



Stantec Consulting Services Inc.
733 Marquette Avenue Suite 1000, Minneapolis MN 55402-2309

February 2, 2022

Attention: Dan Buchholtz, Administrator

City of Spring Lake Park
1308 81st Avenue NE
Spring Lake Park, MN 55432

Reference: Sign Cover Sheet for Trail Project on County Road 10

Dear Dan,

This letter is a follow-up from our meeting last November with City of Mounds View Staff. Mounds View has requested that Spring Lake Park participate in their 2022-2023 street project by including a segment of trail along the south side of County Road 10 (Mounds View Boulevard) from the city limits westward to Spring Lake Road.

Mounds View has prepared construction plans for the project and would like to submit them to MnDOT for approval. Since a portion of the project is in the Spring Lake Park City limits, the cover sheet of the plans needs to include a signature from the Spring Lake Park City Engineer.

I am requesting authorization to sign the cover sheet so that Mounds View can submit the plans to MnDOT for approval. Authorization should only include direction to sign the cover sheet and specifically should not include final approval or commitment from the city to participate in the project.

Mounds View has prepared a preliminary cost estimate for the project (copy attached). The estimated construction cost for Spring Lake Park at this time is \$104,641.21. A City of Spring Lake Park Municipal State Aid number has been assigned for our portion of the trail work (183-020-009). State Aid funds can be used for the city's eligible portion of the project.

I know that you are working with the Mounds View City Administrator to see if the Spring Lake Park portion can be somehow reduced. I assume that a formal agreement on cost sharing will be executed before a contract award is made.

Attached are selected plan sheets from the project and a current estimate of construction costs as recently provided by Mounds View.

Please feel free to contact me if you have any questions or require any additional information.

Regards,
STANTEC

A handwritten signature in black ink that reads "Phil Gravel".

Phil Gravel

Attachment: Mounds View project plan sheets and cost table

NO.	MATERIAL NUMBER	ITEM	UNIT	UNIT PRICE	TOTAL PROJECT		SAP 146-244-001 - NORTH				SAP 146-244-001 - SOUTH				LOCAL ROAD (NON-PARTICIPATING)		SAP 146-020-013 TRAIL (MOUNDS VIEW)		SAP 183-020-009 TRAIL (SPRING LAKE)	
							ROADWAY		STORM		ROADWAY		STORM							
					QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
79	2504.603	6" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$ 40.00	60	\$ 2,400.00									60	\$ 2,400.00				
80	2504.604	4" POLYSTYRENE INSULATION	SQ YD	\$ 40.00	50	\$ 2,000.00			50	\$ 2,000.00										
81	2504.608	DUCTILE IRON FITTINGS	POUND	\$ 10.00	1,261	\$ 12,610.00			476	\$ 4,760.00			643	\$ 6,430.00	142	\$ 1,420.00				
82	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 1	EACH	\$ 2,800.00	24	\$ 67,200.00			8	\$ 22,400.00			13	\$ 36,400.00	3	\$ 8,400.00				
83	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 2	EACH	\$ 1,800.00	3	\$ 5,400.00			2	\$ 3,600.00			1	\$ 1,800.00						
84	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH	\$ 3,500.00	15	\$ 52,500.00			8	\$ 28,000.00			4	\$ 14,000.00	3	\$ 10,500.00				
85	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	\$ 5,500.00	8	\$ 44,000.00			6	\$ 33,000.00			2	\$ 11,000.00						
86	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	EACH	\$ 7,000.00	2	\$ 14,000.00			1	\$ 7,000.00			1	\$ 7,000.00						
87	2506.502	CASTING ASSEMBLY	EACH	\$ 750.00	2	\$ 1,500.00	2	\$ 1,500.00												
88	2506.502	ADJUST FRAME AND RING CASTING	EACH	\$ 750.00	54	\$ 40,500.00			12	\$ 9,000.00			25	\$ 18,750.00	17	\$ 12,750.00	2	\$ 1,500.00	4	\$ 3,000.00
89	2506.503	RECONSTRUCT DRAINAGE STRUCTURE	LIN FT	\$ 750.00	20	\$ 15,000.00			10	\$ 7,500.00			10	\$ 7,500.00						
90	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	\$ 1,200.00	1	\$ 1,200.00							1	\$ 1,200.00						
91	2506.602	CONNECT TO EXISTING STRUCTURE	EACH	\$ 1,500.00	10	\$ 15,000.00			5	\$ 7,500.00					5	\$ 7,500.00				
92	2511.507	RANDOM RIPRAP CLASS III	CU YD	\$ 120.00	12	\$ 1,440.00			4	\$ 480.00				\$ 960.00						
93	2521.518	4" CONCRETE WALK SPECIAL	SQ FT	\$ 7.00	1191	\$ 8,337.00					1191	\$ 8,337.00								
94	2521.518	6" CONCRETE WALK	SQ FT	\$ 10.00	2933	\$ 29,326.50	876	\$ 8,757.00			1164	\$ 11,644.50			893	\$ 8,925.00	453	\$ 4,530.00	303	\$ 3,030.00
95	2531.503	CONCRETE CURB AND GUTTER DESIGN B618	LIN FT	\$ 20.00	20941	\$ 418,820.00	6917	\$ 138,340.00			7951	\$ 159,020.00			6073	\$ 121,460.00	90	\$ 1,800.00	50	\$ 1,000.00
96	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$ 80.00	2329	\$ 186,293.33	734	\$ 58,711.11			752	\$ 60,124.44			843	\$ 67,457.78				
97	2531.604	7" CONCRETE VALLEY GUTTER	SQ YD	\$ 100.00	197	\$ 19,700.00	147	\$ 14,700.00							50	\$ 5,000.00				
98	2531.618	TRUNCATED DOMES	SQ FT	\$ 65.00	480	\$ 31,200.00	134	\$ 8,710.00			191	\$ 12,415.00			155	\$ 10,075.00	80	\$ 5,200.00	50	\$ 3,250.00
99	2540.602	MAIL BOX SUPPORT	EACH	\$ 200.00	60	\$ 12,000.00	20	\$ 4,000.00			19	\$ 3,800.00			21	\$ 4,200.00				
100	2545.501	LIGHTING SYSTEM	LUMP SUM	\$ 200,000.00	1.00	\$ 200,000.00									1.00	\$ 200,000.00	0.70	\$ 140,000.00	0.30	\$ 60,000.00
101	2557.503	WIRE FENCE DESIGN SPECIAL VINYL COATED	LIN FT	\$ 145.00	475.00	\$ 68,875.00					475.00	\$ 68,875.00								
102	2557.503	WIRE FENCE DESIGN 48-9322	LIN FT	\$ 45.00	50	\$ 2,250.00	50	\$ 2,250.00												
103	2563.601	TRAFFIC CONTROL	LUMP SUM	\$ 35,000.00	1.00	\$ 35,000.00	0.24	\$ 8,400.00	0.11	\$ 3,850.00	0.35	\$ 12,250.00		\$ 1,400.00	0.26	\$ 9,100.00	0.02	\$ 700.00	0.01	\$ 350.00
104	2564.502	INSTALL SIGN TYPE C	EACH	\$ 150.00	33.00	\$ 4,950.00	12.00	\$ 1,800.00			21.00	\$ 3,150.00								
105	2564.518	SIGN PANELS TYPE C	SQ FT	\$ 66.00	70	\$ 4,620.00	48	\$ 3,168.00			12	\$ 792.00			10	\$ 660.00	5	\$ 330.00	5	\$ 330.00
106	2573.502	STORM DRAIN INLET PROTECTION	EACH	\$ 275.00	77	\$ 21,175.00			27	\$ 7,425.00				\$ 10,175.00	13	\$ 3,575.00				
107	2573.502	CULVERT END CONTROLS	EACH	\$ 200.00	6	\$ 1,200.00			3	\$ 600.00				\$ 600.00						
108	2573.503	SILT FENCE; TYPE MS	LIN FT	\$ 2.50	6169	\$ 15,422.50	682	\$ 1,705.00			2794	\$ 6,985.00			2693	\$ 6,732.50	1400	\$ 3,500.00	600	\$ 1,500.00
109	2573.602	STABILIZED CONSTRUCTION EXIT	EACH	\$ 20,000.00	7	\$ 140,000.00	2	\$ 40,000.00			4	\$ 80,000.00			1	\$ 20,000.00				
110	2574.507	COMMON TOPSOIL BORROW	CU YD	\$ 37.00	2007	\$ 74,259.00	625	\$ 23,125.00			692	\$ 25,604.00			690	\$ 25,530.00	230	\$ 8,521.10	99	\$ 3,651.90
111	2574.508	FERTILIZER TYPE 3	POUND	\$ 0.75	1140	\$ 855.00	349	\$ 261.75			407	\$ 305.25			384	\$ 288.00	128	\$ 96.08	55	\$ 41.18
112	2575.504	SODDING TYPE LAWN	SQ YD	\$ 11.00	570	\$ 6,270.00	450	\$ 4,950.00			120	\$ 1,320.00								
113	2575.505	SEEDING	ACRE	\$ 1,500.00	1.28	\$ 1,923.90	0.67	\$ 1,006.54			0.61	\$ 917.36								
114	2575.508	SEED MIXTURE 25-151	POUND	\$ 5.50	447	\$ 2,458.50	139	\$ 764.50			154	\$ 847.00			154	\$ 847.00	51	\$ 281.05	22	\$ 120.45
115	2575.508	SEED MIXTURE 33-262	POUND	\$ 10.00	2	\$ 20.20					2	\$ 20.20								
116	2575.508	SEED MIXTURE 35-241	POUND	\$ 20.00	1	\$ 16.76					1	\$ 16.76								
117	2575.508	HYDRAULIC BONDED FIBER MATRIX	POUND	\$ 2.00	7600	\$ 15,200.18	2324	\$ 4,647.38			2711	\$ 5,422.41			2565	\$ 5,130.39	856	\$ 1,712.40	367	\$ 733.88
118	2575.602	SITE RESTORATION	EACH	\$ 12,500.00	1.00	\$ 12,500.00	0.50	\$ 6,250.00			0.50	\$ 6,250.00								
119	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	\$ 1.00	8000	\$ 8,000.00	4000	\$ 4,000.00			4000	\$ 4,000.00								
120	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	\$ 2.00	16000	\$ 32,000.00	8000	\$ 16,000.00			8000	\$ 16,000.00								
121	2582.518	CROSSWALK MULTI-COMPONENT	SQ FT	\$ 2.50	750	\$ 1,875.00	250	\$ 625.00			250	\$ 625.00			250	\$ 625.00	250	\$ 625.00		
SUBTOTAL						\$ 4,266,889.75		\$ 963,863.04		\$ 462,043.61		\$ 1,421,964.00		\$ 165,439.04		\$ 1,253,380.06		\$ 226,209.99		\$ 104,641.21
CONTINGENCY (%)						\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TOTAL ESTIMATED CONSTRUCTION COST						\$ 4,266,889.75		\$ 963,863.04		\$ 462,043.61		\$ 1,421,964.00		\$ 165,439.04		\$ 1,253,380.06		\$ 226,209.99		\$ 104,641.21

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERROR OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. NO USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS FORBIDDEN.

CITY OF MOUNDS VIEW
RAMSEY COUNTY, MINNESOTA
2022-2023 STREET REHABILITATION PROJECT
2021-CO3 AREAS J AND K
PROJECT NUMBER: 193805303

CONSTRUCTION PLAN FOR: RECLAIM PAVEMENT, AGGREGATE BASE, CONCRETE CURB AND GUTTER, BITUMINOUS PAVEMENT,
GRADING, STORM SEWER, TRAIL CONSTRUCTION AND ADA IMPROVEMENTS.

