

CITY OF RAMSEY

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS

CITY IMPROVEMENT PROJECT NO. 23-18

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

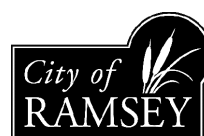
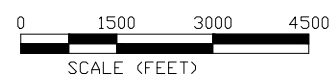
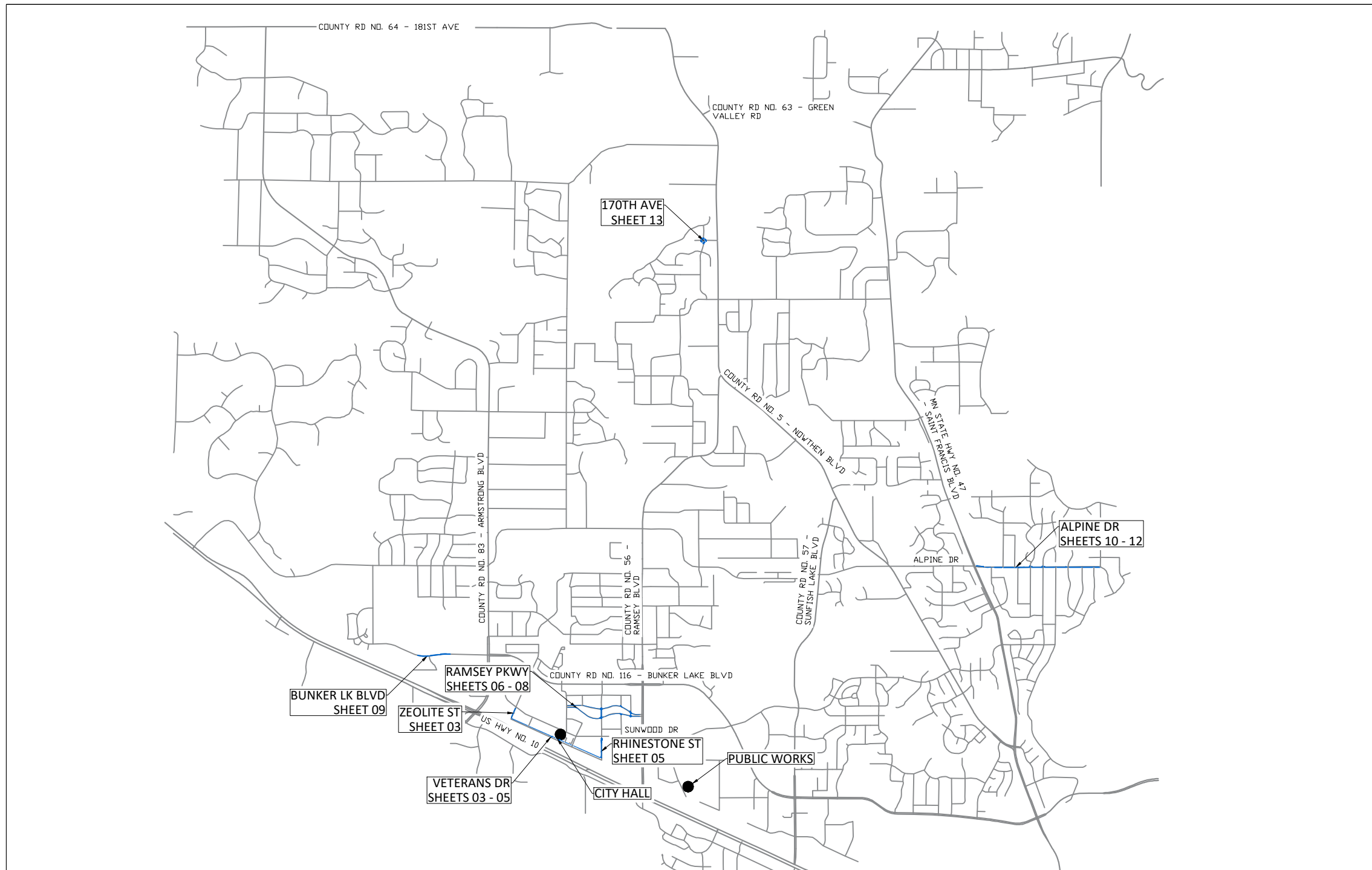
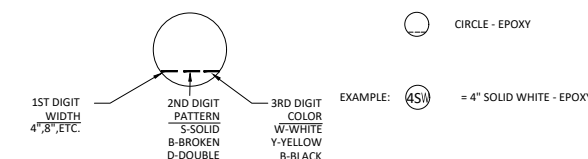
THIS PLAN CONTAINS 13 SHEETS

SHEET No.	DESCRIPTION
01	TITLE SHEET
02	STATEMENT OF ESTIMATED QUANTITIES
03	PAVEMENT MARKING ZEOLITE ST
03-05	PAVEMENT MARKING VETERANS DR
05	PAVEMENT MARKING RHINESTONE ST
06-08	PAVEMENT MARKING RAMSEY PKWY
09	PAVEMENT MARKING BUNKER LK BLVD
10-12	PAVEMENT MARKING ALPINE DR
13	PAVEMENT MARKING 170TH AVE

LEGEND

- PAVEMENT MARKING
- CROSSWALK MARKING
- STOP BAR MARKING
- TURN ARROW
- ONLY MARKING
- YIELD MARKING

STRIPING KEY & LEGEND



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

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 Ferjancsek
JOE FERJANCEK, P.E.
CIVIL ENGINEER II

57095 DATE 09/07/23
LIC. NO.

DATE	REVISION

23-18 2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS

STATEMENT OF ESTIMATED QUANTITIES

NOTE	ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
	1	2021.501	MOBILIZATION	LS	1
	2	2563.601	TRAFFIC CONTROL	LS	1
1	3	2582.502	4" DOUBLE SOLID LINE YELLOW (EPOXY)	LF	5,069
	4	2582.502	4" SOLID LINE YELLOW (EPOXY)	LF	733
	5	2582.502	4" SOLID LINE WHITE (EPOXY)	LF	18,830
	6	2582.502	4" BROKEN LINE YELLOW (EPOXY)	LF	900
	7	2582.502	24" SOLID LINE YELLOW (EPOXY)	LF	20
	8	2582.502	24" SOLID LINE WHITE (EPOXY)	LF	135
	9	2582.518	CROSSWALK MARKING (EPOXY)	SF	2,700
	10	2582.602	PAVT MSSG -TURN ARROWS (EPOXY)	EA	9
	11	2582.602	PAVT MSSG - ONLY (EPOXY)	EA	3
	12	2582.602	PAVT MSSG - YIELD (EPOXY)	EA	4

PAY ITEM NOTES:

1. 4" DOUBLE SOLID LINE SHALL BE SPACED 4" APART AS MEASURED AT THE INSIDE EDGES OF THE LINES.

PERMANENT PAVEMENT MARKING GENERAL NOTES AND GUIDELINES:

1. THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. THE CONTRACTOR WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. LONGITUDINAL JOINTS, PAVEMENT EDEGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

2. EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

3. TOLERANCE OF 1/4 INCH UNDER OR 1/4 OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO 1/2 FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

4. THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. THIS WORK SHALL BE INCIDENTAL TO PAVEMENT MARKING.

5. THE EPOXY MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE EPOXY RESIN LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

6. APPLY EPOXY MARKINGS WITH A MINIMUM THICKNESS OF 20 MILS, GLASS BEADS SHALL BE APPLIED AT A RATE OF AT LEAST 25 LB/GAL. THE "NO-TRACKING" CONDITION SHALL BE DETERMINED ON AN APPLICATION OF SPECIFIED THICKNESS TO THE PAVEMENT AND COVERED WITH GLASS BEADS AT THE RATE OF AT LEAST 25 LB/GAL.

7. OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROAD PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES OR GREATER.

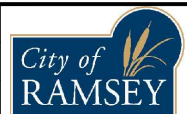
8. PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

DATE	REVISION

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Joe Feriancek
 JOE FERIANCEK
 Date 09/07/23 Lic. No. 57095

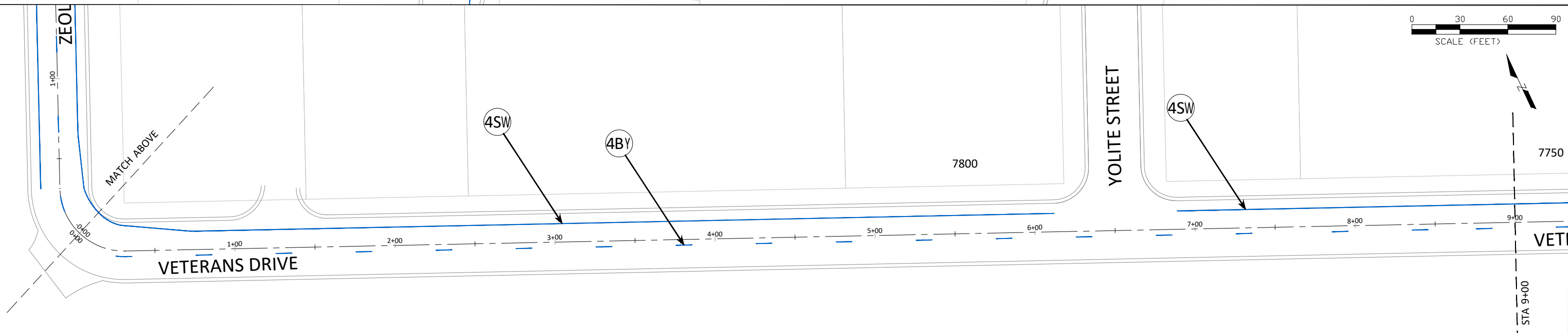
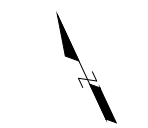
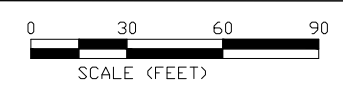
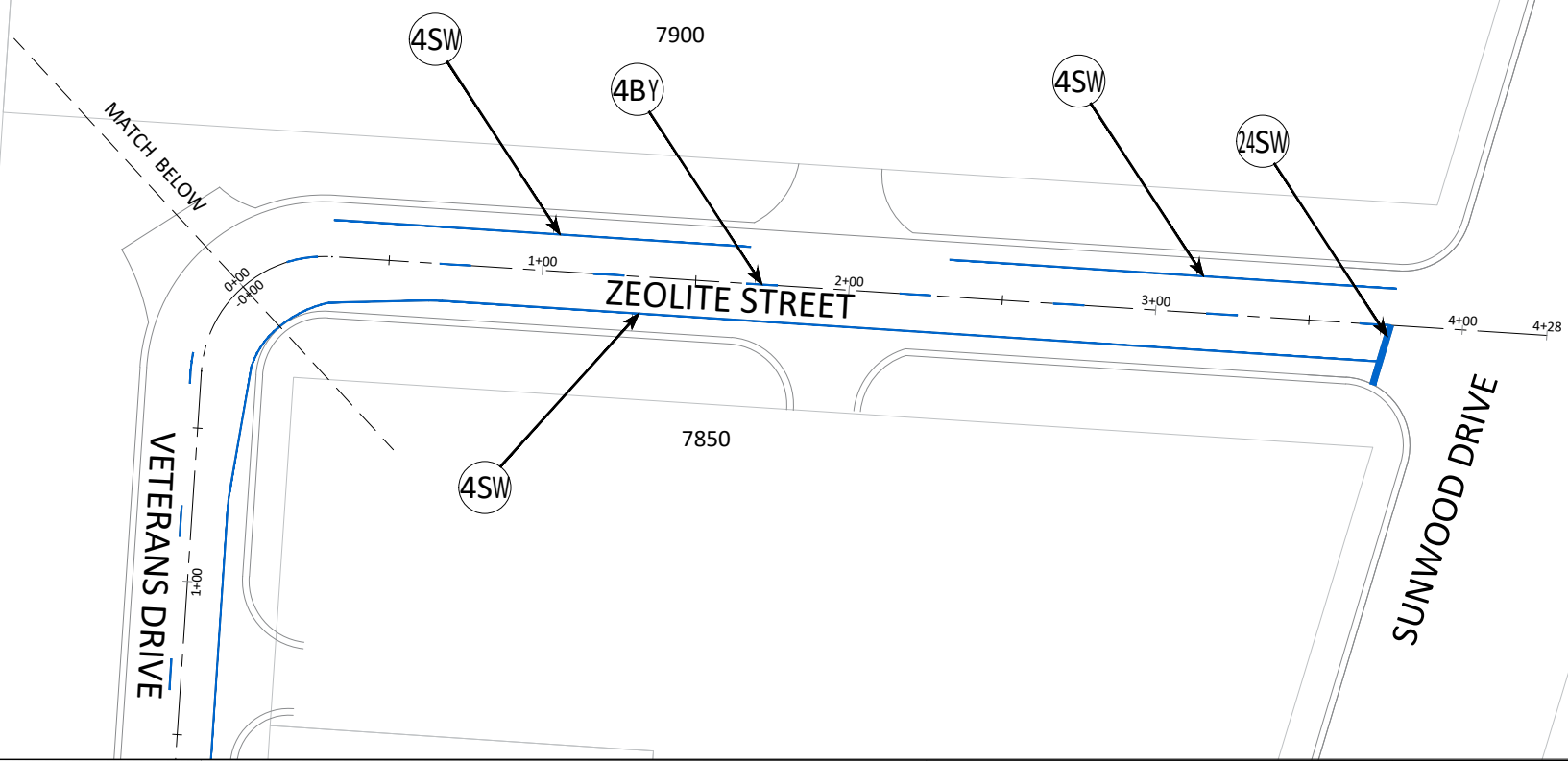
DESIGNED BY:	LWC	DATE:	09/07/23
DRAWN BY:	LWC	FILE:	23-18
CHECKED BY:	JJF		



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

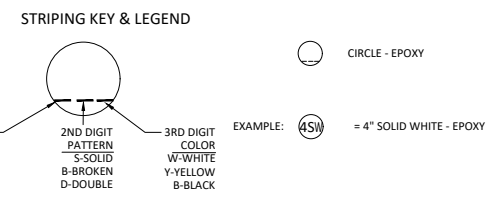
23-18 STATEMENT OF ESTIMATED QUANTITIES

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS
 CITY PROJECT NO. 23-18
 CITY OF RAMSEY, MINNESOTA



