) (either the owner or operator, whoever is identified in the SWPPP) must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5-inches in 24 hours. Following an inspection that occurs within 24 hours after a rainfall event, the next inspection must be conducted within 7 days.
2. All inspections and maintenance conducted during construction must be recorded in writing and these records must be retained with the SWPPP. Records of each inspection and maintenance activity shall include:
  - a. Date and time of inspections;
  - b. Name of persons conducting inspections;
  - c. Accurate findings of inspections, including the specific location where corrective actions are needed;
  - d. Corrective actions taken (including dates, times, and party completing maintenance activities);
  - e. Date of all rainfall events greater than ½ inches in 24 hours, and the amount of rainfall for each event. Permittee(s) must obtain rainfall amounts by either a properly maintained rain gauge installed onsite, a weather station that is within one (1) mile of your location, or a weather reporting system that provides site specific rainfall data from radar summaries;
  - f. If permittee(s) observe a discharge (i.e., color, odor, settled or suspended solids, oil sheen, and other obvious indicators of pollutant(s));
  - g. Any amendments to the SWPPP proposed as a result of the inspection must be documented as required in Section 6 of the general permit within seven (7) calendar days.
3. Where parts of the construction site have undergone final stabilization, but work remains on other parts of the site, inspections of the stabilized areas may be reduced to once per month. Where work has been suspended due to frozen ground conditions, the required inspections and maintenance must take place within 24 hours after runoff occurs at the site or 24 hours prior to resuming construction, whichever occurs first.
4. All erosion prevention and sediment control BMP's must be inspected to ensure integrity and effectiveness. All nonfunctional BMP's must be repaired, replaced, or supplemented with functional BMP's. The permittee(s) must investigate and comply with the following inspection and maintenance requirements:
  - a. All silt fence must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches ½ of the height of the fence. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access.
  - b. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches ½ the storage volume. Drainage and removal must be completed within 72 hours of discovery, or as soon as field conditions allow access.
  - c. Surface waters, including drainage ditches and conveyance systems, must be inspected for evidence of sediment being deposited by erosion. The permittee(s) must remove all deltas and sediment deposited in surface waters, including drainage ways, catch basins, and other drainage systems, and restabilize the areas where sediment removal results in exposed soil. The removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. The permittee shall use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) calendar days of obtaining access. The permittee is responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work.
  - d. Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces within 3 hours after notification by the City that sweeping is required.
    - e. The permittee(s) are responsible for the operation and maintenance of temporary and permanent water quality management BMP's as well as all erosion prevention and sediment control BMP's, for the duration of the construction work at the site. The permittee(s) are responsible until another permittee has assumed control over all areas of the site that have not been finally stabilized or the site has undergone final stabilization, and a NOT has been submitted to the MPCA.
  - e. If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts (e.g. fugitive sediment in streets could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
5. All infiltration areas must be inspected to ensure that no sediment from ongoing construction activities is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
6. Storm sewer pipes and structures to be inspected and cleaned out.

DATE	REVISION

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

  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF	DATE: 4/8/19
DRAWN BY: JJF	FILE NO. 19-01
CHECKED BY: BRW	

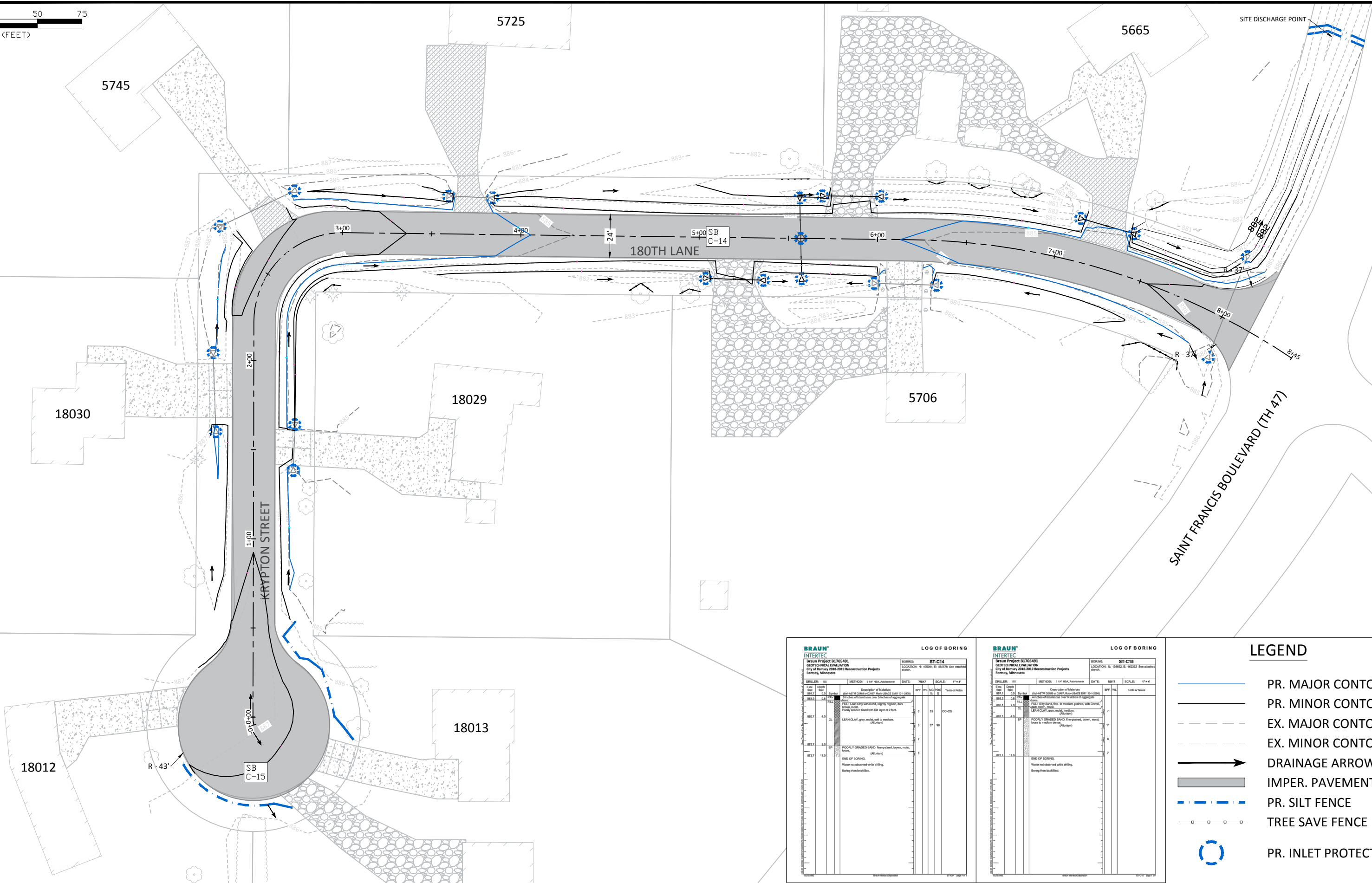


**CITY OF RAMSEY**  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

SWPPP - NOTES

**FORD BROOK ESTATES STREET RECONSTRUCTIONS**  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA

Apr 09, 2019 - 11:20am  
 G:\Engineering\AutoCad Dwg\Projects A-M\Ford Brook Estates 19-01\Plan Drawings\19-01 SWPPP.dwg



**BRAUN INTERTEC**  
 Braum Project B1705491  
 GEOTECHNICAL EVALUATION  
 City of Ramsey 2018-2019 Reconstruction Projects  
 Ramsey, Minnesota

LOG OF BORING  
 BORING: ST-C14  
 LOCATION: N 48994, E 42228 (See attached sheet)

DATE	DEPTH	SYMBOL	DESCRIPTION OF MATERIAL	DEPTH	LAB	SCALE	TESTS or Notes
889.3	3.0	14	LEAN CLAY with some slightly organic, dense Brown-Black Sand with Silt layer at 2 feet.	4	15	00-0%	
887.4	4.0	14	LEAN CLAY, gray, moist, well to medium (disturbed)	3	37	88	
879.2	3.0	14	POORLY GRADED SAND, brownish, brown, moist, loose	7			
879.2	11.0	14	END OF BORING Water not observed while drilling. Boring then backfilled.	8			

**BRAUN INTERTEC**  
 Braum Project B1705491  
 GEOTECHNICAL EVALUATION  
 City of Ramsey 2018-2019 Reconstruction Projects  
 Ramsey, Minnesota

LOG OF BORING  
 BORING: ST-C15  
 LOCATION: N 19992, E 41232 (See attached sheet)

DATE	DEPTH	SYMBOL	DESCRIPTION OF MATERIAL	DEPTH	LAB	SCALE	TESTS or Notes
889.3	3.0	14	LEAN CLAY with some slightly organic, dense Brown-Black Sand with Silt layer at 2 feet.	4	15	00-0%	
887.4	4.0	14	LEAN CLAY, gray, moist, well to medium (disturbed)	3	37	88	
879.2	3.0	14	POORLY GRADED SAND, brownish, brown, moist, loose to medium dense	7			
879.2	11.0	14	END OF BORING Water not observed while drilling. Boring then backfilled.	8			

- LEGEND**
- PR. MAJOR CONTOUR
  - PR. MINOR CONTOUR
  - EX. MAJOR CONTOUR
  - EX. MINOR CONTOUR
  - DRAINAGE ARROW
  - IMPER. PAVEMENT
  - PR. SILT FENCE
  - TREE SAVE FENCE
  - PR. INLET PROTECTION

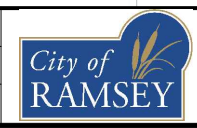
DATE	REVISION
Apr 09, 2019 - 11:21am	

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

*Bruce Westby*  
 BRUCE WESTBY  
 Date 4/8/19 Lic. No. 40116

DESIGNED BY: JJF  
 DRAWN BY: JJF  
 CHECKED BY: BRW

DATE: 4/8/19  
 FILE No. 19-01



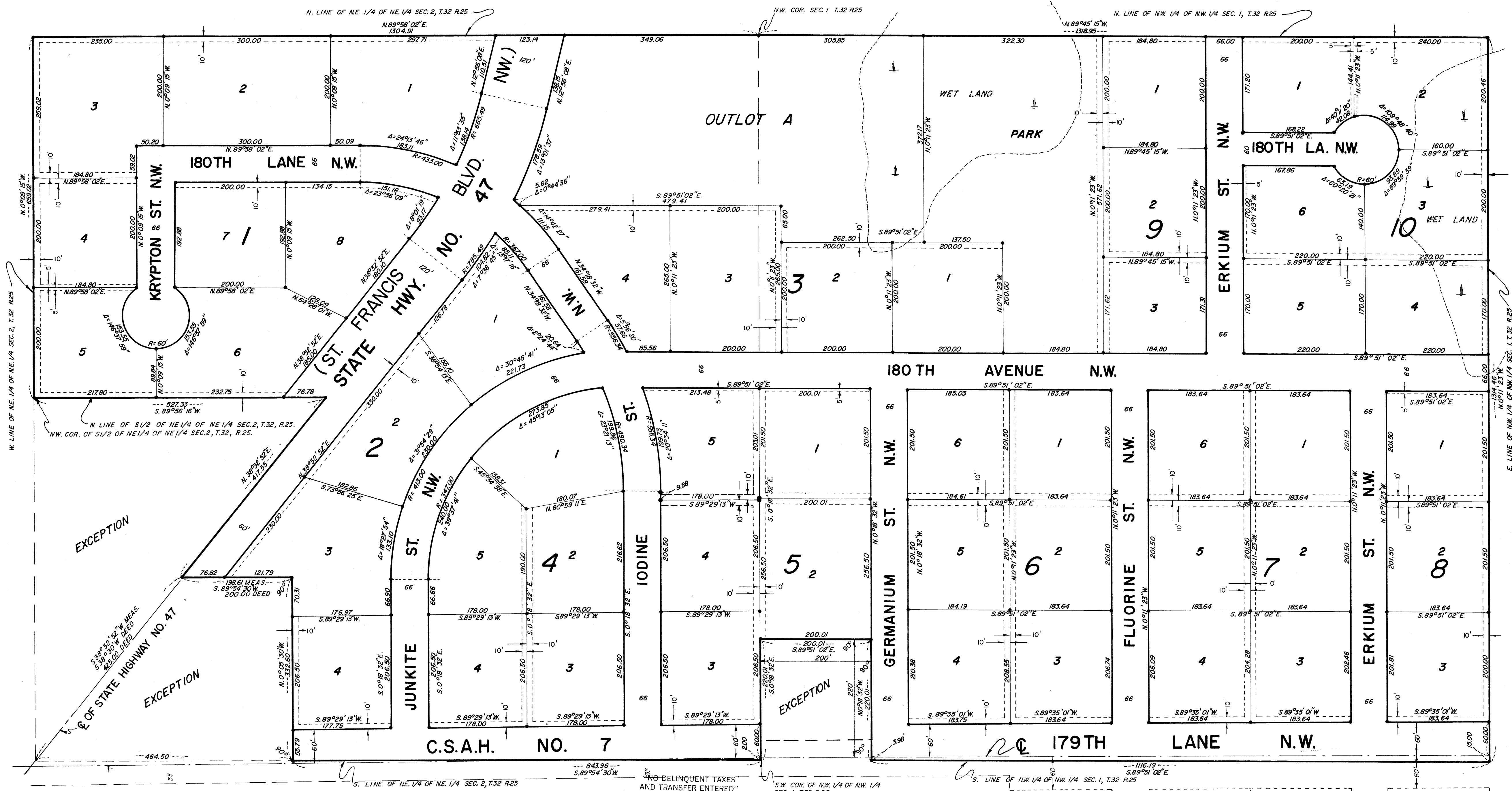
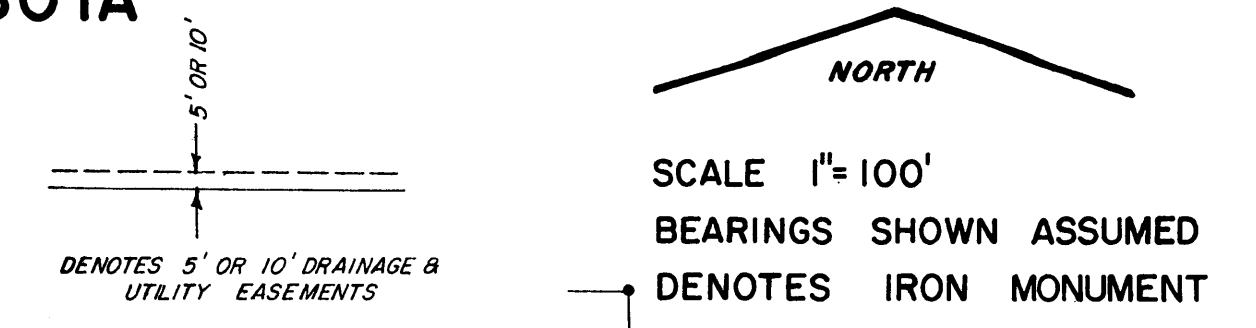
CITY OF RAMSEY  
 7550 SUNWOOD DRIVE  
 RAMSEY, MN 55303  
 (763) 427-1410 FAX (763) 433-9898

SWPPP - SITE PLAN

FORD BROOK ESTATES STREET RECONSTRUCTIONS  
 CITY PROJECT NO. 19-01  
 CITY OF RAMSEY, MINNESOTA

# FORD BROOK ESTATES

RAMSEY TOWNSHIP ANOKA COUNTY, MINNESOTA



LERROY H. WINNER & ASSOC., INC. — LAND SURVEYORS

NO DELINQUENT TAXES AND TRANSFER ENTERED

Aug. 7 1922

Charles R. ... Auditor, Anoka County

By: Nancy C. ... Deputy

RIVERWOOD HILLS PLAT 1

# FORD BROOK ESTATES

RAMSEY TOWNSHIP ANOKA COUNTY, MINNESOTA

Know all men by these presents that George E. Bauer and Gladys E. Bauer, his wife, owners and proprietors of the following described property situated in the County of Anoka, State of Minnesota, to-wit: All of the NW $\frac{1}{4}$  of the NW $\frac{1}{4}$  of Section 1, Township 32, Range 25 except the South 220 feet of the West 200 feet thereof and all of the NE $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 2, Township 32, Range 25 excepting FROM THE LAND IN SECTION 2 THAT PART OF THE S.W.  $\frac{1}{4}$  OF NE  $\frac{1}{4}$  OF NE  $\frac{1}{4}$  LYING NORTH AND WEST OF THE HIGHWAY CROSSING SAID TRACT OF LAND IN A SOUTHWESTERLY AND NORTHEASTERLY DIRECTION ALL IN TOWNSHIP 32 NORTH OF RANGE 25 WEST;

AND EXCEPTING THAT PART OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER (SW  $\frac{1}{4}$  OF NE  $\frac{1}{4}$  OF NE  $\frac{1}{4}$ ) OF SECTION TWO (2), TOWNSHIP THIRTY-TWO (32), RANGE TWENTY-FIVE (25), ANOKA COUNTY, MINNESOTA, DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE NORTH HALF (N  $\frac{1}{2}$ ) OF SAID NORTHEAST QUARTER (NE  $\frac{1}{4}$ ) WITH THE CENTER LINE OF STATE TRUNK HIGHWAY NO. 47; THENCE EAST ON THE SOUTH LINE OF SAID SW  $\frac{1}{4}$  OF NE  $\frac{1}{4}$  OF NE  $\frac{1}{4}$  FOR A DISTANCE OF 464.5 FEET; THENCE NORTH AT RIGHT ANGLES 332.6 FEET; THENCE WEST AT RIGHT ANGLES 200 FEET TO CENTER LINE OF SAID STATE TRUNK HIGHWAY NO. 47; THENCE SOUTH 38  $\frac{1}{2}$  DEGREES WEST ALONG THE CENTER LINE OF SAID STATE TRUNK HIGHWAY NO. 47, 425 FEET TO PLACE OF BEGINNING, AND CONTAINING 2  $\frac{1}{2}$  ACRES, MORE OR LESS, AND EXCEPT PUBLIC ROAD RIGHT OF WAYS;

Have caused the same to be surveyed and platted as FORD BROOK ESTATES and do hereby donate and dedicate to the public for public use forever the Lanes, Avenue, Streets, Boulevard, Park and drainage and utility easements as shown on the annexed plat; also dedicating to the County of Anoka the right of access to County State Aid Highway No. 7 from Lot 4, Block 2, Lots 3 and 4, Block 4, Lot 3, Block 5, Lots 3 and 4, Block 6, Lots 3 and 4, Block 7 and Lot 3, Block 8 as shown on the plat and also dedicating to the State of Minnesota the right of access to State Highway No. 47 from Lots 1, 6 and 8, Block 1 and Lots 1, 2 and 3, Block 2 as shown on the plat. In witness whereof said George E. Bauer and Gladys E. Bauer, his wife, have hereunto set their hands and seals this 17<sup>th</sup> day of July, 1972 A.D.