SAP 146-244-001 LOCATED ON	SPRING LAKE ROAD (MSAS 244)	FROM	COUNTY ROAD H2	TO	WEST COUNTY ROAD J
SAP 146-020-013 LOCATED ON	MOUNDS VIEW BLVD (CSAH 10)	FROM	SPRING LAKE RD (MSAS 244)	TO	400 SOUTHEAST OF GROVELAND RD
SAP 183-020-009 LOCATED ON	MOUNDS VIEW BLVD (CSAH 10)	FROM	SPRING LAKE RD (MSAS 244)	TO	EAST CITY LIMITS OF SPRING LAKE RD
	PLEASANT VIEW DRIVE	FROM	HIGHWAY 10 SERVICE ROAD	TO	100 FEET NORTH OF 84TH AVE NE
	PLEASANT VIEW CT	FROM	PLEASANT VIEW DRIVE	TO	TERMINUS (500 FEET)
	84TH AVE NE	FROM	PLEASANT VIEW DRIVE	TO	SPRING LAKE ROAD

DESIGN DESIGNATION SPRING LAKE ROAD (SAP 146-244-001)	
DESIGNATION	URBAN
FUNCTIONAL CLASS	LOCAL
NO. OF TRAFFIC LANES	2
NO. OF PARKING LANES	N/A
DRIVING LANE WIDTH	13 FT
SHOULDER WIDTH	N/A
R-VALUE	60
20 YEAR ESALS	100,000
SPRING LAKE RD (N) ADT (PRESENT YEAR) 2022	920
SPRING LAKE RD (S) ADT (PRESENT YEAR) 2022	320
SPRING LAKE RD (N) ADT (FUTURE YEAR) 2042	1120
SPRING LAKE RD (S) ADT (FUTURE YEAR) 2042	390
HCA DT (FUTURE YEAR) 2040	N/A
DESIGN SPEED	30 MPH
DESIGN LOAD	9 TON

DESIGN SPEED BASED ON
STOPPING SIGHT DISTANCE:
HEIGHT OF EYE = 3.5 FT
HEIGHT OF OBJECT = 2.0 FT
DESIGN SPEED NOT ACHIEVED AT:
SPRING LAKE ROAD STA.
38+82.21 TO 40+16.24

SAP 146-244-001 SPRING LAKE
ROAD (MSAS 244)

GROSS LENGTH	8731.15	FEET	1.654	MILES
BRIDGE LENGTH	0.00	FEET	0.000	MILES
EXCEPTION LENGTH	1258.13	FEET	0.238	MILES
NET LENGTH	7473.02	FEET	1.415	MILES

LENGTH AND DESCRIPTION BASED ON: SPRING LAKE ROAD ALIGNMENT

DESIGN DESIGNATION SAP 146-020-013 (TRAIL)

DESIGNATION	TRAIL
DESIGN SPEED	20 MPH
TRAIL WIDTH	10 FT
GROSS LENGTH	1573.05 FT
DESIGN SPEED BASED ON STOPPING SIGHT DISTANCE: HEIGHT OF EYE = 3.85 FT HEIGHT OF OBJECT = 0.0 FT	

DESIGN DESIGNATION SAP 183-020-009 (TRAIL)

DESIGNATION	TRAIL
DESIGN SPEED	20 MPH
TRAIL WIDTH	10 FT
GROSS LENGTH	702.59 FT
DESIGN SPEED BASED ON STOPPING SIGHT DISTANCE: HEIGHT OF EYE = 3.85 FT HEIGHT OF OBJECT = 0.0 FT	

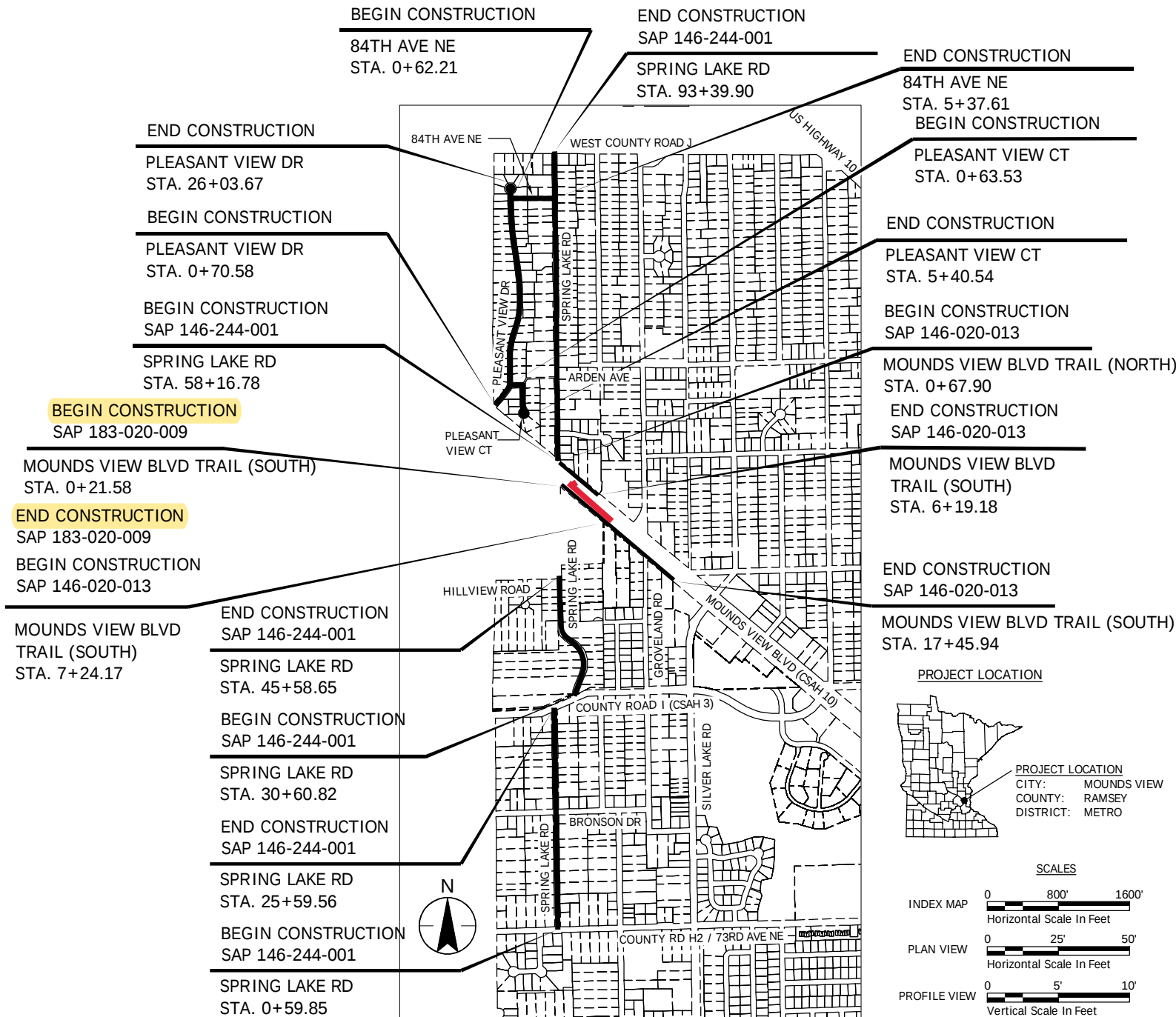
THIS PROJECT HAS BEEN GRANTED A VARIANCE FROM MINNESOTA RULE 8820.9936, DATED NOVEMBER 20, 2017, SO AS TO PERMIT SPEED LIMIT TO 20 MPH IN LIEU OF 30 MPH SPEED LIMIT. THE VARIANCE WAS SIGNED BY KRISTINE ELWOOD ON OCTOBER 7, 2021.

HORIZONTAL DATA
RAMSEY COUNTY COORDINATE SYSTEM
DATUM: NAD83, 1986 ADJUSTMENT (NON HARN)
UNITS: US SURVEY FOOT

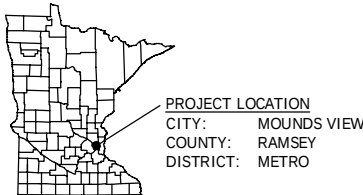
VERTICAL DATA
DATUM: NGVD29

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

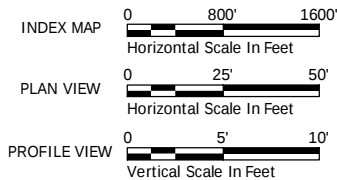
COMMENTS	DATE



PROJECT LOCATION



SCALES



--- GOVERNING SPECIFICATIONS ---
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

INDEX

SHEET NO.	SHEET DESCRIPTION
G0.01	TITLE SHEET
G0.02	LEGEND
G0.03	GENERAL NOTES & SCHEDULES
G0.04	GENERAL LAYOUT - 2022 CONSTRUCTION
G0.05	GENERAL LAYOUT - 2023 CONSTRUCTION
G3.01-G3.02	STATEMENT OF ESTIMATED QUANTITIES
G4.01-C4.02	EARTHWORK SUMMARY TABLES
C1.01-C1.05	TYPICAL SECTIONS
C1.06	ALIGNMENT PLAN & TABULATION
C1.07-C1.08	RETAINING WALL DETAILS
C0.01-C0.12	EXISTING CONDITIONS & REMOVALS
C2.01-C2.11	EROSION CONTROL & TURF ESTABLISHMENT
C4.01-C4.03	SANITARY SEWER AND WATERMAIN PLAN
C5.01-C5.11	DRAINAGE PLAN & PROFILE
C6.01-C6.24	STREET IMPROVEMENTS
C6.25-C6.29	INTERSECTION DETAILS AND ADA PLAN
C8.01-C8.14	STANDARD DETAILS
C9.01-C9.10	MAILBOX PLAN
T9.01-T9.10	SIGNING & STRIPING PLAN
E2.01	LIGHTING LAYOUT
E3.01	ELECTRICAL DETAILS