LEGEND

- PAVEMENT MARKING
- CROSSWALK MARKING
- STOP BAR MARKING
- TURN ARROW



DATE	REVISION

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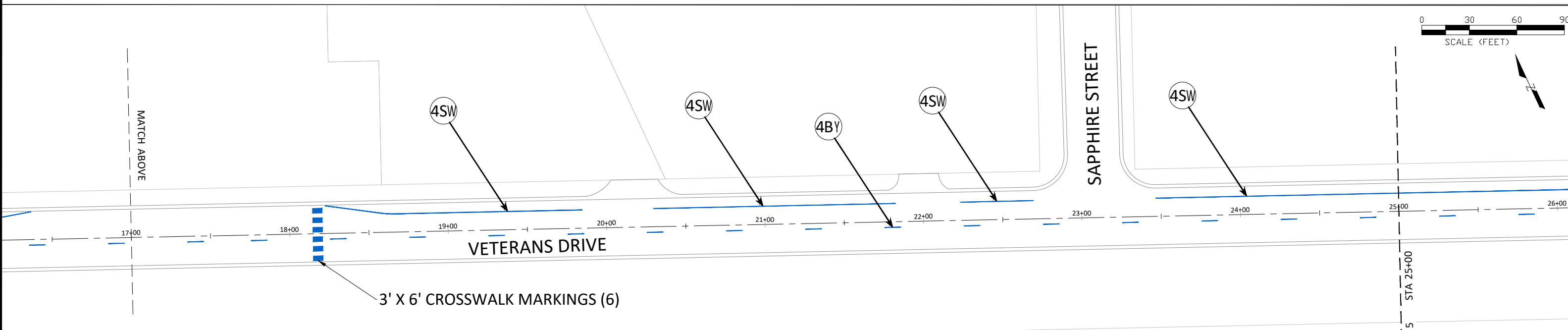
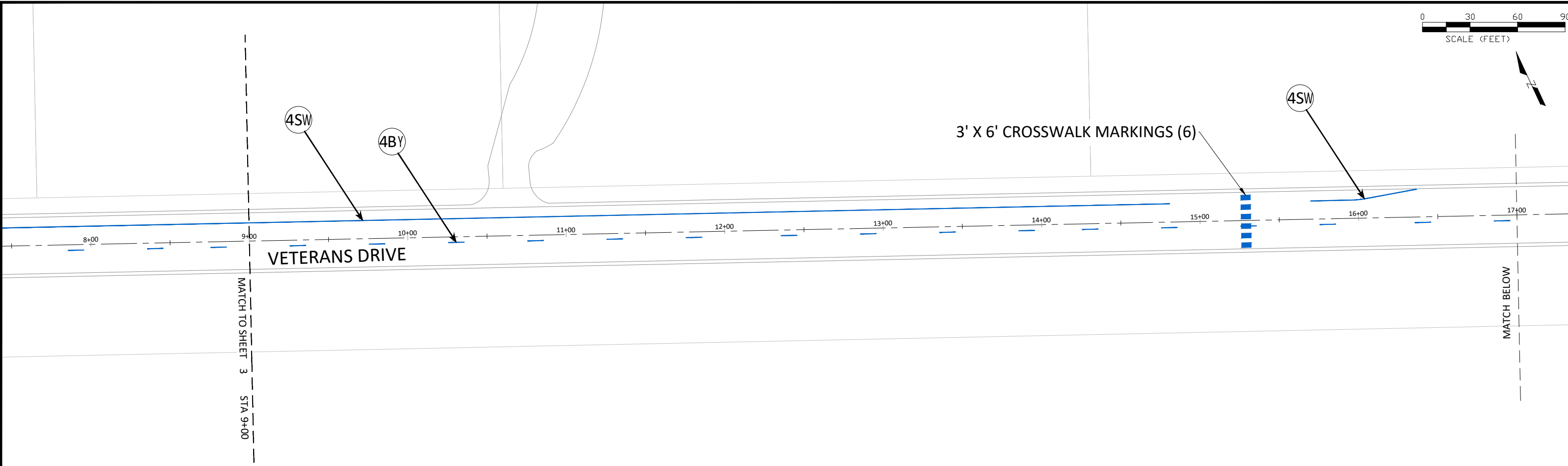
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23-18 - PAVEMENT MARKING ZEOLITE ST -
 VETERANS DR

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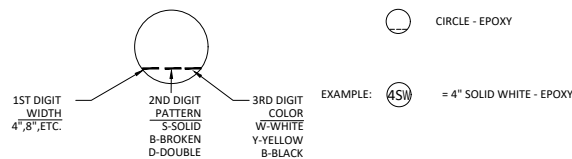
MATCH TO SHEET 4 STA 9+00



LEGEND

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STRIPING KEY & LEGEND



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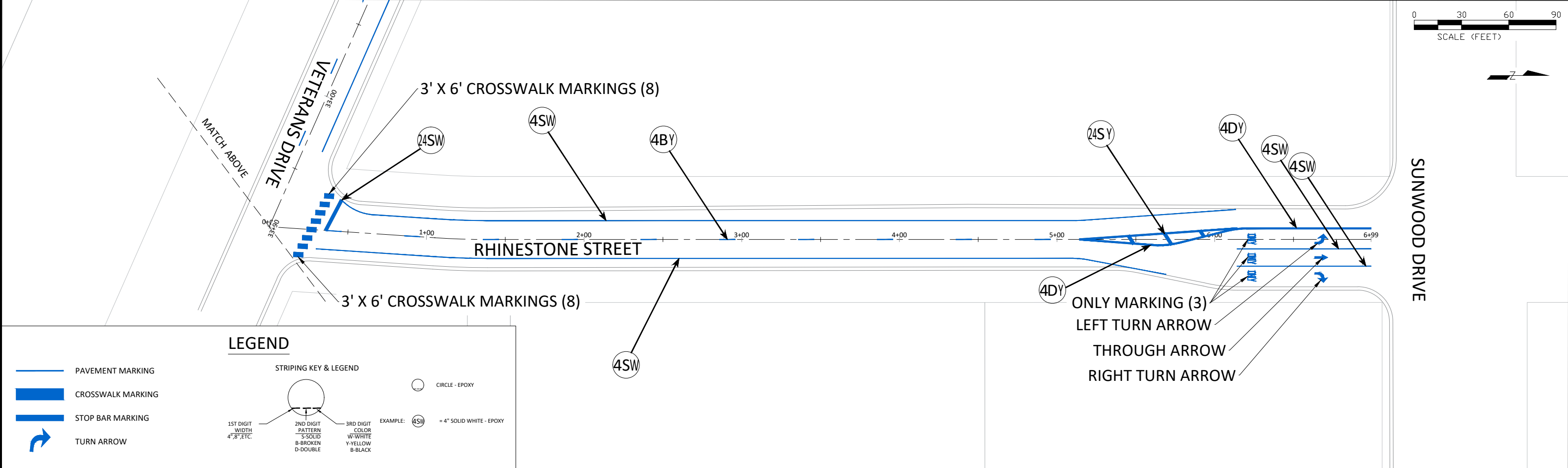
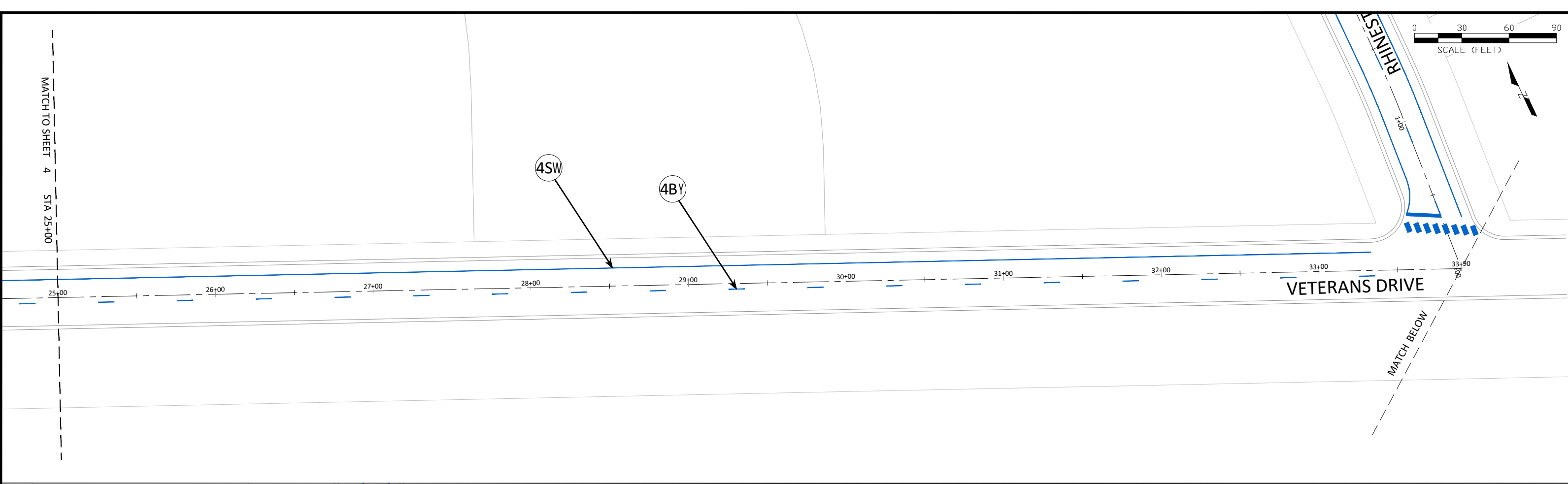
Joe Feriancek
 JOE FERIANCEK
 Date 09/07/23 Lic. No. 57095

