EXISTING PLAN SYMBOLS

- PROPERTY LINES/RIGHT-OF-WAY
- UTILITY EASEMENT
- TREE LINE
- SIGN
- DECIDUOUS TREE
- SHRUB
- CONIFEROUS TREE

EXISTING UTILITY SYMBOLS

- FIBER OPTIC LINE
- GAS LINE
- COMMUNICATION LINE
- ELECTRIC POWER LINE
- WATER MAIN
- SANITARY SEWER
- STORM SEWER
- COMMUNICATIONS PEDESTAL
- POWER POLE
- ELECTRIC BOX
- CATCH BASIN
- STORM APRON
- STORM SEWER MANHOLE
- GATE VALVE
- HYDRANT
- SANITARY SEWER MANHOLE

2026 PUBLIC WORKS FACILITY UTILITY EXTENSION PROJECT

CITY OF LINO LAKES, MN

CONSTRUCTION PLAN FOR SANITARY SEWER FORCEMAIN AND WATERMAIN EXTENSION

LOCATED ON MAIN ST FROM ELBE ST TO 1189 MAIN ST

LOCATED ON JANE AVE FROM 7965 JANE AVE TO JAMES ST

LOCATED ON JAMES ST FROM 980 JAMES ST TO MAIN ST



PROJECT LOCATION MAP

GOVERNING SPECIFICATIONS

THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LINO LAKES "GENERAL SPECIFICATIONS AND STANDARD DETAIL PLATES FOR STREET AND UTILITY CONSTRUCTION."

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

THE LATEST EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA'S "STANDARD UTILITIES SPECIFICATION" SHALL APPLY.

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

PLAN SET INDEX

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	GENERAL LAYOUT
3	STATEMENT OF ESTIMATED QUANTITIES
4	TABULATIONS
5-7	MISCELLANEOUS DETAILS
8-10	TEMPORARY TRAFFIC CONTROL PLANS
11-14	REMOVAL PLANS
15-20	SANITARY FORCEMAIN CONSTRUCTION PLANS
21	SANITARY SEWER & WATERMAIN PLANS
22-26	WATERMAIN PLANS
27-30	EROSION CONTROL PLANS

CITY OF LINO LAKES

THIS PLAN SET CONTAINS 30 SHEETS

THIS PLAN SET HAS BEEN PREPARED FOR:

CITY OF LINO LAKES
600 TOWN CENTER PARKWAY
LINO LAKES, MN 55014
(651) 982-2400

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

wsb

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.

PAUL HORNBY, P.E.

DATE: 08/10/2026 LICENSE NUMBER: 23359

EXCAVATION NOTICE SYSTEM

A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.



PROJECT LOCATION

COUNTY: ANOKA

SECT 04, TWP 31N, RNG 22W
SECT 09, TWP 31N, RNG 22W

HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NADV88

N

H: 0 250 500
SCALE IN FEET

UTILITY INFORMATION

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED, "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

GOPHER ONE CALL TICKET NUMBER: 261041904, 261041905, 261041906

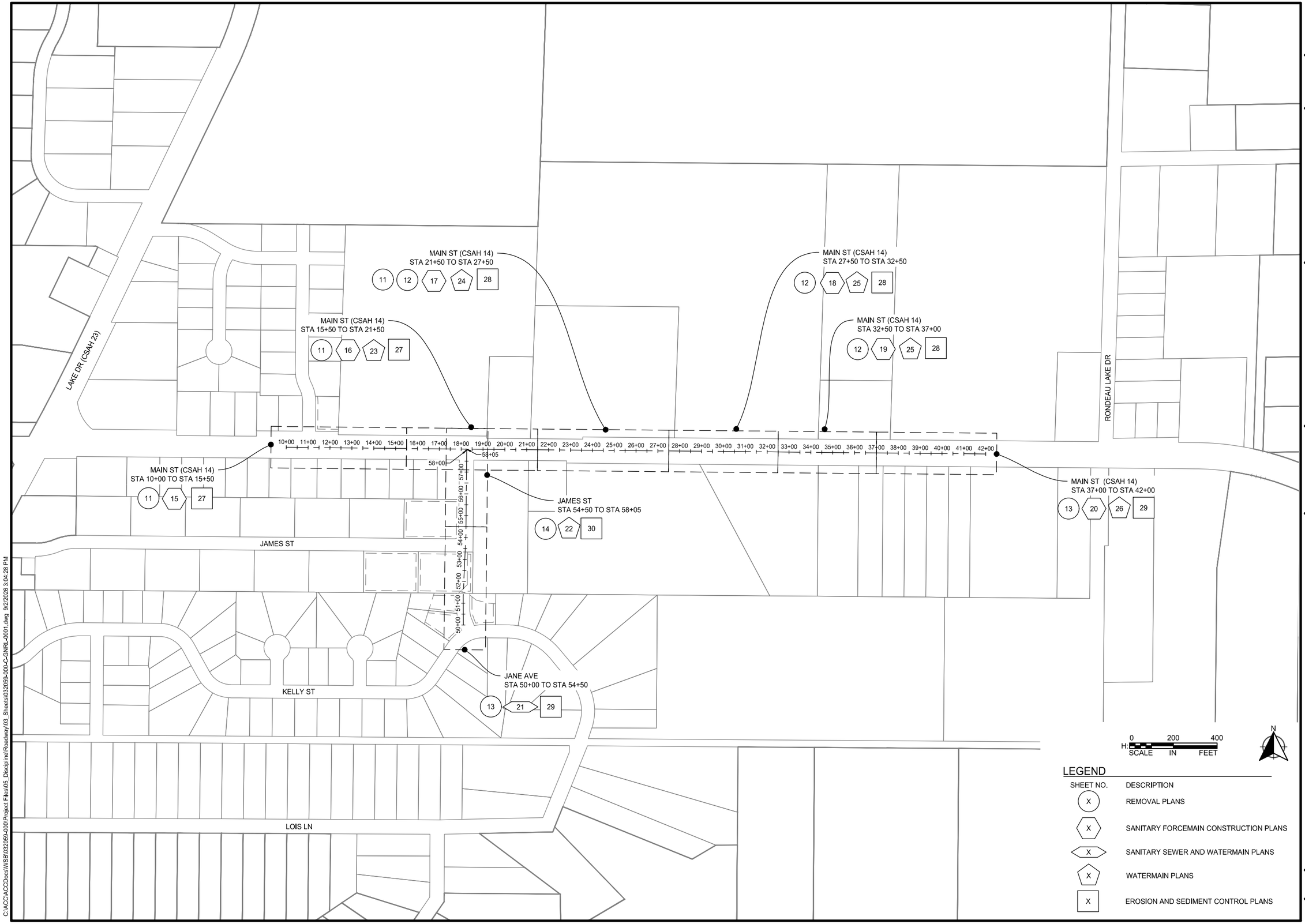
UTILITY COORDINATION MEETING HELD ON: 06/23/2026

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

WSB PROJ. NO. 032059-000

SHEET 1 OF 30

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CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

NO.	DATE	DESCRIPTION

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.

PAUL HORNBY, PE

DATE: 09-10-2026 LIC. NO: 23359

GENERAL LAYOUT

2026 PUBLIC WORKS FACILITY UTILITY EXTENSION PROJECT CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

SHEET
2 OF 30

STATEMENT OF ESTIMATED QUANTITIES

NOTES	TAB	ITEM NO.	MNDOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
A. SURFACE IMPROVEMENTS						
		1	2021.501	MOBILIZATION	LS	1
		2	2101.502	CLEARING	EACH	8
		3	2101.502	GRUBBING	EACH	8
		4	2101.505	CLEARING	ACRE	0.5
		5	2101.505	GRUBBING	ACRE	0.5
		6	2104.503	SALVAGE SIGN	EACH	7
1		7	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	L F	160
		8	2104.503	REMOVE CURB & GUTTER	L F	160
		9	2104.504	REMOVE BITUMINOUS PAVEMENT	S Y	90
1		10	2106.507	EXCAVATION - COMMON	C Y	21
		11	2106.507	EXCAVATION - SUBGRADE	C Y	28
1		12	2106.507	SELECT GRANULAR EMBANKMENT	C Y	28
		13	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	10
		14	2123.61	UTILITY CREW	HOUR	10
		15	2360.509	TYPE SP 12.5 WEARING COURSE MIX (2;C)	TON	16
		16	2531.503	CONCRETE CURB & GUTTER DESIGN B618	L F	160
		17	2554.603	INSTALL SIGN	EACH	7
		18	2563.601	TRAFFIC CONTROL	LS	1
		19	2573.502	STORM DRAIN INLET PROTECTION	EACH	9
		20	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	L F	1687
		21	2574.507	COMMON TOPSOIL BORROW	C Y	260
		22	2574.508	FERTILIZER TYPE 4	LB	50
		23	2575.504	RAPID STABILIZATION METHOD 4	S Y	1887
		24	2575.504	ROLLED EROSION PREVENTION CATEGORY 25	S Y	132
		25	2575.505	SEEDING	ACRE	0.4
		26	2575.523	WATER	MGAL	40
		27	2575.608	SEED WET DITCH	LB	1
		28	2575.608	SEED SOUTHERN BOULEVARD	LB	58
B. SANITARY SEWER IMPROVEMENTS						
		29	2106.601	DEWATERING	LS	1
	A	30	2503.602	CONNECT TO EXISTING MANHOLE (SAN)	EACH	2
	A	31	2503.602	CONNECT TO EXISTING FORCE MAIN	EACH	1
3	A	32	2503.602	4" PIPE PLUG	EACH	1
3	A	33	2503.603	4" PVC PIPE SEWER	L F	20
2	A	34	2503.603	4" HDPE FORCEMAIN	L F	26
2	A	35	2503.603	4" HDPE FORCE MAIN (DIRECTIONAL DRILLED)	L F	2965
	A	36	2503.608	DUCTILE IRON FITTINGS	LB	38
C. WATERMAIN IMPROVEMENTS						
	B	37	2104.503	REMOVE WATER MAIN	L F	2
		38	2106.601	DEWATERING	LS	1
	B	39	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	2
	B	40	2504.602	HYDRANT	EACH	5
	B	41	2504.602	1" CORPORATION STOP	EACH	1
	B	42	2504.602	6" GATE VALVE & BOX	EACH	5
	B	43	2504.602	12" GATE VALVE & BOX	EACH	4
	B	44	2504.602	1" CURB STOP & BOX	EACH	2
	B	45	2504.602	HYDRANT EXTENSION	EACH	2
	B	46	2504.602	SACRIFICIAL ANODE BAG (32 LB)	EACH	5
	B	47	2504.603	1" TYPE K COPPER PIPE	L F	14
	B	48	2504.603	6" WATERMAIN DUCTILE IRON CL 52	L F	24
4	B	49	2504.603	8" PVC WATERMAIN	L F	9
5	B	50	2504.603	12" PVC WATERMAIN	L F	306
5	B	51	2504.603	12" PVC WATERMAIN (DIRECTIONAL DRILLED)	L F	2717
	B	52	2504.603	20" STEEL CASING (JACKED)	L F	68
	B	53	2504.604	4" POLYSTYRENE INSULATION	S Y	8
	B	54	2504.608	DUCTILE IRON FITTINGS	LB	1497

1

NOTES

1.) TO BE USED AS DIRECTED BY THE ENGINEER.
2.) DR-11 (200PSI), DIPS.
3.) SCHEDULE 40.
4.) C900 DR-18.
5.) C900 DR-18, FUSIBLE OR RESTRAINED JOINT PIPE.

BASIS OF QUANTITIES

WATER (TURF ESTABLISHMENT): 0.0224 MGAL/S Y
FERTILIZER TYPE 4: 120 LBS/ACRE
SEED WET DITCH: 20 LBS/ACRE
SEED SOUTHERN SHORTGRASS ROADSIDE: 26 LBS/ACRE

wsb | CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

NO.	DATE	DESCRIPTION
1	09-14-2026	ADDENDUM NO. 1

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.

PAUL HORNBY, PE

DATE: 09-10-2026 LIC. NO: 23359

STATEMENT OF ESTIMATED QUANTITIES

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

SHEET
3 OF 30

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WATERMAIN TABULATION													B
	STRUCTURE							CIRCULAR					
STREET	CONNECT TO EXISTING WATER MAIN EACH	HYDRANT EACH	HYDRANT EXTENSION EACH	1" CORPORATION STOP EACH	1" CURB STOP & BOX EACH	6" GATE VALE & BOX EACH	12" GATE VALVE & BOX EACH	1" TYPE K COPPER PIPE L F	6" WATERMAIN DUCTILE IRON CL 52 L F	8" PVC WATERMAIN L F	12" PVC WATERMAIN L F	12" PVC WATERMAIN (DIRECTIONAL DRILLED) L F	DUCTILE IRON FITTINGS LB
MAIN ST (CSAH 14)	1	5	2		1	5	3	5	24		203	2173	842
JANE AVE	1						1				34		323
JAMES ST				1	1			9		9	69	544	332
TABULATION TOTAL:	**2**	**5**	**2**	**1**	**2**	**5**	**4**	**14**	**24**	**9**	**306**	**2717**	**1497**

WATERMAIN TABULATION NOTES:

1.) ALL DUCTILE IRON FITTINGS SHALL BE C153 (COMPACT).

SANITARY TABULATION							A
	STRUCTURE			CIRCULAR			
STREET	CONNECT TO EXISTING MANHOLES (SAN) EACH	CONNECT TO EXISTING FORCE MAIN EACH	STRUCTURE NO.	4" HDPE FORCEMAIN L F	4" HDPE FORCE MAIN DIRECTIONAL DRILLED L F	4" PVC PIPE SEWER L F	DUCTILE IRON FITTINGS LB
ELBE ST	1	1	6016	26	2965		38
JANE AVE	1		1471			20	
JAMES ST			-				
TABULATION TOTAL:	**2**	**1**	**-**	**26**	**2965**	**20**	**38**

SANITARY SEWER TABULATION NOTES:

1.) ALL DUCTILE IRON FITTINGS SHALL BE C153 (COMPACT).
2.) LENGTH OF PIPE ARE TO CENTER OF STRUCTURE.

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CITY OF LINO LAKES

SCALE: AS SHOWN
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PLAN BY: JLS
CHECK BY: PTH

REVISIONS

NO.	DATE	DESCRIPTION

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.

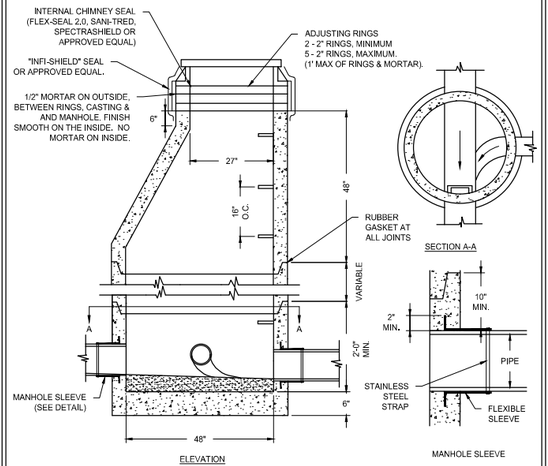
PAUL HORNBY, PE
LIC. NO: 23359
DATE: 09-10-2026

TABULATIONS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

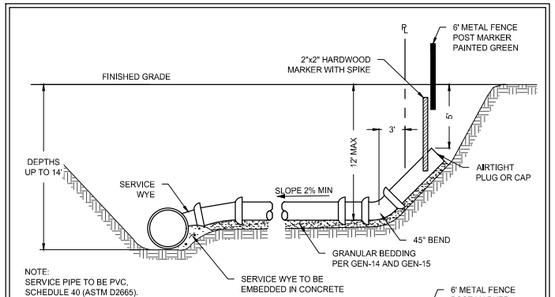
WSB PROJECT NO.
032059-000

SHEET
4 OF 30



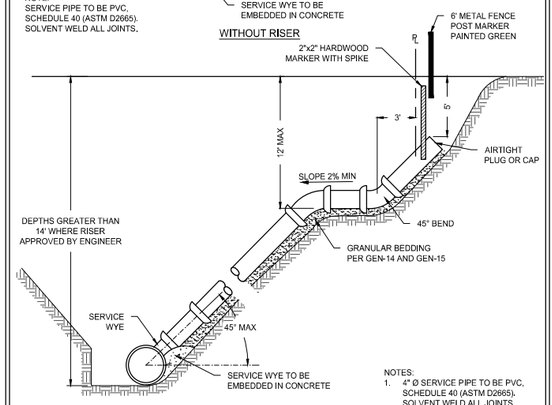
NOTES:
1. INTERNAL CHIMNEY SEAL (FLEX-SEAL 2.0, SANI-TRED, SPECTRASHIELD OR APPROVED EQUAL) ALL JOINTS.
2. A URETHANE OR BUTYL SEAL SHALL BE USED TO SEAL THE TOP RING TO THE CASTING AND THE BOTTOM RING TO THE CONE OR TOP SLAB.
3. NO WOOD SHALL BE USED FOR ADJUSTING CASTING; CEMENT MORTAR ONLY. ADJUSTING RINGS MAY BE CONCRETE OR PLASTIC.
4. CAST IRON MANHOLE FRAME & COVER AS PER SPECIFICATIONS.
5. MANHOLE STEPS SHALL BE CAST IRON, ALUMINUM OR STEEL REINFORCED PLASTIC, PER ASTM C478, STEP LOCATION SHALL BE AS NOTED IN THE SPECIFICATIONS.
6. PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS AND LUBRICANT EXCEPT AS OTHERWISE SPECIFIED. A 12" OR 18" BARREL SECTION SHALL BE INSTALLED UNDER THE CONE WHENEVER POSSIBLE.
7. PIPE CONNECTIONS TO MANHOLE SHALL BE MADE WATER TIGHT BY CAST INPLACE RUBBER BOOT AND CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH.
8. PROTECT MANHOLE FROM RAINWATER, INFILTRATION AND SEDIMENT DURING CONSTRUCTION BY GRADING, SEALING AND COVERING.

CITY OF LINO LAKES	SANITARY SEWER MANHOLE TYPE 301 (PIPES 27" OR LESS)	APRIL 2026
		SAN-1



NOTE:
SERVICE PIPE TO BE PVC, SCHEDULE 40 (ASTM D2665). SOLVENT WELD ALL JOINTS.