THIS PLAN CONTAINS 119 SHEETS



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

PRINTED NAME Tyler McLeete L.I.C. NO. 51774

SIGNATURE [Signature] DATE 01-21-2022

APPROVED: MOUNDS VIEW CITY ENGINEER DATE

APPROVED: MOUNDS VIEW PUBLIC WORKS DIRECTOR DATE

APPROVED: RAMSEY COUNTY ENGINEER DATE

APPROVED: SPRING LAKE PARK CITY ENGINEER DATE

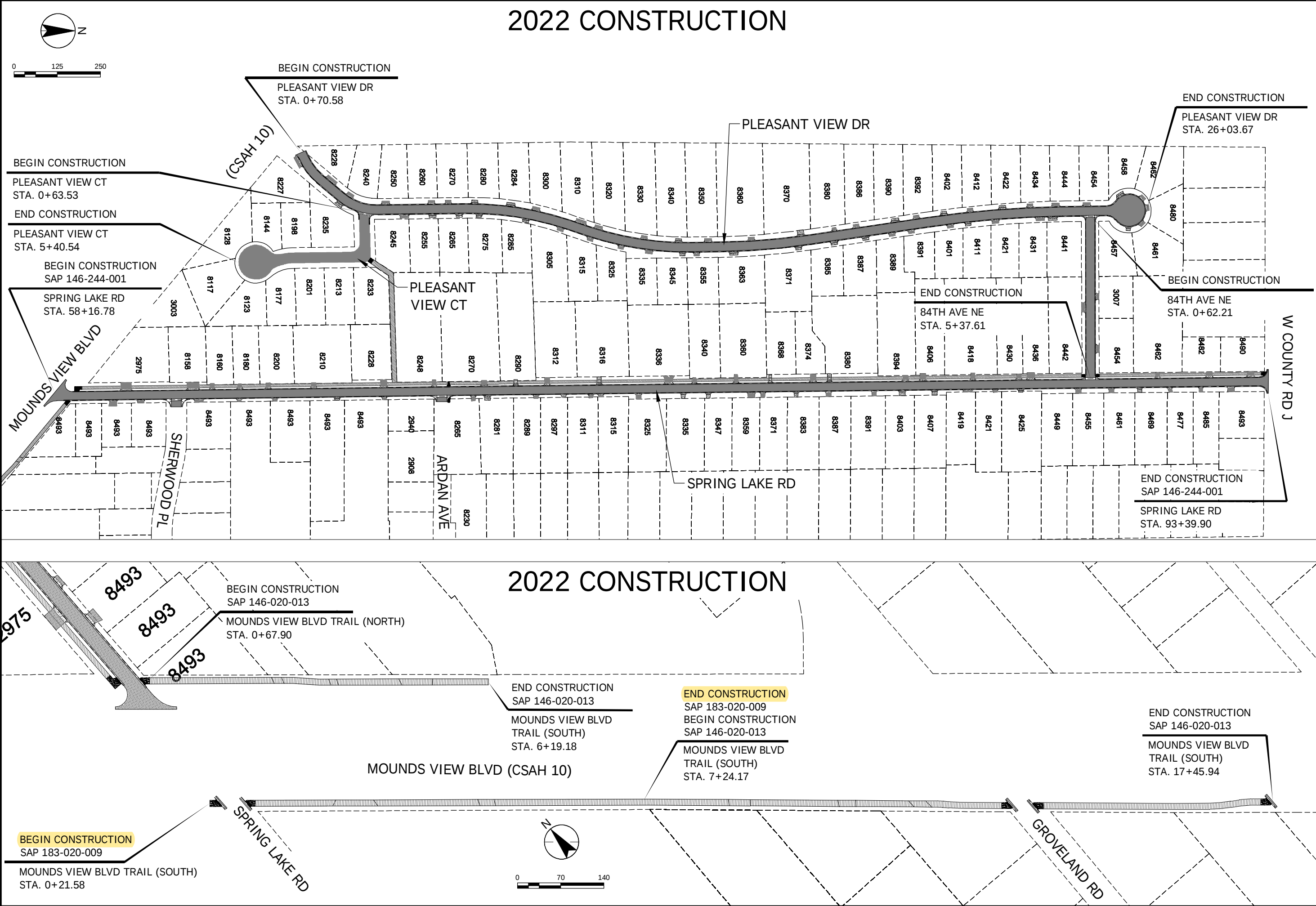
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY DATE

APPROVED FOR STATE AID FUNDING: STATE AID ENGINEER DATE

SAP 146-244-001, SAP 146-020-013, SAP 183-020-009 SHEET G0.01

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. NO USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 01/25/2022 - 4:03pm
Drawing name: C:\p\w\m\h\inf\ad1\mns\8001\193805303_0001.dwg
User: 193805303_Parcels_193805303_XENO_193805303_Border





733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

DATE: 01/21/2022

UC NO.: 517

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.
PRINT NAME: TYLER J. MCLEETE
SIGNATURE: 

CITY OF MOUNDS VIEW, MINNESOTA

2022-2023 STREET REHABILITATION PROJECT

GENERAL LAYOUT - 2022 CONSTRUCTION

NO.	REVISION	DATE

SURVEY: BLW

DRAWN: XWM/JDP

DESIGNED: TJM

CHECKED: ###

APPROVED: ###

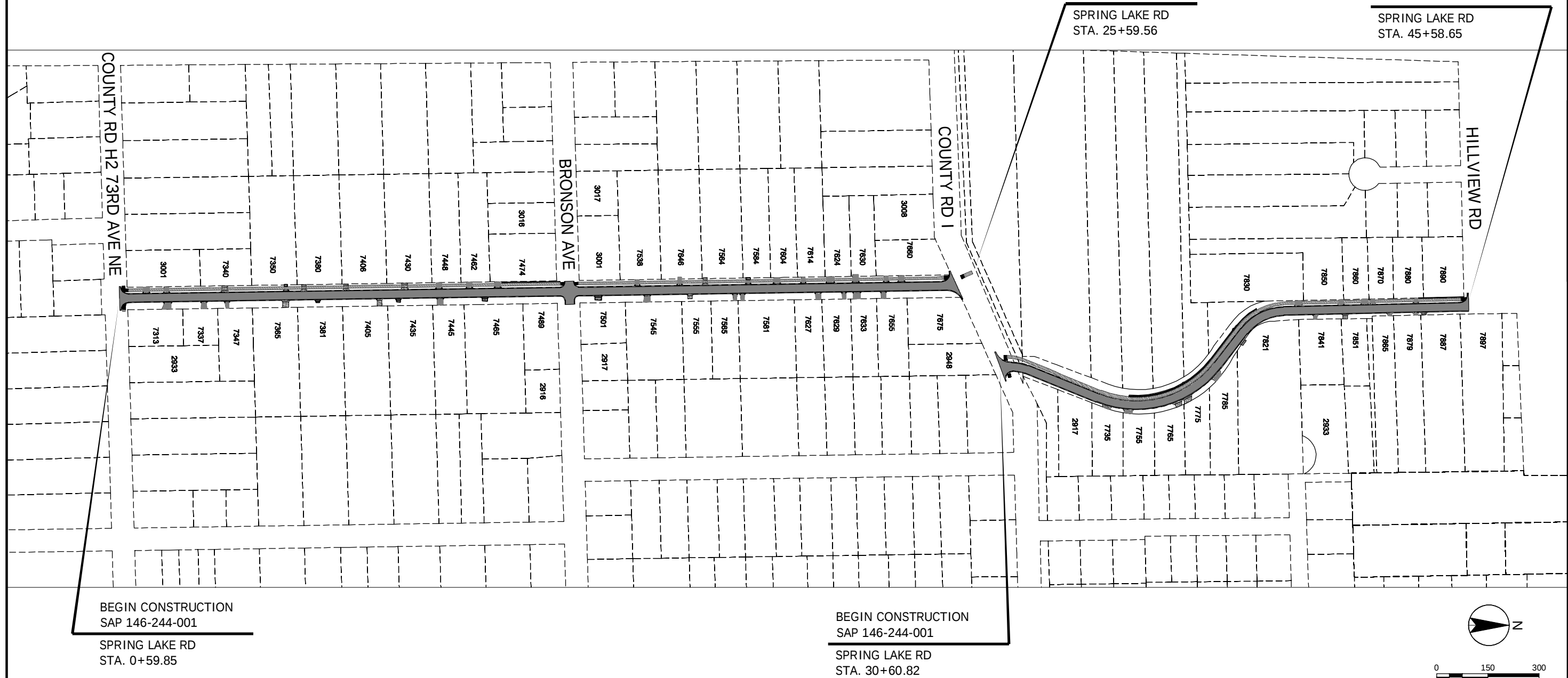
PROJ. NO.: 193805303

SHEET NUMBER: G0.04

2023 CONSTRUCTION

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY. THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF STANTEC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY STANTEC IS FORBIDDEN.

Plot Date: 01/25/2022 - 4:03pm
Drawing name: C:\pw_stn_bh_infra01\dms78001\193805303_G001.dwg
xrefs: 193805303_Parcels, 193805303_XSNO, 193805305_border



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
UNDER THE LAWS OF THE STATE OF

PRINT NAME: TYLER J. MCLEETE

SIGNATURE: 

DATE: 01/21/2022 LIC. NO. 51774

CITY OF MOUNDS VIEW, MINNESOTA
2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
GENERAL LAYOUT - 2023 CONSTRUCTION

	NO REVISION	DATE
SURVEY		BW
DRAWN	XWM/JDP	
DESIGNED	TJM	
CHECKED	###	
APPROVED	###	
PROJ. NO.	193805303	

SHEET NUMBER
G0.05



733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.startec.com

Stantec

Plot Date: 01/25/2022 - 4:03pm
Drawing name: C:\pw_stn_bh_infra01\dms78001\193805303_G300.dwg
Xrefs: 193805305_border

STATEMENT OF ESTIMATED QUANTITIES

	ITEM NO	DESCRIPTION	UNITS	TOTAL EST QUANTITIES	SAP 146-244-001		LOCAL ROAD (NON PARTICIPATING) (B)	SAP 146-020-013 TRAIL (MOUNDS VIEW) (C)	SAP 183-020-009 TRAIL (SPRING LAKE) (D)
NO.					ROAD	STORM			
101	2557.503	WIRE FENCE DESIGN SPECIAL VINYL COATED	LIN FT	475	475				
102	2557.503	WIRE FENCE DESIGN 48-9322 (8)	LIN FT	50	50				
103	2563.601	TRAFFIC CONTROL	LUMP SUM	1	0.59	0.15	0.23	0.02	0.01
104	2564.502	INSTALL SIGN TYPE C	EACH	33	33				
105	2564.518	SIGN PANELS TYPE C	SQ FT	70	60			5	5
106	2573.502	STORM DRAIN INLET PROTECTION	EACH	77		64	13		
107	2573.502	CULVERT END CONTROLS	EACH	6		6			
108	2573.503	SILT FENCE; TYPE MS	LIN FT	6169	3476		693	1400	600
109	2573.602	STABILIZED CONSTRUCTION EXIT	EACH	7	6		1		
110	2574.507	COMMON TOPSOIL BORROW	CU YD	2007	1317		361	230	99
111	2574.508	FERTILIZER TYPE 3	POUND	1140	756		201	128	55
112	2575.504	SODDING TYPE LAWN (15)	SQ YD	570	570				
113	2575.505	SEEDING	ACRE	1.28	1.28		0.00	0.00	0.00
114	2575.508	SEED MIXTURE 25-151	POUND	447	293		81	51	22
115	2575.508	SEED MIXTURE 33-262	POUND	2	2				
116	2575.508	SEED MIXTURE 35-241	POUND	1	1				
117	2575.508	HYDRAULIC BONDED FIBER MATRIX	POUND	7600	5035		1342	856	367
118	2575.602	SITE RESTORATION	EACH	1.00	1.00				
119	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	8000	8000				
120	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	16000	16000				
121	2582.518	CROSSWALK MULTI-COMPONENT	SQ FT	750	500			250	

NOTES:

- | | |
|------|--|
| (P) | PLAN QUANTITY |
| (1) | PRO RATA |
| (2) | ALL PROJECT PLANTING LESS THAN 4" IN DIAMETER |
| (3) | TREES EQUAL TO OR GREATER THAN 4" IN DIAMETER |
| (4) | SANITARY AND WATER MAIN SERVICES NOT SHOWN IN PLAN |
| (5) | QUANTITY ASSUMED AT 33% OF ROADWAY AREA. INSTALL AS DIRECTED BY THE ENGINEER |
| (6) | FOR ROADWAY CLEANUP ASSOCIATED WITH STREET SWEEPER |
| (7) | ONSITE USE OF RECLAIM MATERIAL |
| (8) | LOCATIONS DIRECT BY ENGINEERS |
| (9) | 0.08 GAL/SY |
| (10) | DRIVES AND TRAILS |
| (11) | ROADWAYS |
| (12) | 2'x3' CATCH BASIN |
| (13) | 27" DIA. CATCH BASIN |
| (14) | CONCRETE WALK BEHIND MODULAR BLOCK RETAINING WALL B |
| (15) | SODDING TO REPLACE SEED RESTORATION OUT OF PUBLIC ROW IF ACCEPTED |