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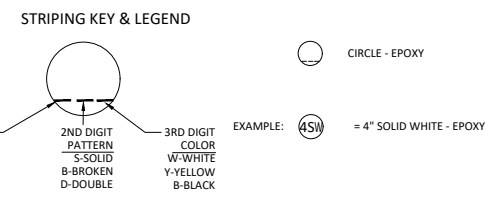
23-18 - PAVEMENT MARKING VETERANS DR

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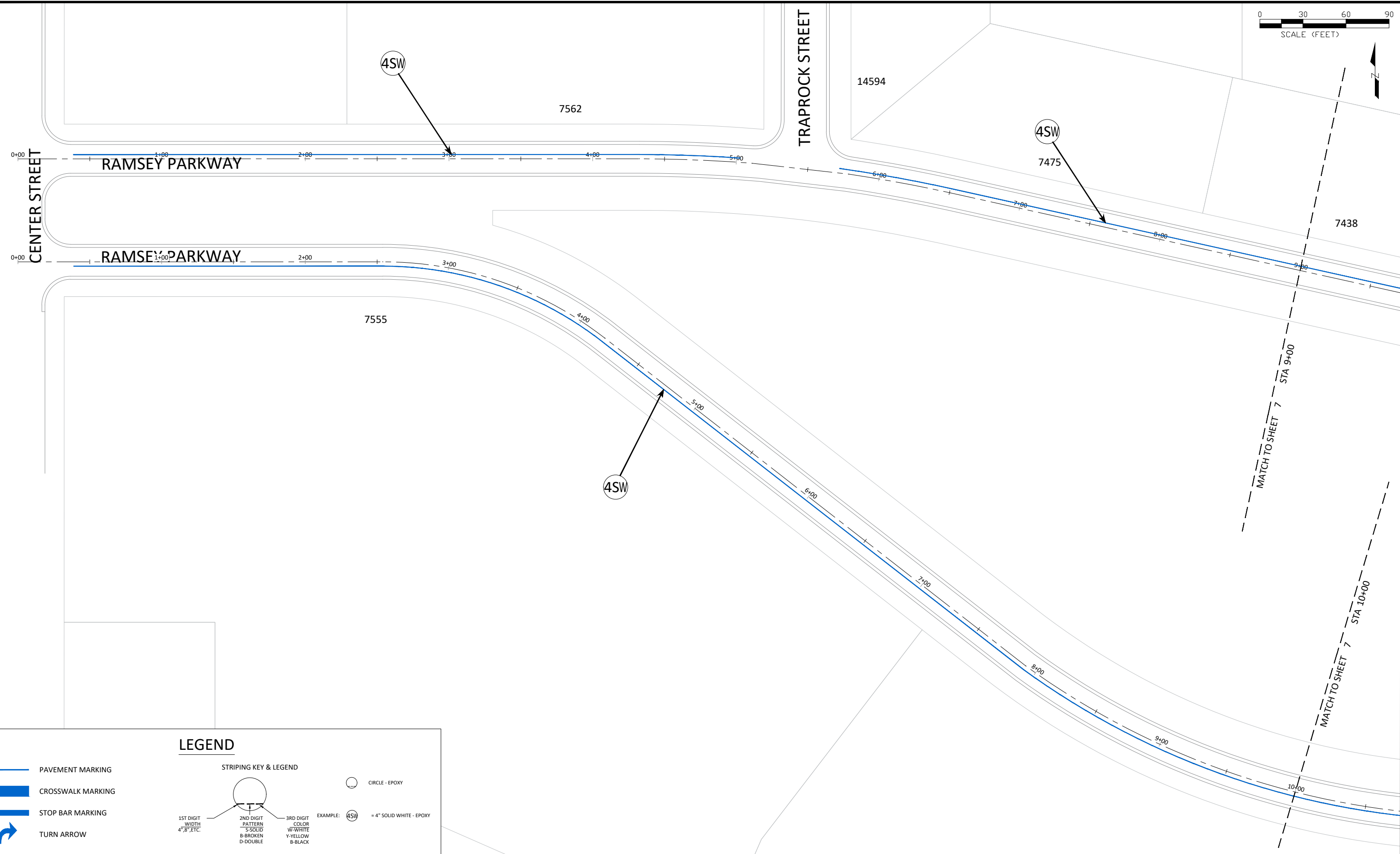
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23-18 - PAVEMENT MARKING VETERANS DR - RHINESTONE ST