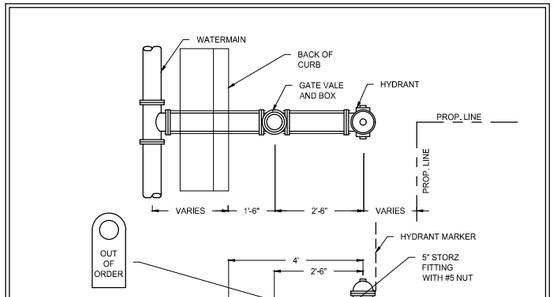
WITHOUT RISER



WITH RISER

NOTES:
1. 4" Ø SERVICE PIPE TO BE PVC, SCHEDULE 40 (ASTM D2665). SOLVENT WELD ALL JOINTS.
2. 6" Ø PIPE TO BE SDR-26

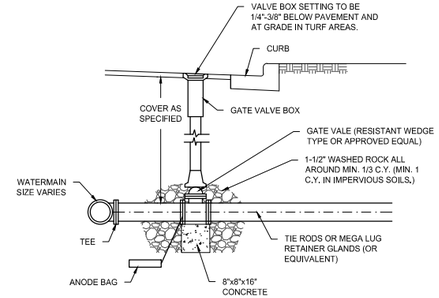
CITY OF LINO LAKES	SANITARY SEWER SERVICE	JANUARY 2024
		SAN-6



NOTE:
STAINLESS STEEL BOLTS REQUIRED ON ALL WATERMAIN FITTINGS.

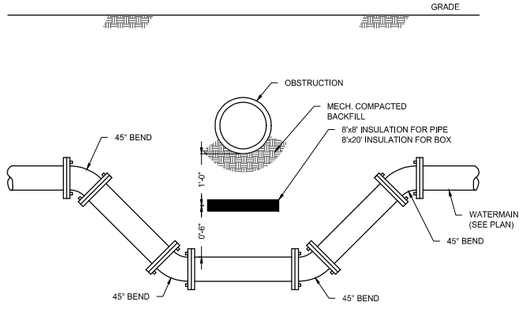
NOTES:
1. ALL FITTINGS SHALL BE MECHANICAL JOINTS.
2. MEGALUG OPTION PERMITTED UPON CITY REVIEW.
3. HYDRANTS SHALL HAVE 16" BREAKAWAY SECTION.
4. NO EXTENSIONS ARE ALLOWED.
5. GATE VALVE SHALL MEET ALL REQUIREMENTS OF WAT-2.
6. VENTED CAP.
7. HYDRANT TO BE INSTALLED WITH "OUT OF ORDER" TAG AND MARKER IN PLACE.
8. PLACE ANODE BAG MINIMUM 5 FEET HORIZONTAL AND 1.5 FEET MINIMUM BELOW WATERMAIN.

CITY OF LINO LAKES	TYPICAL HYDRANT DETAILS (VALVE IN BOULEVARD)	JANUARY 2026
		WAT-1



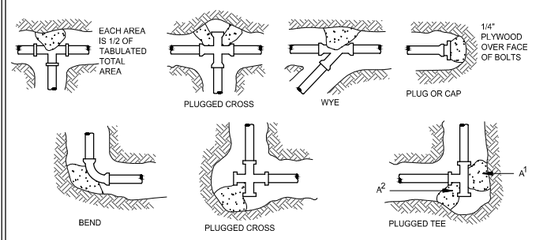
NOTES:
1. GATE VALVES SHOULD BE USED ON 6" THROUGH 16" WATERMAIN.
2. VALVE BOX INSERTS ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.
3. VALVE BOXES SHALL BE INSTALLED PLUMB AND SHALL ALLOW A 4" P.V.C. PIPE TO PASS ENTIRELY OVER THE GATE VALVE NUT AFTER INSTALLATION IS COMPLETE.
4. ALL VALVES SHALL BE TIED WITH 3/4" THREADED TIE RODS TO THE MAIN, MEGALUGS MAY BE USED IN LIEU OF TIE RODS.
5. THE INITIAL AND FINAL RAISING OF VALVE BOXES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
6. VALVE BOX ADAPTOR SHALL BE INSTALLED ON TOP OF GATE VALVE.
7. STAINLESS STEEL BOLTS REQUIRED ON ALL WATERMAIN FITTINGS.
8. PLACE ANODE BAG MINIMUM 5 FEET HORIZONTAL AND 1.5 FEET MINIMUM BELOW WATERMAIN.

CITY OF LINO LAKES	GATE VALVE AND BOX INSTALLATION	FEBRUARY 2020
		WAT-2



NOTES:
1. TIE ALL JOINTS WITH MEGALUGS (8 REQ.).
2. STAINLESS STEEL BOLTS REQUIRED ON ALL WATERMAIN FITTINGS.

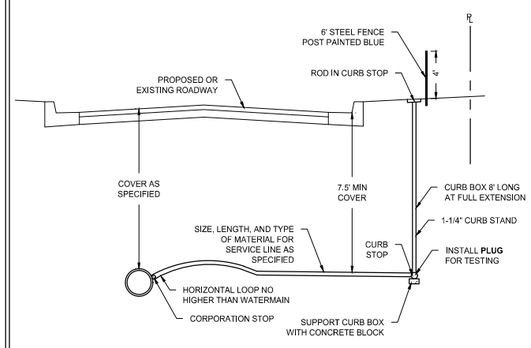
CITY OF LINO LAKES	WATERMAIN LOWERING	APRIL 2026
		WAT-3



NOMINAL FITTING SIZE, INCHES	TEE, WYE, PLUG OR CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22-1/2° BEND	11-1/4° BEND
			A^1	A^2			
4	1.0	1.4	1.9	1.4	1.0	-	-
6	2.1	3.0	4.3	3.0	1.6	1.0	-
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.6	1.2
12	8.5	12.0	17.0	12.0	6.6	3.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.8
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8

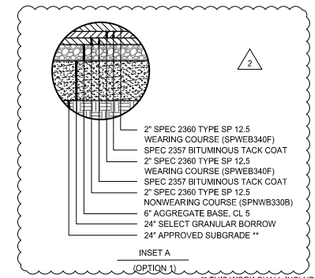
1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. REQUIRED BEARING AREAS AT FITTING SHALL BE AS NOTED ABOVE, UNLESS INDICATED OTHERWISE.
4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON THE PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD PLATE.
5. ABOVE BEARING AREAS BASED ON TEST PRESSURES OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 LBS. PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150) X (2000/SOIL BEARING STRESS) X (TABLE VALUE).

CITY OF LINO LAKES	DUCTILE IRON PIPE REACTION BLOCKING (FOR BENDS)	MAY 2013
		WAT-4



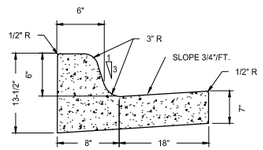
NOTES:
1. CURB BOXES INSTALLED IN AREAS WHERE BOULEVARD IS TO BE CUT AT A LATER DATE SHALL BE INSTALLED AT DEPTH REQUIRED. CURB BOX EXTENSION FOR BOXES EXCEEDING 7.5' IN LENGTH ARE TO BE BID AT CONTRACT PRICE AND SHALL INCLUDE STACK COUPLINGS, CONNECTIONS, ETC.
2. CURB BOXES LOCATED IN DRIVEWAYS OR PARKING LOTS SHALL UTILIZE THE FORD MINNEAPOLIS PATTERN CURB BOXES A-1 OR CITY APPROVED EQUIVALENT.
3. CORP. STOPS SHALL BE MUELLER H-15028N AND CURB STOPS SHALL BE MUELLER H-1504-1N OR CITY APPROVED EQUIVALENT.
4. WATER SERVICES SHALL BE TYPE K COPPER - 1" DIA. MIN.
5. MAINTAIN 18" VERTICAL & 36" HORIZONTAL SEPARATION BETWEEN SEWER & WATER SERVICES.
6. WATER SERVICE IS REQUIRED TO BE UPSTREAM OF SANITARY SEWER.
7. CURB STOPS SHALL HAVE INTERNAL OPERATING RODS TO FINISHED GRADE. OPERATING RODS NEED TO BE PINNED AND CONNECT TO THE CORP.
8. CURB STOPS LOCATED IN PAVED AREAS SHALL BE COVERED WITH METER BOX COVER (FORD A-1 OR APPROVED EQUAL).
9. A "N" SHALL BE STAMPED INTO THE CURB ABOVE THE WATER SERVICE FOR FUTURE LOCATING PURPOSES.
10. ALL FITTINGS ARE REQUIRED TO BE FLARE FITTINGS ON 1" COPPER.
11. ALL CORP STOPS ARE TO BE TAPPED IN TO THE MAIN, EXCEPT FOR EXISTING 6" DIP WHERE SADDLES WILL BE REQUIRED.

CITY OF LINO LAKES	WATER SERVICE DETAIL	JANUARY 2026
		WAT-5



INSET A
(OPTION 1)

** THIS WORK SHALL INCLUDE OVER TURNING THE SOIL IN WET CONDITIONS TO DRY SUBGRADE MATERIAL AND PASSING ROLL TEST (INCIDENTAL).



Mn/DOT B 618

CY CONCRETE PER LIN. FT. = .0582
LIN. FT. PER CY OF CONCRETE = 17.2

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wsb | CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

NO.	DATE	DESCRIPTION
1	09-14-2026	ADDENDUM NO. 1
2	10-01-2026	POST BID REVISION (ACHD)

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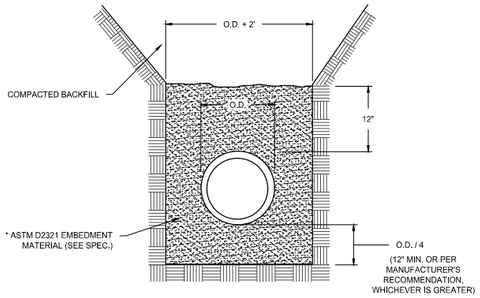
PAUL HORNBY, PE
DATE: 08-10-2026 LIC. NO: 23359

GENERAL DETAILS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

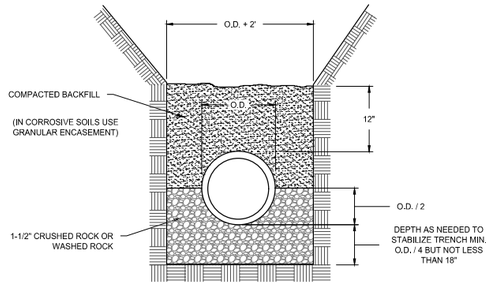
SHEET
5 OF 30



PIPE INSTALLATION IN ACCORDANCE WITH ASTM D2321, TABLE 2.

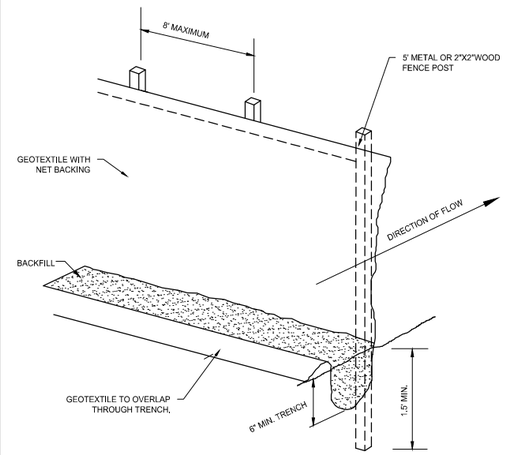
* EMBEDMENT MATERIAL SHALL CONFORM TO ASTM D2321, TABLE 1.

CITY OF LINO LAKES	GRANULAR MATERIAL BEDDING METHOD (FOR PVC PIPE)	JANUARY 2024
		GEN-14



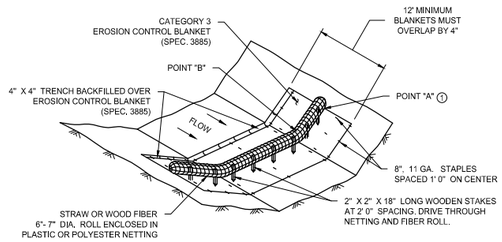
NOTE:
STABILIZATION OR DEWATERING OF TRENCH IS INCIDENTAL TO THE PIPE INSTALLATION UNLESS A SPECIFIC BID ITEM IS PROVIDED.

CITY OF LINO LAKES	SPECIAL FOUNDATION FOR STABILIZING OR DEWATERING OF TRENCH	FEBRUARY 2020
		GEN-15



NOTES:
1. SILT FENCE SHALL CONFORM TO MNDOT 3886, (GTF 100 OR EQUAL)
2. FENCING SHALL BE PLACED ALONG CONTOURS OR AS DIRECTED BY ENGINEER.

CITY OF LINO LAKES	SILT FENCE	MAY 2013
		GEN-16

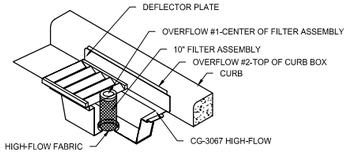


SEDIMENT CONTROL LOG
BLANKET SYSTEM
(TYPE 3 SPEC. 3889)

MAINTENANCE:
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE BIOROLL DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE AND THE BARRIER STILL BE NECESSARY. THE BIOROLL SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 1/2 HEIGHT OF THE BARRIER, OR AS DIRECTED BY THE ENGINEER.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
5. ALL MATERIAL & INSTALLATION MUST CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE MNDOT CONSTRUCTION SPECIFICATIONS SECTION 3889.

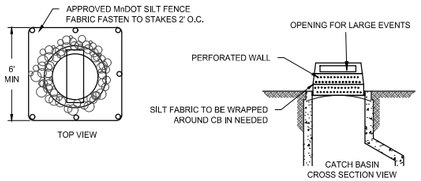
CITY OF LINO LAKES	SEDIMENT CONTROL LOG DITCH	APRIL 2026
		GEN-18

NO SCALE



WIMCO MODEL # CG-3067 HIGH-FLOW
INLET PROTECTION OR APPROVED EQUAL

CURB AND GUTTER INLET PROTECTION



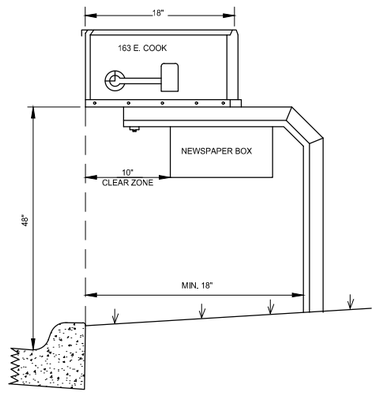
INFRASAFE SEDIMENT CONTROL BARRIER ROYAL ENVIRONMENTAL SERVICES OR AN ENGINEER APPROVED EQUAL

REAR YARD INLET PROTECTION

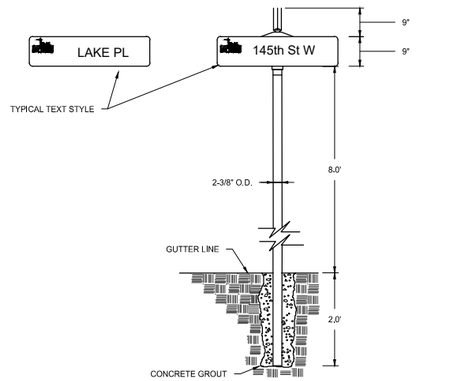
CITY OF LINO LAKES	INLET PROTECTION	MAY 2013
		GEN-19

NOTES:
DIMENSIONS AS PER U.S. POSTAL SERVICE

ADDRESS MUST BE ON SIDE OF BOX FROM WHICH CARRIER APPROACHES IN LETTERS ABOUT ONE INCH HIGH (OR ON FRONT WHERE BOXES ARE GROUPED).



CITY OF LINO LAKES	MAILBOX	MAY 2013
		GEN-20



STREET SIGN SPECIFICATIONS

MATERIAL:
ALUMINUM BLANKS SHALL BE CONSTRUCTED OF 5052-H38 ALLOY, HAVE A GAUGE OF .080, BE NOTCHED FOR USE WITH E-450 BRACKETS, HAVE HOLES PUNCHED AT EACH END FOR BOLTING TOGETHER AND BE 9" AS REQUIRED. BLANKS SHALL HAVE 1 1/2" ROUND CORNERS.

PLATES SHALL BE COVERED WITH ENGINEERING GRADE REFLECTIVE SHEETING, WHITE ON GREEN. (PRIVATE STREETS SHALL BE WHITE ON BROWN) LETTERING SHALL BE SERIES C, 6" U.C. AND 4.5" L.C.

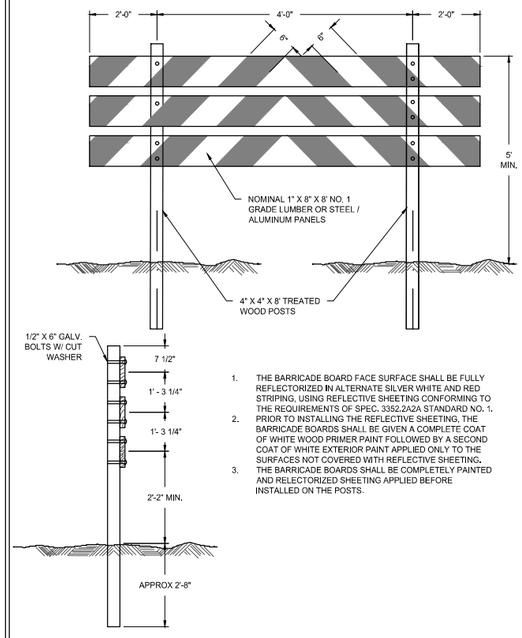
E-450 BRACKETS ARE TO BE ALUMINUM DESIGNED FOR USING 9" PLATES AS REQUIRED.

TUBULAR POSTS SPECIFICATIONS

TUBULAR POSTS USED FOR MOUNTING STREET NAME/TRAFFIC CONTROL SIGNS, SHALL VARY IN LENGTH, SHALL BE 2-3/8" O.D., SHALL BE GALVINIZED AND SHALL HAVE A WEIGHT OF 2LB./FT.

ABBREVIATIONS
Ave FOR AVENUE
Blvd FOR BOULEVARD
Cir FOR CIRCLE
Ct FOR COURT
Dr FOR DRIVE
E FOR EAST
Pkwy FOR PARKWAY
Pl FOR PLACE
St FOR STREET
Ter FOR TERRACE
Trl FOR TRAIL
W FOR WEST

CITY OF LINO LAKES	STREET SIGN	FEBRUARY 2020
		GEN-23



1. THE BARRICADE BOARD FACE SURFACE SHALL BE FULLY REFLECTORIZED IN ALTERNATE SILVER WHITE AND RED STRIPING, USING REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SPEC. 3352.2A2A STANDARD NO. 1. PRIOR TO INSTALLING THE REFLECTIVE SHEETING, THE BARRICADE BOARDS SHALL BE GIVEN A COMPLETE COAT OF WHITE WOOD PRIMER PAINT FOLLOWED BY A SECOND COAT OF WHITE EXTERIOR PAINT APPLIED ONLY TO THE SURFACES NOT COVERED WITH REFLECTIVE SHEETING.
2. THE BARRICADE BOARDS SHALL BE COMPLETELY PAINTED AND RELECTORIZED SHEETING APPLIED BEFORE INSTALLED ON THE POSTS.