FUNDING NOTES:

- (A) SPRING LAKE ROAD
(B) PLEASANT VIEW DR., 84TH AVE., PLEASANT VIEW CT.
(C) MOUNDS VIEW BLVD TRIAL CONSTRUCTION WITHIN MOUNDS VIEW CITY LIMIT
(D) MOUNDS VIEW BLVD TRIAL CONSTRUCTION WITHIN SPRING LAKE PARK CITY LIMIT

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

STANDARD PLATES

3000M	REINFORCED CONCRETE PIPE (6 SHEETS)
3006H	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
3014K	REINFORCED CONCRETE PIPE ARCH (3 SHEETS)
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4108F	ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES
4180J	MANHOLE OR CATCH BASIN STEP
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
8000K	TEMPORARY CHANNELIZERS TYPE A-C (3 SHEETS)

BASIS OF QUANTITIES

ITEM	RATE OF APPLICATION	NOTES
BITUMINOUS MIX	113 LB/SY-IN	
BITUMINOUS TACK COAT	0.08 GAL/SQ YD	
FERTILIZER TYPE 3	300 POUND/ACRE	
SEED MIXTURE 25-151	120 POUND/ACRE	
SEED MIXTURE 33-261	44 POUND/ACRE	
SEED MIXTURE 35-241	36.5 POUND/ACRE	
HYDRAULIC BONDED FIBER MATRIX	2000 POUND/ACRE	

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CITY OF MOUNDS VIEW, MINNESOTA

2022-2023 STREET REHABILITATION PROJECT

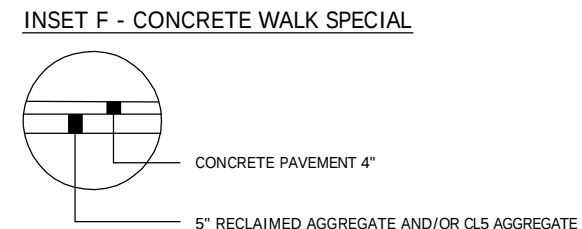
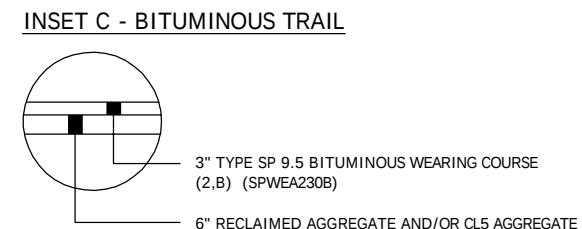
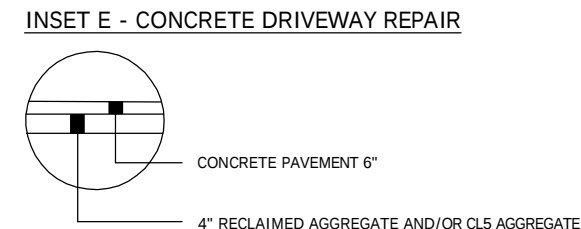
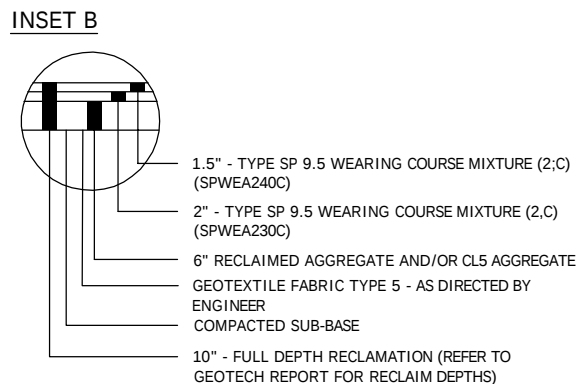
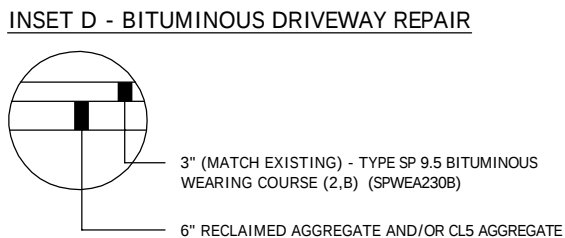
SAP 146-244-001
STATEMENT OF ESTIMATED QUANTITIES

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DRAWN			XWM/JDP
DESIGNED			TJM
CHECKED			####
APPROVED			####
PROJ. NO.			193805303

SHEET NUMBER

G3.02

Plot Date: 01/25/2022 - 4:05pm
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Xrefs: 193805303_XSXT.193805303_Parcel, 193805303_XSNO.193805305_border



SPECIFIC NOTES:

① SPOT REPLACEMENT AS DIRECTED BY THE ENGINEER.

RECLAIM CONSTRUCTION NOTES:

1. RECLAIM EXISTING BITUMINOUS PAVEMENT AND EXISTING BASE PER RECOMMENDATIONS IN GEOTECHNICAL REPORT AND AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. REMOVE AND STOCKPILE RECLAIMED MATERIAL.
3. EXCAVATE TO BOTTOM OF ROADWAY SECTION TO MEET PROPOSED ROADWAY PROFILE.
4. PLACE AND SHAPE RECLAIMED MATERIAL AS AGGREGATE BASE TO MEET PROPOSED GRADES. SUPPLEMENT WITH CLASS 5 AS DIRECTED BY THE ENGINEER IN THE FIELD.
5. PLACE 2" BITUMINOUS BASE COURSE (MIX SPWEA240C)
6. PLACE 2" BITUMINOUS WEARING COURSE (MIX SPWEA230C)

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CITY OF MOUNDS VIEW, MINNESOTA
2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
TYPICAL SECTIONS

NO	REVISION	DATE
SURVEY	BLV	
DRAWN	XWM/JDI	
DESIGNED	TJM	
CHECKED	###	
APPROVED	###	
PROJ. NO.	193805303	

SHEET NUMBER
C1.03

Plot Date: 01/25/2022 - 4:05pm
Drawing name: C:\pw_stn_bh_infra01\dms78001\193805303 C100.dwg
Xrefs: 193805303_XSXT, 193805303_Parcel, 193805303_XSNO, 193805305_border

Plan view of a proposed 50-foot wide road section. The section is symmetrical about a central centerline (C/L). The total width is 50.0'. The section includes two 14.0' drive lanes, two 10.0' - 12.0' shoulders, and two 24.0' - 26.0' shoulders. The shoulders are labeled "VARIES". The drive lanes are labeled "DRIVE LANE". The centerline is labeled "C/L". The shoulders are labeled "VARIES 10.0' - 12.0'". The drive lanes are labeled "14.0'". The shoulders are labeled "VARIES 24.0' - 26.0'". The shoulders are labeled "R/W". The shoulders are labeled "VARIES". The drive lanes are labeled "VARIES 3% TYP.". The shoulders are labeled "VARIES 3% TYP.". The shoulders are labeled "B618 CONC. C&G". The centerline is labeled "INSET B".

Plan view of the proposed bridge deck. The total width is 60.0'. The deck is divided into two 14.0' drive lanes separated by a centerline (C/L). The shoulders on each side are 13.3' to 16.0' wide. The total width of the shoulders is 27.7' to 30.0'. The width of the drive lanes is 30.0' to 32.3'. The bridge is supported by two B618 concrete columns and girders (C&G). The bridge deck has a 3% typical cross-slope (VARIES 3% TYP.).

Plan view of a 60.0' wide road section. The section is divided into four main horizontal zones from left to right:

- Left Shoulder:** Labeled "VARIES 14.0' - 16.0'". Below this, a dashed line indicates a "VARIES" width with an arrow pointing right.
- Left Drive Lane:** Labeled "15.0'" and "DRIVE LANE". Below this, a dashed line indicates a "VARIES 3% TYP." width with an arrow pointing right.
- Center:** Labeled "C/L" (Center Line). Below this, a circular feature is labeled "INSET B".
- Right Drive Lane:** Labeled "15.0'" and "DRIVE LANE". Below this, a dashed line indicates a "VARIES 3% TYP." width with an arrow pointing right.
- Right Shoulder:** Labeled "VARIES 14.0' - 16.0'". Below this, a dashed line indicates a "VARIES" width with an arrow pointing left.

Overall dimensions and labels:

- Total width: 60.0' (indicated by a dimension line at the top).
- Left side boundary: R/W (Right of Way).
- Right side boundary: R/W (Right of Way).
- Bottom left detail: ① EX. S512 CONC. C&G (Concrete and Gravel).
- Bottom right detail: EX. S512 ① CONC. C&G (Concrete and Gravel).

The diagram illustrates a road cross-section with three main zones: CLEAR, TRAIL, and C/L. The dimensions are as follows:

- CLEAR:** 2.0' on both the left and right sides.
- TRAIL:** 10.0' in the center.
- C/L:** Center Line, indicated by a vertical line in the middle of the TRAIL zone.

Additional callouts and details include:

- VARIES 1:4 TYP.** (Twice): Slope of the CLEAR zones.
- VARIES 1.5% TYP.**: Slope of the TRAIL zone.
- INSET C**: A circular inset showing a detail of the road surface.

2.0' 10.0' 2.0'

CLEAR TRAIL CLEAR

C/L

VARIES 1.5% TYP.

VARIES 1:4 TYP.

VARIES 1:4 TYP.