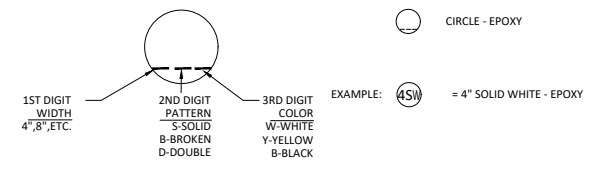
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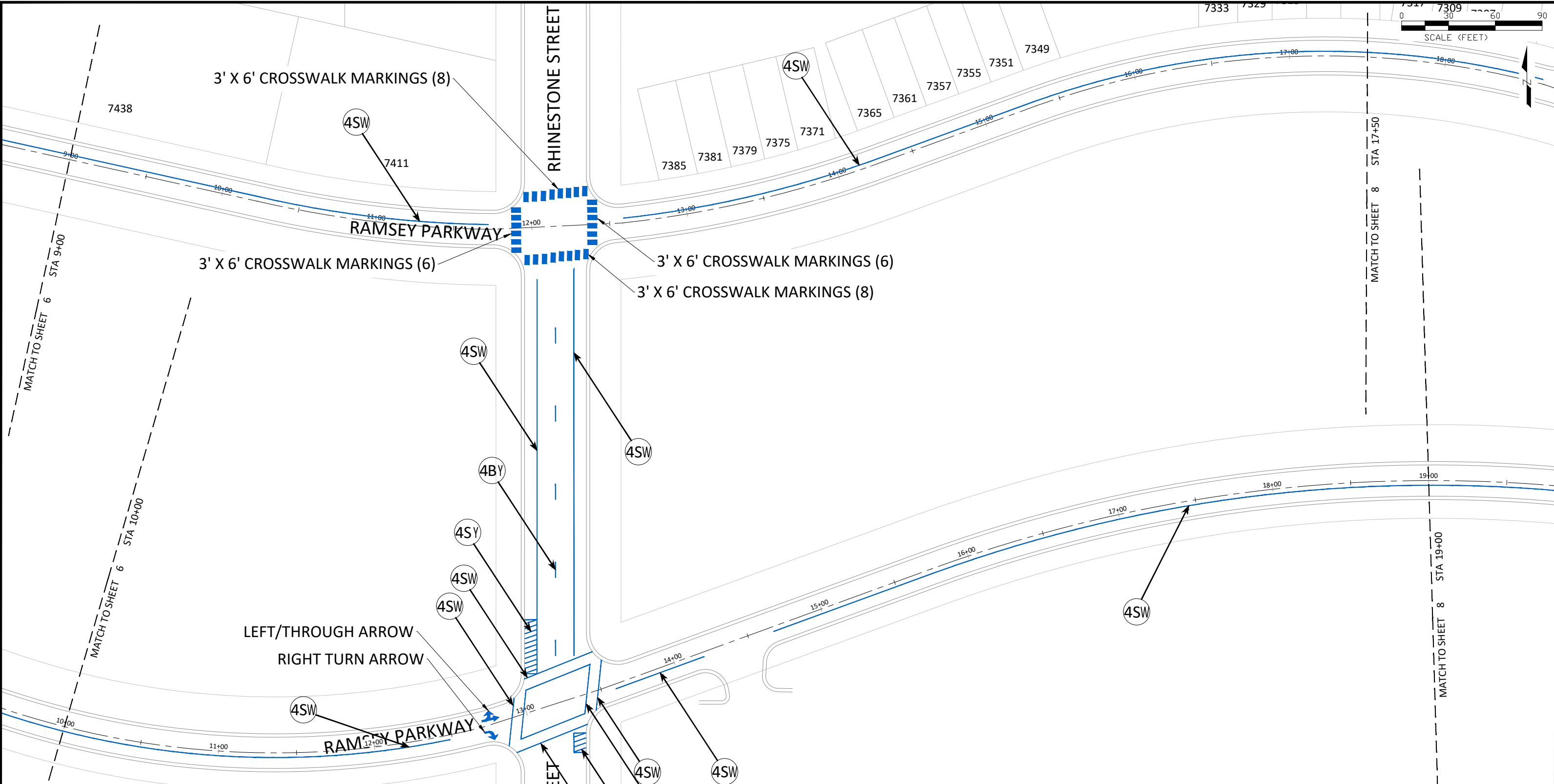
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23-18 - PAVEMENT MARKING RAMSEY PARKWAY

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS
 CITY PROJECT NO. 23-18
 CITY OF RAMSEY, MINNESOTA



LEGEND

PAVEMENT MARKING
 CROSSWALK MARKING
 STOP BAR MARKING
 TURN ARROW

STRIPING KEY & LEGEND

1ST DIGIT - WIDTH 4", 8", ETC.
 2ND DIGIT - PATTERN S-SOLID B-BROKEN D-DOUBLE
 3RD DIGIT - COLOR W-WHITE Y-YELLOW B-BLACK

CIRCLE - EPOXY

EXAMPLE: 4SW = 4" SOLID WHITE - EPOXY

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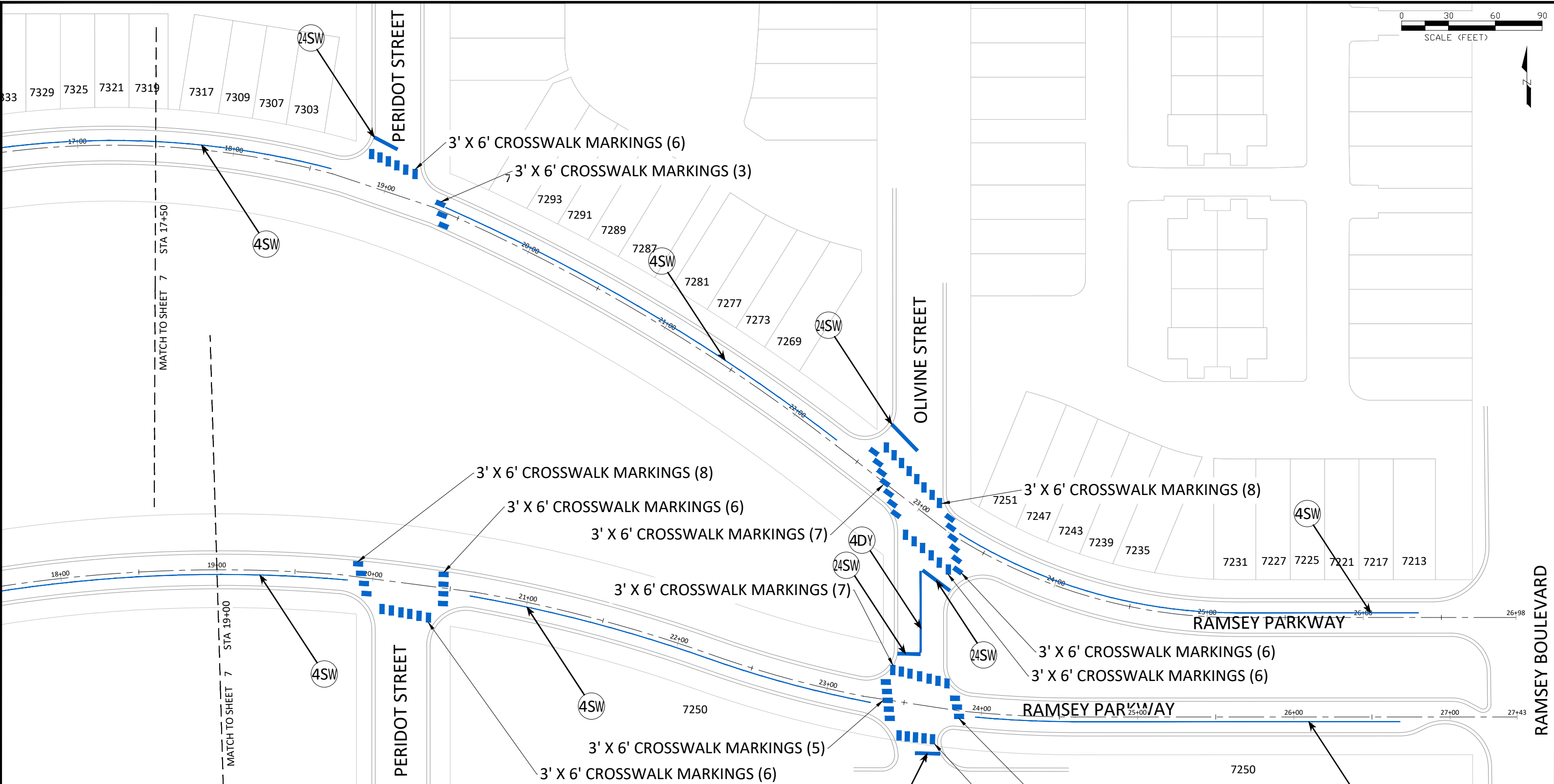
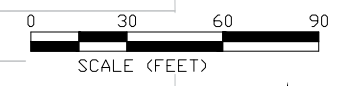
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 DRAWN BY: LWC DATE: 09/07/23
 CHECKED BY: JIF FILE: 23-18

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23-18 - PAVEMENT MARKING RAMSEY PARKWAY

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 CITY PROJECT NO. 23-18
 CITY OF RAMSEY, MINNESOTA



LEGEND

PAVEMENT MARKING
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STRIPING KEY & LEGEND