The annexed plat of FORD BROOK ESTATES was approved by the Town Board of the Township of Ramsey at a regular meeting held this 17<sup>th</sup> day of July, 1972 A.D.

Harold S. Murphy  
Chairman of Town Board  
James M. Peterson  
Clerk of Town Board

In the presence of:  
Witness Eugene Rosburg Keith M. Graham George E. Bauer  
Witness Eugene Rosburg Keith M. Graham Gladys E. Bauer

Recommended for approval this 20<sup>th</sup> day of July, 1972 A.D.

E. J. Lundheim  
County Highway Engineer, Anoka County, Minnesota

This plat was approved as to form and execution on this 7<sup>th</sup> day of August, 1972 A.D.

Robert W. Johnson  
County Attorney, Anoka County, Minnesota

This plat was checked and approved on this 25<sup>th</sup> day of July, 1972 A.D.

Roland W. Anderson  
County Surveyor, Anoka County, Minnesota

This plat was approved and accepted by the Board of County Commissioners of the County of Anoka, State of Minnesota, at a regular meeting held this 25 day of July, 1972 A.D.

Arthur C. Rosendahl  
Chairman  
Charles R. Lephore  
County Auditor

STATE OF MINNESOTA ) (SS  
COUNTY OF MILLE LACS )

On this 17<sup>th</sup> day of July, 1972 A.D. before me, a Notary Public, within and for said County and State, personally appeared George E. Bauer and Gladys E. Bauer, his wife, to me personally known, to be the persons described in and who executed the foregoing instrument; and they affirm and acknowledge that they executed the same as their own free act and deed.

D. W. Teigen  
Notary Public, Mille Lacs County, Minnesota  
My commission expires 1-22-77

STATE OF MINNESOTA ) (SS  
COUNTY OF ANOKA )

I do hereby certify that I have surveyed and platted the property described on this plat as FORD BROOK ESTATES; that this is a correct representation of said survey; that all distances are correctly shown on said plat in feet and decimals of a foot; that all monuments have been correctly placed in the ground as shown on the plat; that the outside boundary lines are correctly designated on the plat; and there are no wet lands or public highways on said plat other than shown thereon.

Surveyor Le Roy Winner  
Minnesota Registration No. 4987

STATE OF MINNESOTA ) (SS  
COUNTY OF MILLE LACS )

Above certificate subscribed and sworn to before me, a Notary Public, within and for said County and State on this 14<sup>th</sup> day of July, 1972 A.D.

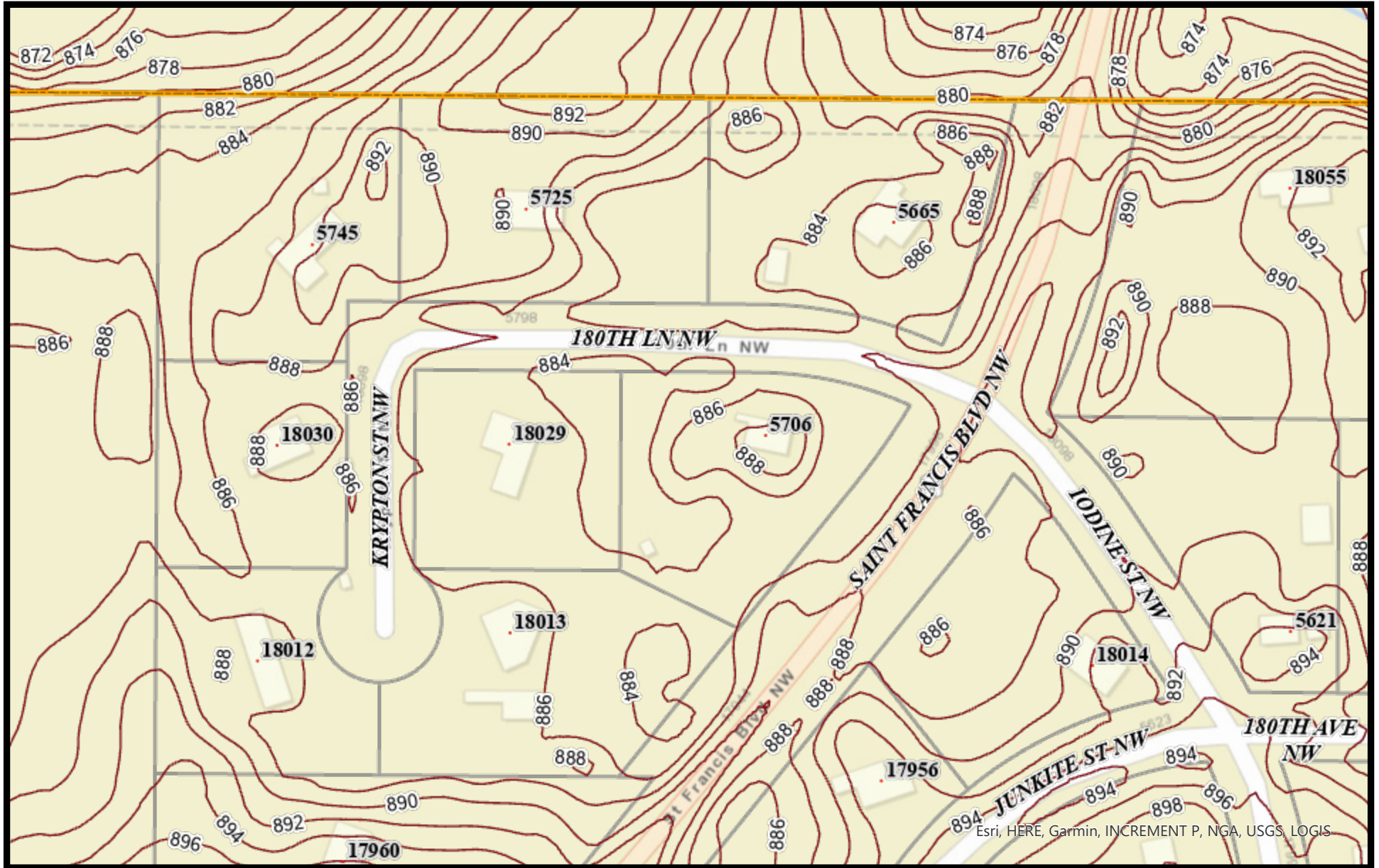
D. W. Teigen  
Notary Public, Mille Lacs County, Minnesota  
My commission expires 1-22-77

"NO DELINQUENT TAXES AND TRANSFER ENTERED"  
Aug. 7 1972  
Charles R. Lephore  
Auditor, Anoka County  
BY Nancy C. Quapa  
Deputy

LEROY H. WINNER & ASSOC., INC. - LAND SURVEYORS

75489  
Office of REGISTRAR OF TITLES  
STATE OF MINNESOTA  
COUNTY OF ANOKA  
I hereby certify that the within instrument was filed in this office on the 17<sup>th</sup> day of July, 1972 A.D. at 4 o'clock P.M.  
Edith J. Rosendahl Registrar of Titles  
By Allen Baettcher  
Deputy REGISTRAR OF TITLES

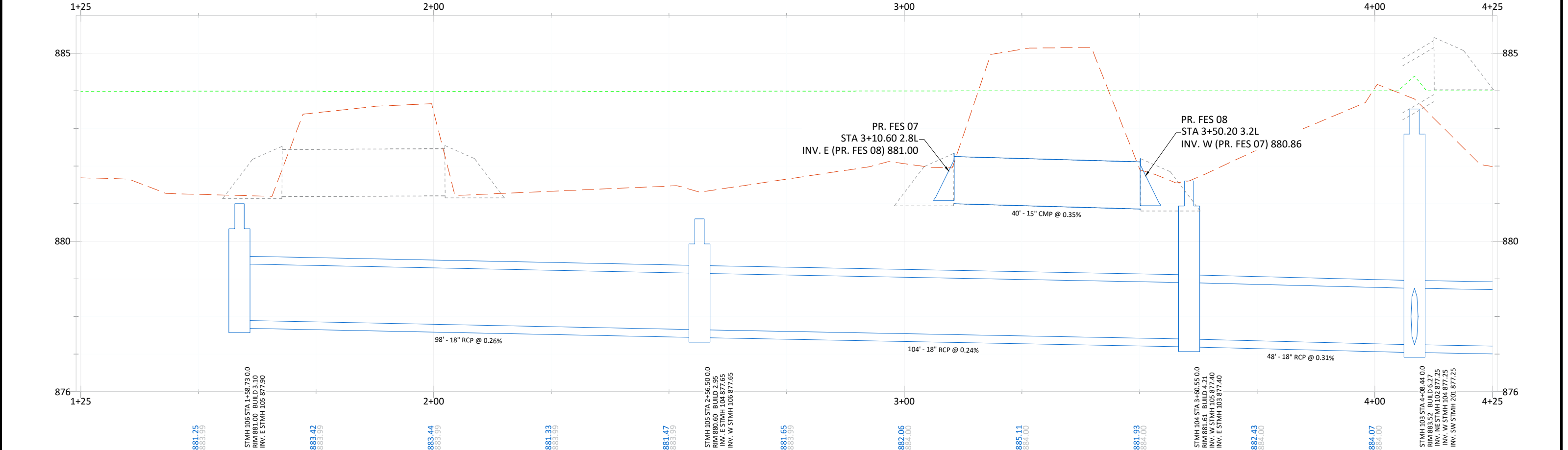
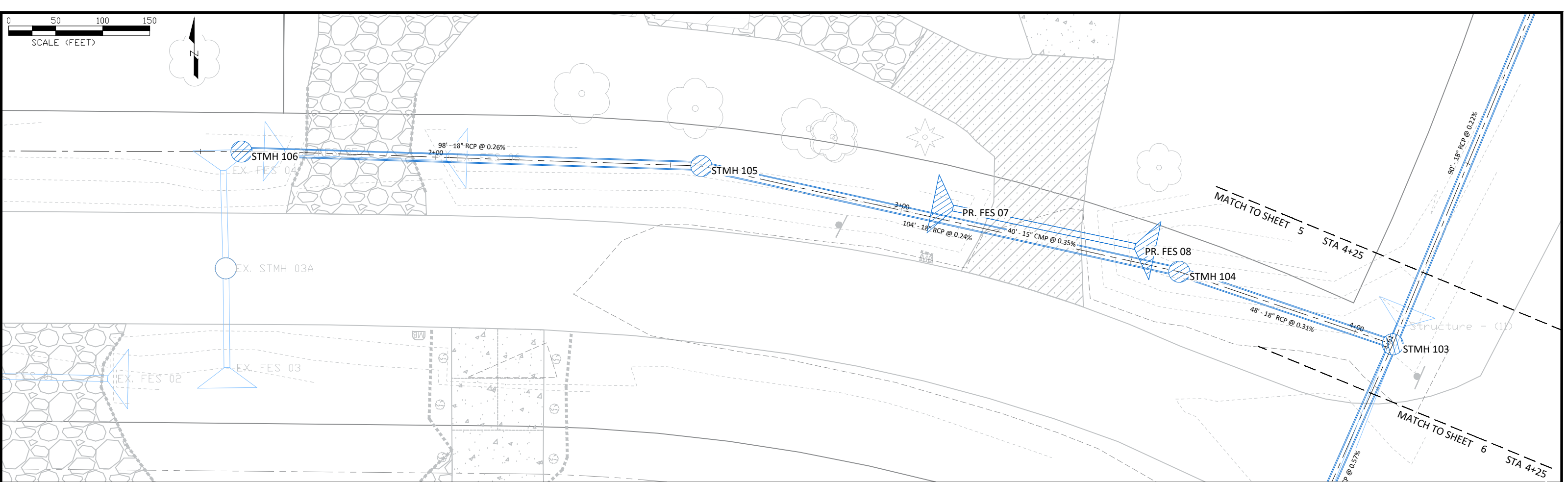
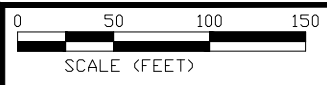
# Ford Brook Estates 2-Ft Contours



Esri, HERE, Garmin, INCREMENT P, NGA, USGS, LOGIS

Print Date: October 12, 2023

0 0.00.01 0.03 0.04 0.06  
mi



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

JOE FERIANCEK  
Date: --/--/-- Lic. No. 57095

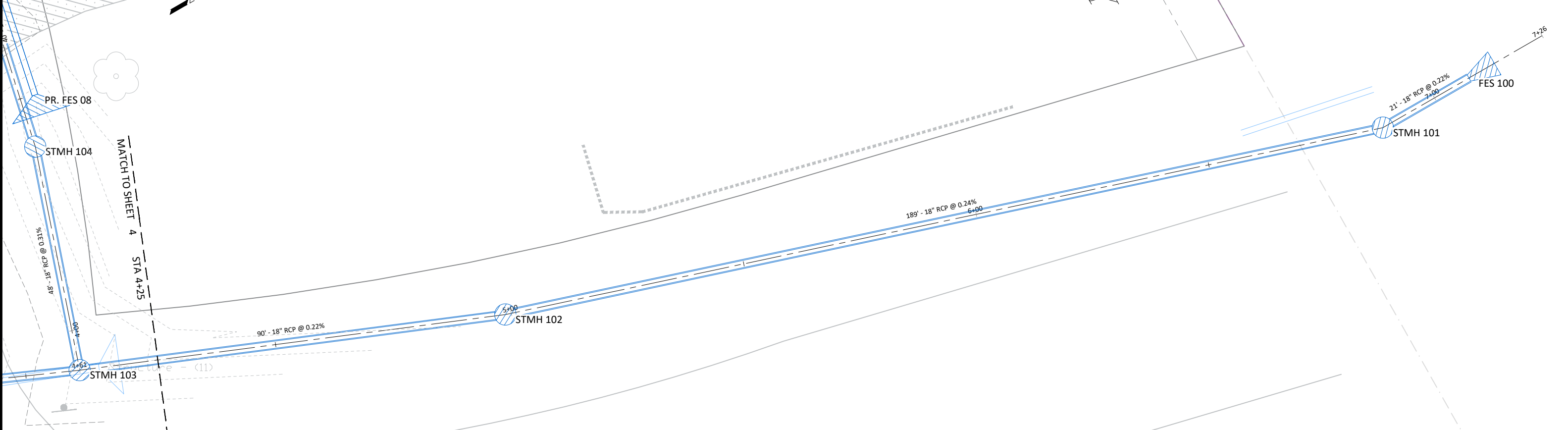
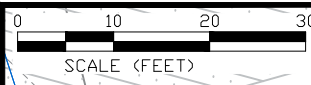
DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: ---