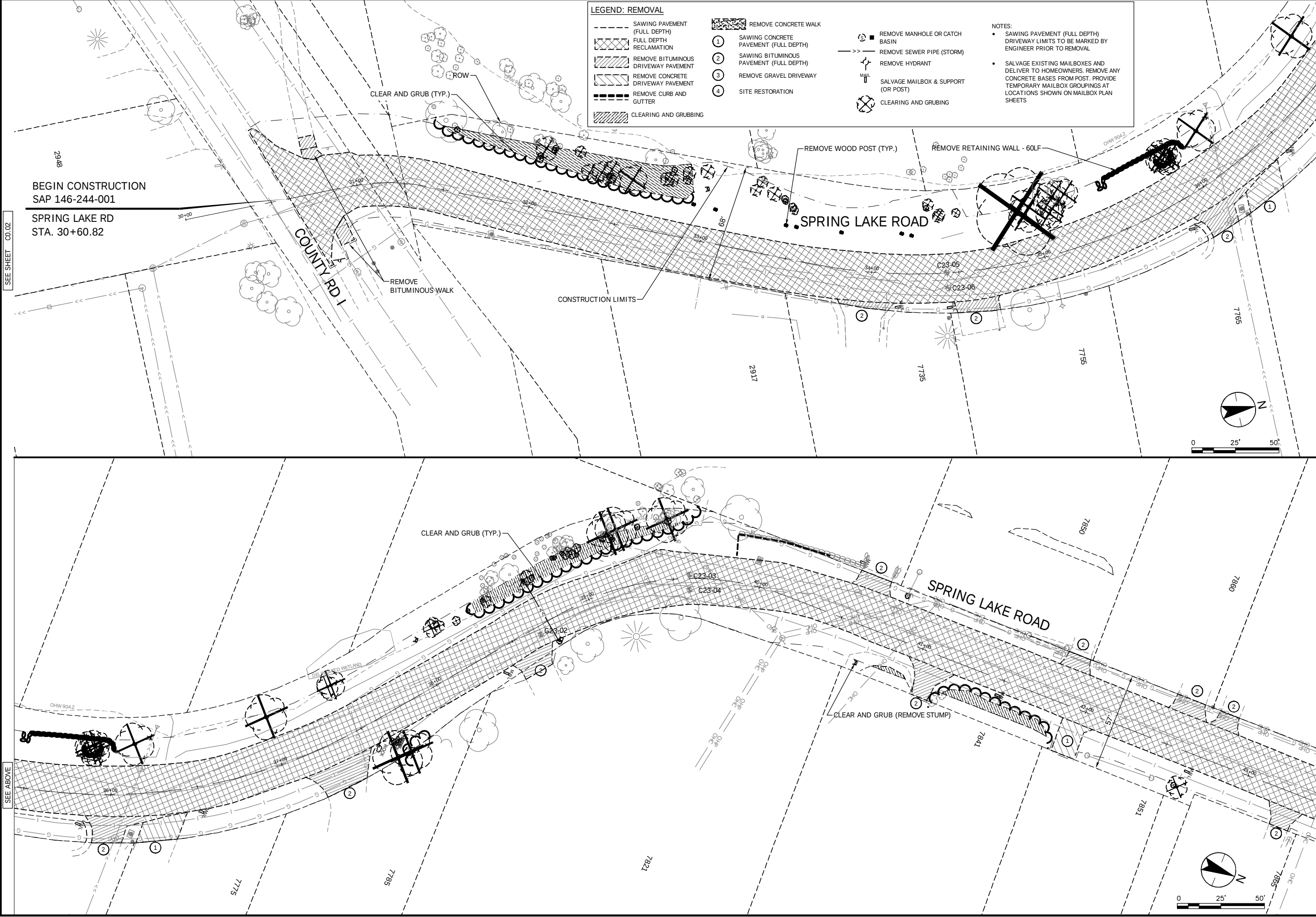
INSET C

PROPOSED TYPICAL SECTION

MOUNDS VIEW BLVD TRAIL SOUTH

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User: 193805303_XS.M
Xref: 193805303_XS.M



SEE SHEET C0.02

SEE ABOVE

LEGEND: REMOVAL

--- SAWING PAVEMENT (FULL DEPTH)	REMOVE CONCRETE WALK	③ REMOVE MANHOLE OR CATCH BASIN	NOTES: - SAWING PAVEMENT (FULL DEPTH) DRIVEWAY LIMITS TO BE MARKED BY ENGINEER PRIOR TO REMOVAL. - SALVAGE EXISTING MAILBOXES AND DELIVER TO HOMEOWNERS. REMOVE ANY CONCRETE BASES FROM POST. PROVIDE TEMPORARY MAILBOX GROUPINGS AT LOCATIONS SHOWN ON MAILBOX PLAN SHEETS
RECLAMATION	① SAWING CONCRETE PAVEMENT (FULL DEPTH)	--> REMOVE SEWER PIPE (STORM)	
REMOVE BITUMINOUS DRIVEWAY PAVEMENT	② SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	REMOVE HYDRANT	
REMOVE CONCRETE DRIVEWAY PAVEMENT	③ REMOVE GRAVEL DRIVEWAY	MAIL SALVAGE MAILBOX & SUPPORT (OR POST)	
REMOVE CURB AND GUTTER	④ SITE RESTORATION	✕ CLEARING AND GRUBBING	
CLEARING AND GRUBBING			

SEE BELOW

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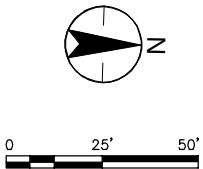
2022-2023 STREET REHABILITATION PROJECT

SAP 146-244-001
EXISTING CONDITIONS & REMOVALS

NO.	REVISION	DATE

SURVEY	BLW
DRAWN	XWM/JDP
DESIGNED	TJM
CHECKED	###
APPROVED	###
PROJ. NO.	193805303
SHEET NUMBER	C0.03

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Xrefs: 193805303_XSXT, 193805305_border, 193805303_Parcels, 193805303_XSNO, 193805303_XSLM



----	SAWING PAVEMENT (FULL DEPTH)
	FULL DEPTH RECLAMATION
	REMOVE BITUMINOUS DRIVEWAY PAVEMENT
	REMOVE CONCRETE DRIVEWAY PAVEMENT
----	REMOVE CURB AND GUTTER
	CLEARING AND GRUBBING

 REMOVE CONCRETE WALL

- ① SAWING CONCRETE PAVEMENT (FULL DEPTH)
- ② SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
- ③ REMOVE GRAVEL DRIVEWAY
- ④ SITE RESTORATION

-  REMOVE MANHOLE OR CATCH BASIN
-  REMOVE SEWER PIPE (STORM)
-  REMOVE HYDRANT
-  SALVAGE MAILBOX & SUPPORT (OR POST)
-  CLEARING AND GRUBBING

NOTES:

- SAWING PAVEMENT (FULL DEPTH) DRIVEWAY LIMITS TO BE MARKED BY ENGINEER PRIOR TO REMOVAL
- SALVAGE EXISTING MAILBOXES AND DELIVER TO HOMEOWNERS. REMOVE ANY CONCRETE BASES FROM POST. PROVIDE TEMPORARY MAILBOX GROUPINGS AT LOCATIONS SHOWN ON MAILBOX PLAN SHEETS

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2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
EXISTING CONDITIONS & REMOVALS

NO	REVISION	DATE
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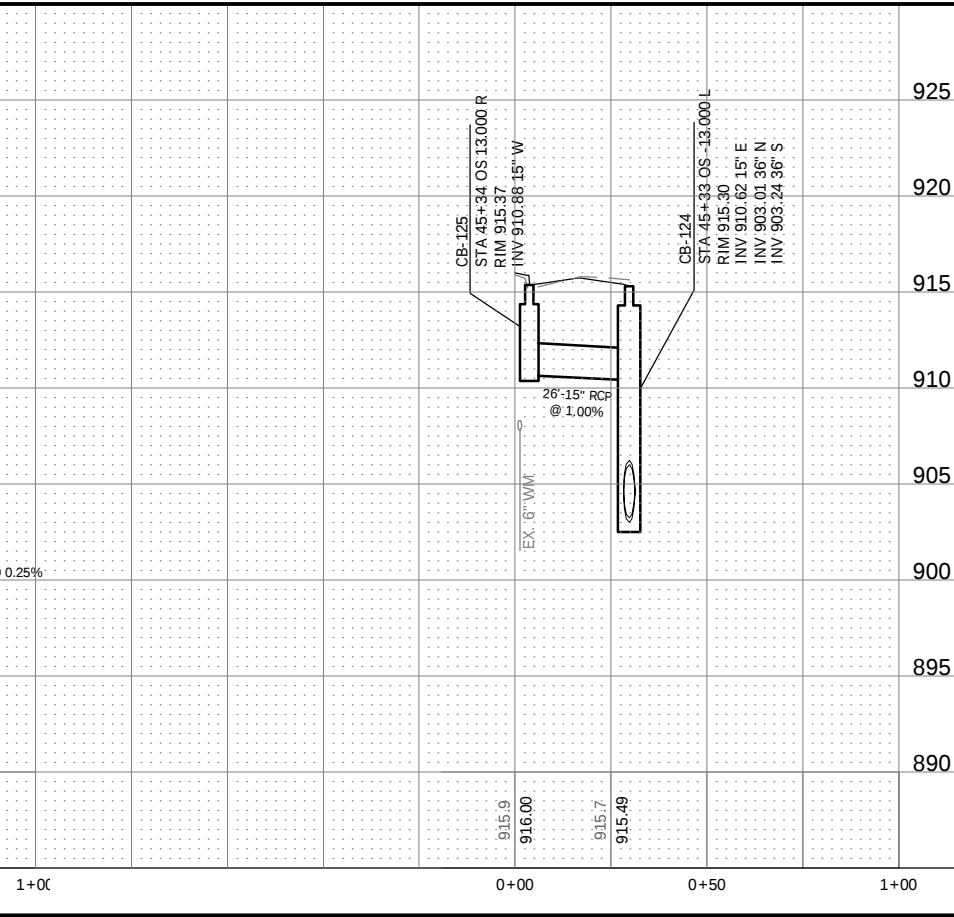
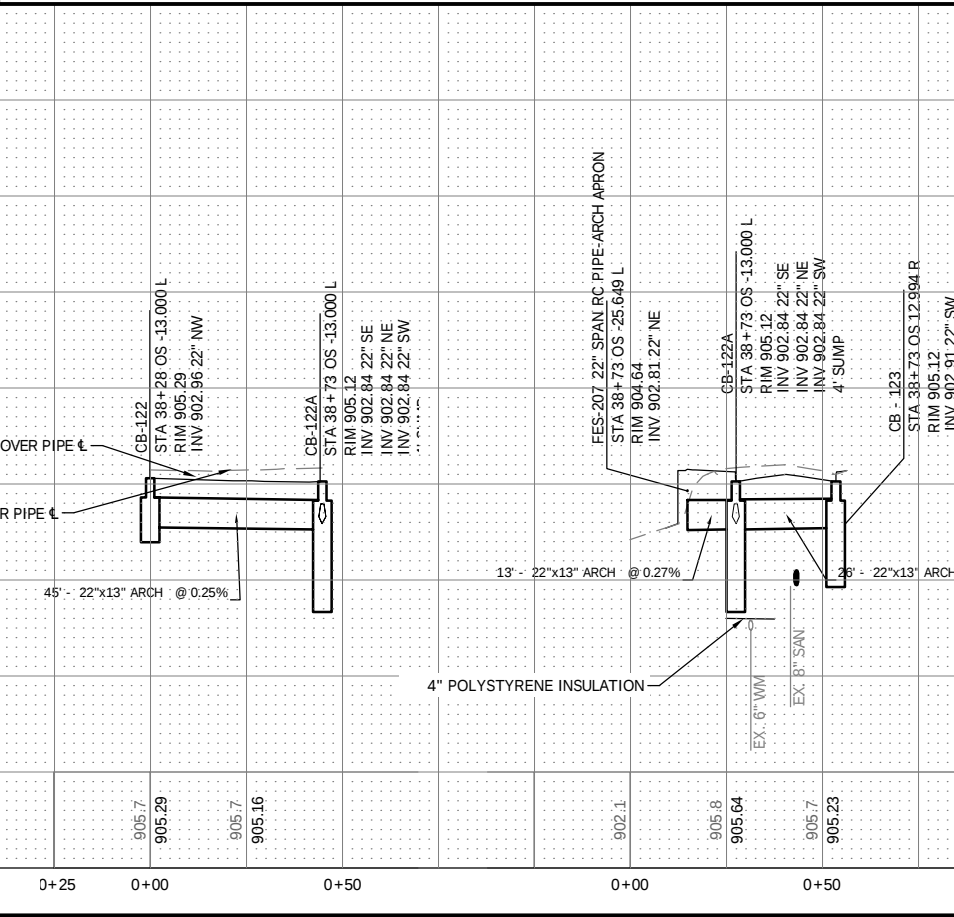
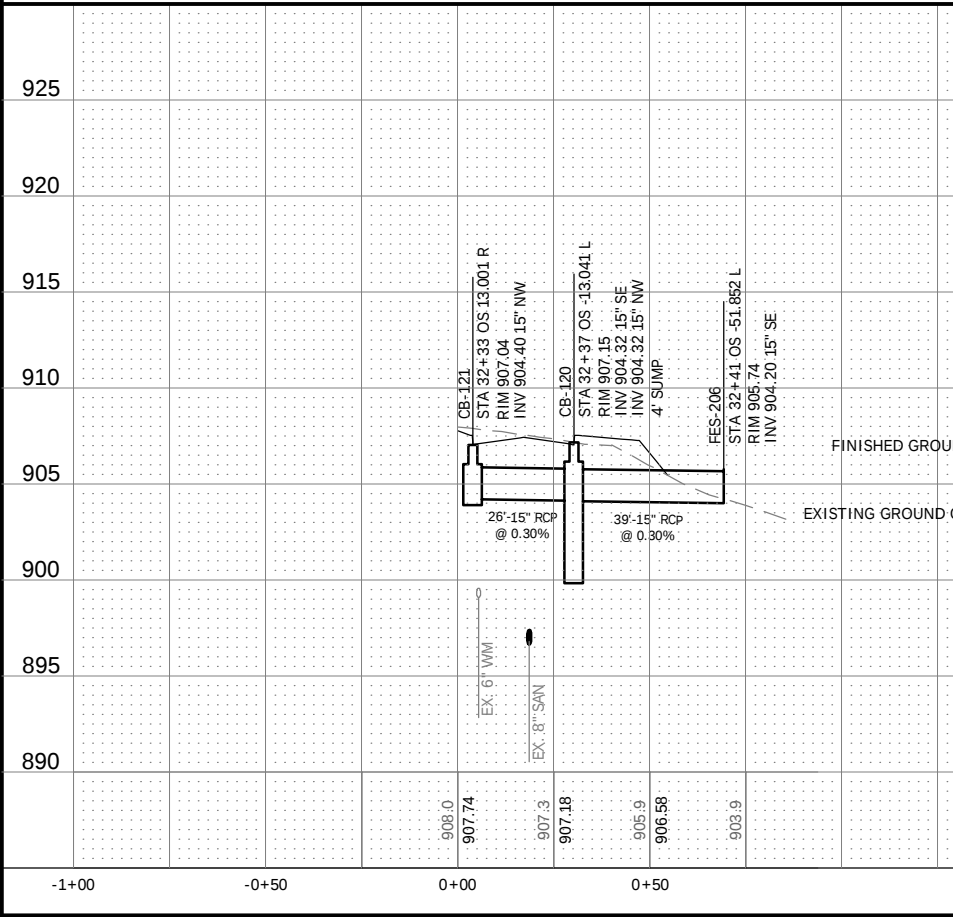