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S-SOLID B-BROKEN D-DOUBLE	3RD DIGIT COLOR W-WHITE Y-YELLOW B-BLACK	EXAMPLE: 4SW = 4" SOLID WHITE - EPOXY	CIRCLE - EPOXY
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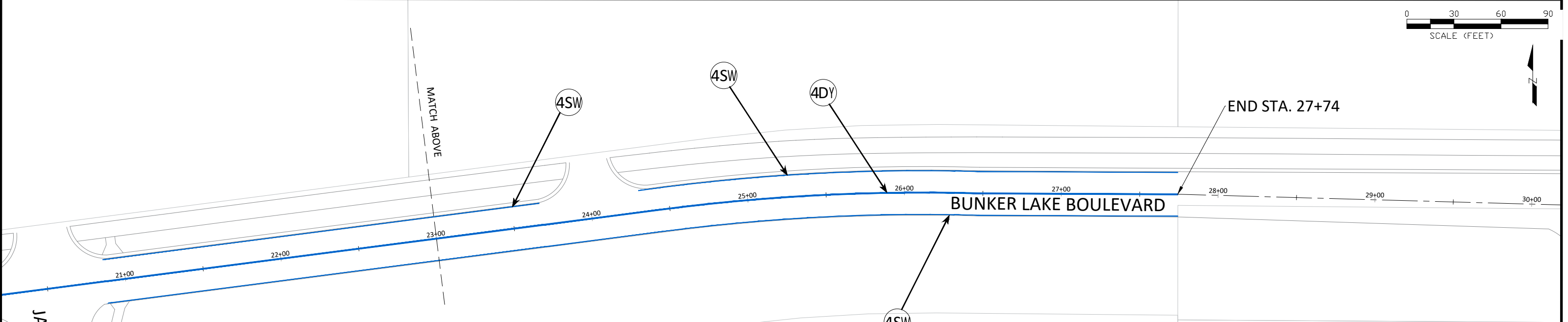
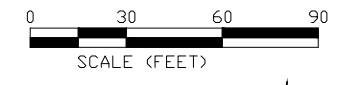
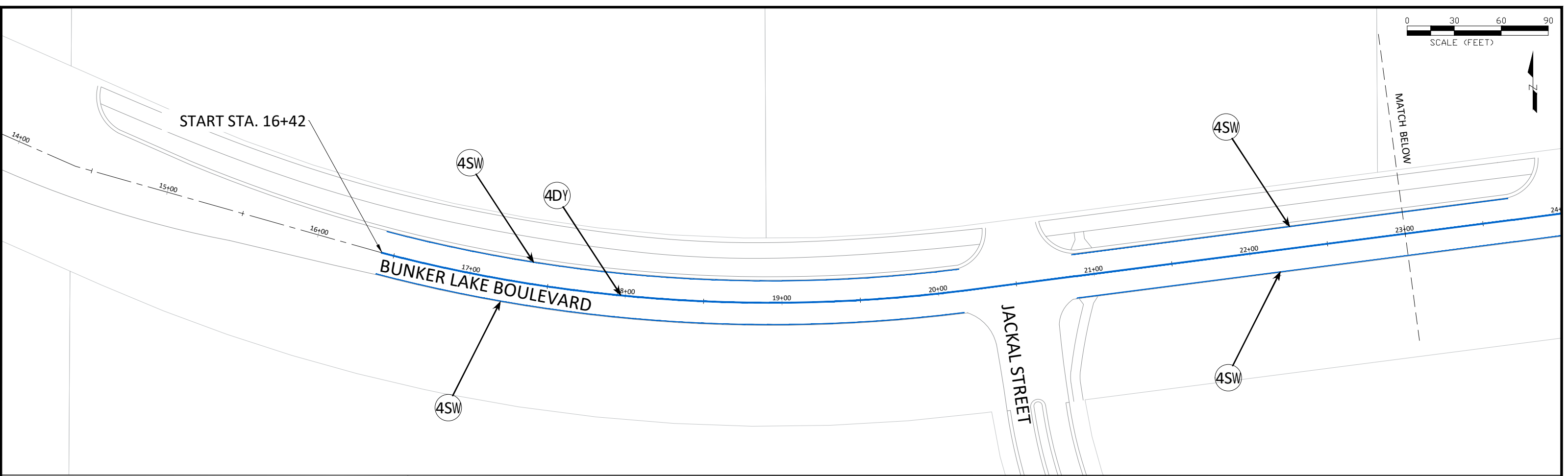
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23-18 - PAVEMENT MARKING RAMSEY PARKWAY

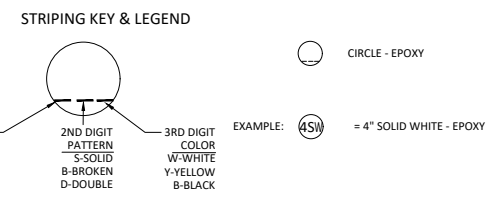
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SHEET 08 OF 13 SHEETS



LEGEND

- PAVEMENT MARKING
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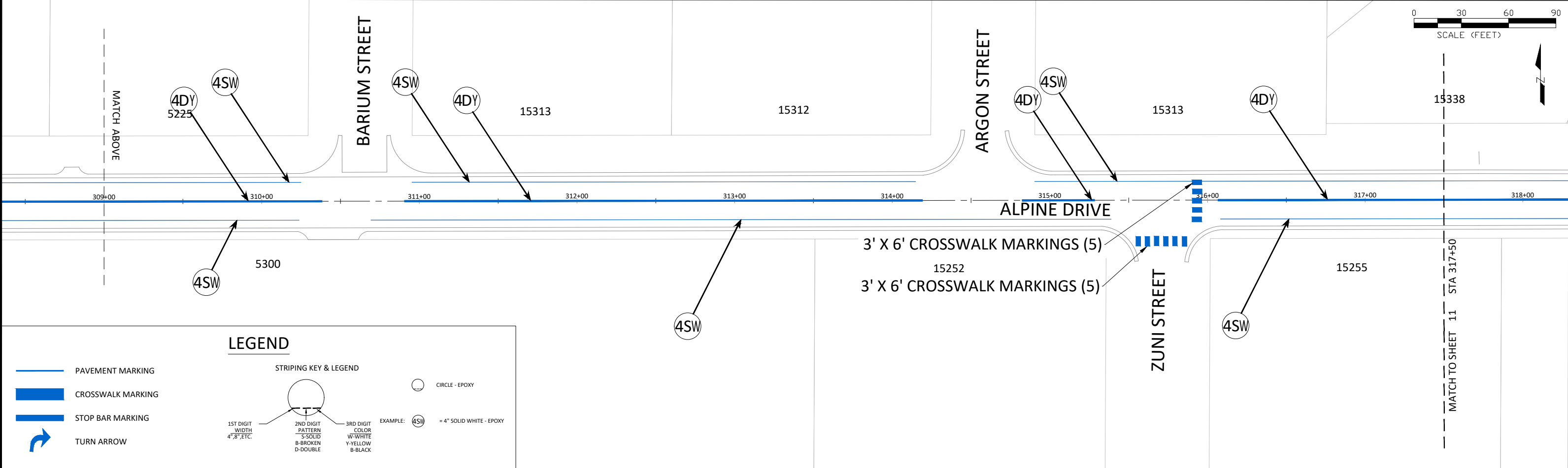
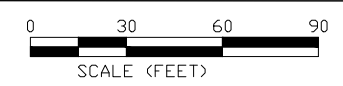
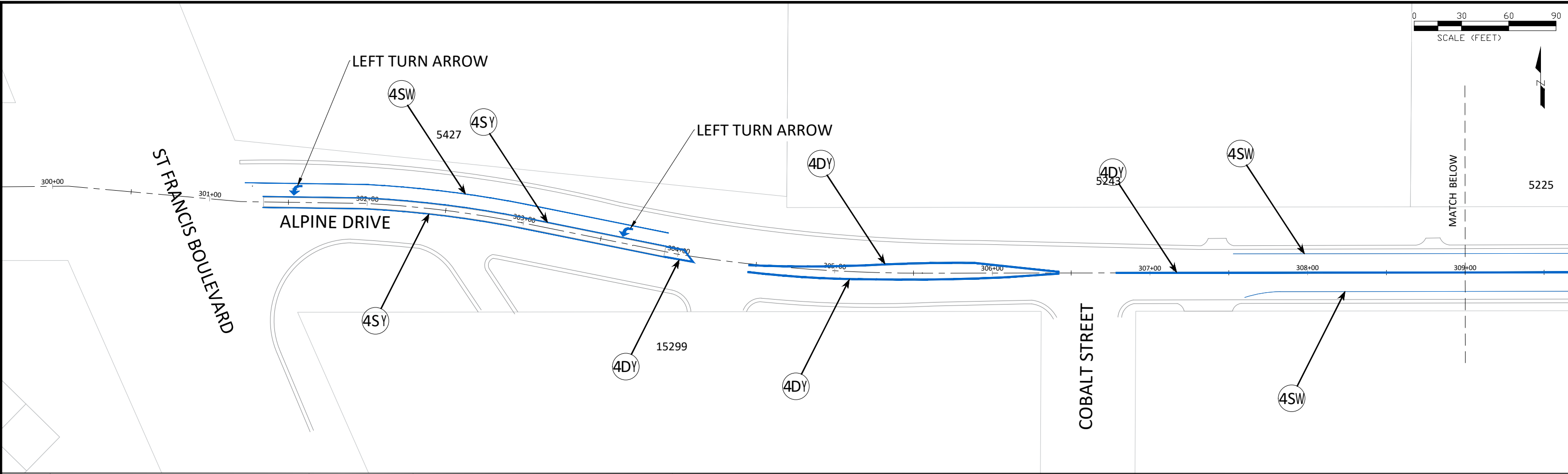
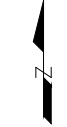
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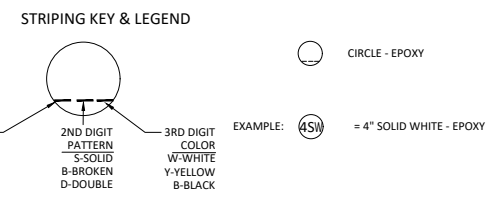
23-18 - PAVEMENT MARKING BUNKER LK BLVD