CITY OF LINO LAKES	PERMANENT BARRICADE	MAY 2013
		GEN-24

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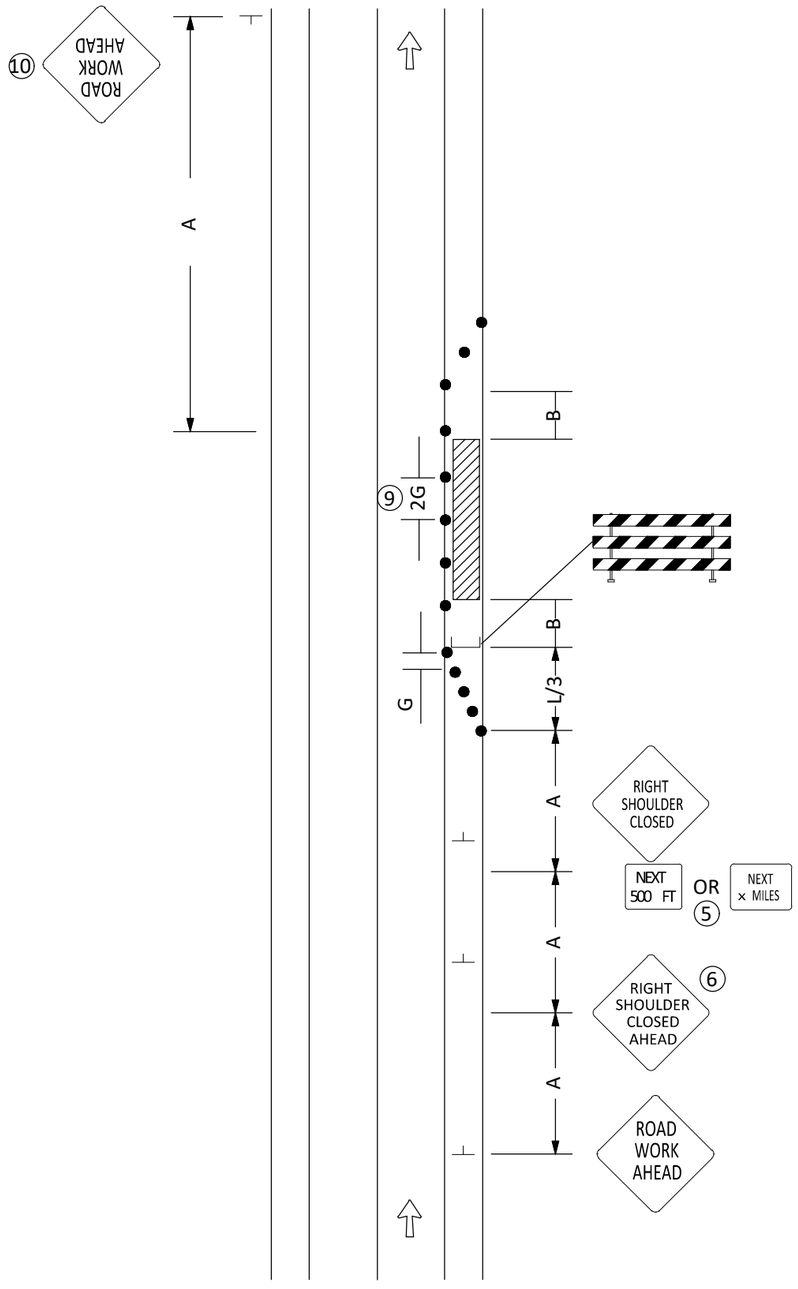
PAUL HORNBY, PE
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SHOULDER/PARKING LANE CLOSURE

POSTED SPEED LIMIT PRIOR TO WORK STARTING	SPACING OF CHANNELIZING DEVICES (G)	SPACING OF ADVANCE WARNING SIGNS (A)	DECISION SIGHT DISTANCE	TAPER LENGTH (L)	SHIFTING TAPER (L/2)	TYPICAL SHOULDER TAPER (L/3)	BUFFER SPACE (B)
(MPH)	FEET	FEET	FEET	FEET	FEET	FEET	FEET
0 - 30	25	100	550	200	100	75	200
35 - 40		325	700	325	175	125	305
45 - 50	50	600	900	600	300	200	425
55		750	1200	700	350	250	500
60 - 65		1000	1400	800	400	275	650
70 - 75		1200	1600	900	450	300	820

ALL DISTANCES BASED ON 12 FT LANE WIDTHS.

DESIGNER NOTES:
TYPICAL APPLICATION FOR REFERENCE ONLY, NOT TO BE INSERTED INTO PLAN.

1. INSERT SPACING CHART DISTANCES INTO LAYOUTS.
2. CONSIDER THE INSTALLATION OF A PCMS AND/OR G20-X2 OR SPECIAL SIGN IF CONGESTION IS EXPECTED, IF ADVANCE SIGNING TO DIVERT TRAFFIC IS NEEDED, OR OTHER CONDITIONS DETERMINED BY THE ENGINEER.
3. CONSIDER THE INSTALLATION OF A PCMS AND/OR G20-X1 SIGN (MODIFIED) OR G20-X2 SIGN FOR SEVEN DAY ADVANCE WARNING OF RESTRICTION.
4. FOR ANY EXCAVATION OR DROP-OFF IN EXCESS OF 12 IN., SEE THE MINNESOTA DEPARTMENT OF TRANSPORTATION "TEMPORARY BARRIER GUIDANCE MANUAL".

(5) WHEN PAVED SHOULDERS WITH A WIDTH OF 8 FEET OR MORE ARE CLOSED ON FREEWAYS AND EXPRESSWAYS A RIGHT OR LEFT SHOULDER CLOSED (W21-5a) SIGN SHOULD BE USED. WHERE THE DOWNSTREAM END OF THE SHOULDER CLOSURE EXTENDS BEYOND THE DISTANCE THAT CAN BE PERCEIVED BY ROAD USERS, A SUPPLEMENTARY PLAQUE BEARING THE MESSAGE NEXT XX FEET (W16-4P) OR NEXT XX MILES (W7-3AP) SHOULD BE PLACED BELOW THE SHOULDER CLOSED (W21-5a) SIGN.

(6) WHEN AN IMPROVED SHOULDER IS CLOSED ON A HIGH-SPEED ROADWAY ROAD USERS SHOULD BE GIVEN AMPLE ADVANCE WARNING THAT SHOULDERS ARE CLOSED FOR USE AS REFUGE AREA THROUGHOUT A SPECIFIED LENGTH OF THE APPROACHING TTC ZONE. THE SIGN(S) SHOULD READ SHOULDER CLOSED (W21-5b) WITH DISTANCES INDICATED.

(7) WHERE PARKING IS PERMITTED, CONTACT APPROPRIATE ROAD AUTHORITY TO COORDINATE INSTALLATION OF NO PARKING SIGN. NO PARKING SIGNS SHOULD BE INSTALLED 24 HOURS IN ADVANCE OF RESTRICTION. COVER ANY EXISTING/ CONFLICTING PARKING SIGNS.

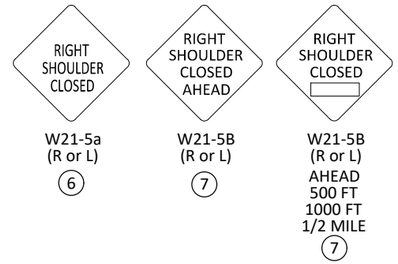
8. IF PARKING LANE IS NORMALLY OPEN TO VEHICLE TRAVEL DURING THE TIME OF DAY THIS CLOSURE WILL BE IN EFFECT, THE LANE SHALL BE CONSIDERED A TRAVELED LANE AND NOT A PARKING LANE. THE APPROPRIATE LAYOUT SHALL THEN BE USED TO PROVIDE TRAFFIC CONTROL FOR THE LANE CLOSURE.

(9) USE G SPACING WHERE PARKING IS BEING RESTRICTED.

(10) USE ONLY ON TWO-LANE, TWO-WAY ROADWAYS.

11. MIRROR THIS LAYOUT FOR A LEFT SHOULDER CLOSURE ON A ONE WAY ROAD.

● = DRUM
┼ = SIGN
] = TYPE III BARRICADE



UPDATED 02/05/2024 LONG TERM tYPICAL APPLICATION 12

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SCALE: AS SHOWN
DESIGN BY: PTH
PLAN BY: JLS
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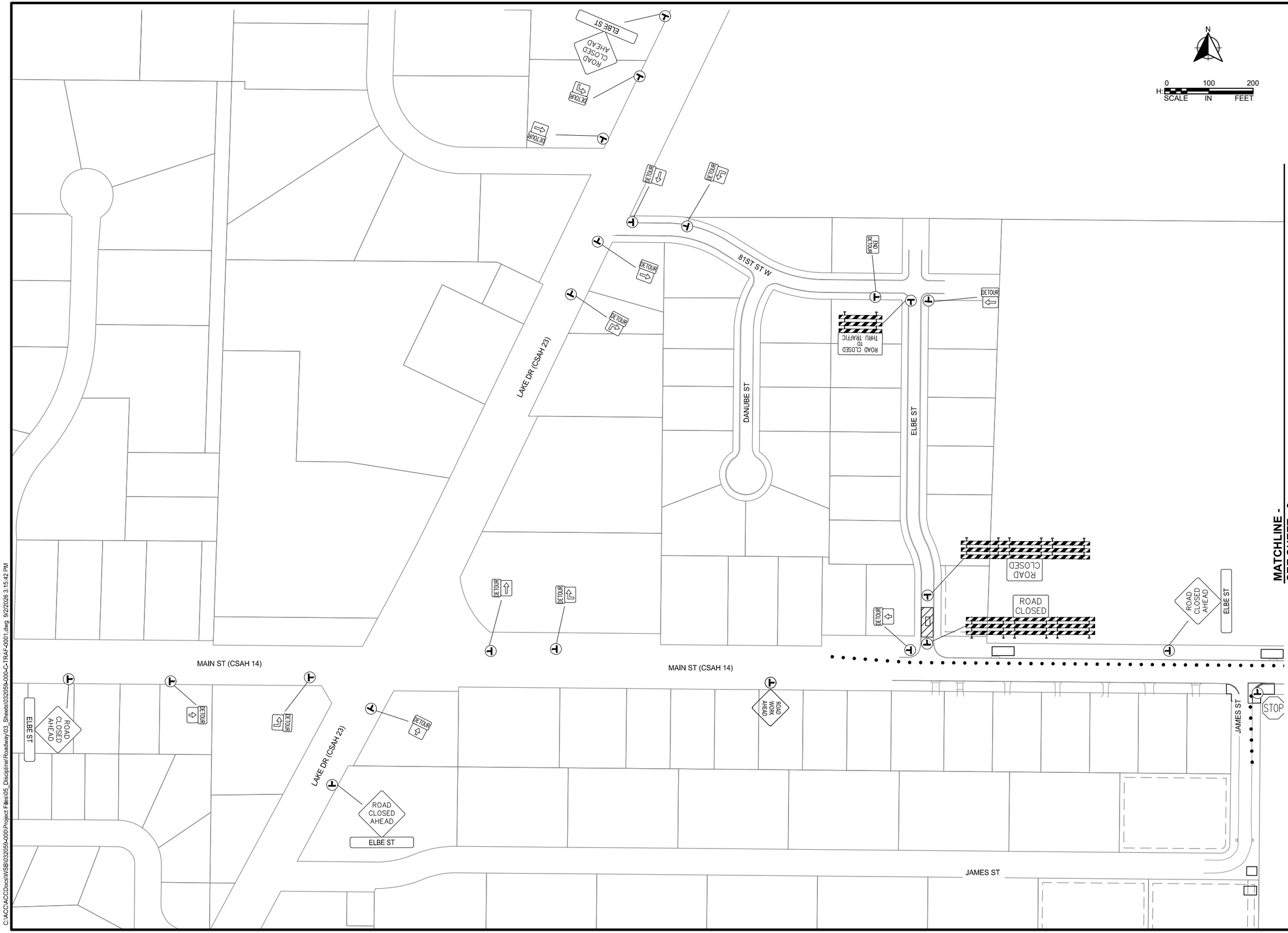
PAUL HORNBY, PE
DATE: 08-10-2026
LIC. NO: 23359

MISCELLANEOUS DETAILS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

SHEET
7 OF 30



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CITY OF LINO LAKES

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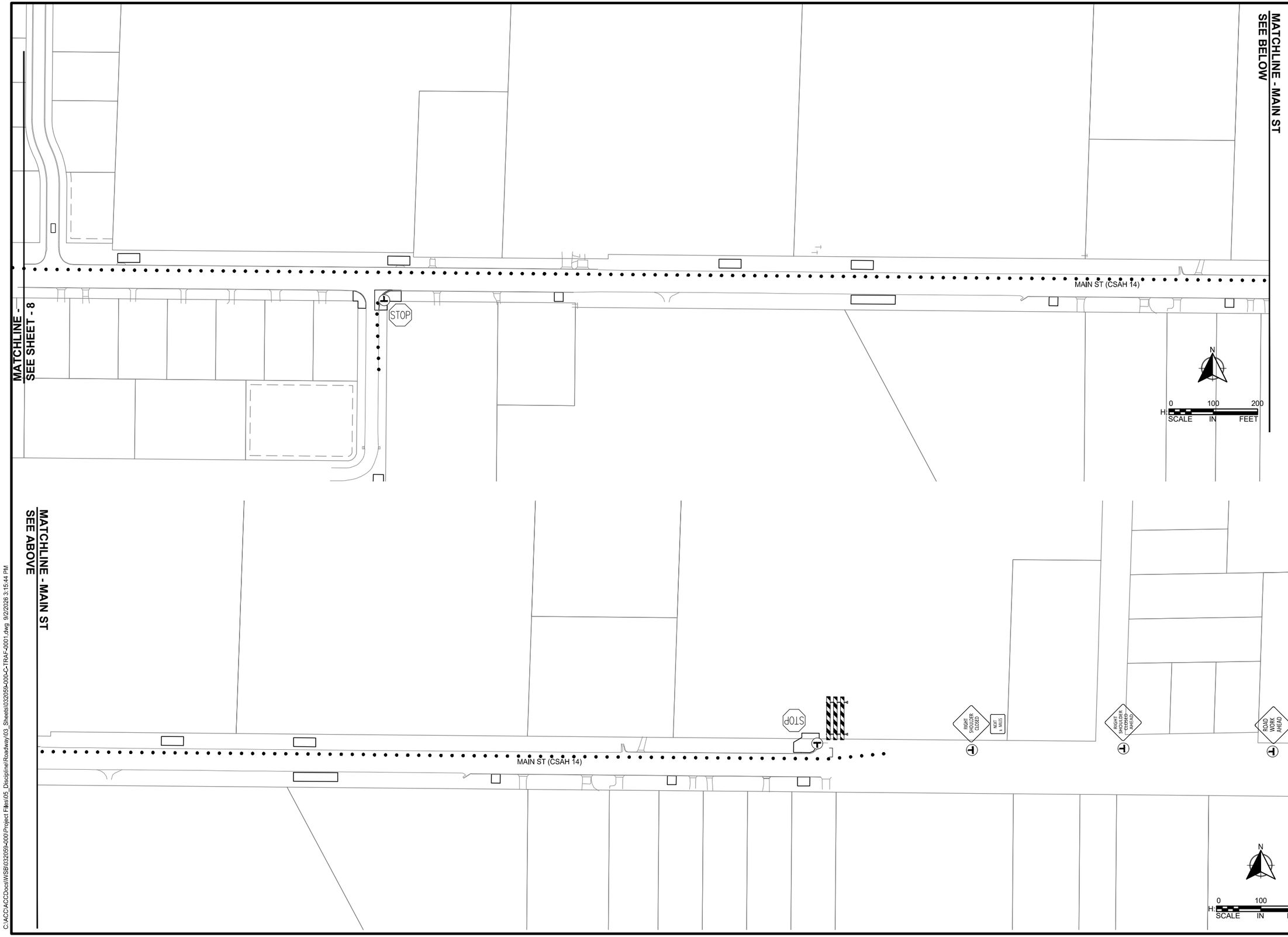
DATE: 09-10-2026 LIC. NO: 23359