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NO	REVISION	DATE
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CHECKED	####	
APPROVED	####	
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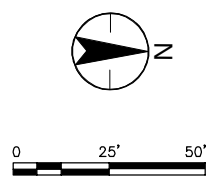
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Plot Date: 01/25/2022 - 4:15pm
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VBA: ...



	SURVEY	BLW
	DRAWN	XWM/JDP
	DESIGNED	TJM
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	APPROVED	###
	PROJECT NO.	193805303
SHEET NUMBER C6.08		

NO REVISION DATE

CITY OF MOUNDS VIEW, MINNESOTA

2022-2023 STREET REHABILITATION PROJECT

SAP 14G-244-001

STREET IMPROVEMENTS-SPRING LAKE RD

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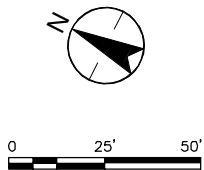
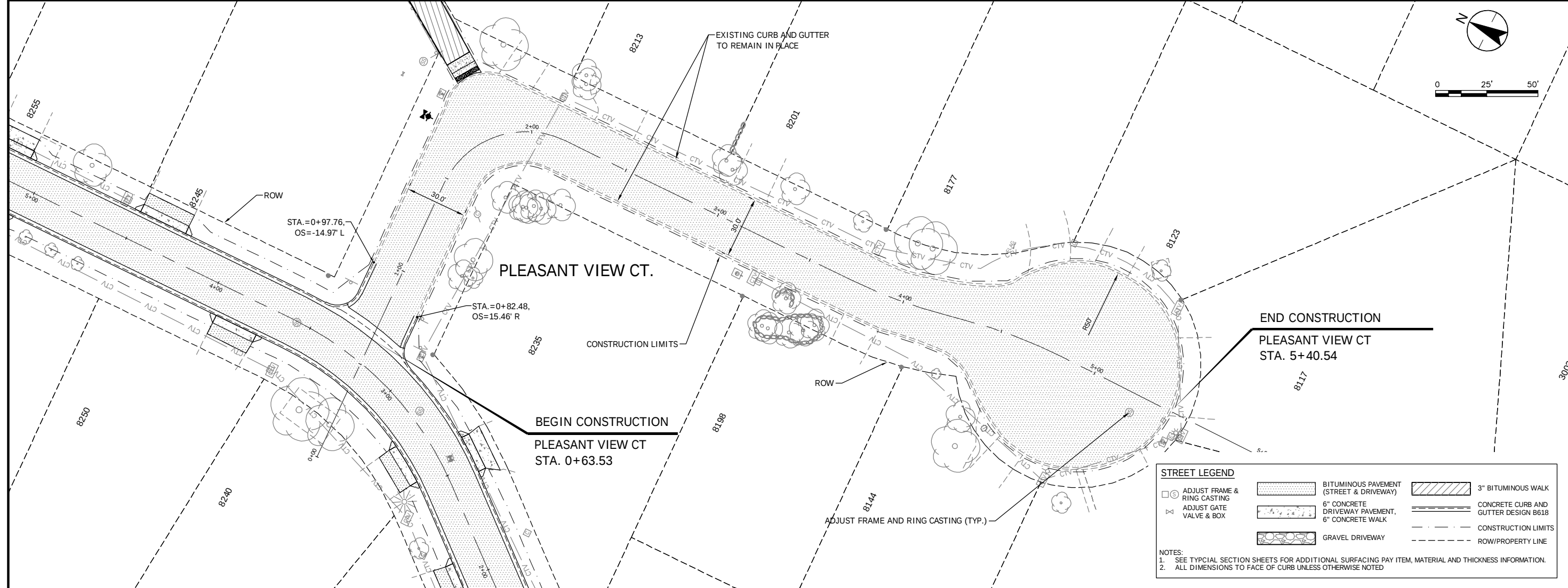
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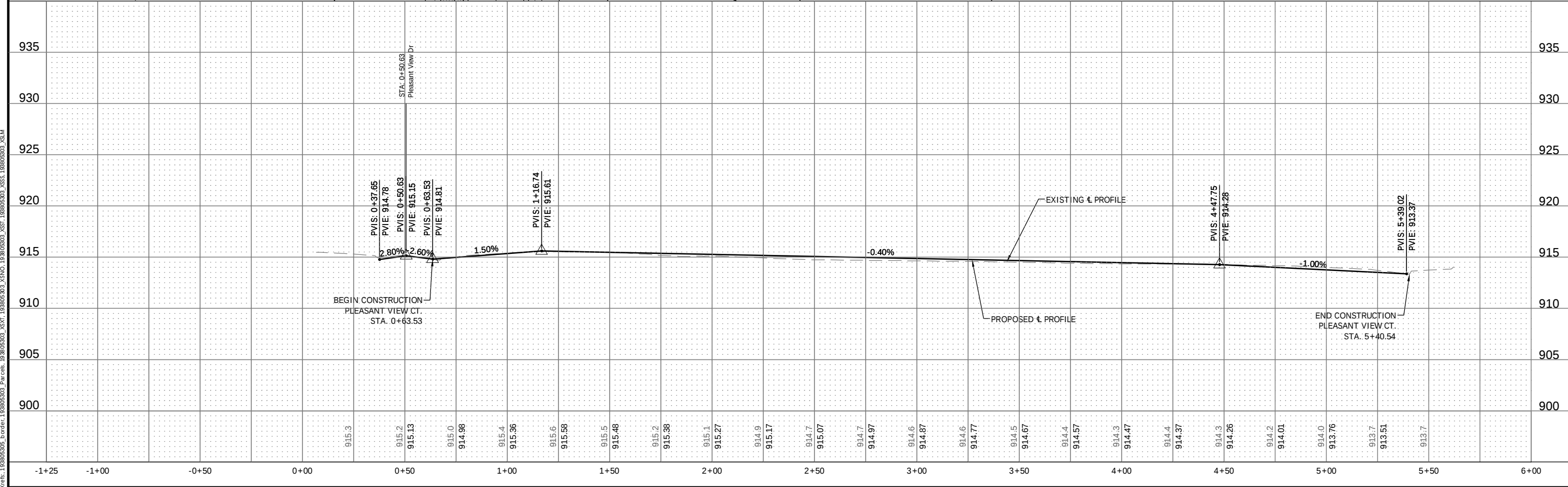
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STREET LEGEND

ADJUST FRAME & RING CASTING	BITUMINOUS PAVEMENT (STREET & DRIVEWAY)	
ADJUST GATE VALVE & BOX		CONCRETE CURB AND GUTTER DESIGN B618
GRAVEL DRIVEWAY	CONSTRUCTION LIMITS	ROW/PROPERTY LINE

NOTES:
1. SEE TYPICAL SECTION SHEETS FOR ADDITIONAL SURFACING PAY ITEM, MATERIAL AND THICKNESS INFORMATION.
2. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED



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SIGNATURE:
DATE: 01/21/2022
LIC. NO.: 5174

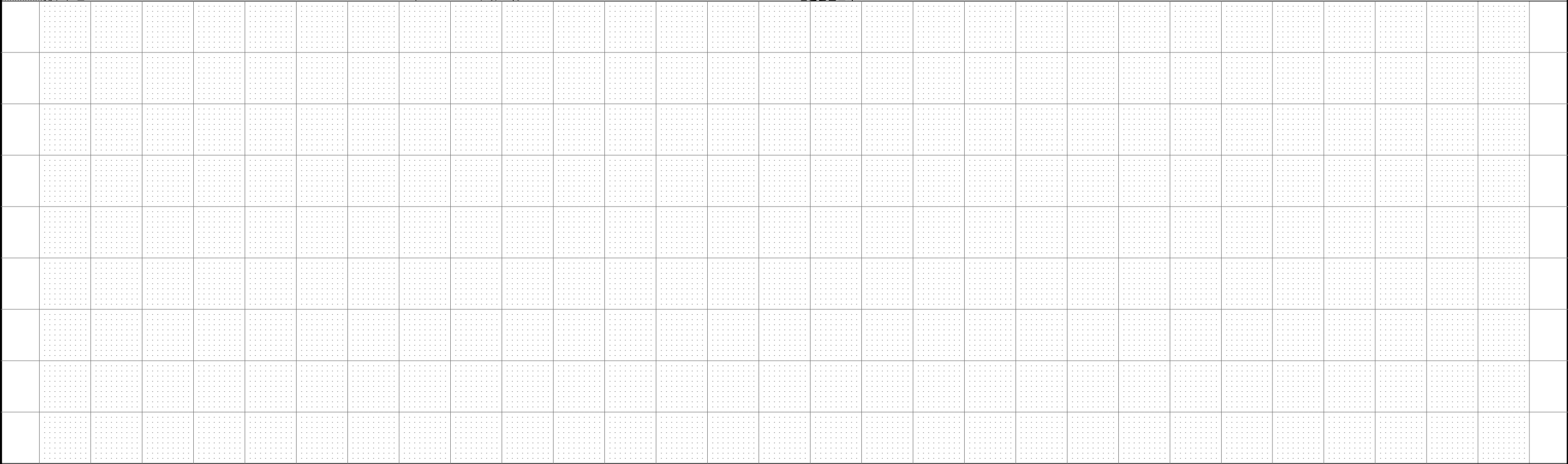
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2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
STREET IMPROVEMENTS-PLEASANT VIEW CT

NO.	REVISION	DATE

SURVEY	BLW
DRAWN	XWM/JDP
DESIGNED	TJM
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APPROVED	###
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SHEET NUMBER
C6.19