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS
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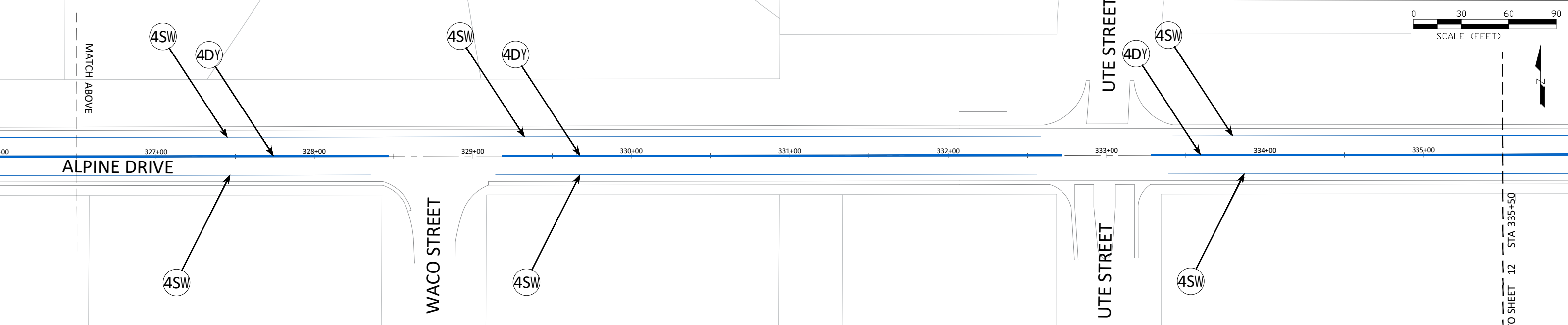
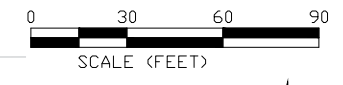
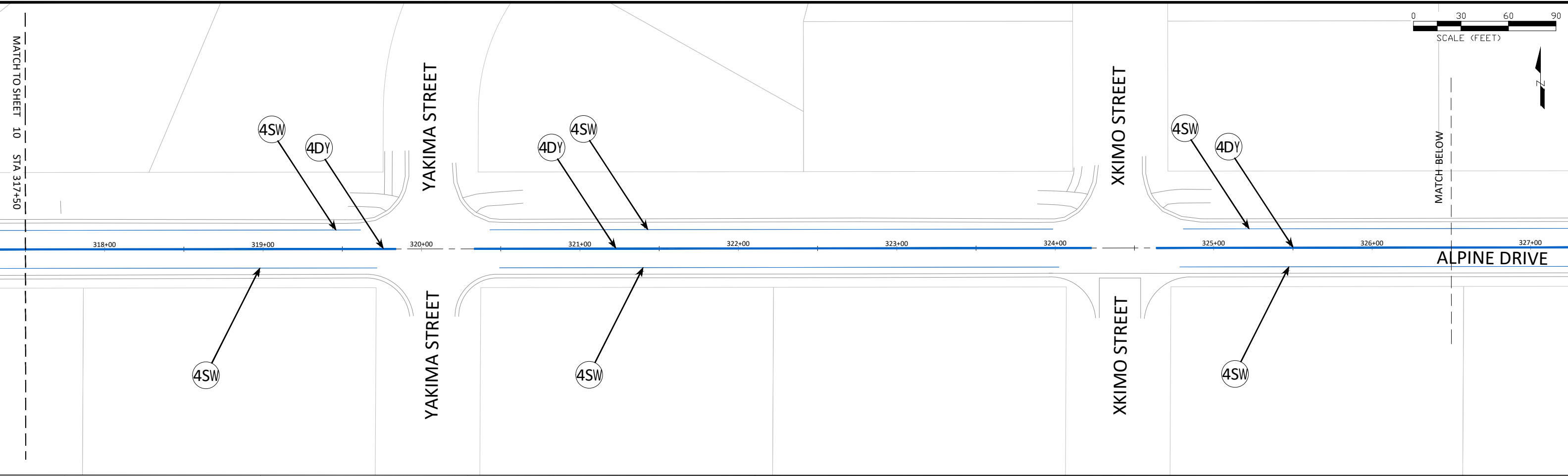
Joe Feriancek
 JOE FERIANCEK
 Date 09/07/23 Lic. No. 57095

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23-18 - PAVEMENT MARKING ALPINE DR

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS
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 CITY OF RAMSEY, MINNESOTA



LEGEND

PAVEMENT MARKING (Blue line)

CROSSWALK MARKING (Blue rectangle)

STOP BAR MARKING (Blue rectangle with white bar)

TURN ARROW (Blue arrow)

STRIPING KEY & LEGEND

CIRCLE - EPOXY

EXAMPLE: 4SW = 4" SOLID WHITE - EPOXY

1ST DIGIT - WIDTH 4", 8", ETC.