TEMPORARY TRAFFIC CONTROL PLANS

2026 PUBLIC WORKS FACILITY UTILITY EXTENSION PROJECT CITY OF LINO LAKES, MN

WSB PROJECT NO. 032059-000

SHEET 8 OF 30



wsb

CITY OF LINO LAKES

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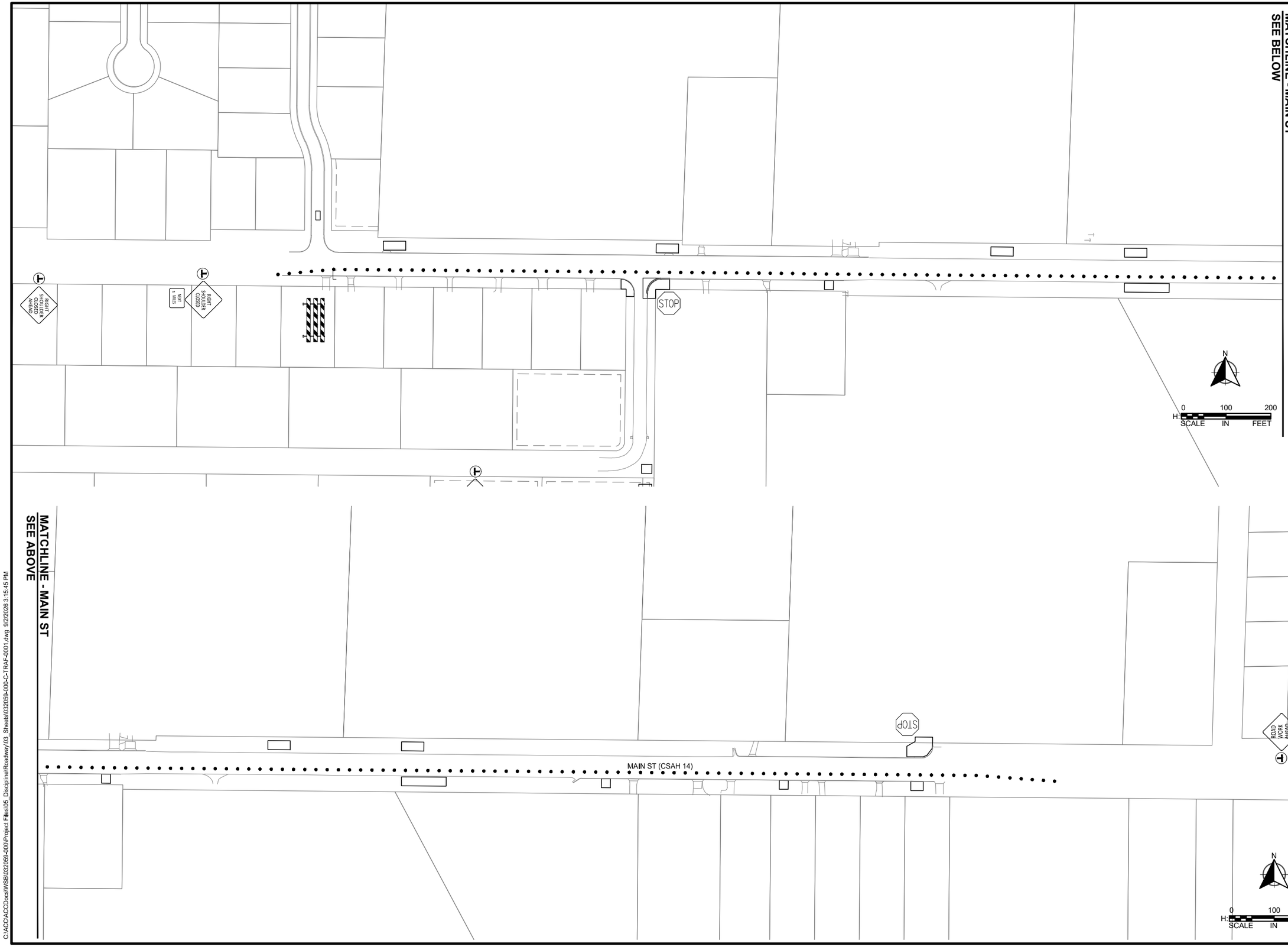
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9 OF 30

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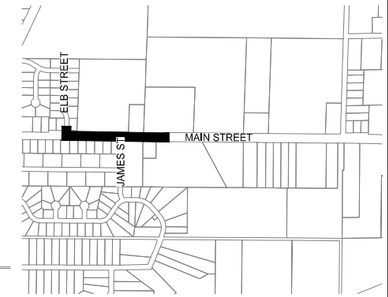
SHEET
10 OF 30

MAIN ST (CSAH 14)

8011
8010
60' R/W
ELBE ST
ABANDONED
PROTECT R/W SIGN AND MONUMENT (INCIDENTAL)
PROTECT CURB AND CONCRETE APRON (INCIDENTAL)
125' R/W
110' R/W
110' R/W
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
926
934
942
950
952
966
MATCHLINE STA - 17+00
SEE BELOW
PROTECT CURB AND CONCRETE APRON (INCIDENTAL)
966
989
1001
110' R/W
17+00
18+00
19+00
20+00
21+00
22+00
23+00
58.00
974
990
990
1000
PROTECT CURB AND PAVEMENT (INCIDENTAL)
PROTECT CURB AND PAVEMENT (INCIDENTAL)
SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
REMOVE BITUMINOUS PAVEMENT
REMOVE CURB & GUTTER
66' R/W
57+00
MATCHLINE STA - 17+00
SEE ABOVE
JAMES ST
SEE SHEET - 14
MATCHLINE STA - 23+50
SEE SHEET - 12

MAIN ST (CSAH 14)

LOCATION



N
0 30 60
SCALE IN FEET

LEGEND

- CONSTRUCTION LIMITS
- SALVAGE SIGN
- CLEAR AND GRUB TREE
- REMOVE BITUMINOUS PAVEMENT
- CLEAR AND GRUB (BY ACRE)
- REMOVE CURB AND GUTTER

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CITY OF LINO LAKES

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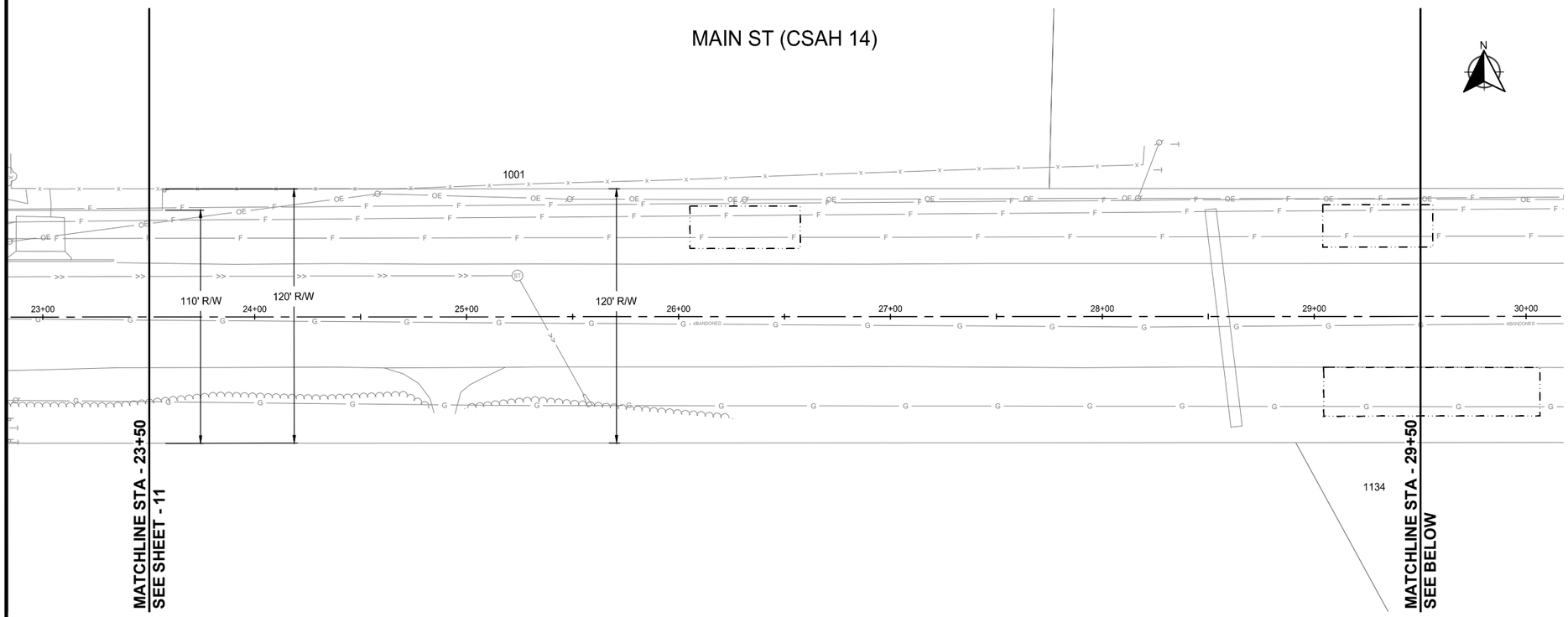
REMOVAL PLANS

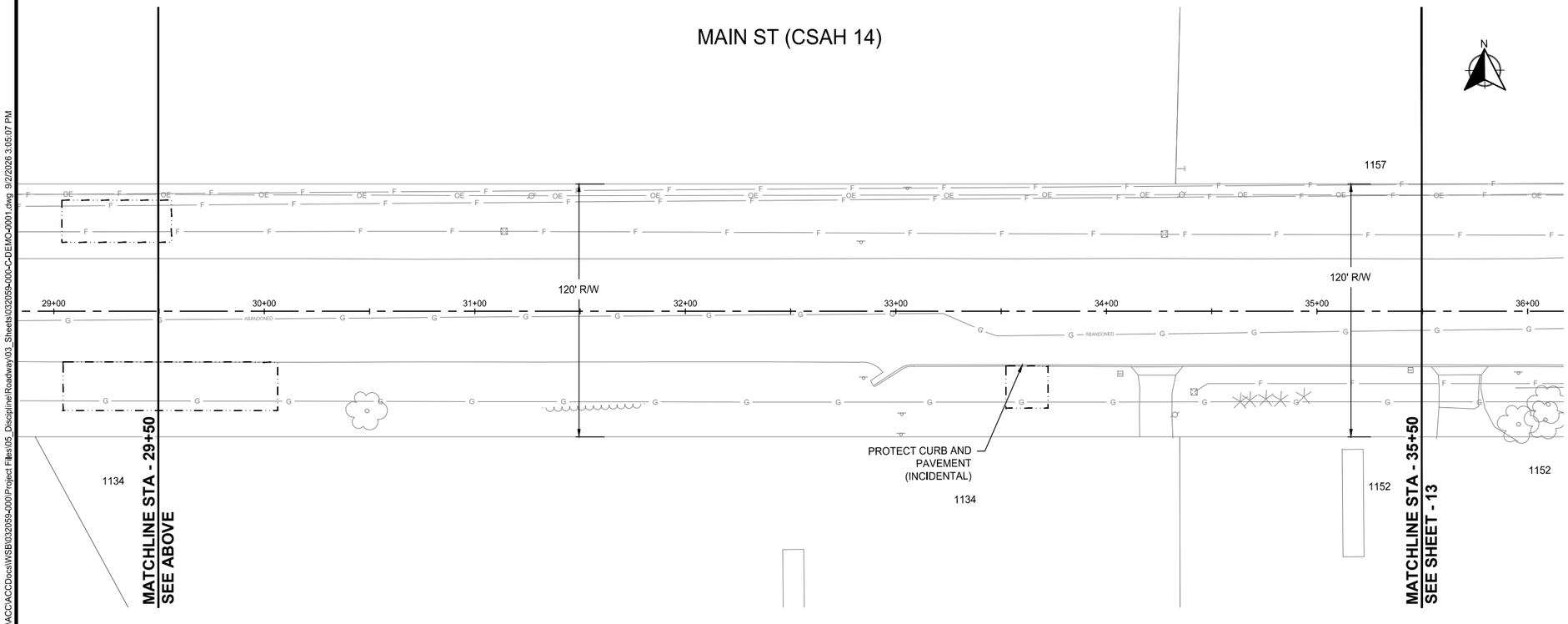
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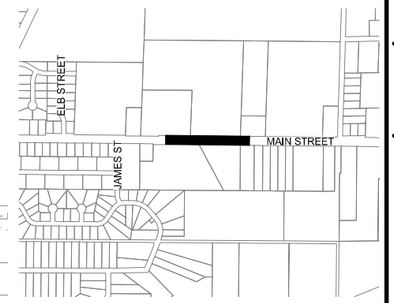
SHEET
11 OF 30

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LOCATION



H: SCALE 0 30 60 IN FEET

LEGEND

- CONSTRUCTION LIMITS
- SALVAGE SIGN
- CLEAR AND GRUB TREE
- REMOVE BITUMINOUS PAVEMENT
- CLEAR AND GRUB (BY ACRE)
- REMOVE CURB AND GUTTER

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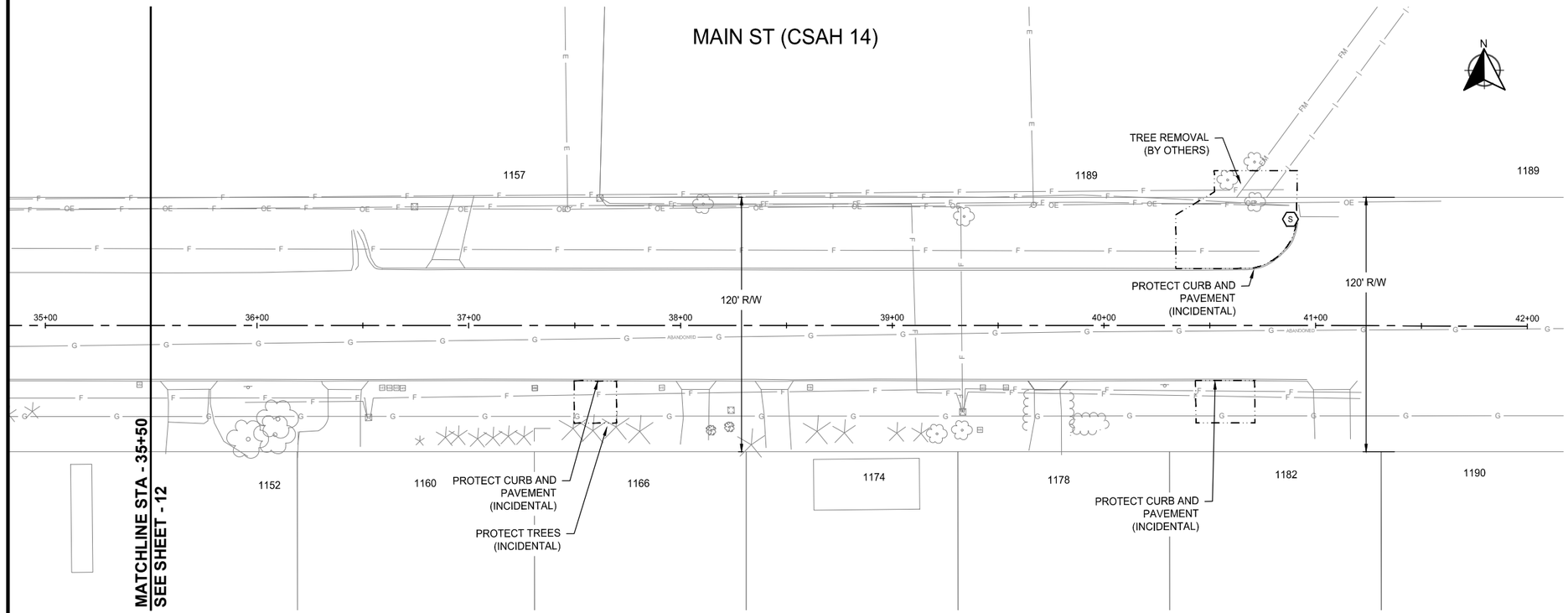
REMOVAL PLANS

2026 PUBLIC WORKS FACILITY UTILITY EXTENSION PROJECT CITY OF LINO LAKES, MN

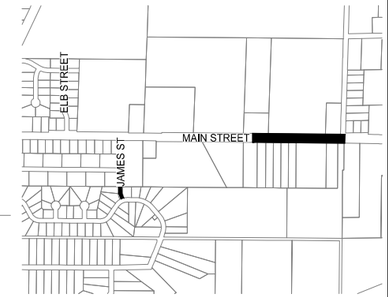
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SHEET
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LOCATION



LEGEND

- CONSTRUCTION LIMITS
- SALVAGE SIGN
- CLEAR AND GRUB TREE
- REMOVE BITUMINOUS PAVEMENT
- CLEAR AND GRUB (BY ACRE)
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wsb

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JLS	PTH

REVISIONS

NO.	DATE	DESCRIPTION

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PAUL HORNBY, PE

DATE: 09-10-2026 LIC. NO: 23359

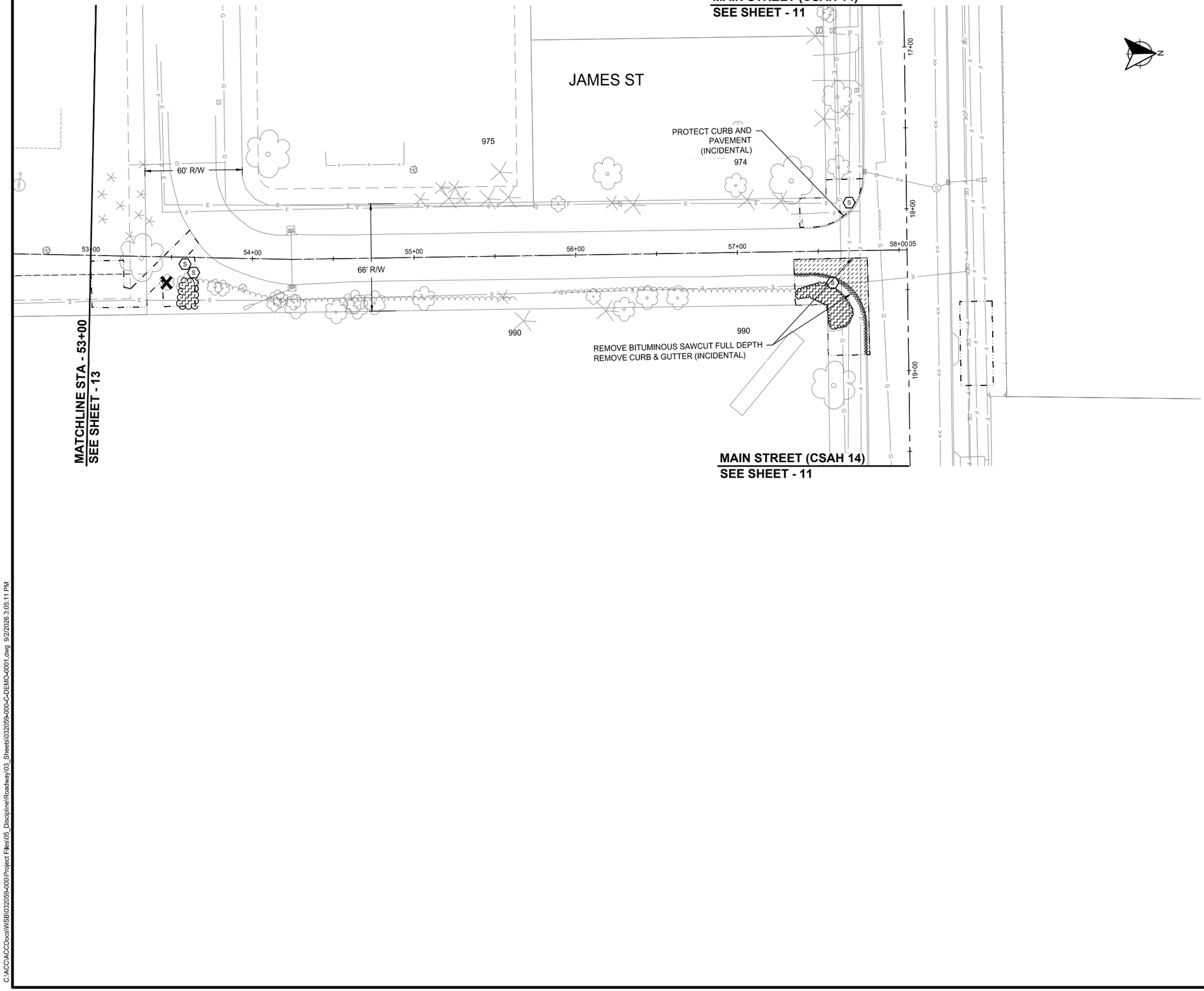
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2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