DATE: 09/28/23  
FILE: 22-16

CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

STORM SEWER  
180TH LANE

180TH LANE DRAINAGE IMPROVEMENTS  
CITY PROJECT NO. 22-16  
CITY OF RAMSEY, MINNESOTA



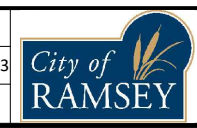
DATE	REVISION

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

JOE FERIANECK  
Date --/--/-- Lic. No. 57095

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: ---

DATE: 09/28/23  
FILE: 22-16

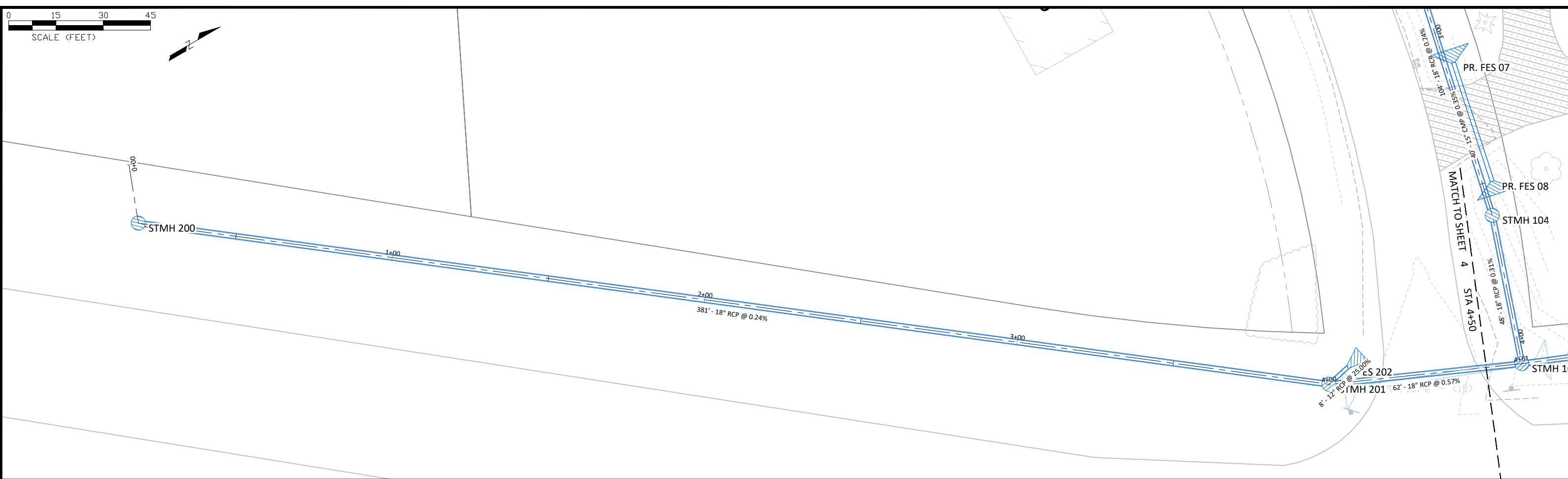


CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

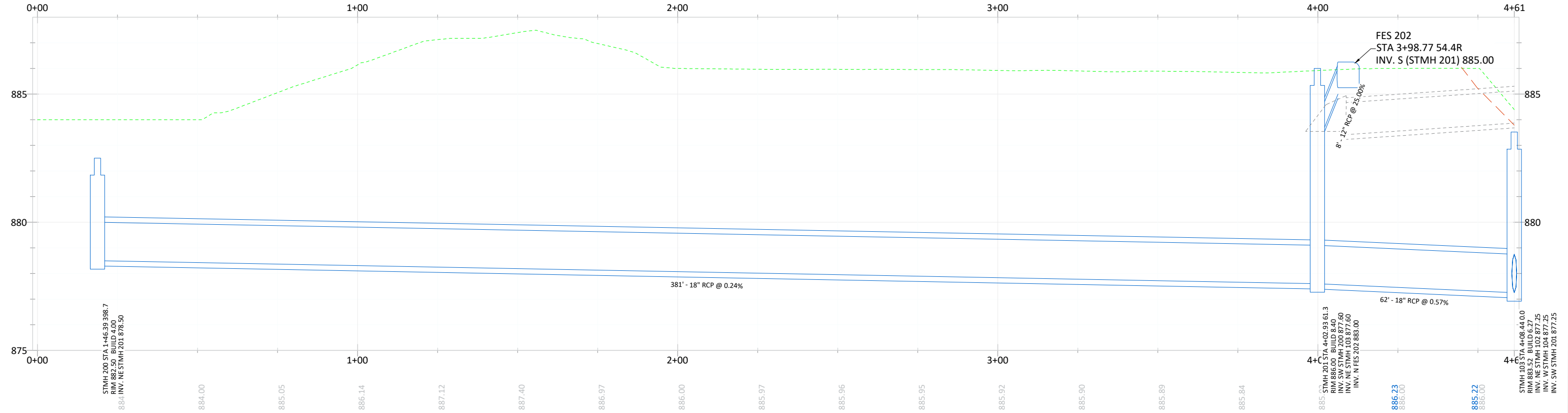
STORM SEWER  
TH 47 DITCH NORTH

180TH LANE DRAINAGE IMPROVEMENTS  
CITY PROJECT NO. 22-16  
CITY OF RAMSEY, MINNESOTA

SHEET 05 OF 07 SHEETS



Profile View of TH 47 South Ditch Line



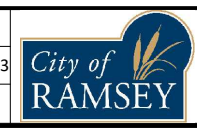
DATE	REVISION

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

JOE FERIANCEK  
Date --/--/--- Lic. No. 57095

DESIGNED BY: JJF  
DRAWN BY: JJF  
CHECKED BY: ---

DATE: 09/28/23  
FILE: 22-16



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

STORM SEWER  
TH 47 DTICH SOUTH

180TH LANE DRAINAGE IMPROVEMENTS  
CITY PROJECT NO. 22-16  
CITY OF RAMSEY, MINNESOTA

SHEET 06 OF 07 SHEETS

# CITY OF RAMSEY

## 180TH LANE DRAINAGE IMPROVEMENTS

### CITY IMPROVEMENT PROJECT NO. 22-16

## GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

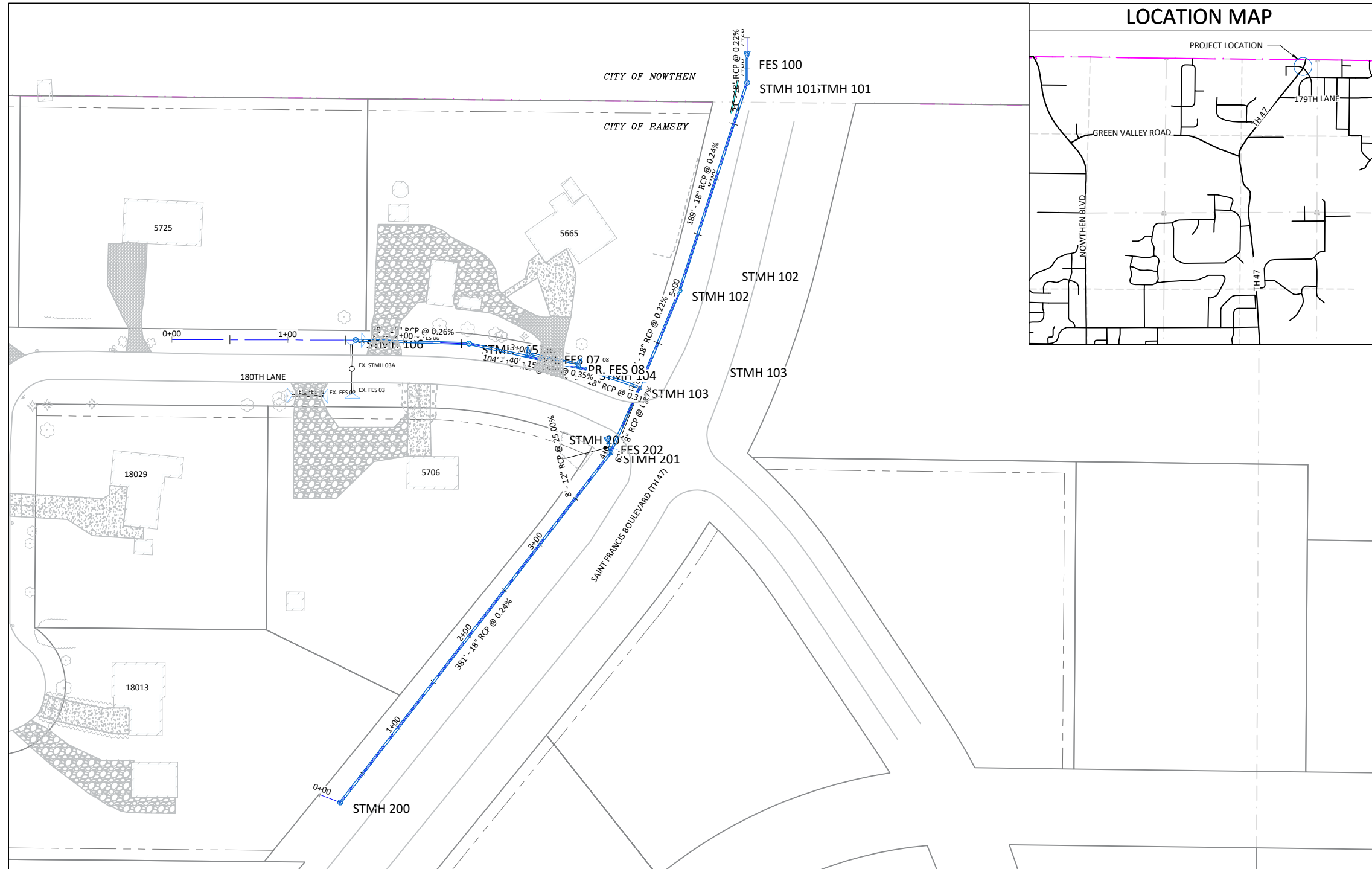
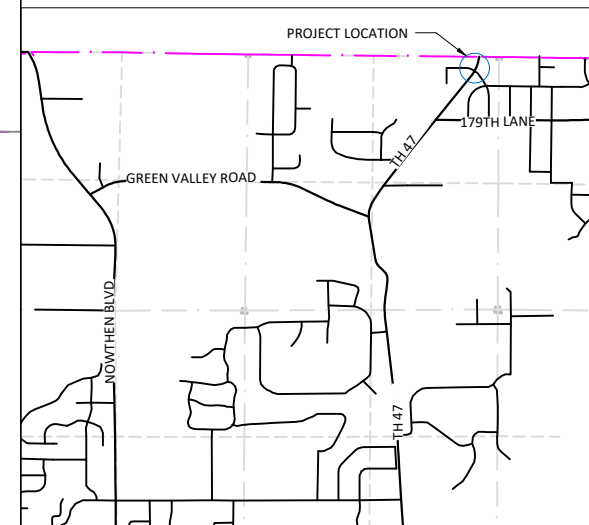
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

### SHEET INDEX

THIS PLAN CONTAINS 07 SHEETS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	STORM SEWER INDEX SHEET
4-6	STORM SEWER CONSTRUCTION
7	EROSION CONTROL & RESTORATION

### LOCATION MAP



### LEGEND

	SANITARY MANHOLE		Easement - Drainage & Utility
	STORM SEWER MANHOLE		Easement - Roadway
	CATCH BASIN MANHOLE		LOT LINE
	CATCH BASIN		ELECTRIC LINE
	CATCH BASIN - GROUT		ELECTRIC LINE - BURIED
	CATCH BASIN - RESET		ELECTRIC LINE - OVERHEAD
	FLARED END SECTION		GAS LINE
	CULVERT END SECTION		TELECOMMUNICATION LINE
	HYDRANT		TELECOMM - OVERHEAD
	VALVE		FIBER OPTIC LINE
	TREE - CONIFEROUS		TREE LINE
	TREE - DECIDUOUS		LANDSCAPE
	SHRUB		RETAINING WALL
	LIGHT POLE		FENCE
	SIGN		SILT FENCE
	MAILBOX		WATERMAIN
	PEDESTAL - TELECOM		SANITARY SEWER
	PEDESTAL - ELECTRIC		STORM SEWER
	HAND HOLE		DRAIN TILE
	DRIVE - BITUMINOUS		LANDSCAPE - ROCK
	DRIVE - CONCRETE		LANDSCAPE - MULCH
	DRIVE - GRAVEL		LANDSCAPE - RIP RAP
	CONCRETE WALK		PR. DRIVE - BITUMINOUS
	BITUMINOUS TRAIL		PR. DRIVE - CONCRETE
	REMOVE BIT PAVE		PR. DRIVE - GRAVEL
	REMOVE CONCRETE PAVE		PR. CONCRETE WALK
	REMOVE GRAVEL SURFACE		PR. CONCRETE
	MILL BIT PAVEMENT		PR. SEEDING AREA
	RECLAIM BIT PAVEMENT		PR. SODDING AREA

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

JOE FERIANCEK, P.E.  
ASSISTANT CITY ENGINEER

57095    DATE --/--/--  
LIC. NO.

DATE	REVISION

SHEET 01 OF 07 SHEETS



CITY OF RAMSEY  
7550 SUNWOOD DRIVE  
RAMSEY, MN 55303  
(763) 427-1410 FAX (763) 433-9898

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS 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."

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL 1-800-252-1166 OR 651-454-0002



Call before you dig  
811  
651 454-0002 Metro  
800 252-1166 Outstate  
www.gopherstateonecall.org

**Public Works Committee****Meeting Date:** 10/17/2023**Primary Strategic Plan Initiative:** Strengthen and enhance our identity, brand and image.**Title:**

Consider Replacement of Entrance Monument at TH #47 and Bunker Lake Boulevard

**Purpose/Background:**

Around the later 1990's, the city placed an entrance monument at the NW intersection of Bunker Lake Boulevard and St. Francis Boulevard—and several years ago, an automobile crash destroyed this same sign. The entrance sign to the city was not replaced, due to the substantial construction taking place at this intersection, which has now been completed.

The purpose of this case is to ascertain if the Committee wishes to recommend to City Council the replacement of the entrance monument at this time.

**Time Frame/Observations/Alternatives:**

Staff will highlight some of the details and manufacturing and installation timeline of the proposed project at the meeting, as well as respond to Committee member questions and ideas for proceeding.

**Funding Source:**

Staff's recollection is that approximately \$4,500 was received from the motorist's insurance company that destroyed the original sign. The manufacture and installation of the new entrance monument is *estimated* at approximately \$25k to \$35k, and a modest landscape treatment for around the sign may be less than \$1,000. (Staff anticipates having a quote or a not-to-exceed cost for the entrance monument available at the meeting.) Staff also requests direction from the Public Works Committee on the proposed funding source. Included within the first attachment is the Economic Development Authority's year-to-date budget as of August 31st, 2023.

**Recommendation:**

Staff does not have a specific recommendation at this time.

**Outcome/Action:**

Based upon discussion.