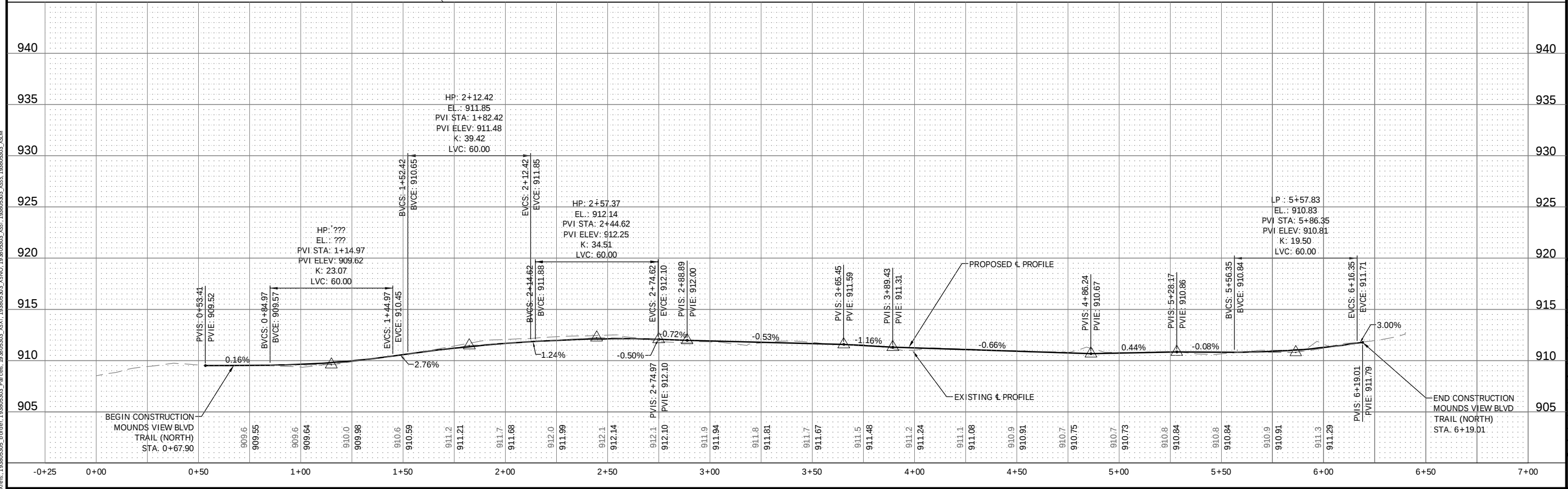
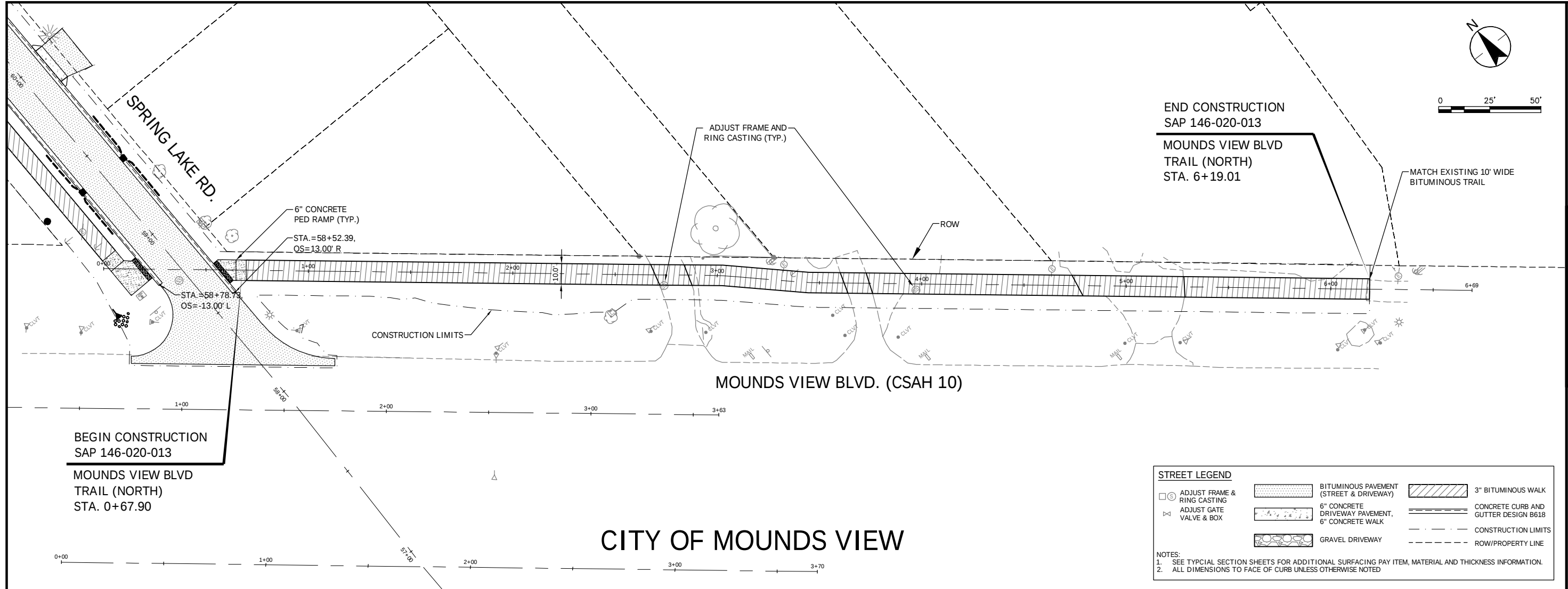
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CITY OF MOUNDS VIEW, MINNESOTA
2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
STREET IMPROVEMENTS-PLEASANT VIEW CT TRAIL CONNECTION

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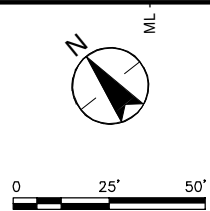
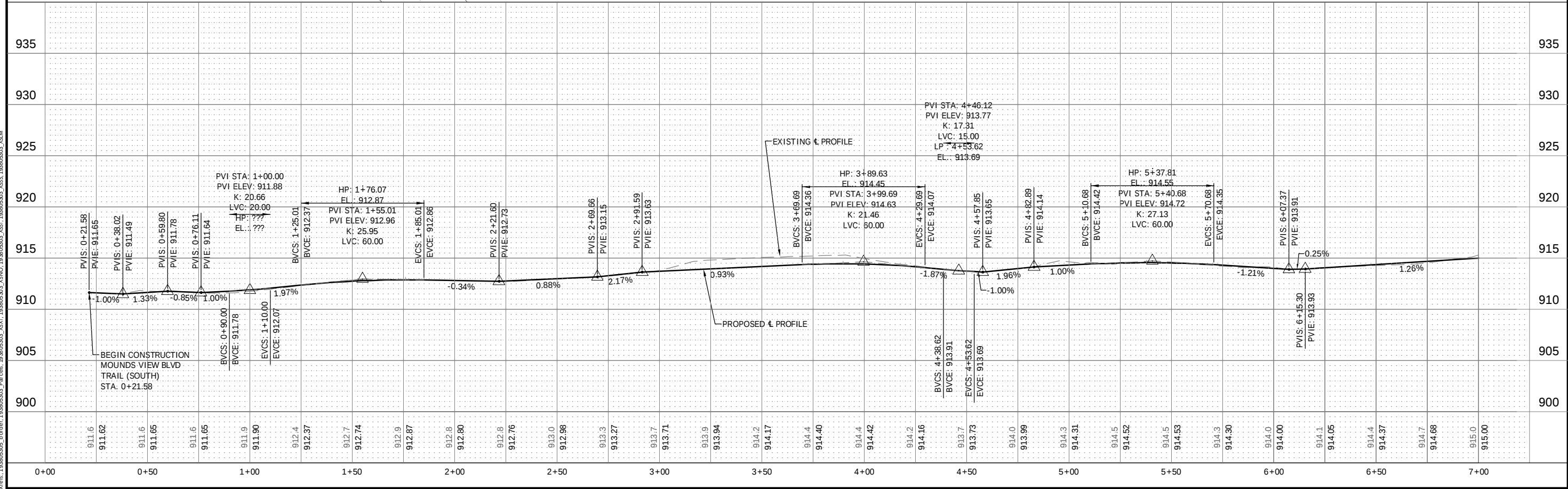
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CITY OF MOUNDS VIEW, MINNESOTA
2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
STREET IMPROVEMENTS-MOUNDS VIEW TRAIL

NO	REVISION	DATE
SURVEY	BLW	
DRAWN	XWM/JDP	
DESIGNED	TJM	
CHECKED	####	
APPROVED	####	
PROJ. NO.	193805303	

SHEET NUMBER
C6.21

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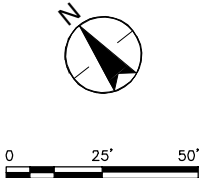
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DATE: 01/24/2022

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SAP 146-244-001
STREET IMPROVEMENTS-MOUNDS VIEW TRAIL

NO	REVISION	DATE
SURVEY	BLW	
DRAWN	XWM/JDP	
DESIGNED	TJM	
CHECKED	####	
APPROVED	####	
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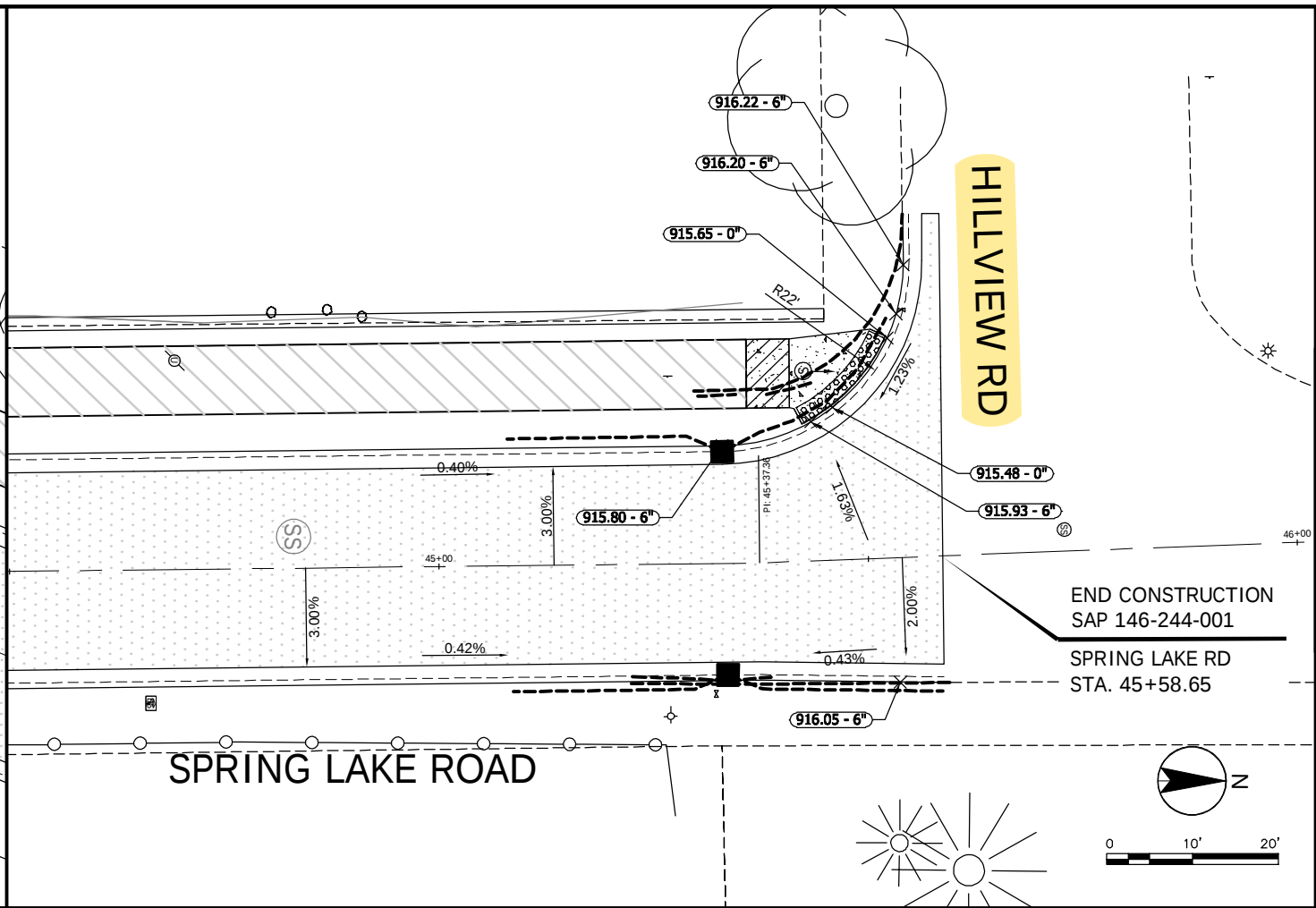