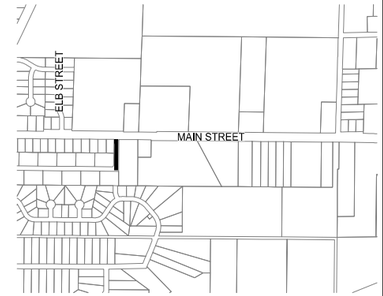
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032059-000

SHEET
13 OF 30

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LOCATION



0 30 60
H: SCALE IN FEET

LEGEND

- CONSTRUCTION LIMITS
- SALVAGE SIGN
- CLEAR AND GRUB TREE
- REMOVE BITUMINOUS PAVEMENT
- CLEAR AND GRUB (BY ACRE)
- REMOVE CURB AND GUTTER

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

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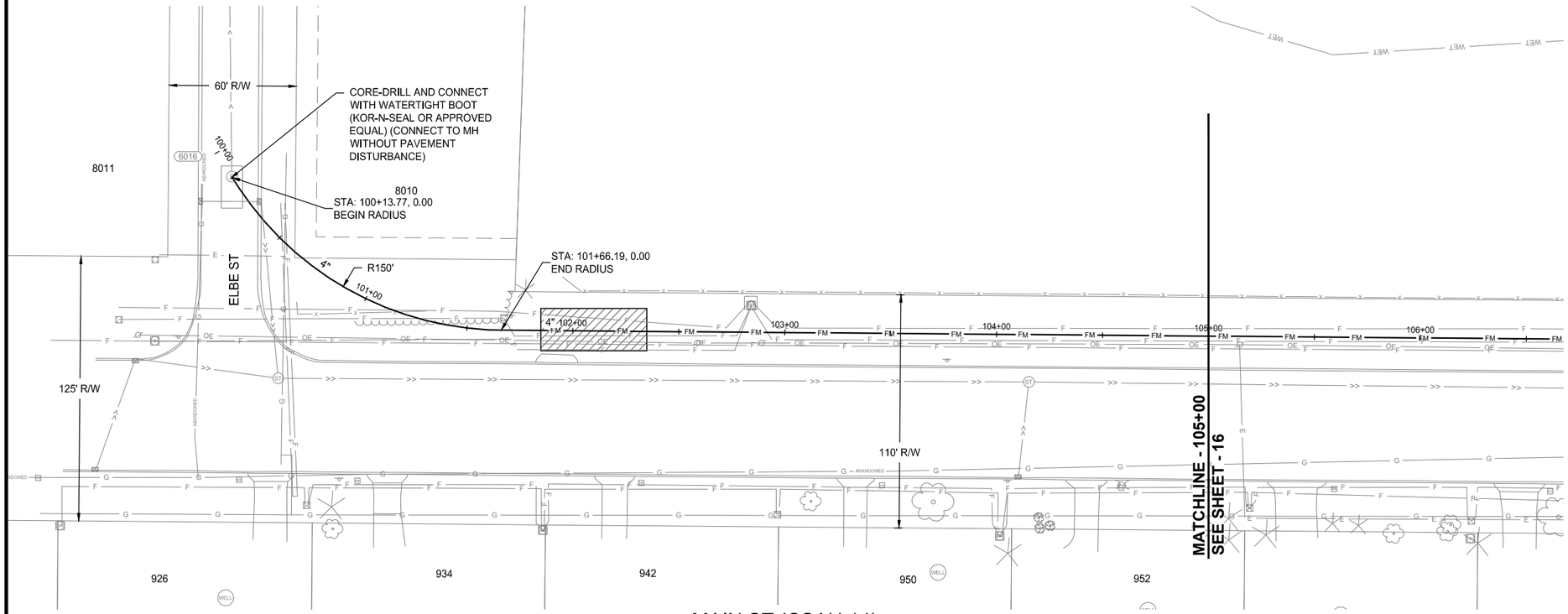
REMOVAL PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

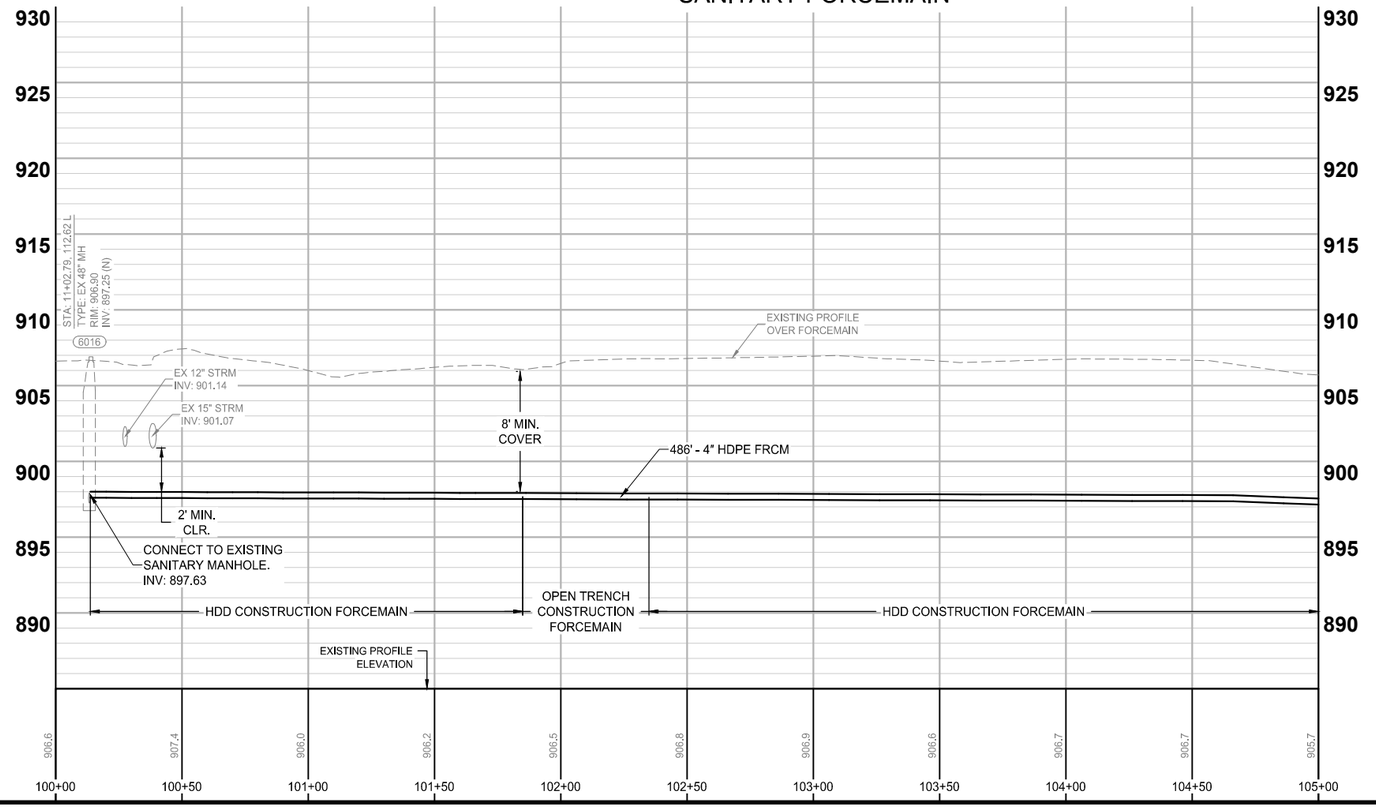
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032059-000

SHEET
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MAIN ST (CSAH 14)

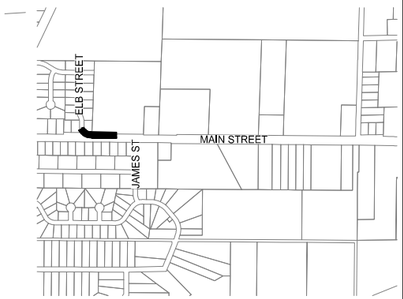


NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: AS SHOWN
DESIGN BY: PTH
PLAN BY: JLS
CHECK BY: PTH

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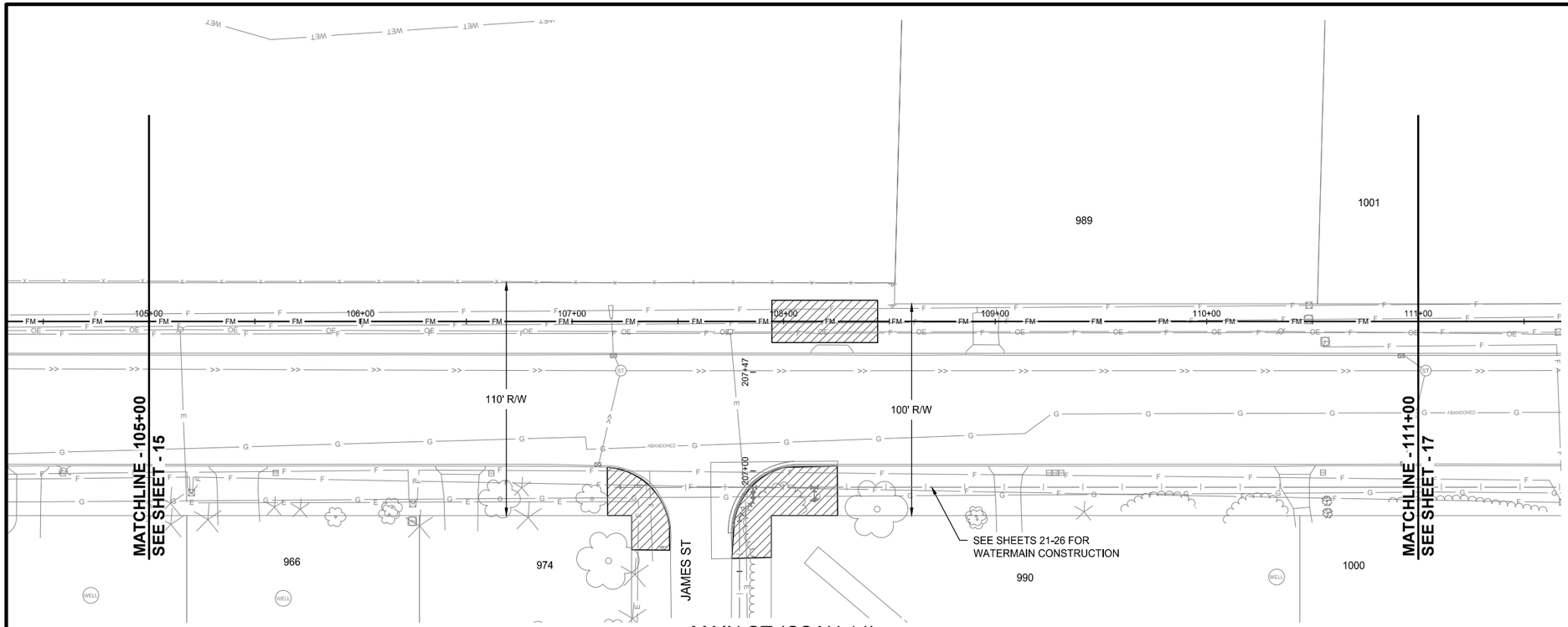
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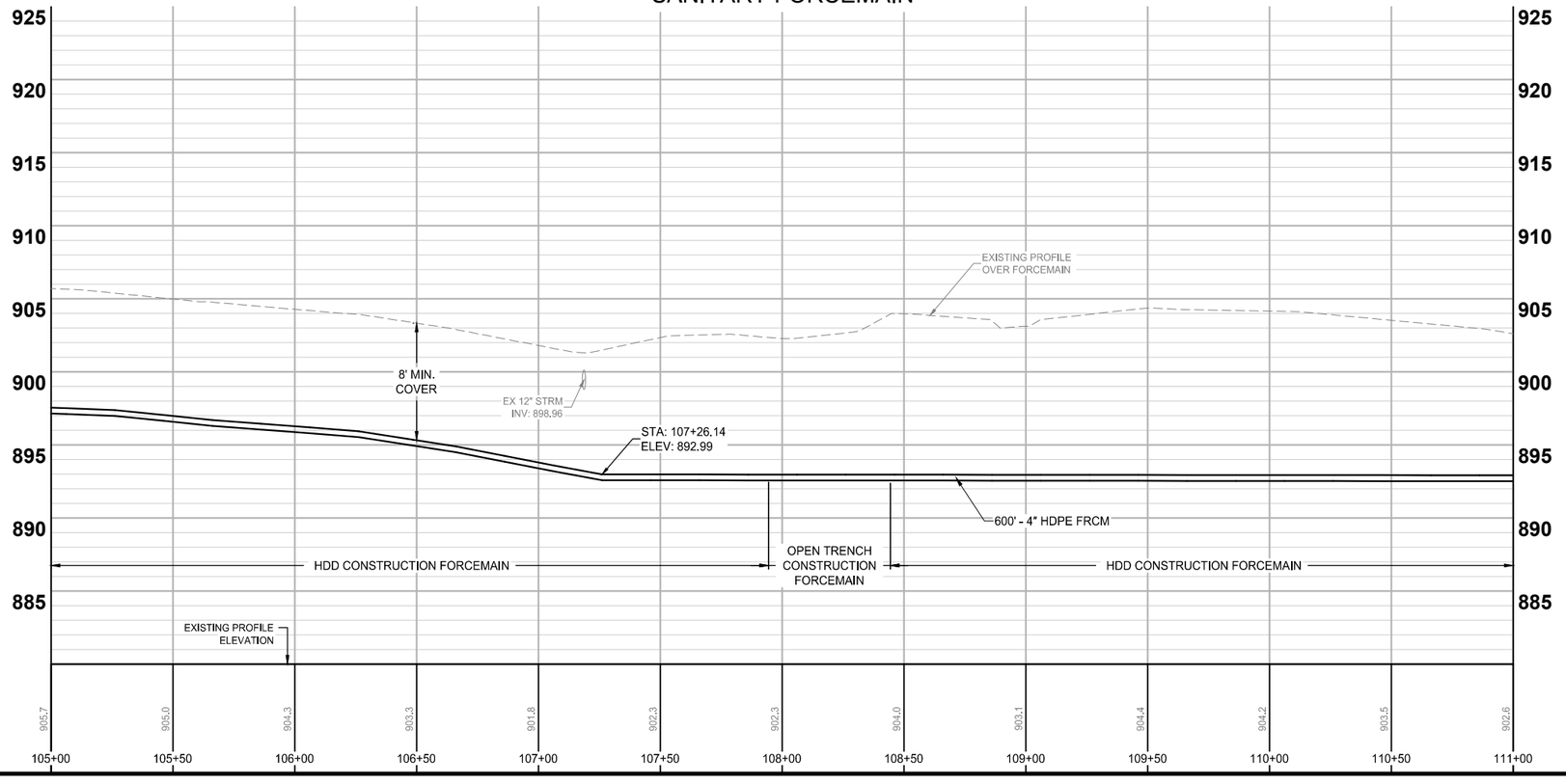
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UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

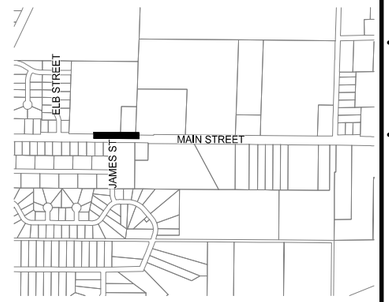
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LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

NO.	DATE	DESCRIPTION

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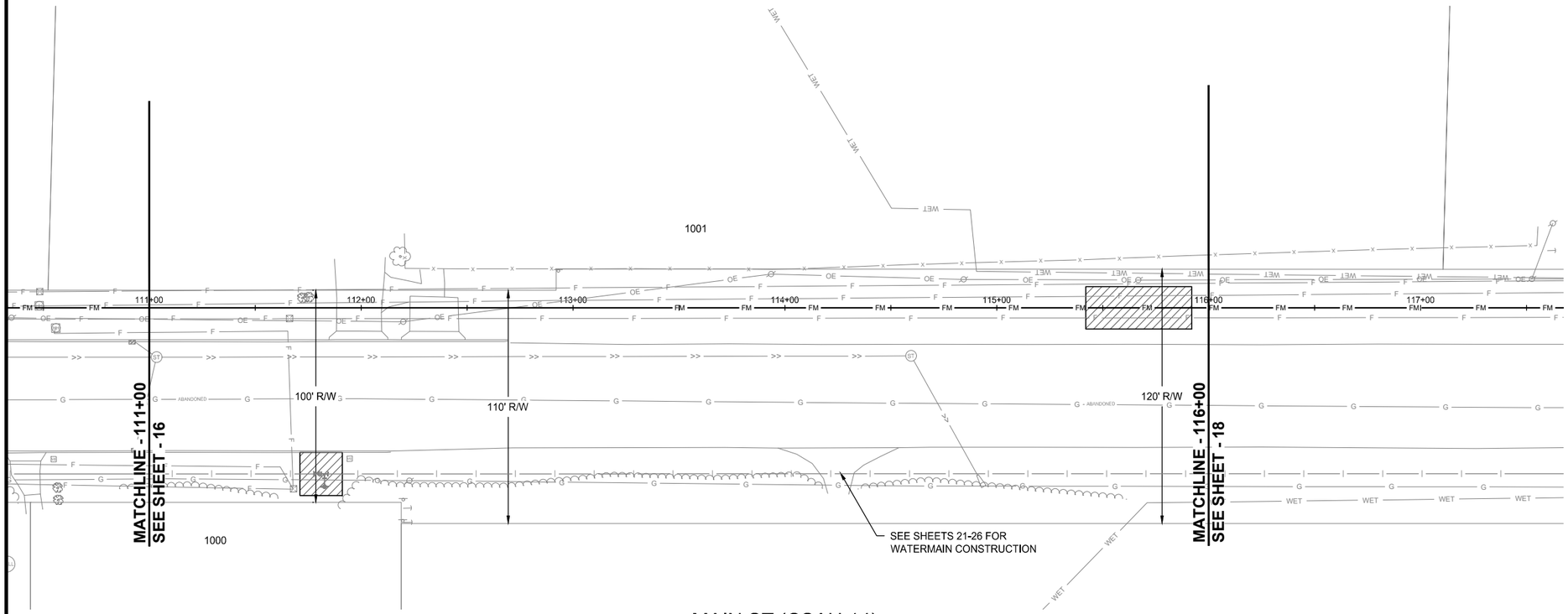
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2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