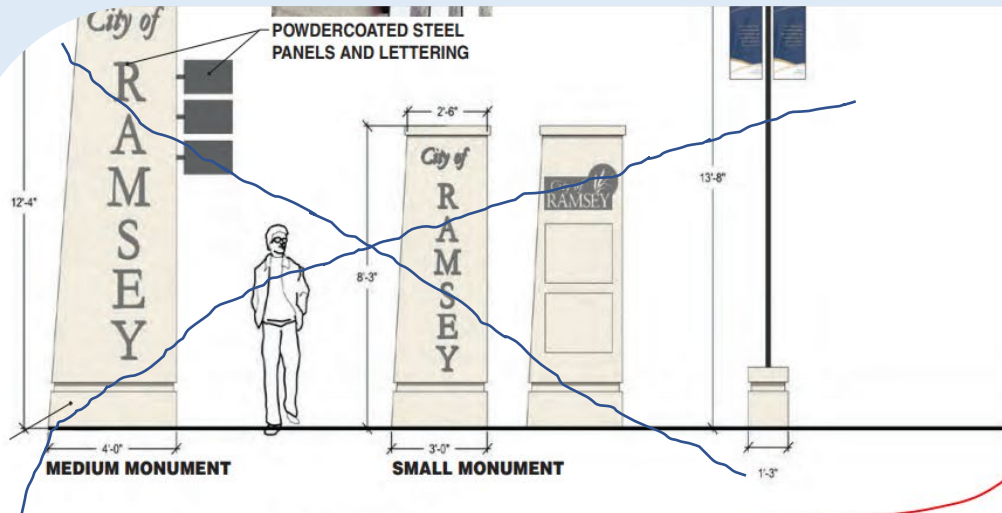
**Attachments**

Exhibits

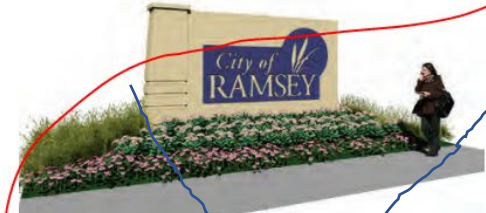
Sign manual

**Form Review**

<b>Inbox</b>	<b>Reviewed By</b>	<b>Date</b>
Bruce Westby	Bruce Westby	10/12/2023 01:31 PM
Brian Hagen	Brian Hagen	10/12/2023 03:07 PM
Form Started By: Mark Riverblood		Started On: 10/10/2023 09:50 AM
Final Approval Date: 10/12/2023		



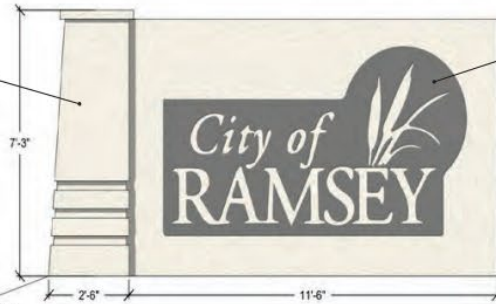
METAL PANEL CUT-OUT LETTERING



CONCRETE COLOR MATCHES TAN COLOR OF CITY LOGO, METAL PANEL MATCHES BLUE OF CITY LOGO



COLUMN DESIGN SIMILAR TO "COR" SIGNAGE



STEEL PANEL - CUT OUT LETTERING







**START CROSSING**  
Watch For  
Pedestrians

**DON'T START**  
Fresh Crossing  
If Started

**16**  
TIME REMAINING  
To Fresh Crossing

**DON'T CROSS**

**PUSH BUTTON**  
← TO CROSS

FRESH OIL

Shell  
Speedway

STX



11' x 28"

**CITY OF RAMSEY  
FINANCIAL STATEMENT**



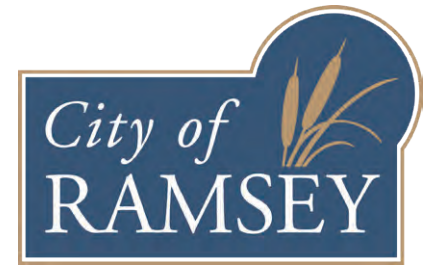
JANUARY 1, 2023 THROUGH PERIOD ENDING: August 31, 2023

**REVENUES**

<b>BUSINESS UNIT</b>		<b>9230</b>	<input type="checkbox"/>	<b>EDA</b>	
<b>GENERAL LEDGER ACCOUNT</b>		<b>CURRENT YEAR REQUESTED BUDGET</b>	<input type="checkbox"/>	<b>CURRENT YTD GENERAL LEDGER</b>	<b>-% of Budget-</b>
4011	CURRENT-AD VALOREM TAXES	82,610.00		38,082.98	46.10%
4012	DELINQUENT-AD VALOREM TAXES	-		118.06	0.00%
4014	FISCAL DISPARITIES	-		5,303.03	0.00%
4018	PENALTY/INT-AD VALOREM TAXES	-		(5.29)	0.00%
4609	OTHER MISCELLANEOUS REVENUES	-		275.42	0.00%
4701	INTEREST ON INVESTMENTS	5,000.00		-	0.00%
<b>Grand Total</b>		<b>87,610.00</b>		<b>43,774.20</b>	

**EXPENDITURES**

<b>BUSINESS UNIT</b>		<b>9230</b>	<input type="checkbox"/>	<b>EDA</b>	
<b>GENERAL LEDGER ACCOUNT</b>		<b>CURRENT YEAR REQUESTED BUDGET</b>	<input type="checkbox"/>	<b>CURRENT YTD GENERAL LEDGER</b>	<b>-% of Budget-</b>
6105	TEMPORARY-WAGES & SALARIES	1,500.00		305.00	20.33%
6122	FICA/MEDICARE CONTRIBUTIONS	100.00		23.33	23.33%
6133	WORKERS COMP INSURANCE PREMIUM	10.00		-	0.00%
6208	MISCELLANEOUS OFFICE SUPPLIES	-		11.35	0.00%
6249	MISCELLANEOUS OPERATING SUPPLY	19,000.00		(5,654.80)	-29.76%
6315	MISCELLANEOUS PROFESSIONAL SER	35,000.00		989.86	2.83%
6331	TRAVEL & LODGING	2,300.00		409.55	17.81%
6335	TRAINING	1,500.00		1,125.00	75.00%
6361	GENERAL LIABILITY/PROPERTY INS	1,000.00		312.89	31.29%
6371	ELECTRIC UTILITIES	-		76.27	0.00%
6451	MEMBERSHIP DUES	2,200.00		576.10	26.19%
6246	MARKETING & PROMOTIONS	25,000.00		6,626.00	26.50%
6351	LEGAL NOTICES PUBLISHING	-		65.00	0.00%
<b>Grand Total</b>		<b>87,610.00</b>		<b>4,865.55</b>	



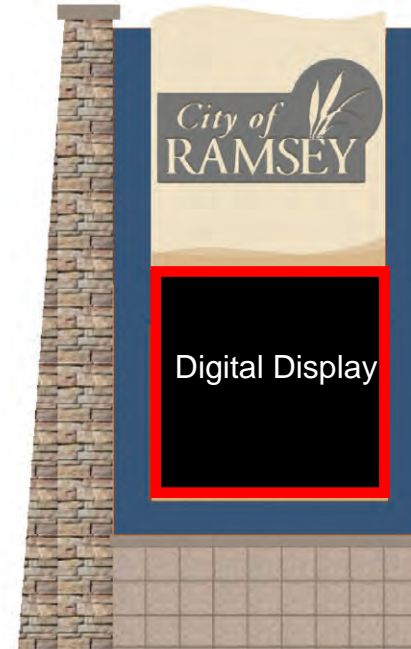
# CITY OF RAMSEY KEY NODES AND STREETScape GUIDE



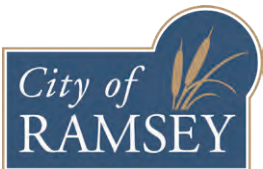
Project Number: 011565-000  
April 19, 2018

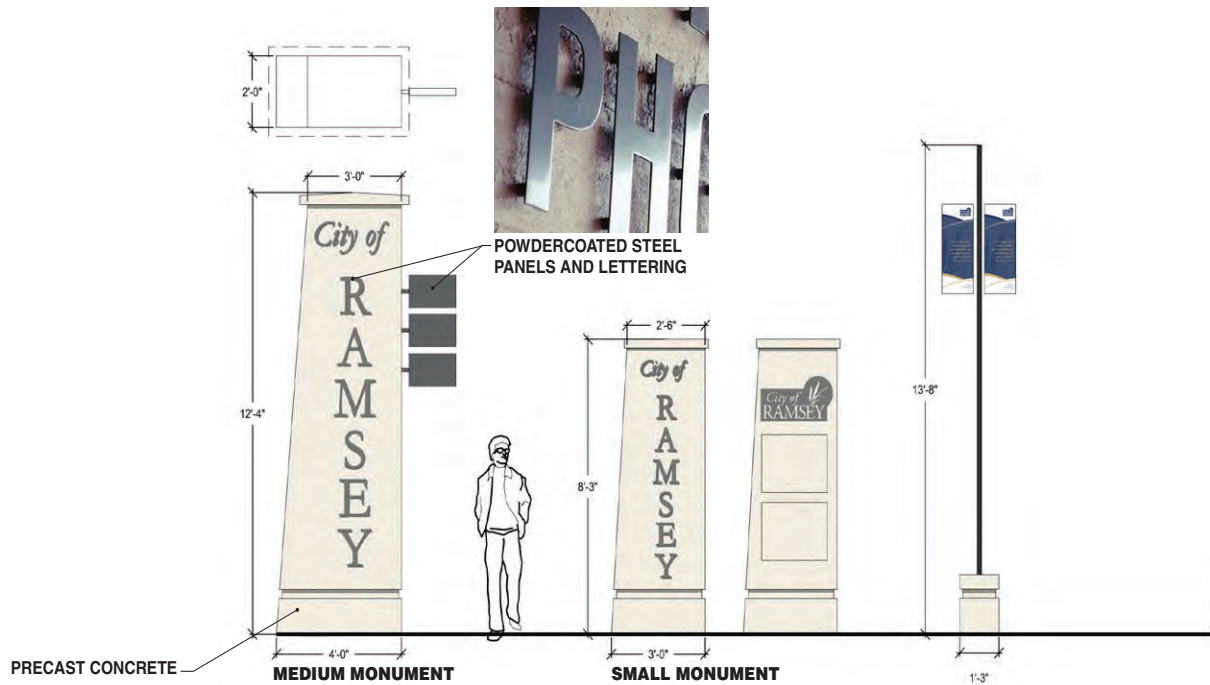


**EXISTING X-LARGE SIGNAGE LOCATED ON HWY 10  
NEAR CITY HALL**



- RETROFITTED EXISTING X-LARGE SIGNAGE**
- REPAINT WITH BLUE TO MATCH RAMSEY LOGO
  - ADD "CITY OF RAMSEY" PANEL TO TOP OF SIGN
  - REPLACE TENANT SIGNAGE WITH "THE COR" LOGO

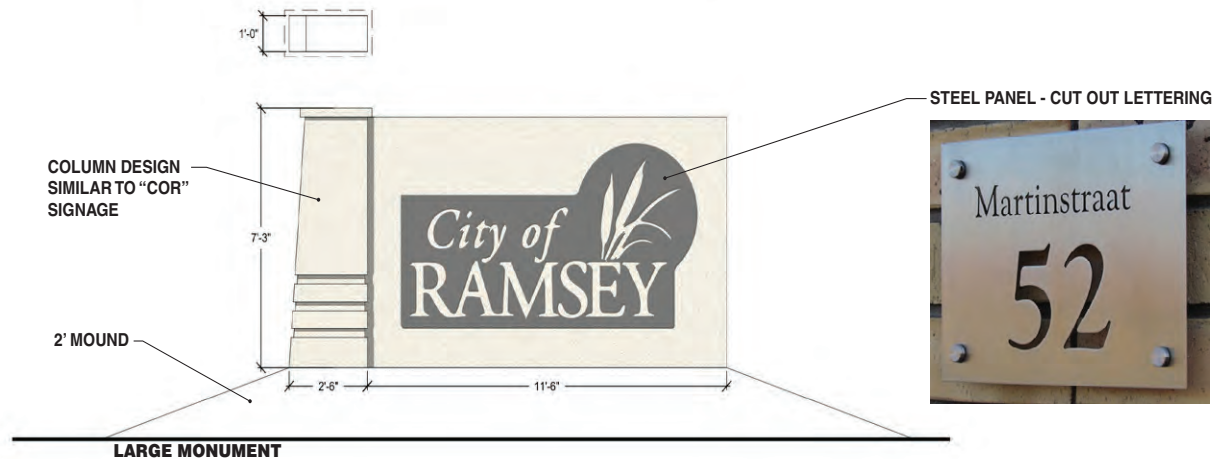




LIGHT COLORED CONCRETE WITH METAL PANEL CUT-OUT LETTERING



CONCRETE COLORS MATCH EXTERIOR BUILDING COLORS OF CITY HALL



CONCRETE COLOR MATCHES TAN COLOR OF CITY LOGO, METAL PANEL MATCHES BLUE OF CITY LOGO



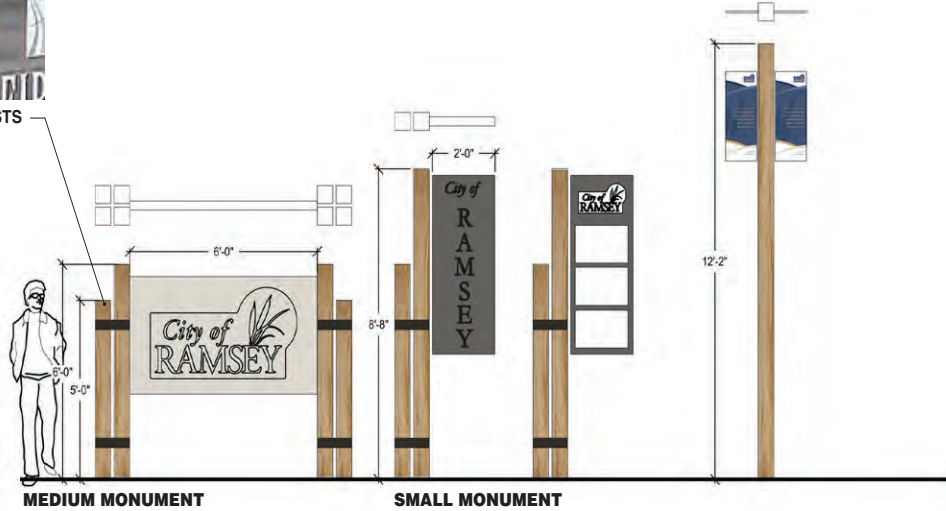
EXAMPLE SIGNAGE



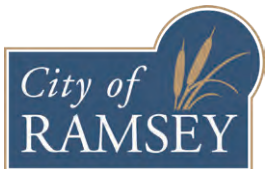
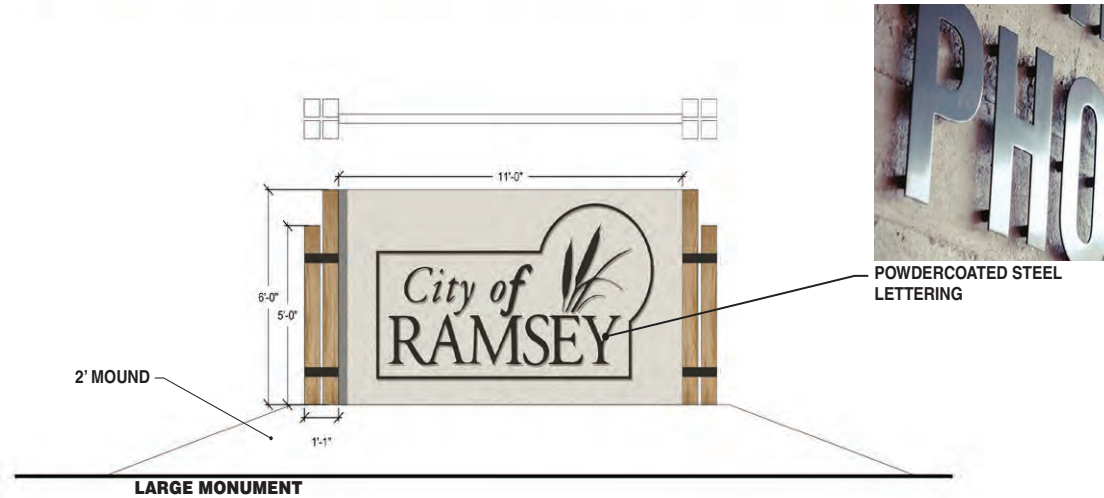
**CITY OF RAMSEY KEY NODES AND STREETScape GUIDE**  
Signage Concept 1