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2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
STREET IMPROVEMENTS-MOUNDS VIEW TRAIL

NO	REVISION	DATE

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DRAWN	XWM/JDP
DESIGNED	TJM
CHECKED	####
APPROVED	####
PROJ. NO.	193805303
SHEET NUMBER C6.24	

Plot Date: 01/25/2022 - 4:19pm
Drawing name: C:\pw\sm_bh_infra01\dms78001\193805303_C621.dwg
Xrefs: 193805305_border; 193805303_XSNO; 193805303_XSXT; 193805303_Parcels; 193805303_XSST



LANDING AREA - 4' X 4' MIN. DIMENSIONS
AND MAX 2.0% SLOPE IN ALL DIRECTIONS

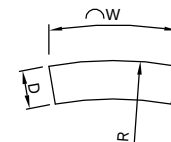
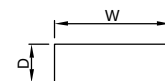
XXX.XX X SPOT ELEVATION

INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

X.XX% → DRAINAGE FLOW ARROW

RECTANGULAR

RADIAL



1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. RADIAL DIMENSIONS ARE TO FACE OF CURB.
3. ALL SPOT ELEVATIONS ARE AT TOP BACK OF CURB UNLESS OTHERWISE NOTED.
4. ALL CURB JOINTS WITHIN THE PAR SHALL BE SAW CUT.
5. DOWEL INTO EXISTING CURB AND GUTTER.

[illegible]

SURVEY	BLW
DRAWN	XWM/JDP
DESIGNED	TJM
CHECKED	####
APPROVED	####
PROJ. NO.	193805303

SHEET NUMBER

C6.26



733 Marquette Avenue, Suite 1000
Minneapolis, MN 55402
www.stantec.com

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT
WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED
UNDER THE LAWS OF THE STATE OF

PRINT NAME: TYLER J. MCLEETE

7/4/17

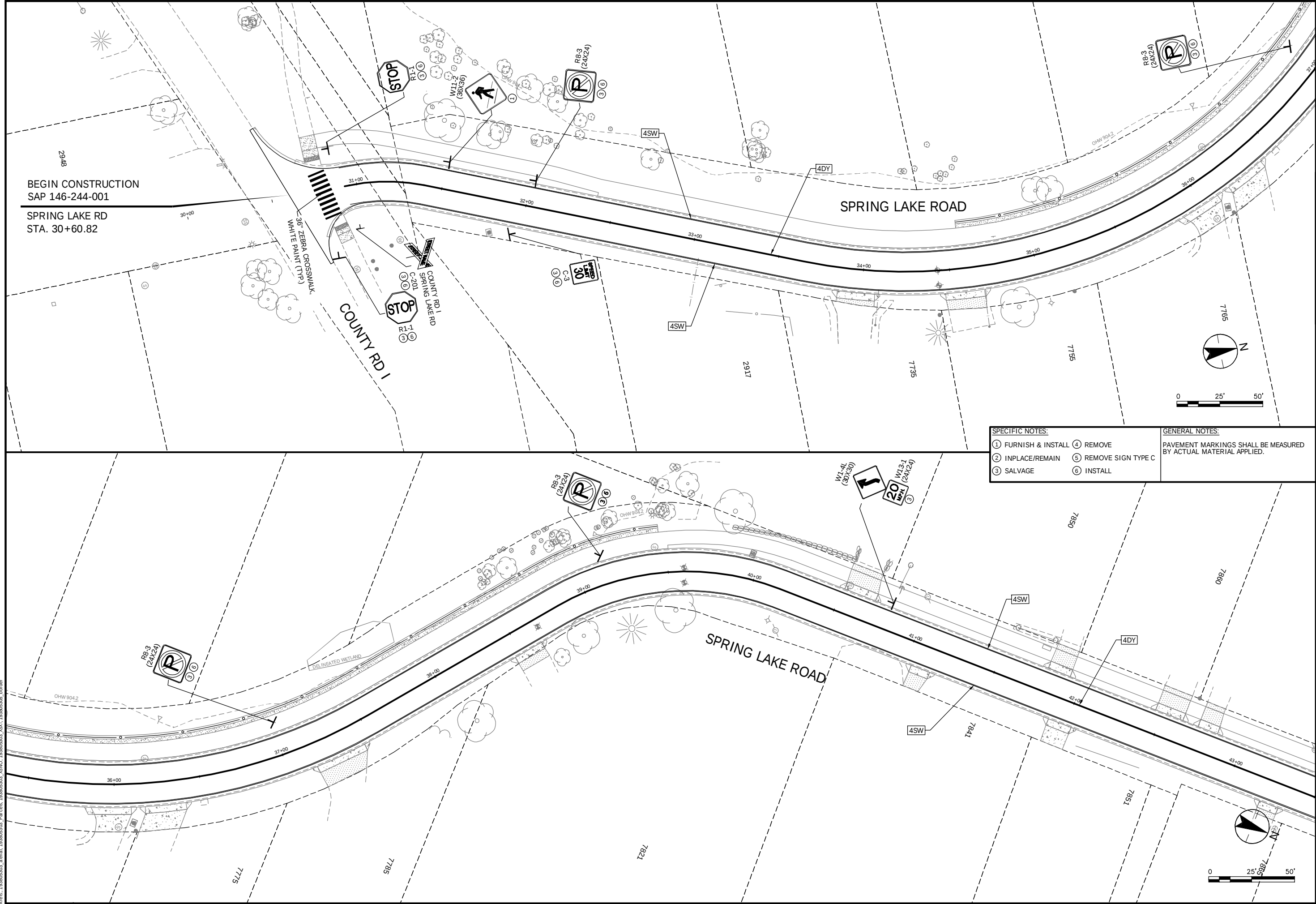
SIGNATURE: _____ DATE: 01/21/2022 LIC. NO. 51774

CITY OF MOUNDS VIEW, MINNESOTA

2022-2023 STREET REHABILITATION PROJECT

SAP 146-244-001

Plot Date: 01/25/2022 - 4:22pm
Drawing name: C:\pw_stn_bh_infra01\dms78001\193805303_1900.dwg



CITY OF MOUNDS VIEW, MINNESOTA

2022-2023 STREET REHABILITATION PROJECT

SAP 14G-244-001

SIGNING & STRIPING PLAN

DATE: 07/26/2022

IC NO. 51724

NO. REVISION DATE

SURVEY BLW

DRAWN XWM/JM/JP

DESIGNED TJM

CHECKED ###

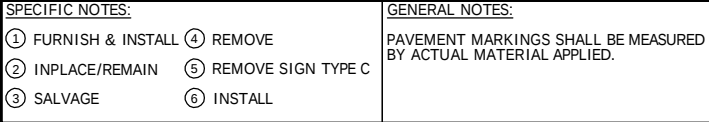
APPROVED ###

PROJ. NO. 193805303

SHEET NUMBER

T9.03

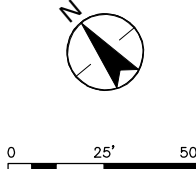
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Xrefs: 193805303_aerial, 193805303_parcels, 193805303_XSNO, 193805303_XSVT, 193805305_border



CITY OF MOUNDS VIEW, MINNESOTA
2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001
SIGNING & STRIPING PLAN

NO	REVISION	DATE
SURVEY	BLW	
DRAWN	XWM/JDP	
DESIGNED	TJM	
CHECKED	####	
APPROVED	####	
PROJ. NO.	193805303	
SHEET NUMBER		
T9.04		

Plot Date: 01/25/2022 - 4:24pm
Drawing name: C:\pw_stn_bh_infra01\dms78001\193805303_E2.01.dwg
Xrefs: 193805303_XSNO, 193805303_XSXT, 193805305_border, 193805303_Parcel

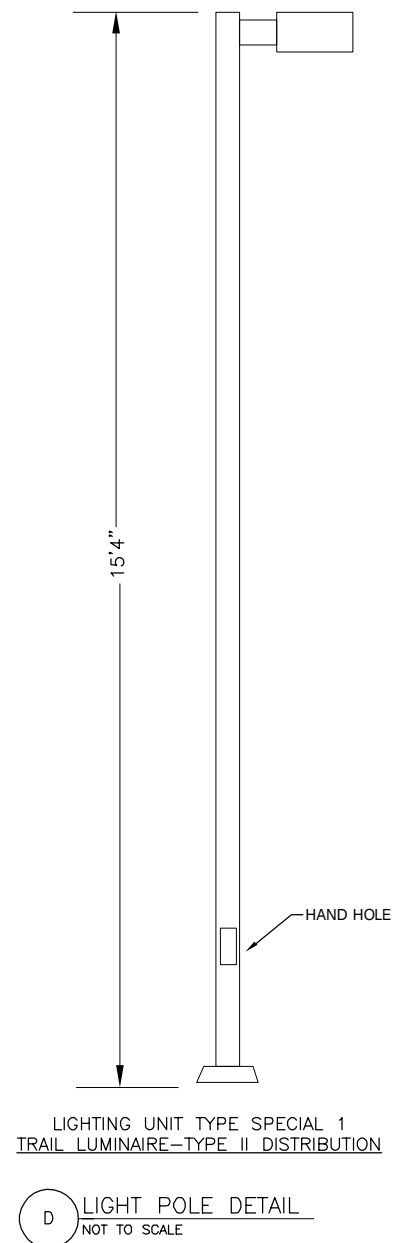
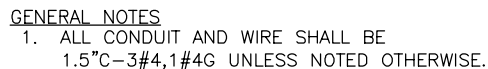


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2022-2023 STREET REHABILITATION PROJECT
SAP 146-244-001

NO	REVISION	DATE
SURVEY		
DRAWN	KEL/MTF	
DESIGNED	KEL/MTF	
CHECKED	KEL/MTF	
APPROVED	MTF	
PROJ. NO.	193805303	
SHEET NUMBER E1.01		

Plot Date: 01/25/2022 - 4:24pm
Drawing name: C:\pw_stn_bh_infra01\dms78001\193805303_E3.01.dwg



NO	REVISION	DATE
SURVEY		
DRAWN	KEL/MTF	
DESIGNED	KEL/MTF	
CHECKED	KEL/MTF	
APPROVED	MTF	
PROJ. NO.	193805303	