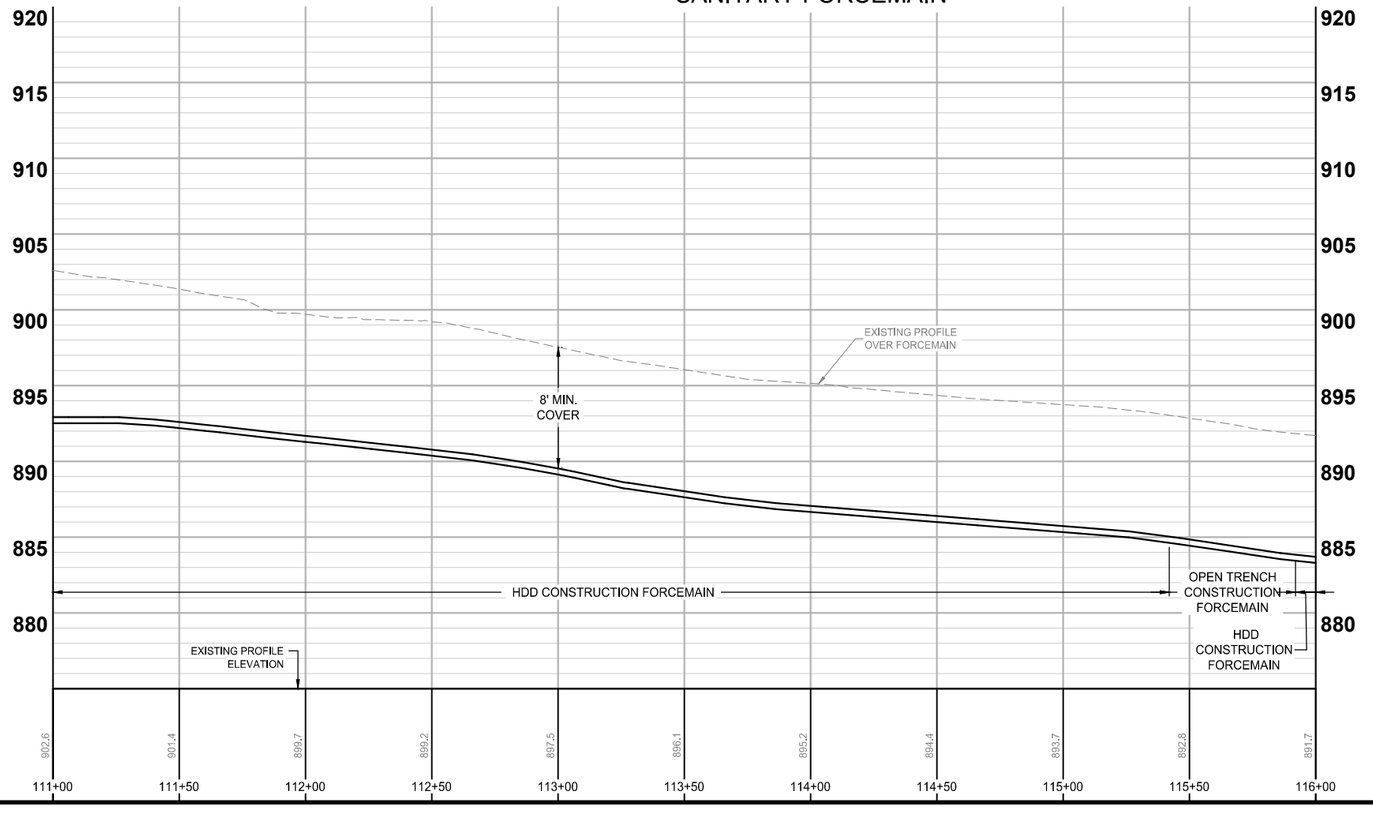
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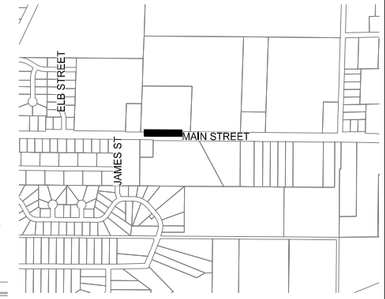
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MAIN ST (CSAH 14)
SANITARY FORCEMAIN



LOCATION



NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

SCALE: AS SHOWN
DESIGN BY: PTH
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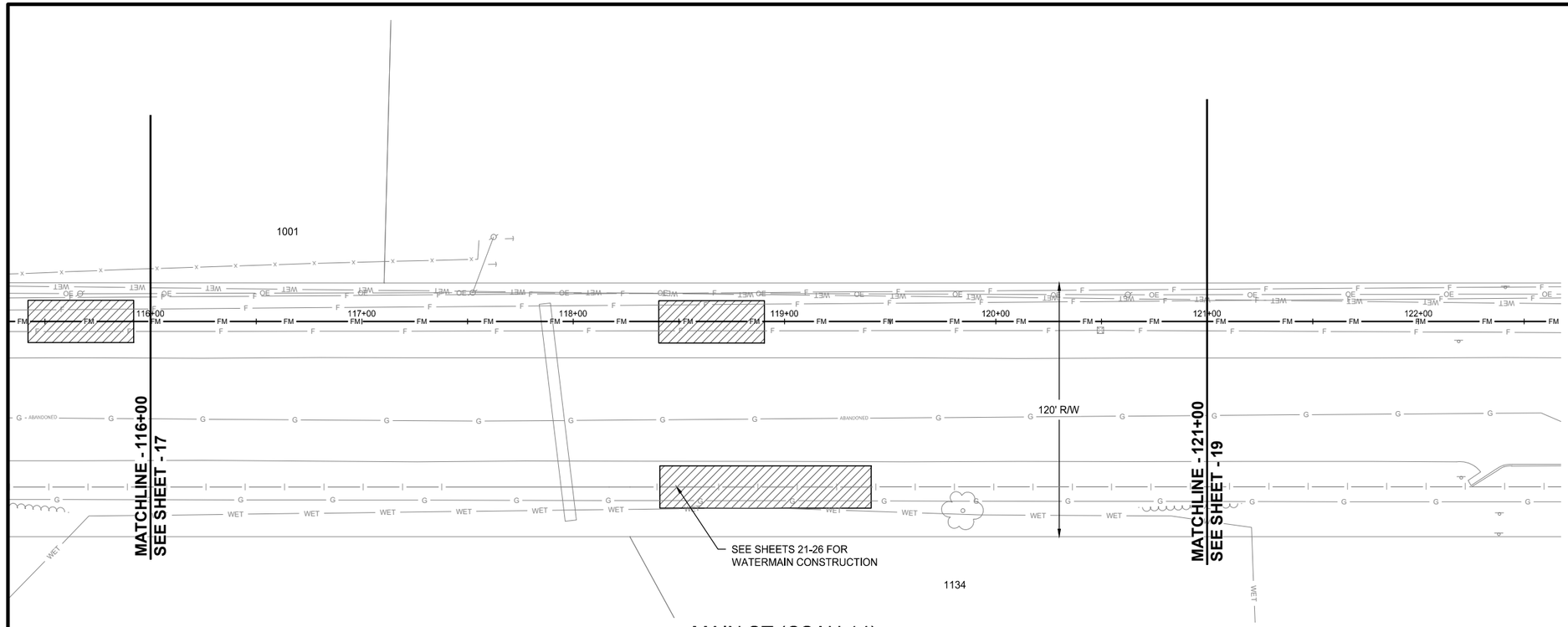
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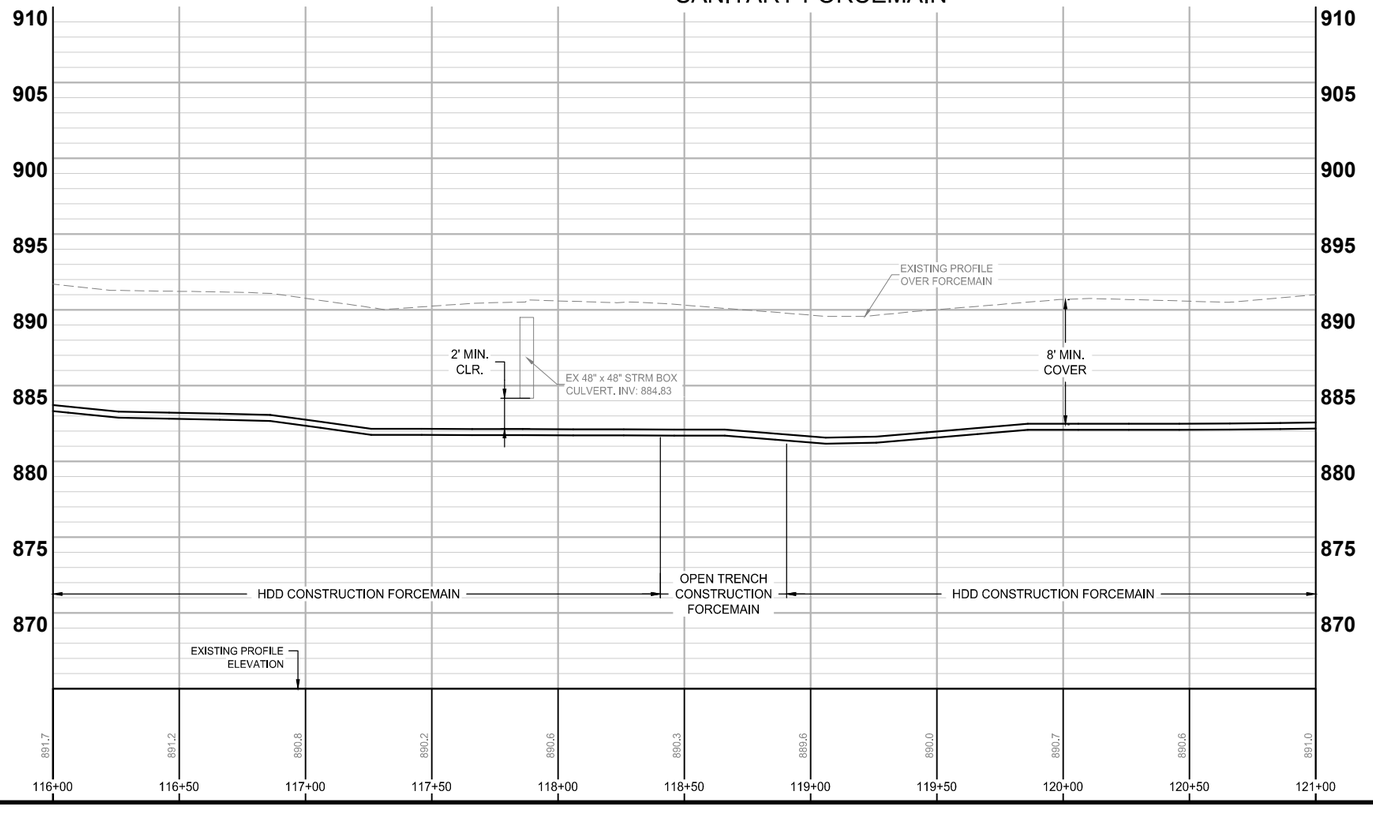
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CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

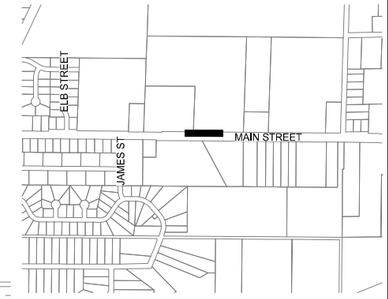
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LOCATION



NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
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PLAN BY:	CHECK BY:
JLS	PTH

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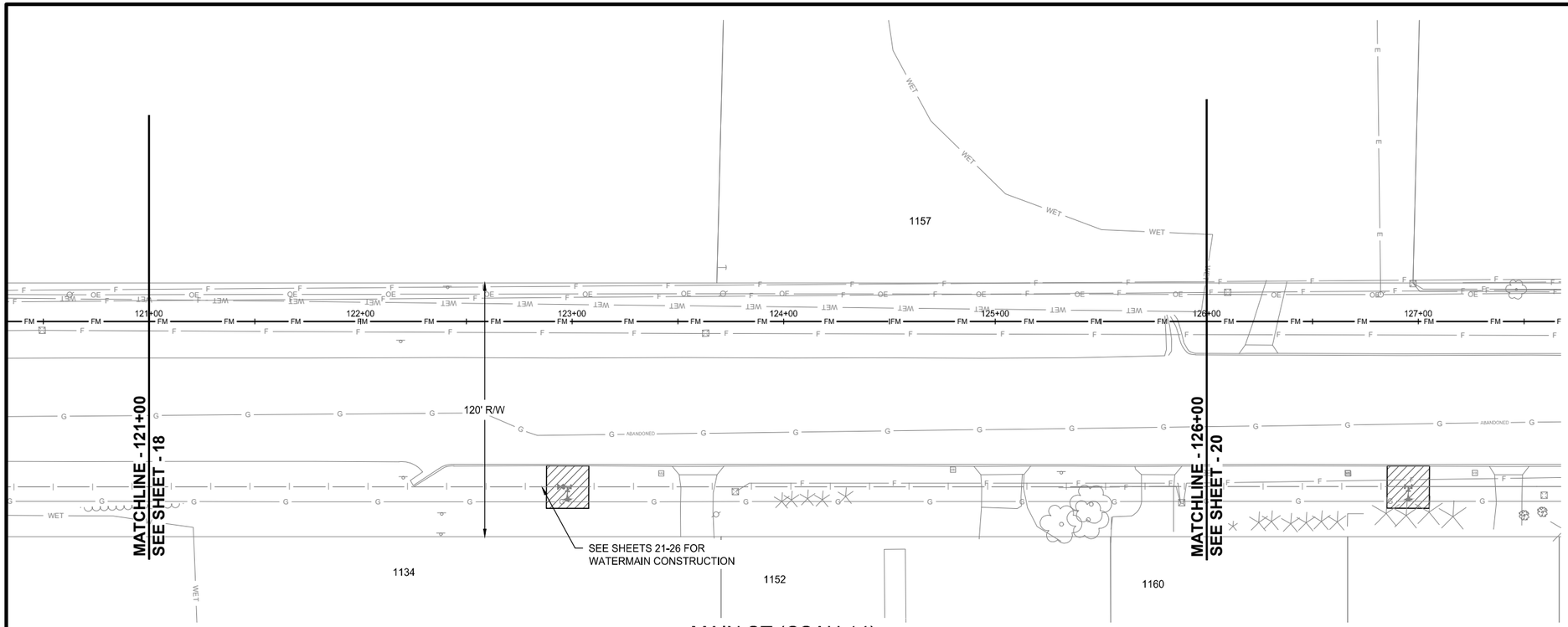
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2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

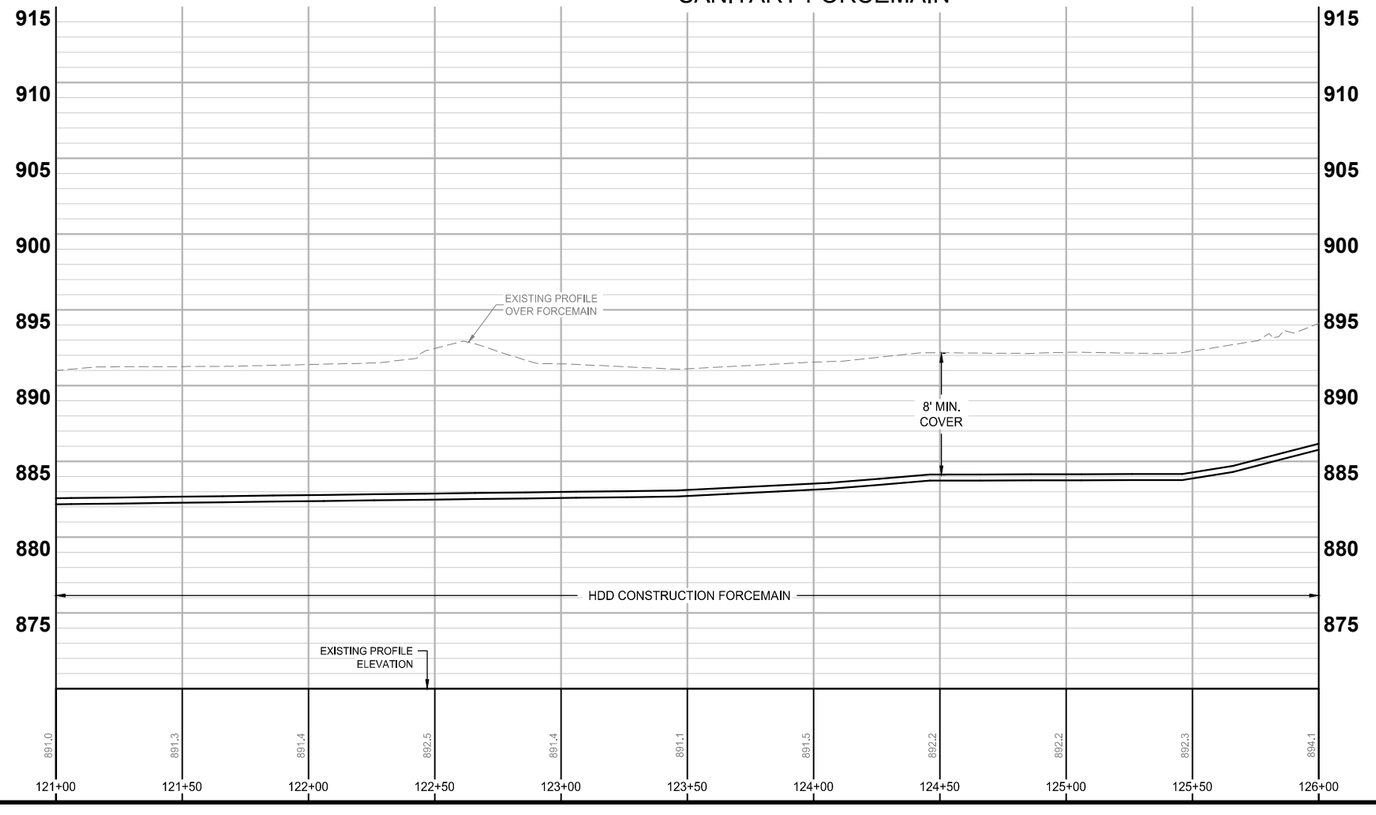
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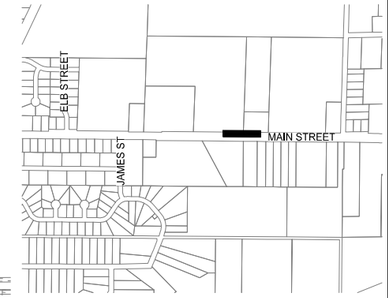
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MAIN ST (CSAH 14)



LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
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PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

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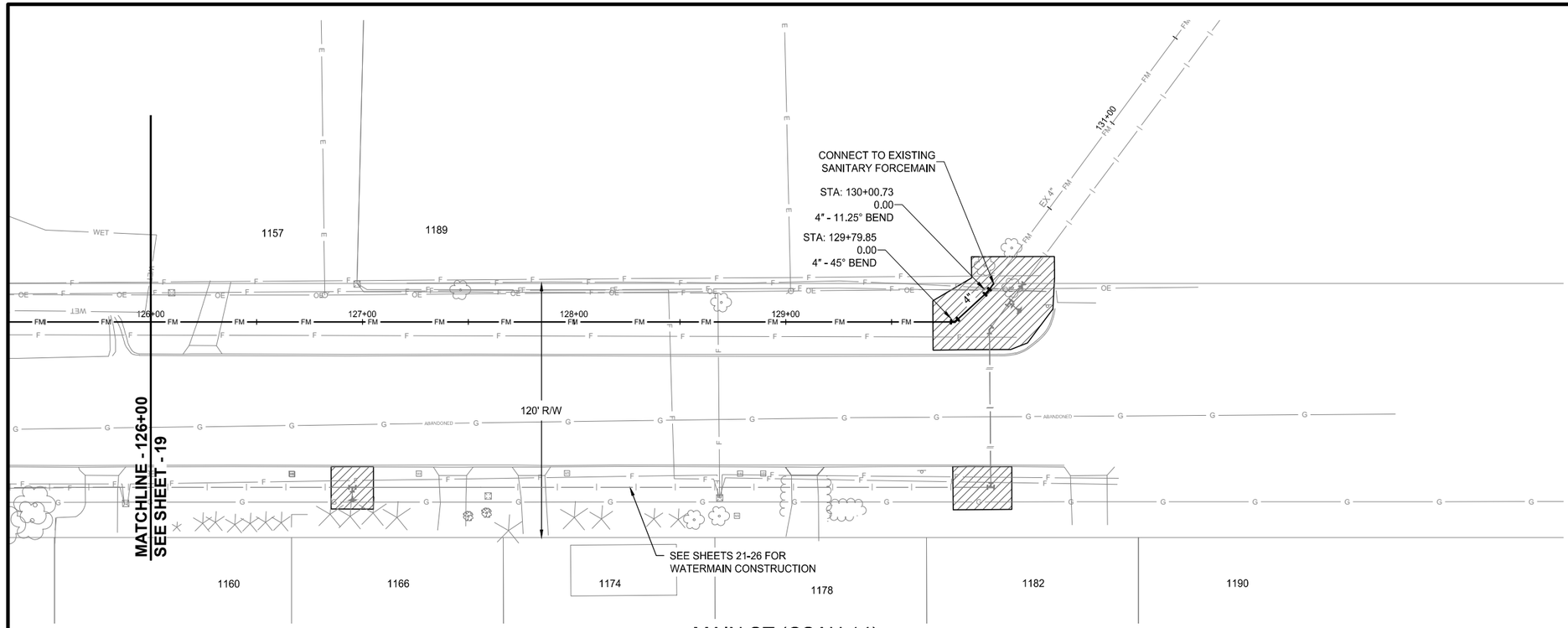
SANITARY FORCEMAIN CONSTRUCTION PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

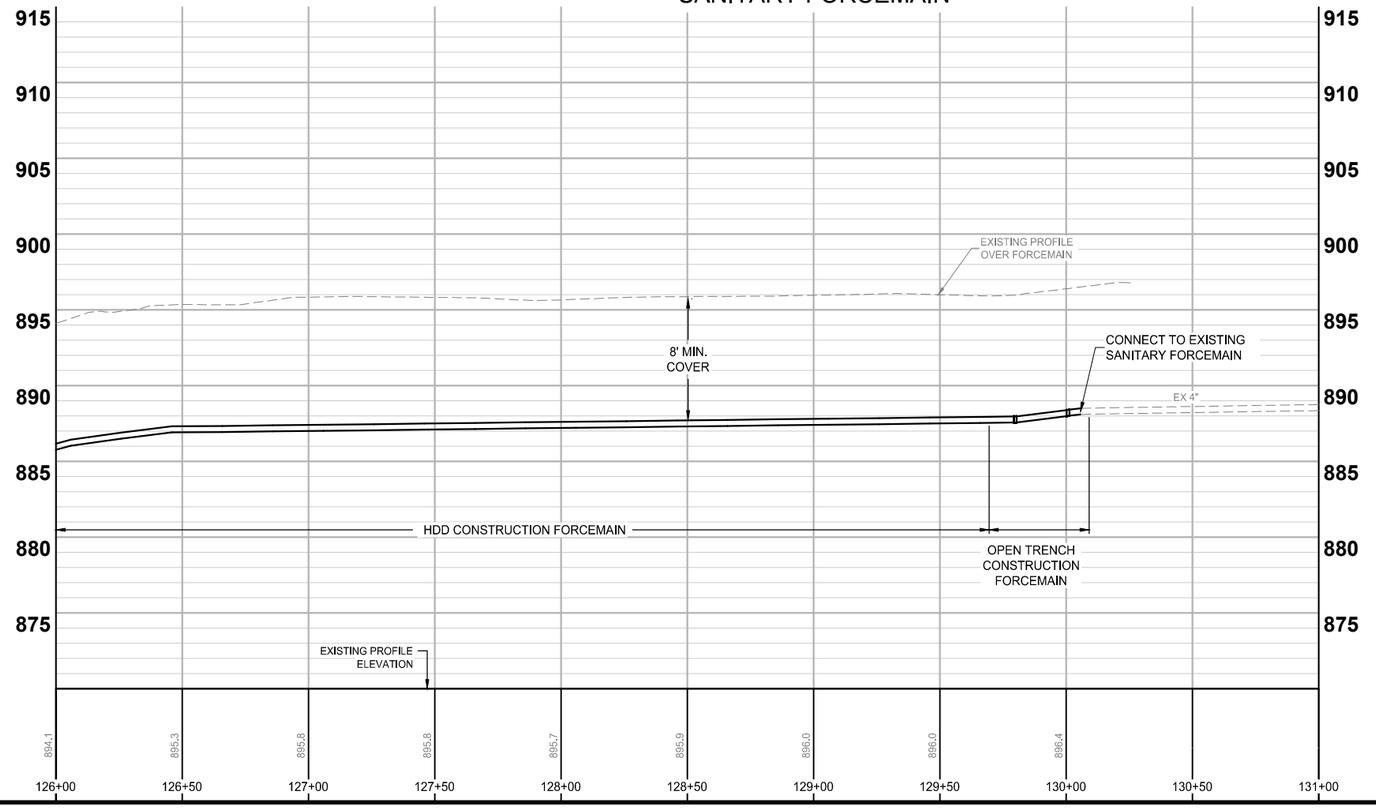
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032059-000

SHEET
19 OF 30

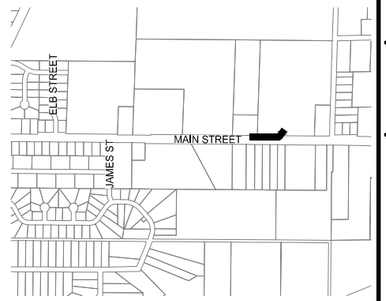
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MAIN ST (CSAH 14)



LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

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JLS	PTH

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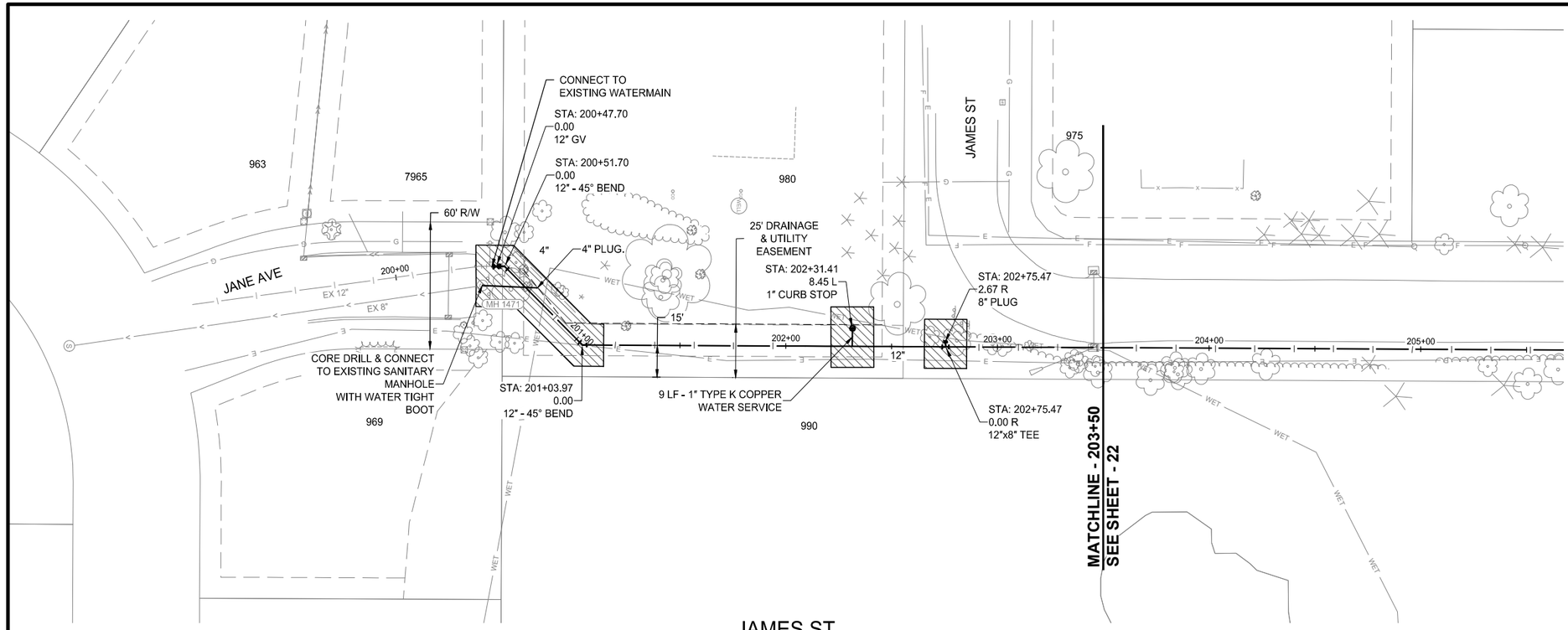
SANITARY FORCEMAIN CONSTRUCTION PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

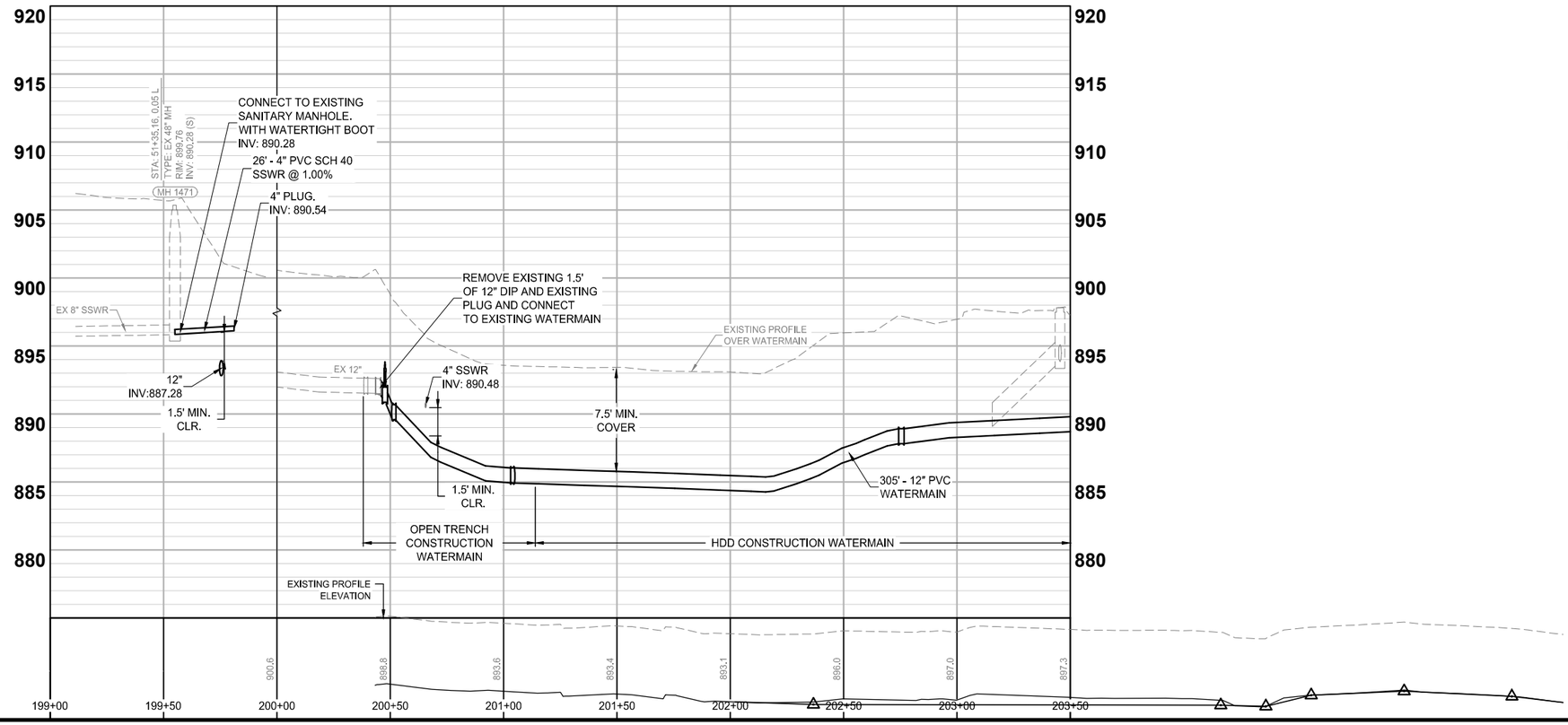
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SHEET
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JAMES ST
WATERMAIN



NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- PROPOSED WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb | CITY OF LINO LAKES

SCALE:	DESIGN BY:
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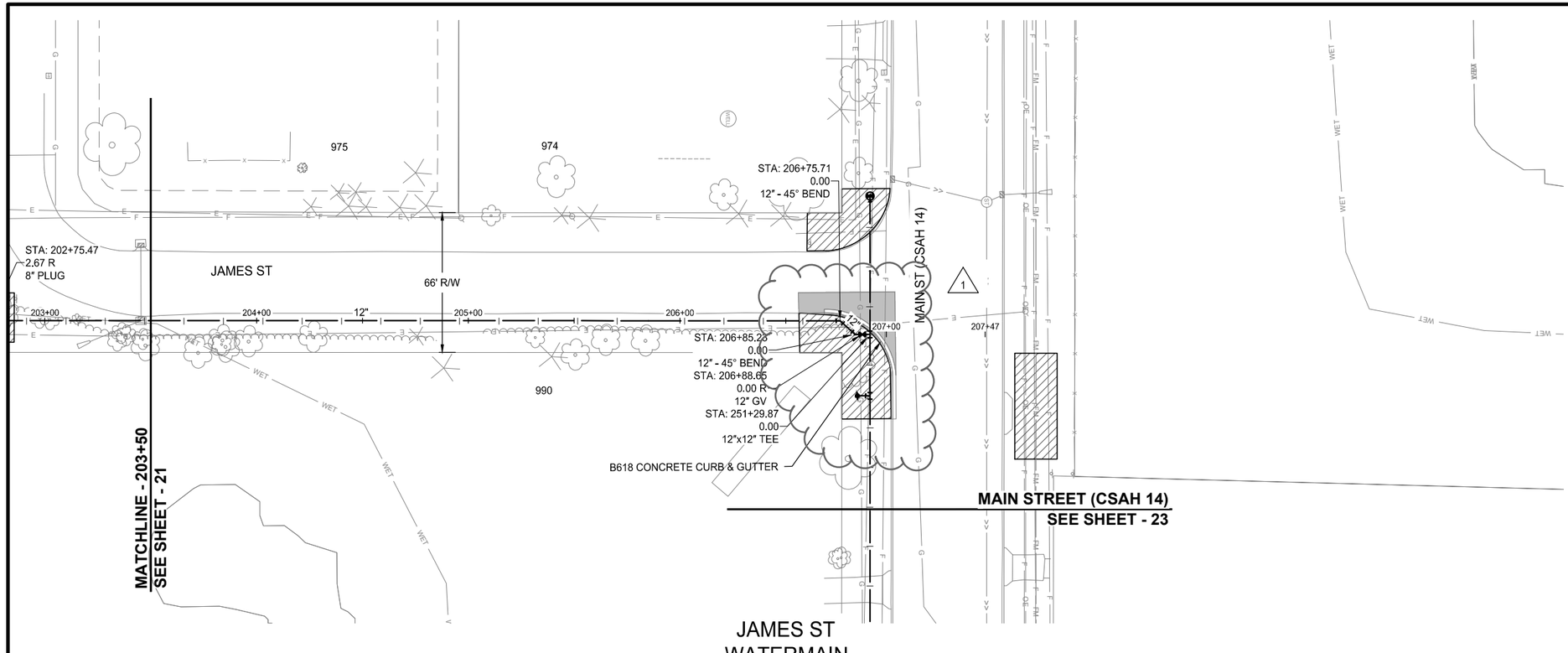
SANITARY SEWER & WATERMAIN PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