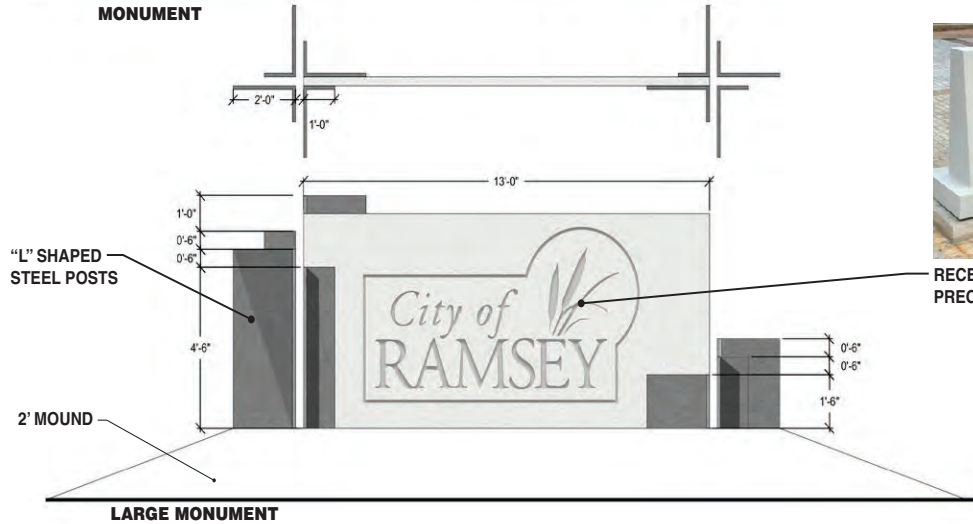
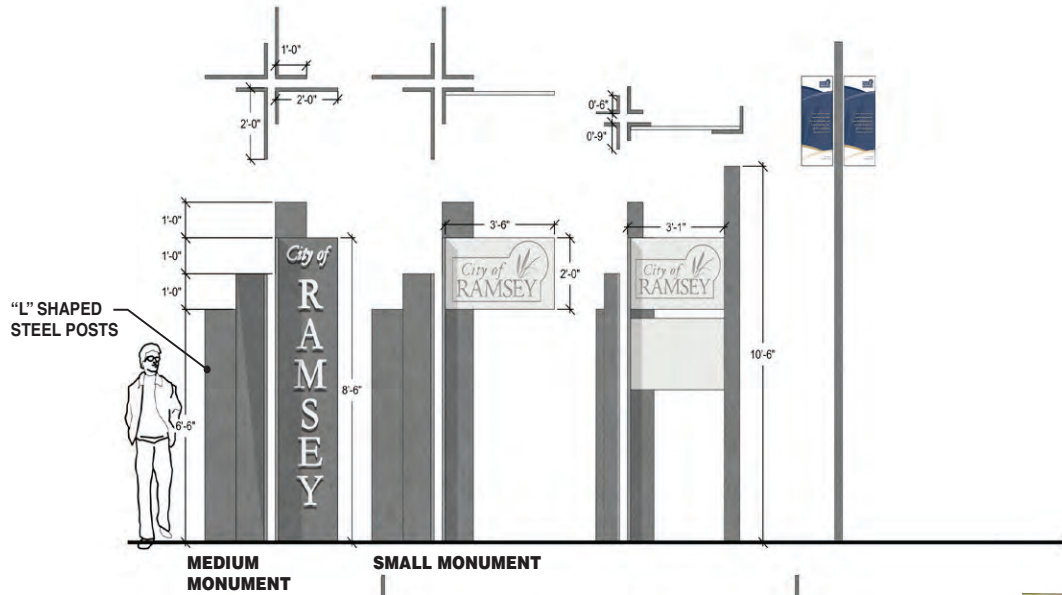


TIMBER POSTS

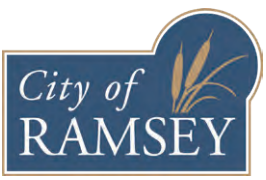


EXAMPLE SIGNAGE WITH TIMBER POSTS





RECESSED LETTERING IN PRECAST CONCRETE



**CITY OF RAMSEY KEY NODES AND STREETScape GUIDE**  
**Signage Concept 3**

**TREE SELECTIONS FROM COR DESIGN FRAMEWORK MANUAL**

**UNDER POWER LINE TREES  
(NORTH BOULEVARD)**

- SPRING SNOW CRABAPPLE
- KELSEY CRABAPPLE
- JAPANESE TREE LILAC

**SHADE TREES  
(SOUTH BOULEVARD)**

- VALLEY FORGE ELM
- BOULEVARD LINDEN
- SKYLINE HONEYLOCUST

**PLANTINGS AROUND  
MONUMENT SIGNS**

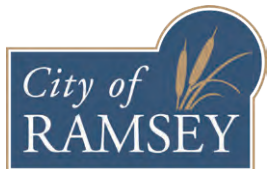
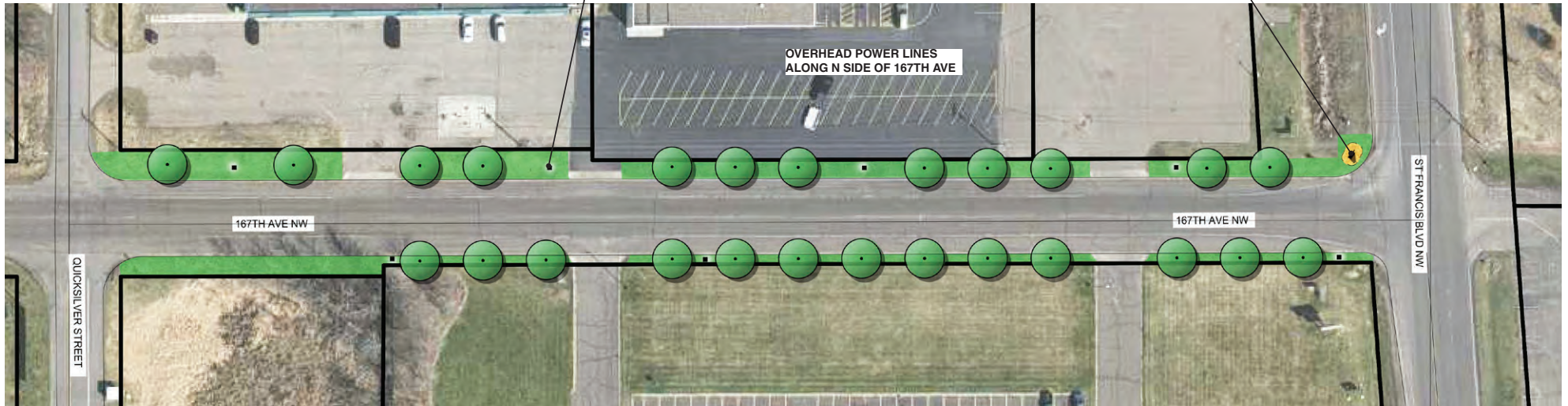
- CHICAGO APACHE DAYLILY
- WALKER'S LOW CATMINT
- PRAIRE DROPSEED



BANNERS ATTACHED TO LIGHTPOLES

CITY STANDARD LIGHTPOLE SPACED 100' APART - ALTERNATING SIDES OF ROAD

MEDIUM MONUMENT SIGN WITH PLANTINGS



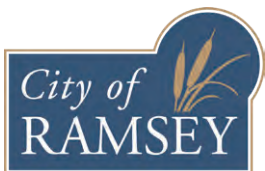


LARGE MONUMENT  
SIGN WITH PLANTINGS

ST FRANCIS BLVD NW

BUNKER LAKE BLVD

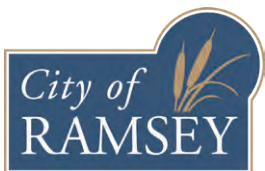
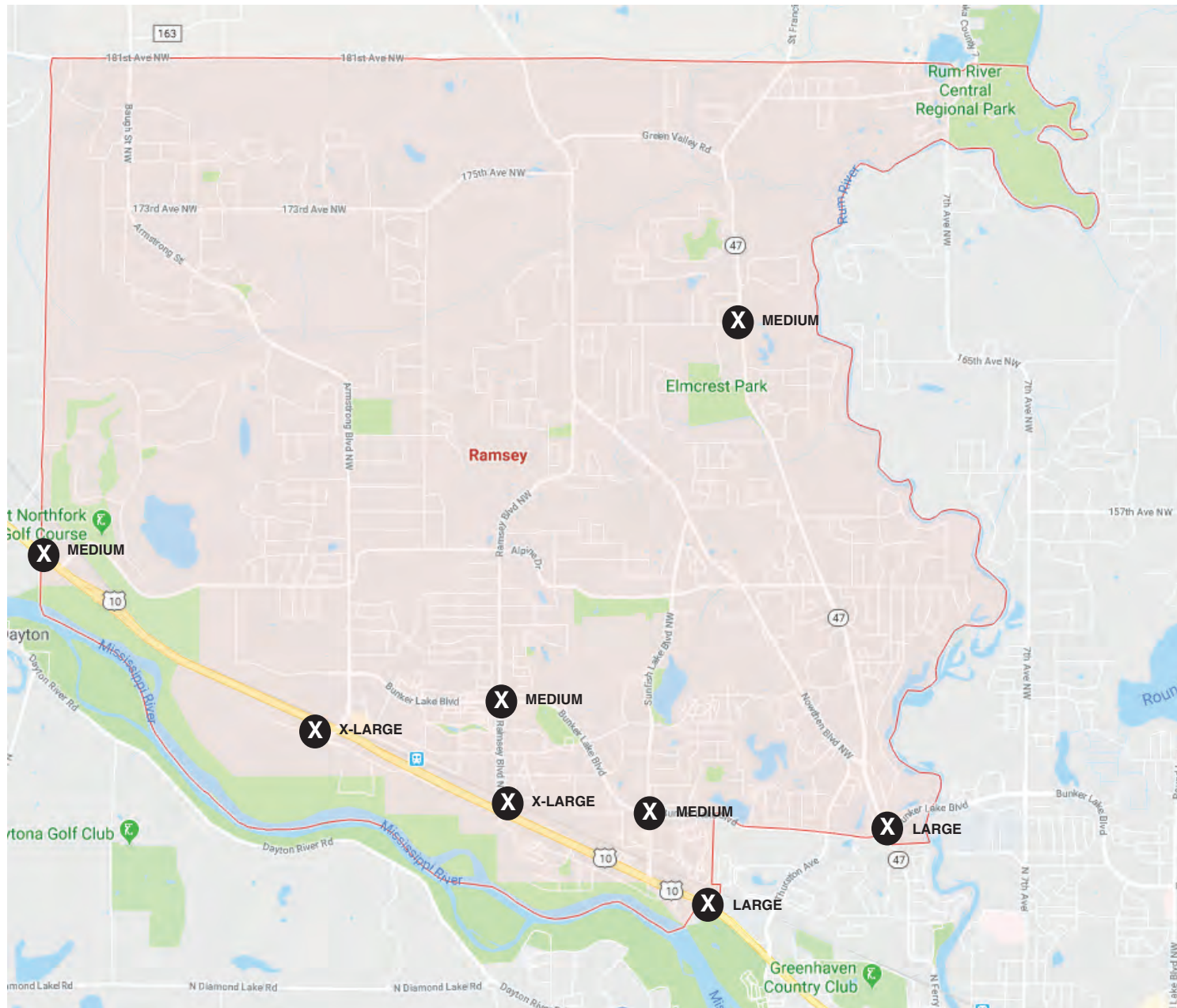
BANNER POLE LOCATIONS (●) COULD BE PLACED:  
1. BUNKER LAKE BLVD MEDIAN  
2. ST. FRANCIS BLVD MEDIAN  
3. BEHIND MONUMENT SIGN



## CITY OF RAMSEY KEY NODES AND STREETScape GUIDE

### St Francis and Bunker Lake Blvd

**X** PROPOSED MONUMENT SIGN  
LOCATION AND MONUMENT SIZE



## CITY OF RAMSEY KEY NODES AND STREETScape GUIDE

### Potential Signage Areas

**Public Works Committee****Meeting Date:** 10/17/2023**Primary Strategic Plan Initiative:** Connect the community through Parks, Trails and Recreational Programming.**Title:**

Trail Gap Connection Planning

**Purpose/Background:**

The purpose of this case, is to brief and update the Committee on the city's approach to planning for trails and especially identifying and prioritizing new trail construction and connections.

Bituminous trails (together with sidewalks) may be the most cost effective aspect of the city's park and trail system—and one that serves the greatest diversity of residents. There is a variety of recreational value directly associated with trail usage—and the trails connect neighborhoods and residents to their parks and other destinations. In doing so, trails are also an important transportation element for the community, *and* add safety benefits to both pedestrians and motorists at the same time. The city is fortunate to have over 75 miles of trails in place today, and more planned-for.

While trails are greatly appreciated by residents, and they desire more opportunities and connections—they can cost \$150,000 to \$200,000 or more per mile to construct. Therefore, the city has been judicious and strategic in the implementation and creation of the trail system, with grants providing more than \$2M in funding to date. Requiring construction of trails along arterial roads by Developers has also been key to building Ramsey's trail system.

**Time Frame/Observations/Alternatives:**

As signaled above, it has been imperative to prioritize new trail creation with a focus on maximizing the return-on-investment of each trail segment. Two strategies are included here—one is to maintain a Trail Connections project within the CIP to be ready to implement opportunity-driven trail connections. Perhaps a good project example is the trail gap between the Holiday gas station along T.H. 47, north of 142nd Avenue. A key opportunity would be when a vacant parcel develops along this stretch, such that the Developer would pay for some of the trail costs, with the city contributing to 'fill the gap'. The first attachment illustrates this area (note the cost estimates are out of date).

Perhaps the most important strategy for prioritizing city-wide trail gaps, was the conception of the Circle of Ramsey Greenway, which is a trail loop (with interior 'spokes') that circumnavigates the city, connecting all the groups of neighborhoods and each of the community parks. Utilizing this planning approach has resulted in about 80% of the Circle of Ramsey Greenway in place today. For the meeting, staff will highlight this example to illustrate the Trail Gap Connection Planning process and direction. The Circle of Ramsey Greenway is the second attachment.

**Funding Source:**

No funding is required as part of this case discussion.

**Recommendation:**

Staff recommends continuing to look for cost-effective means to connect the community through trails, with priority consideration for key gaps.

**Outcome/Action:**

Affirm the city's practice of strategically seeking opportunities to expand the trail system and connect the gaps.

---

### **Attachments**

T.H. 47 trail

Circle of Ramsey Greenway

### **Form Review**

**Inbox**

Bruce Westby

Brian Hagen

Form Started By: Mark Riverblood

Final Approval Date: 10/12/2023

**Reviewed By**

Bruce Westby

Brian Hagen

**Date**

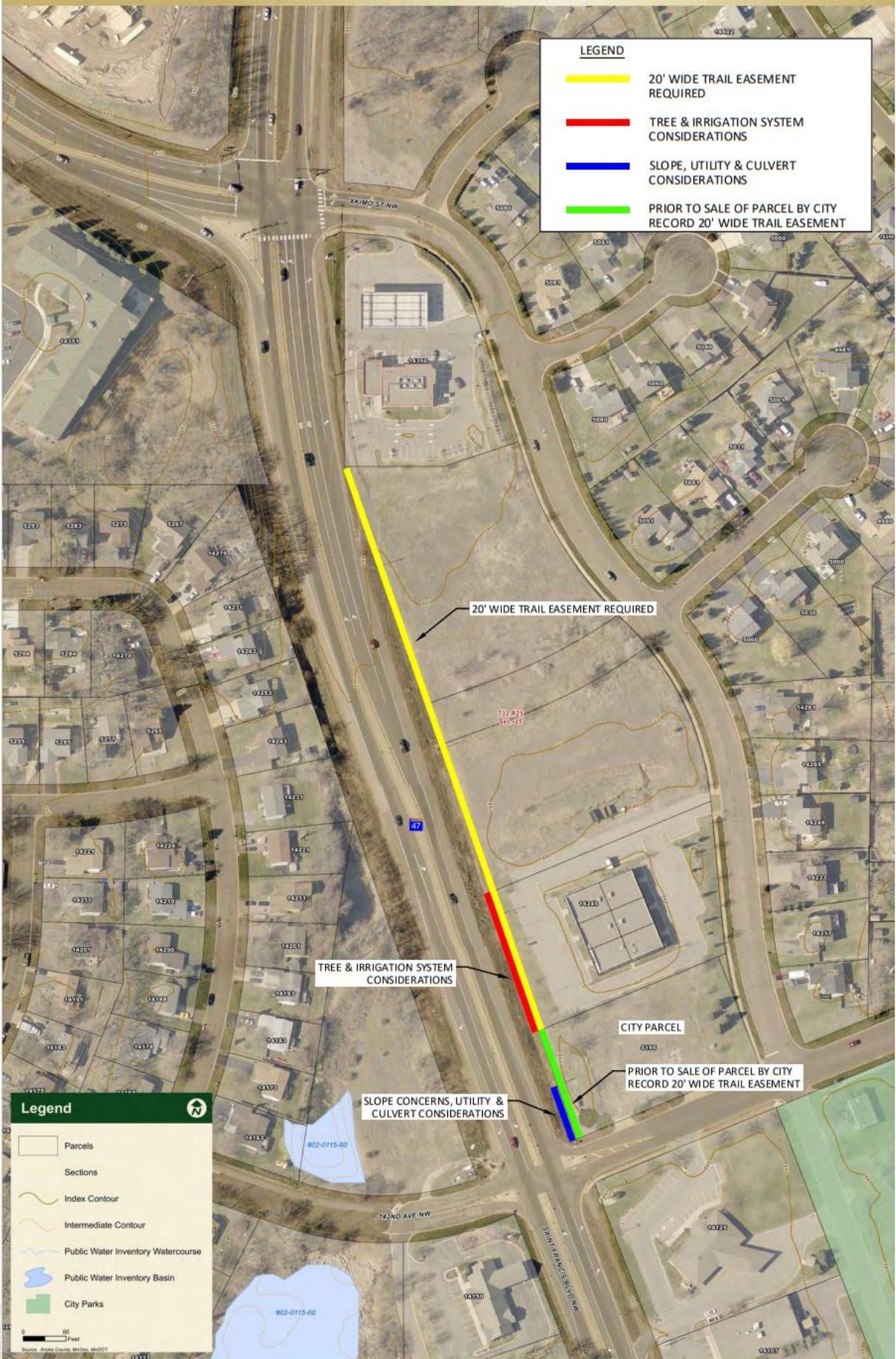
10/12/2023 01:34 PM

10/12/2023 03:11 PM

Started On: 10/10/2023 09:55 AM

**LEGEND**

- 20' WIDE TRAIL EASEMENT REQUIRED
- TREE & IRRIGATION SYSTEM CONSIDERATIONS
- SLOPE, UTILITY & CULVERT CONSIDERATIONS
- PRIOR TO SALE OF PARCEL BY CITY RECORD 20' WIDE TRAIL EASEMENT