2ND DIGIT - PATTERN S-SOLID B-BROKEN D-DOUBLE

3RD DIGIT - COLOR W-WHITE Y-YELLOW B-BLACK

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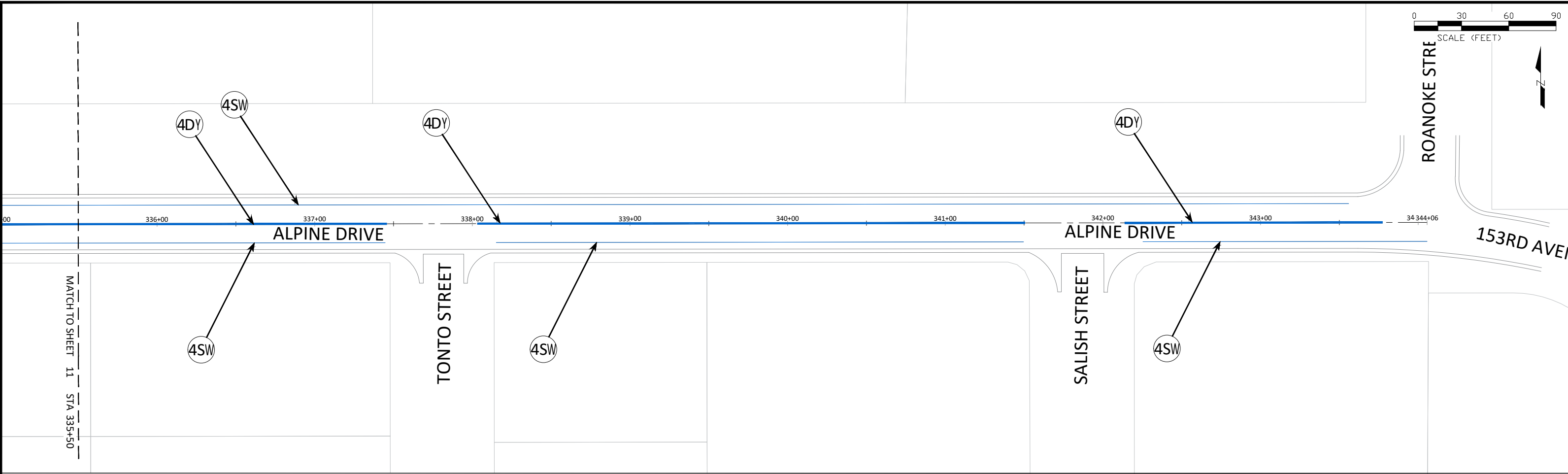
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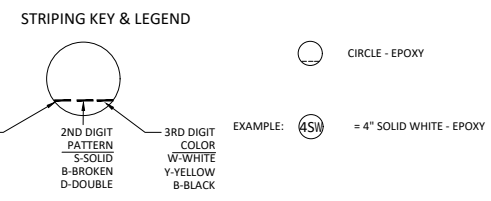
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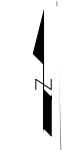
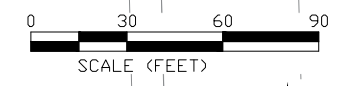
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DRAWN BY:	LWC
CHECKED BY:	JJF

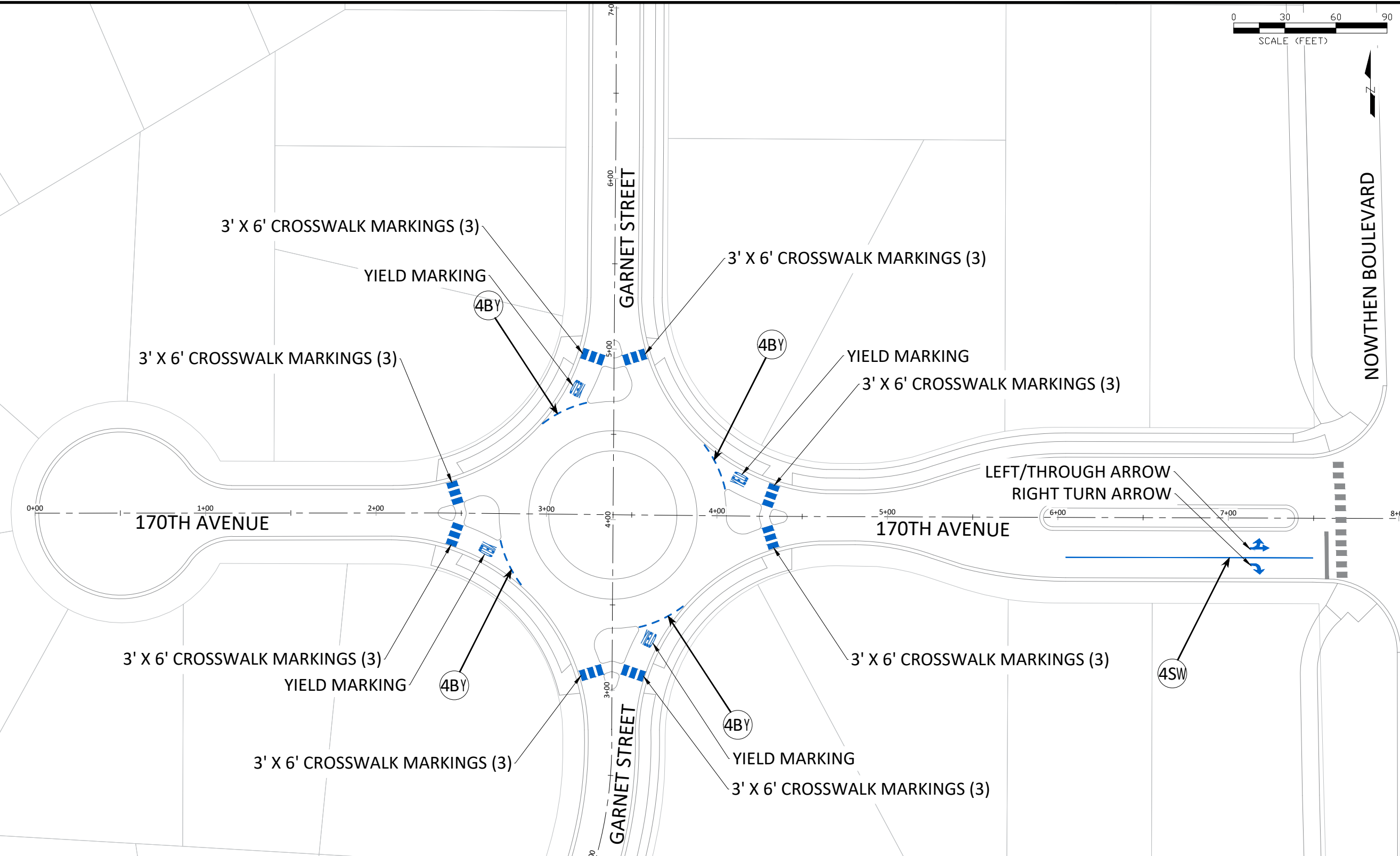
CITY OF RAMSEY
 7550 SUNWOOD DRIVE
 RAMSEY, MN 55303
 (763) 427-1410 FAX (763) 433-9898

23-18 - PAVEMENT MARKING ALPINE DR

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS
 CITY PROJECT NO. 23-18
 CITY OF RAMSEY, MINNESOTA



NOWTHEN BOULEVARD



LEGEND

- PAVEMENT MARKING
- CROSSWALK MARKING
- STOP BAR MARKING
- TURN ARROW

STRIPING KEY & LEGEND

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S-SOLID B-BROKEN D-DOUBLE	3RD DIGIT COLOR W-WHITE Y-YELLOW B-BLACK	EXAMPLE: = 4" SOLID WHITE - EPOXY	CIRCLE - EPOXY
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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
 JOE FERIANCEK
 Date 09/07/23 Lic. No. 57095

DESIGNED BY:	LWC	DATE:	09/07/23
DRAWN BY:	LWC	FILE:	23-18
CHECKED BY:	JJF		

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

23-18 - PAVEMENT MARKING 170TH AVE

2023 ADDITIONAL PAVEMENT MARKING IMPROVEMENTS
 CITY PROJECT NO. 23-18
 CITY OF RAMSEY, MINNESOTA