20' WIDE TRAIL EASEMENT REQUIRED

TREE & IRRIGATION SYSTEM CONSIDERATIONS

SLOPE CONCERNS, UTILITY & CULVERT CONSIDERATIONS

CITY PARCEL

PRIOR TO SALE OF PARCEL BY CITY RECORD 20' WIDE TRAIL EASEMENT

**Legend**

- Parcels
- Sections
- Index Contour
- Intermediate Contour
- Public Water Inventory Watercourse
- Public Water Inventory Basin
- City Parks

0 60 Feet

Source: Assaiz County, Minn. M&DT

# St. Francis Boulevard Trail

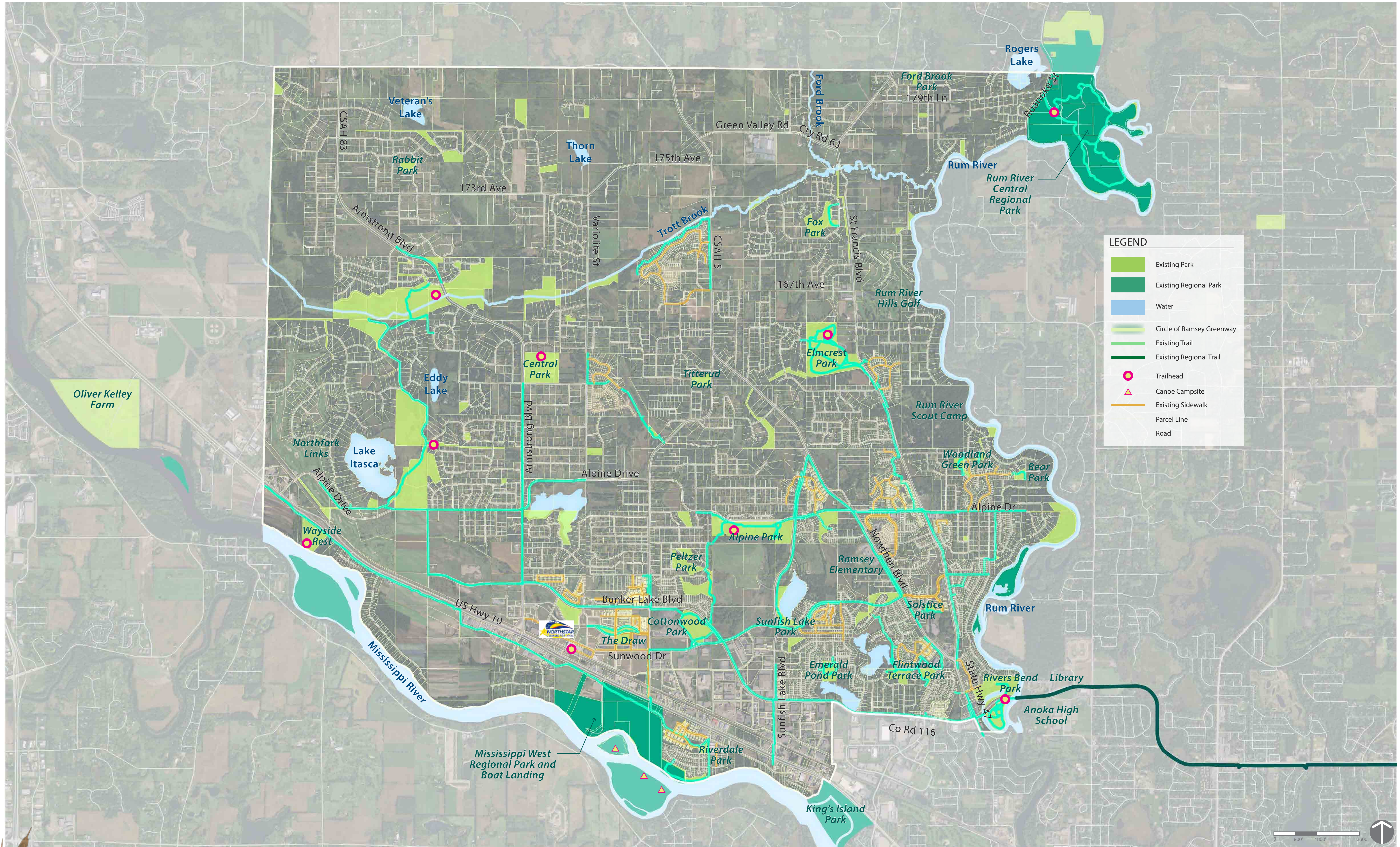
## ALL OFF-ROAD TRAIL

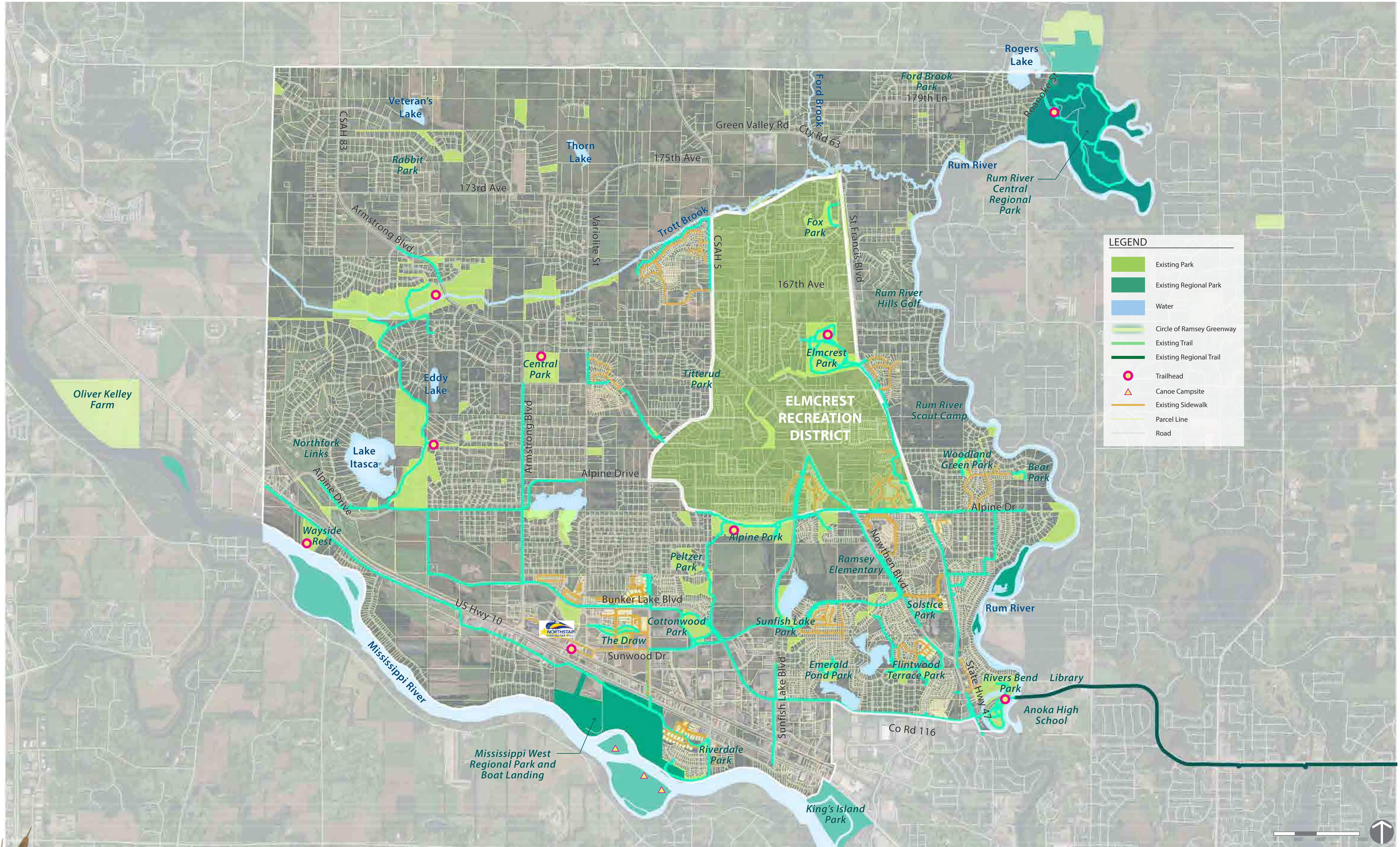
	Length/Area	Unit Price	Cost	
Base Trail	1000	\$45.00	\$45,000.00	
Special Slope Areas	100	\$100.00	\$10,000.00	South end. Includes utility and culvert conflicts.
Irrigation and Tree Conflicts	200	\$50.00	\$10,000.00	Allowance for tree relocations and irrigation repairs.
Subtotal			\$65,000.00	
Mobilization		8.00%	\$5,200.00	
Traffic Control		3.00%	\$1,950.00	
<b>Total Construction Estimate</b>			<b>\$72,150.00</b>	
Length			1,000	
Cost per LF Check			\$72.15	
<b>Administrative (Low)</b>			<b>\$10,822.50</b>	15 Percent for a locally funded trail
<b>Administrative (High)</b>			<b>\$18,037.50</b>	25 Percent for a federally funded trail

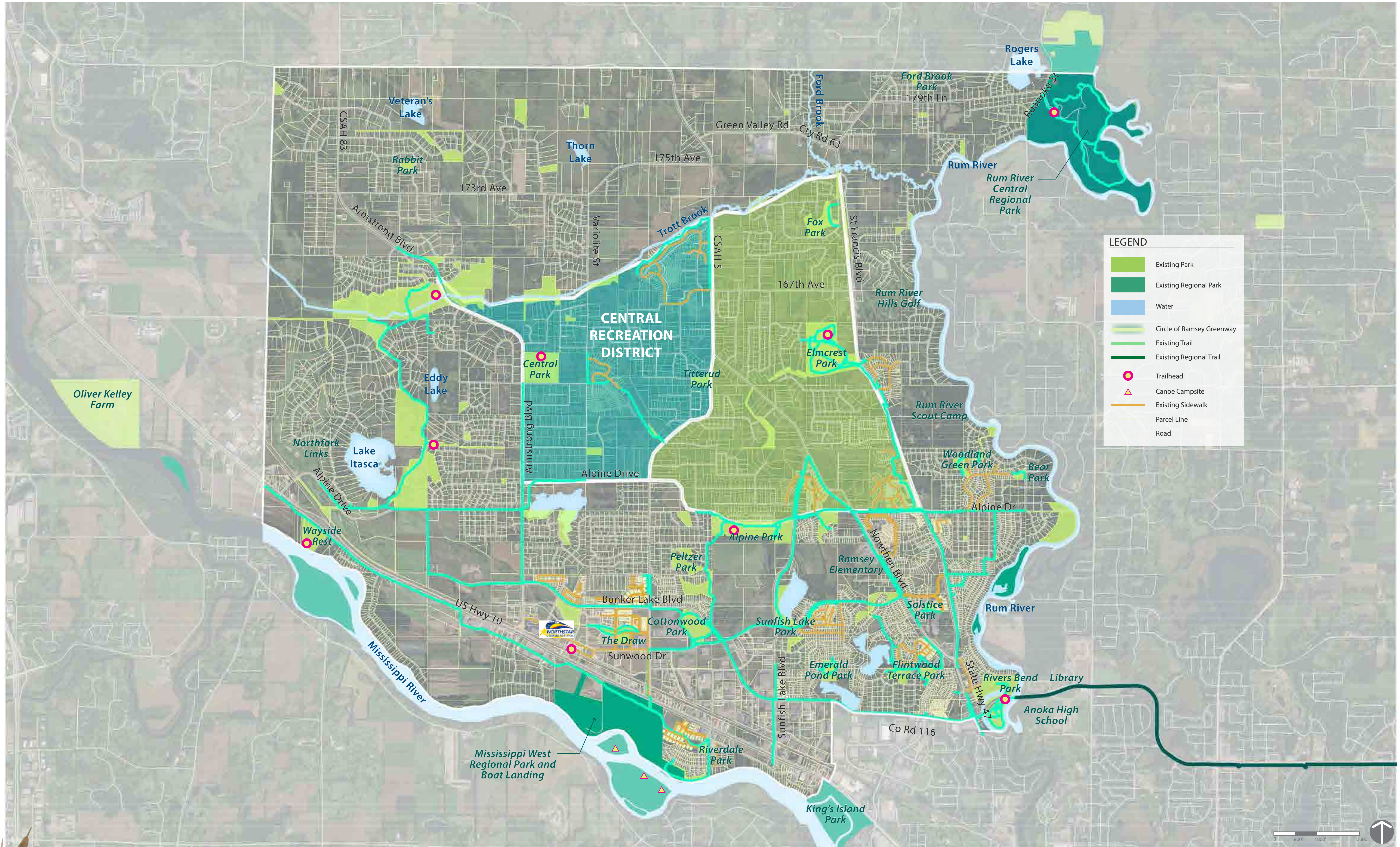
City of Ramsey parcel at south end. Record easement on this property prior to sale.  
 Need trail easements over all parcels north of City property. 830 feet of length x 20 feet wide.

Base Trail Cost: \$45/LF. Includes grading, CL5, bituminous, restoration, seeding.  
 Retaining walls: Assume \$25/SF above ground (exposed surface).  
 Tree clearing and trimming: \$1000/acre.  
 Boardwalk or Bridge: \$200/LF  
 Culvert Extensions: \$100/LF  
 On Road: \$15/LF for striping and signage and crosswalk.  
 Curb and Gutter: \$100/LF. Includes bituminous patching in front of curb and drainage pipe and structures  
 Wetland Replacement: \$50,000/Acre  
 Mobilization: 8%  
 Traffic control: 3%

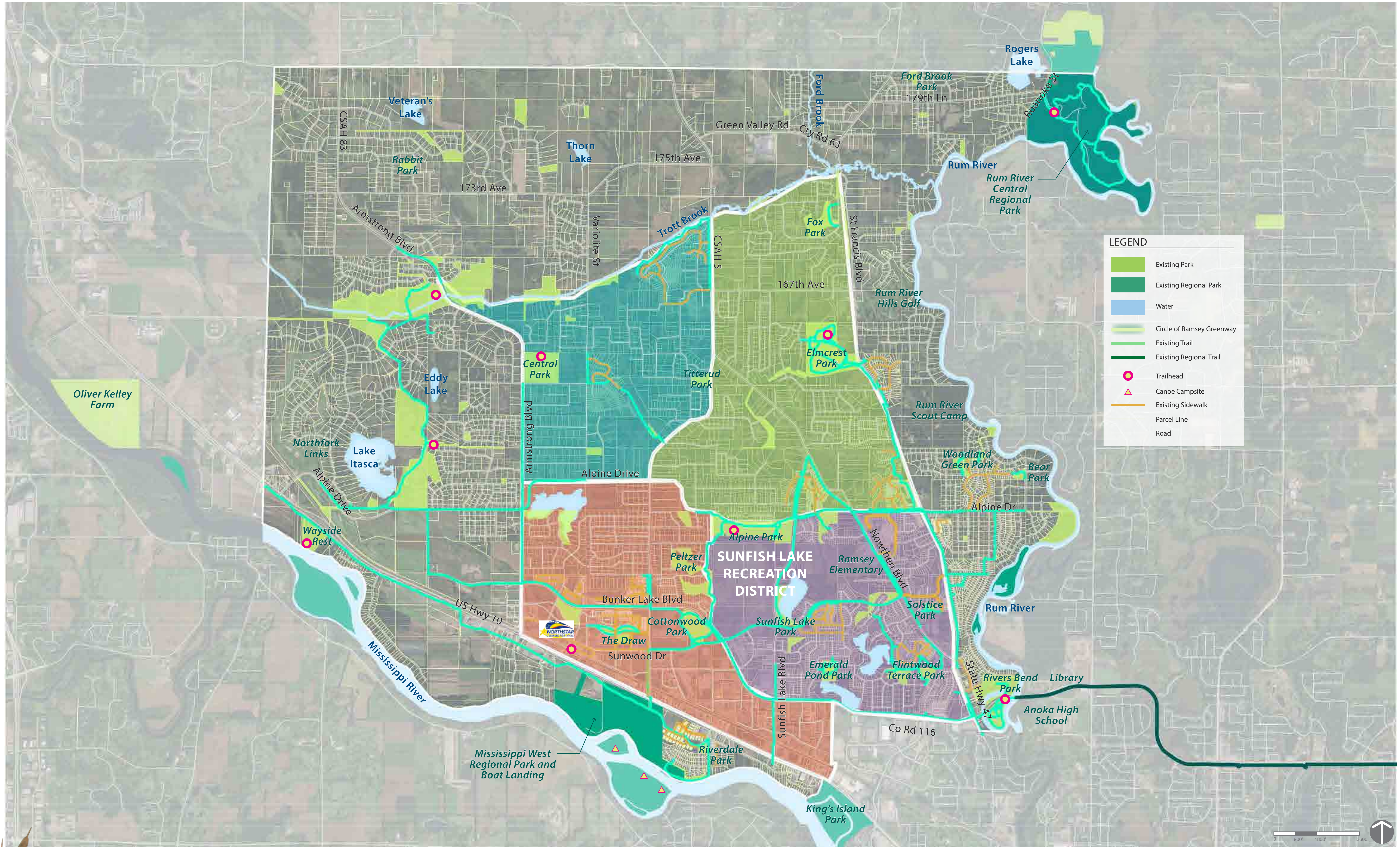
(2018 pricing)

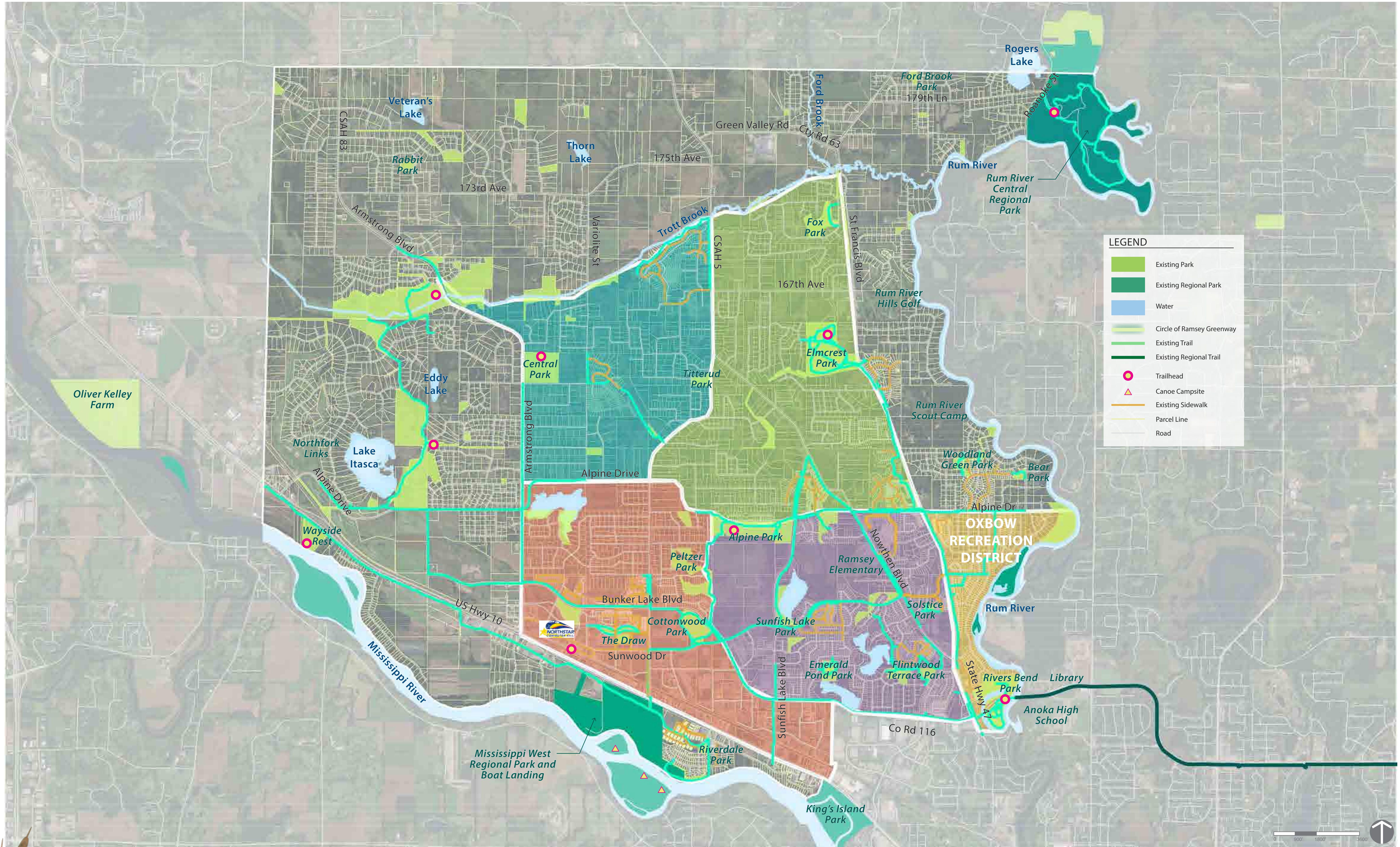






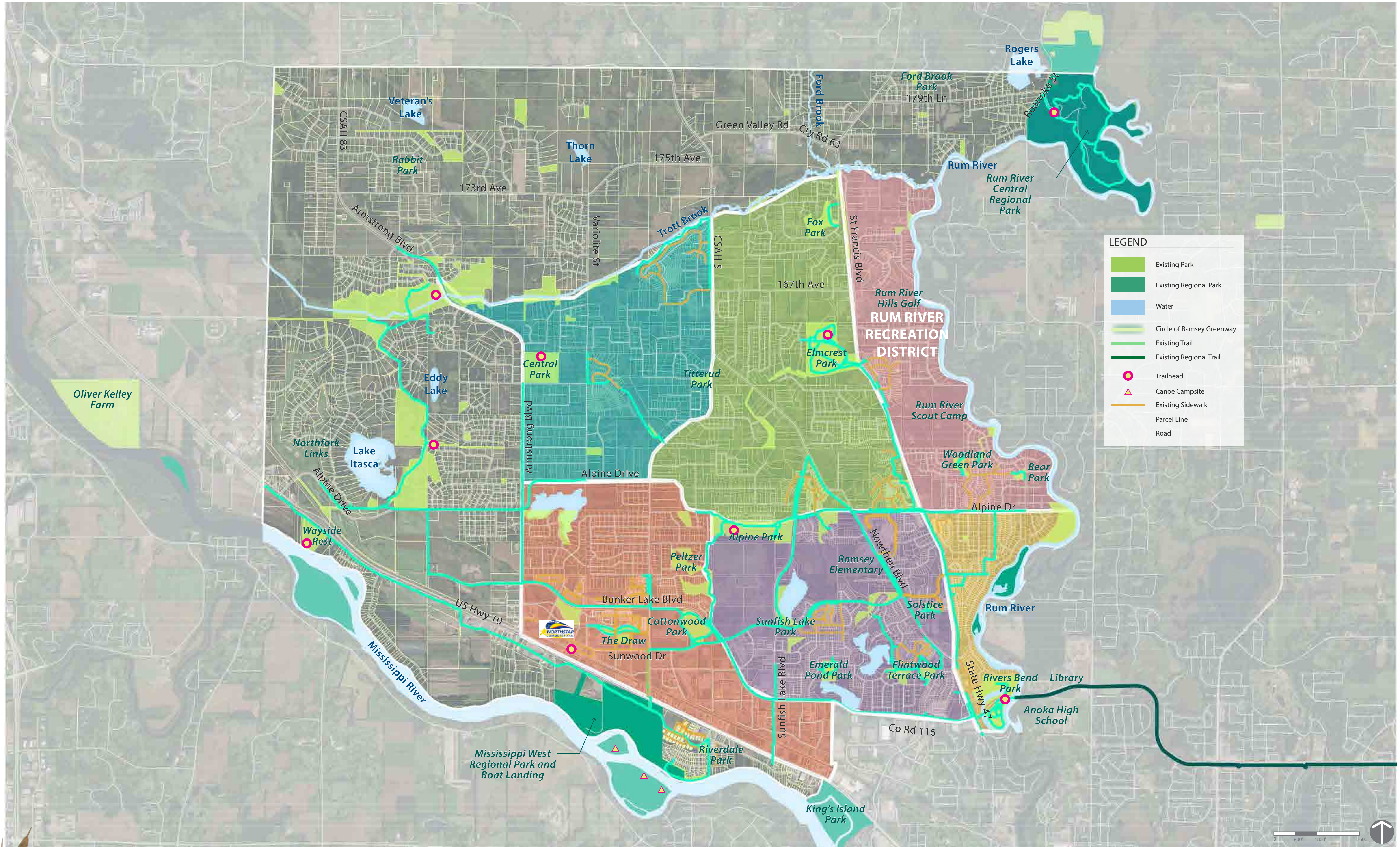






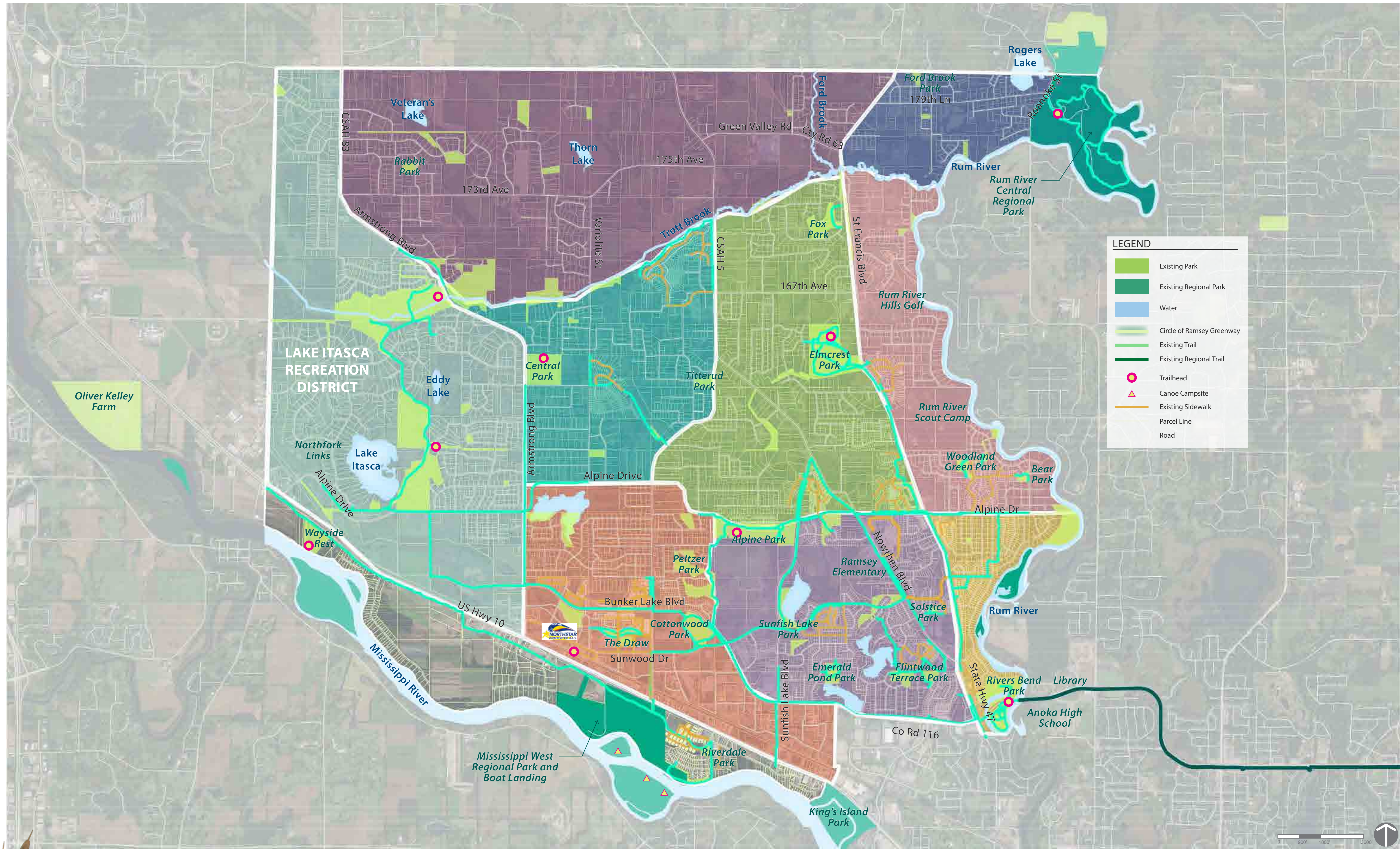
**LEGEND**

- Existing Park
- Existing Regional Park
- Water
- Circle of Ramsey Greenway
- Existing Trail
- Existing Regional Trail
- Trailhead
- Canoe Campsite
- Existing Sidewalk
- Parcel Line
- Road

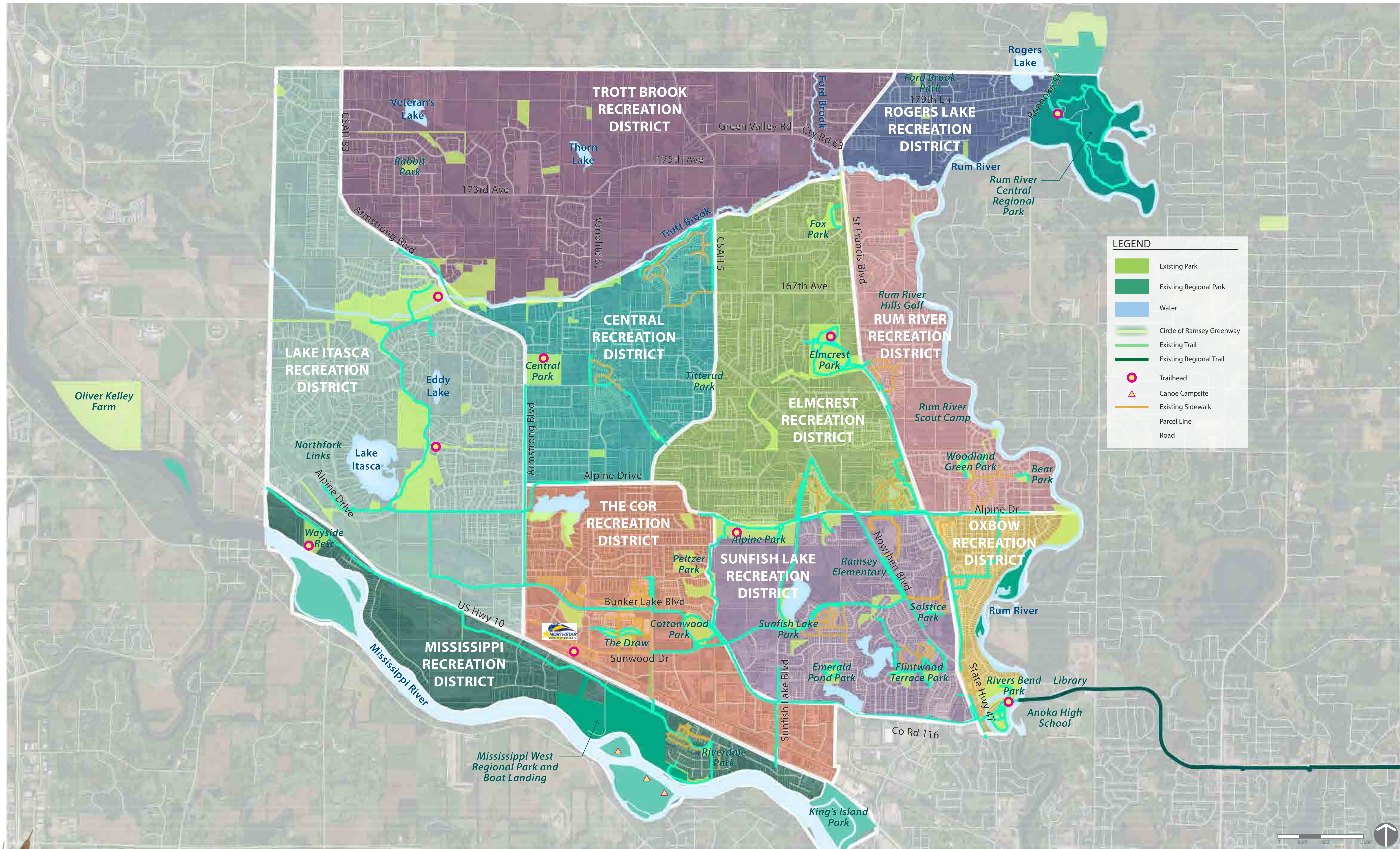


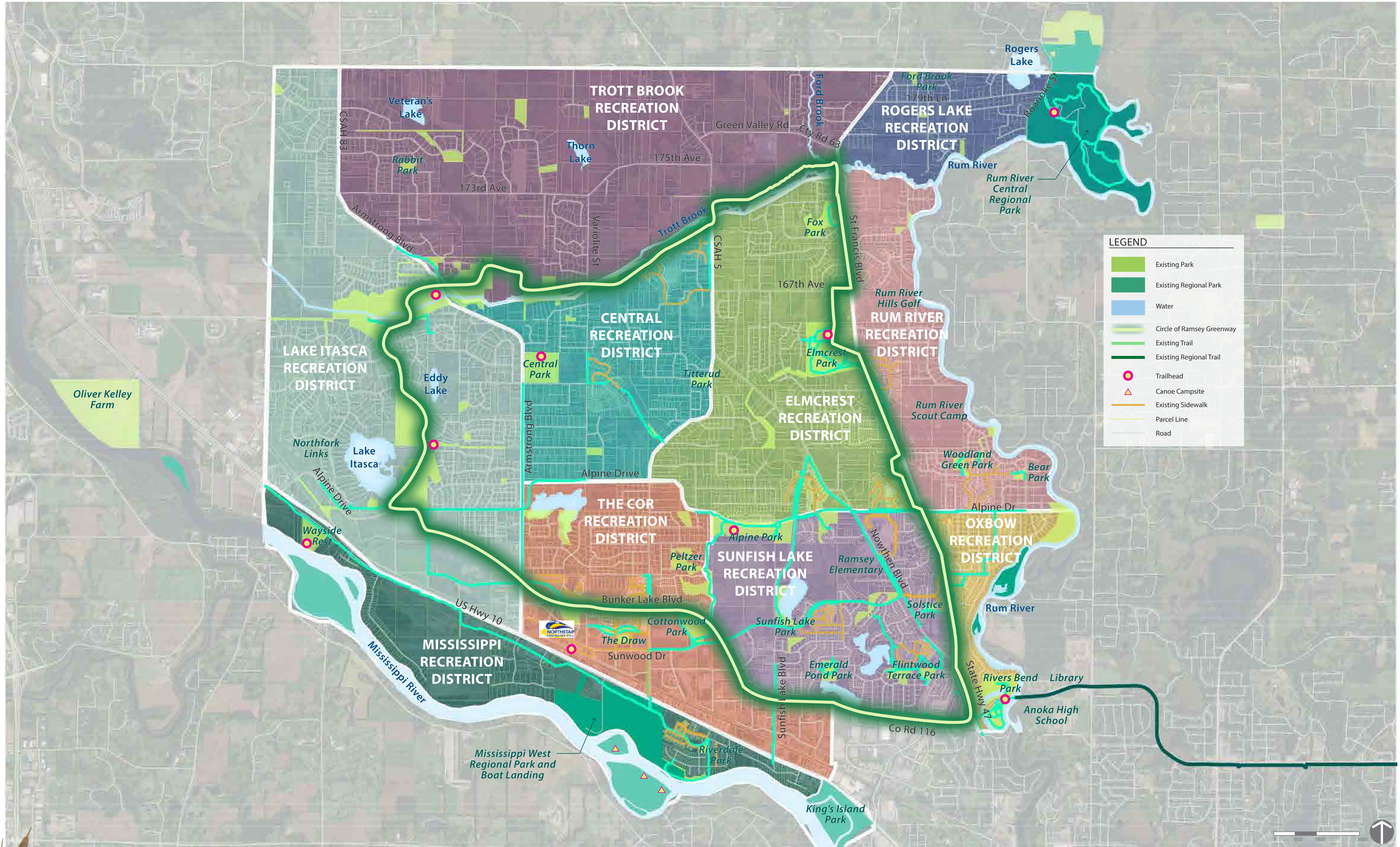


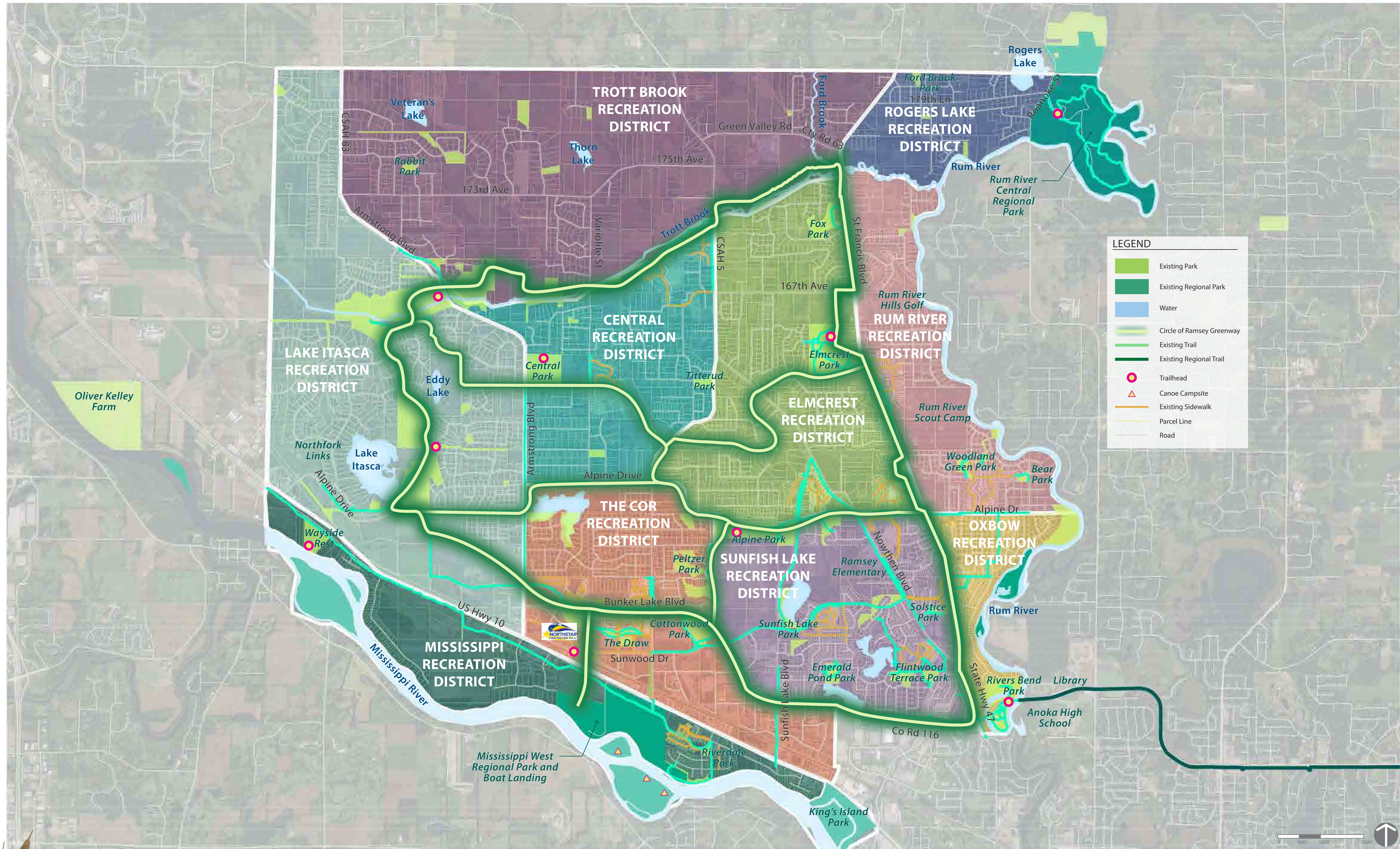












**LEGEND**

- Existing Park
- Existing Regional Park
- Water
- Circle of Ramsey Greenway
- Existing Trail
- Existing Regional Trail
- Trailhead
- Canoe Campsite
- Existing Sidewalk
- Parcel Line
- Road



**Public Works Committee****Meeting Date:** 10/17/2023**Primary Strategic Plan Initiative:** Not Applicable**Title:**

Receive Updates on Improvement Projects, Studies and Items of Interest

**Purpose/Background:**

The purpose of this case is to update the Public Works Committee on current and proposed City, County and MnDOT improvement projects and studies, and on other items of interest to the Committee.

**City Improvement Projects**

- **2024 PMP Projects**
  - Design in progress on 9 projects è noticing open houses
- **161<sup>st</sup> Avenue Reconstruction (IP #23-01)**
  - Construction substantially complete
  - Punch list work in progress
- **Central Park Parking Lot Reconstruction (IP #23-02)**
  - Construction substantially complete
  - Punch list work in progress
- **167<sup>th</sup> Avenue Reconstruction (IP #23-04)**
  - Construction in progress
  - Completion anticipated mid t late-October
- **Barthels Rum River Acres 2nd Reconstruction (IP #23-05)**
  - Construction substantially complete
  - Punch list work in progress
- **2023 MSA Pavement Overlay Improvements (IP #23-06)**
  - Construction substantially complete
  - Punch list work in progress
- **Whispering Pines Estates Plat 3 Reconstructions (IP #23-10)**
  - Construction substantially complete
  - Punch list work in progress
- **Trott Brook Crossing Sanitary Sewer Lift Station Improvements (IP #23-11)**
  - Construction in progress
  - Fall 2023 final completion
- **HY-10 Ramsey Improvements (IP #23-12)**
  - Construction substantially complete
  - Punch list work in progress
- **COR Mass Grading (IP #23-20)**
  - Approximately 50% complete
  - Encountered silty sands in middle of pond è revise pond bottom grades?
  - Completion anticipated by end of 2023
- **Highway 47 Sound Wall north of Xkimo Street (IP #22-17)**
  - MnDOT Cooperative Construction Agreement required
  - Staff anticipates requesting Council approval to authorize bids Spring/Summer 2024
- **WTP Trunk Watermain Improvements (#21-08)**
  - Advertised for bids
  - Bid opening November 1, 2023
  - Council to consider awarding Contract November 14, 2023

- **Centralized Water Treatment Plant (#21-09)**
  - Construction in progress
  - Substantial completion scheduled for May 1, 2025
  - Final completion scheduled for August 1, 2025
- **Ramsey Gateway Highway 10 Improvements (IP #20-11)**
  - Riverdale Drive east of SLB & temp US 10 widening Summer/Fall 2023
  - Ames Construction under contract October 11, 2023
  - Preconstruction meeting held October 12, 2023
  - Construction starting October 16, 2023
  - Construction completion anticipated June 2026
- 
- **City of Anoka Improvement Projects**
- **Highway 47 Corridor Improvements**
  - 3-lane design proposed south of Bunker Lake Boulevard
  - City received regional solicitation funds for 2027 construction
  - Signal system at McKinley Street is proposed to be permanent
  - Anoka webpage <https://clients.bolton-menk.com/anokahwy47/>
- 
- **Anoka County Improvement Projects**
- **Roundabout at Armstrong Boulevard/CSAH 83 and Alpine Drive (IP #23-03)**
  - Construction substantially complete
  - Punch list work in progress
- 
- **MnDOT Improvement Projects**
- **Anoka Solution Highway 10 Improvements**
  - Substantial completion November 2023
  - Final completion Spring 2024
  - Anoka webpage <https://clients.bolton-menk.com/hwy10/>
  - MnDOT webpage <http://www.dot.state.mn.us/metro/projects/hwy10-anoka/>
- **US 10 / 169 & Ferry Street / TH 47 Interchange**
  - Final completion Spring 2024
  - MnDOT webpage <http://www.dot.state.mn.us/metro/projects/hwy10-anoka/>
- **Ferry Street / Trunk Highway 47 Grade Separation @ BNSF Rail Crossing**
  - Preliminary design suspended; exploring S-curve realignment and stormwater impacts
  - \$45M in bonds authorized October 2020
  - Construction proposed for 2024 or later
  - MnDOT webpage <http://www.dot.state.mn.us/metro/projects/hwy47rr-anoka/>
- **Rum River Bridge Replacement**
  - Three lanes each direction
  - Final completion Spring 2024
  - MnDOT webpage <http://www.dot.state.mn.us/metro/projects/hwy10-anoka/>
- 
- **Studies & Items of Interest**
- **Sunfish Lake Sedimentation Basin Improvements**
  - Property owner indicated interest in filling swale and grading sedimentation basin
  - Staff delineated rear property line last Fall and notified property owner
  - Staff continues to try contacting property owner
- **Elk River Highway 10 Corridor Study**
  - Staff will present final report when available (November 2023?)
  - Study website <https://www.highway10corridorstudy.com/>

**Time Frame/Observations/Alternatives:**

Staff estimates up to 10 minutes will be needed for updates and discussion.

**Recommendation:**

NA

**Outcome/Action:**

No formal action required. For Committee review and discussion purposes only.

---

**Attachments**

*No file(s) attached.*

**Form Review**

**Inbox**

Brian Hagen

Form Started By: Bruce Westby

Final Approval Date: 10/12/2023

**Reviewed By**

Brian Hagen

**Date**

10/12/2023 03:11 PM

Started On: 10/10/2023 04:07 PM

**Public Works Committee****Meeting Date:** 10/17/2023**Primary Strategic Plan Initiative:** Not Applicable**Title:**

Review Future Topics Calendar

**Purpose/Background:**

Attached is a calendar of future topics for review and discussion by the Public Works Committee. The calendar includes topics drawn from Committee requests received during meetings and/or unresolved topics previously discussed by the Committee. Calendar dates are subject to change based on the availability of information and required attendees, staff workload, and competing interests and objectives.

**Time Frame/Observations/Alternatives:**

Less than 5 minutes is anticipated to be necessary to review the future topics calendar and address questions.

**Recommendation:**

Staff recommends reviewing the attached calendar and to either approve the calendar by consensus or to direct Staff to revise the calendar as follows; \_\_\_\_\_.

**Outcome/Action:**

No formal action required. For Committee review and discussion purposes only.

**Attachments**

PWC Calendar Oct2023

**Form Review****Inbox**

Brian Hagen

Form Started By: Bruce Westby

Final Approval Date: 10/12/2023

**Reviewed By**

Brian Hagen

**Date**

10/12/2023 03:11 PM

Started On: 10/10/2023 04:08 PM

**Public Works Committee Future Topics Calendar \***

<b>Date</b>	<b>Topics for Discussion – Committee Action</b>
November 2023	Sunfish Lake Sedimentation Basin Improvements <i>(Westby)</i>
Future/TBD	Sunwood Drive Roundabout Landscaping <i>(Riverblood)</i>
<b>Date</b>	<b>Topics for Discussion – Regulatory</b>
Future/TBD	Sunfish Lake Blvd./CSAH 57 Speed Study Results <i>(Westby)</i>
Future/TBD	Bunker Lake Blvd./CSAH 116 Speed Study Results <i>(Westby)</i>
<b>Date</b>	<b>Topics for Discussion – Policy</b>
Future/TBD	Landscaped Median Maintenance Policy <i>(Riverblood)</i>
November 2023	Draft Trail Maintenance Policy <i>(Riverblood)</i>
November 2023	Draft Stormwater Pond Maintenance Policy <i>(Westby)</i>
<b>Date</b>	<b>Topics for Discussion – Planning and Budget</b>
November 2023	Asset Management Programming Update <i>(Westby)</i>
October 2023	Replace City monument sign TH 47 & Bunker Lk Blvd. <i>(Riverblood)</i>
October 2023	Targeted Trail Gap Connection Planning <i>(Riverblood)</i>
<b>Date</b>	<b>Topics for Discussion – Staff Updates</b>
November 2023	Elk River Highway 10 Corridor Study <i>(Westby)</i>
Ongoing	Project Review Process Improvements <i>(Westby)</i>
Ongoing	Flashing Yellow Arrow Improvement Opportunities <i>(Westby)</i>
Ongoing	TH 47 Improvements, Bunker Lk Blvd to Hwy 10 <i>(Westby)</i>

\* Dates subject to change based on availability of information, required attendees, staff workload, and competing interests and objectives.