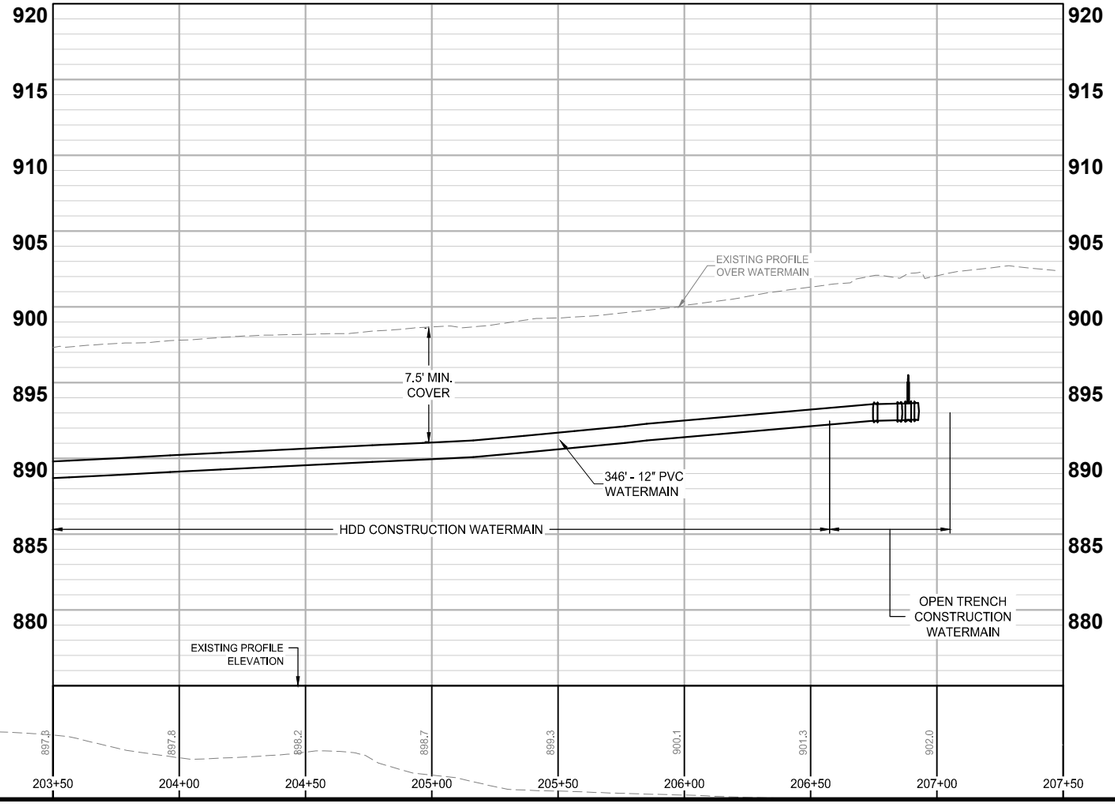
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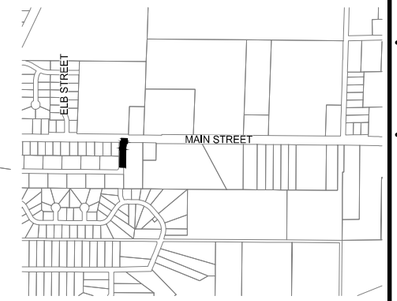
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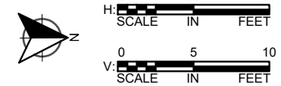


JAMES ST
WATERMAIN



LOCATION





NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- PROPOSED WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT SEE INSET A DETAIL FOR STREET SECTION
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

NO.	DATE	DESCRIPTION
1	09-14-2026	ADDENDUM NO. 1

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.

PAUL HORNBY, PE
DATE: 09-10-2026
LIC. NO: 23359

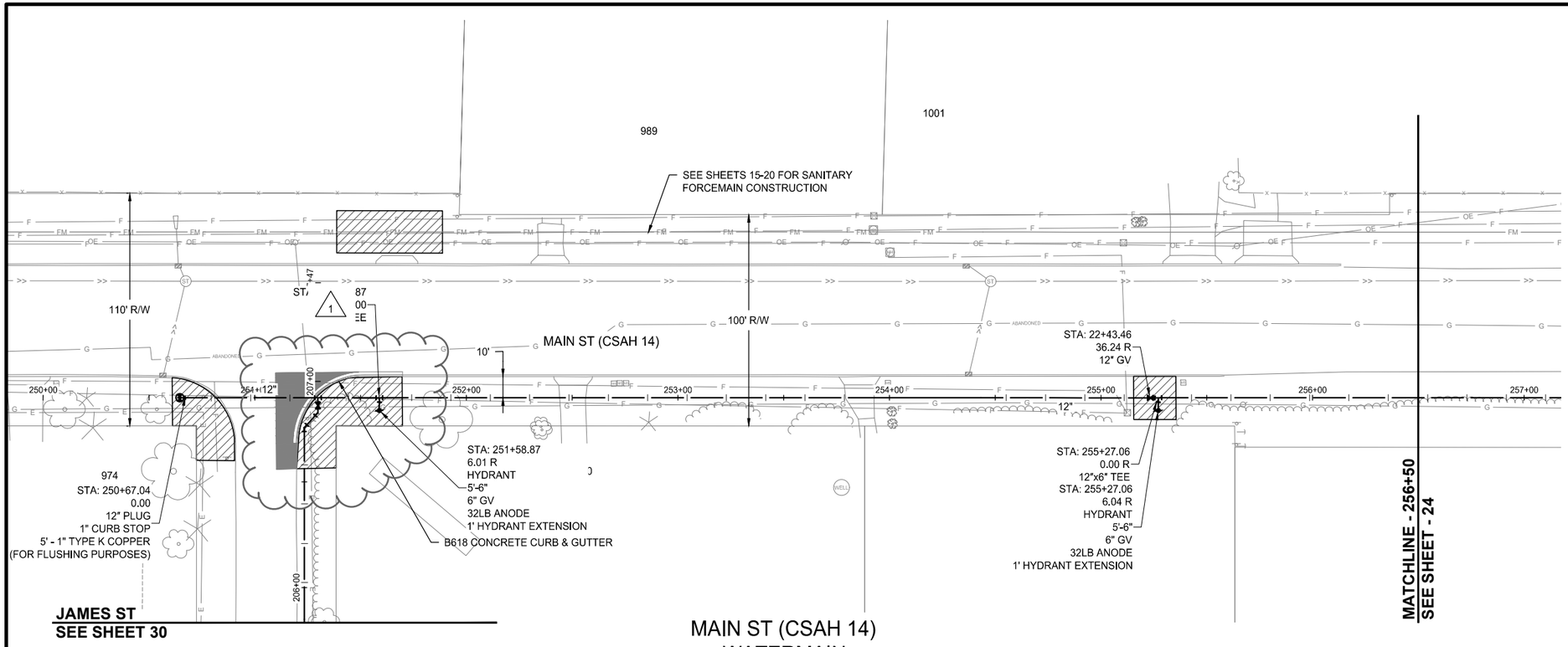
WATERMAIN PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

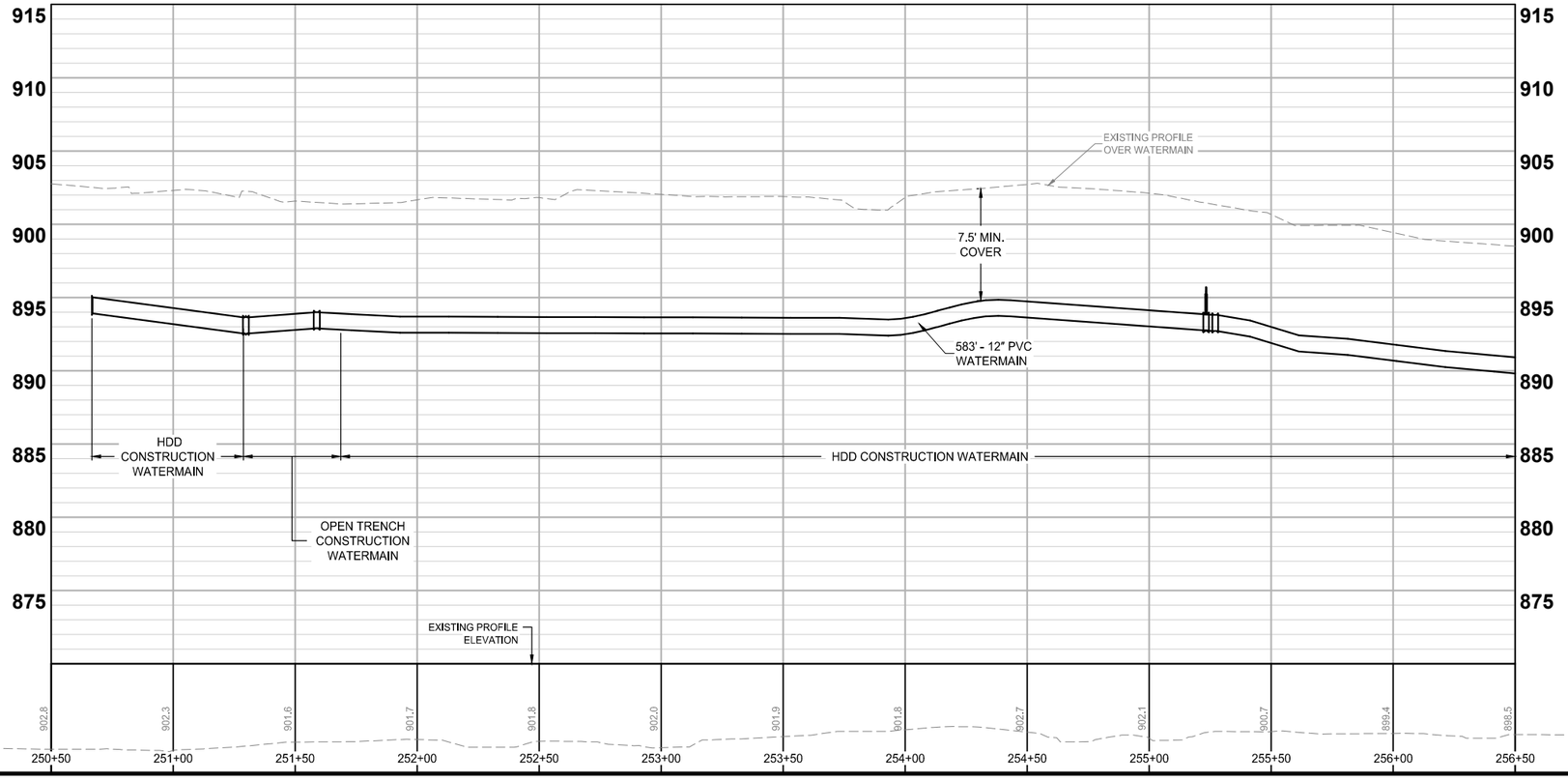
WSB PROJECT NO.
032059-000

SHEET
22 OF 30

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MAIN ST (CSAH 14) WATERMAIN

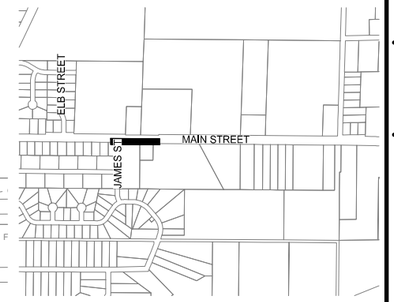


NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- PROPOSED WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT SEE INSET A DETAIL FOR STREET SECTION
- PROPOSED CURB AND GUTTER

LOCATION



N

H: SCALE 0 30 60 IN FEET

V: SCALE 0 5 10 IN FEET

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
AS SHOWN	PTH
PLAN BY:	CHECK BY:
JLS	PTH

REVISIONS

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PAUL HORNBY, PE

LIC. NO: 23359

DATE: 09-10-2026

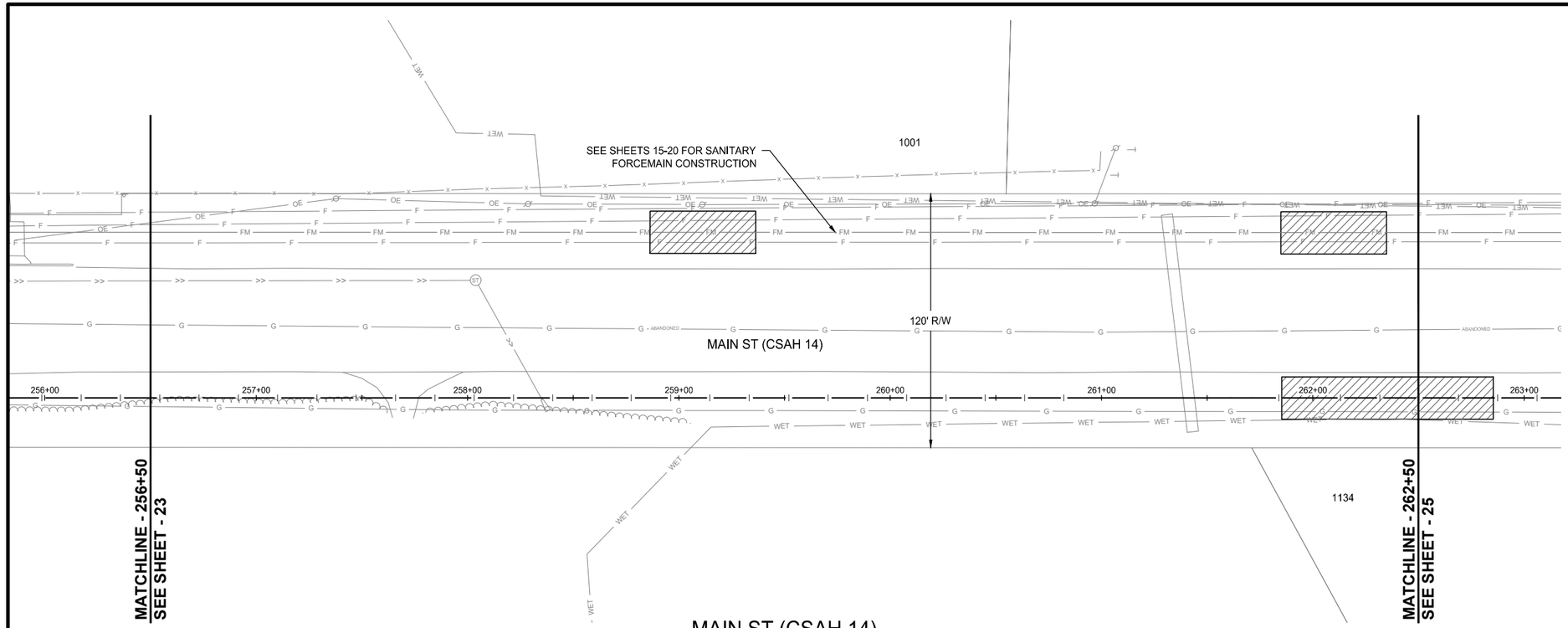
WATERMAIN PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

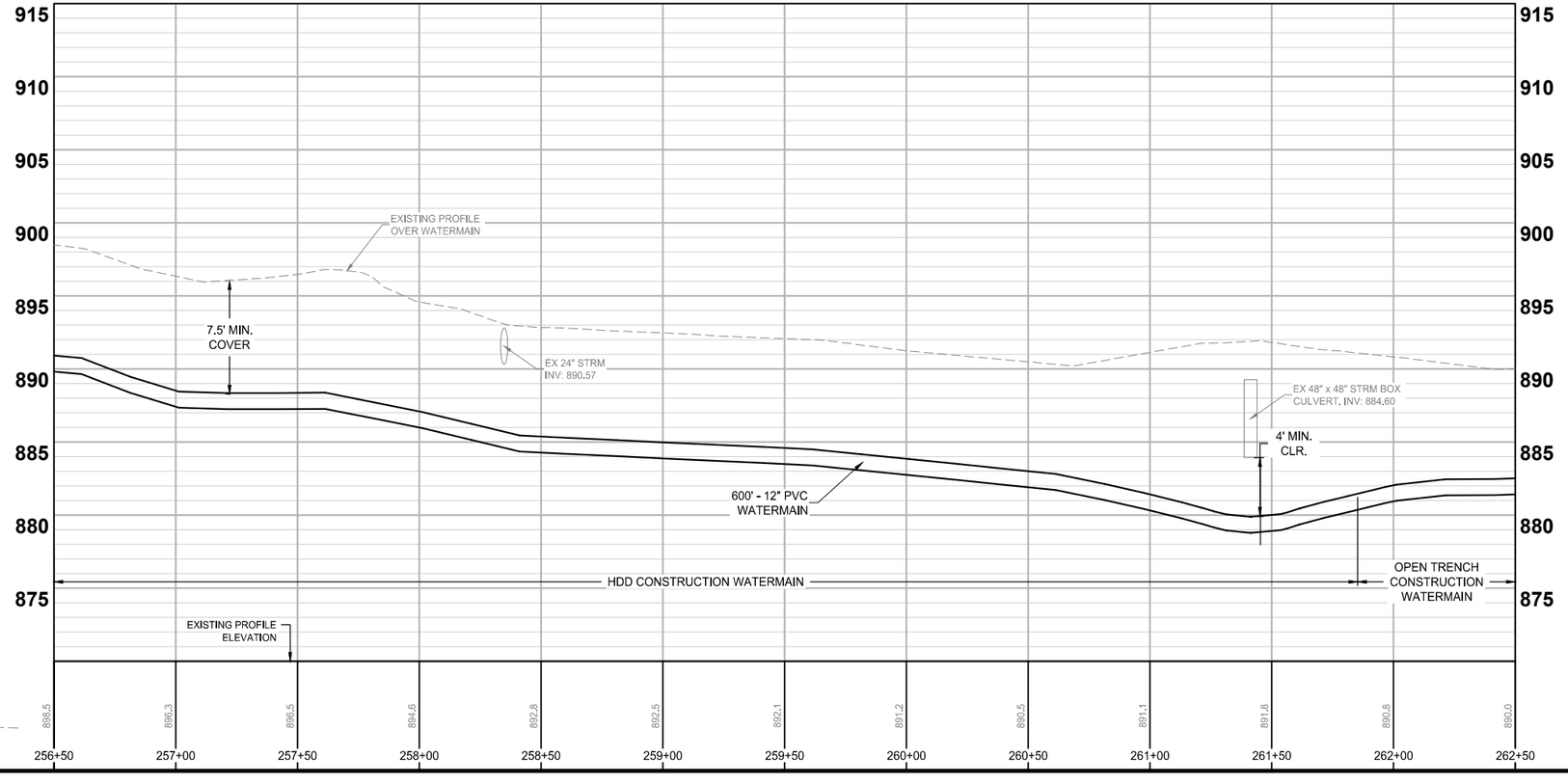
WSB PROJECT NO.
032059-000

SHEET
23 OF 30

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MAIN ST (CSAH 14) WATERMAIN

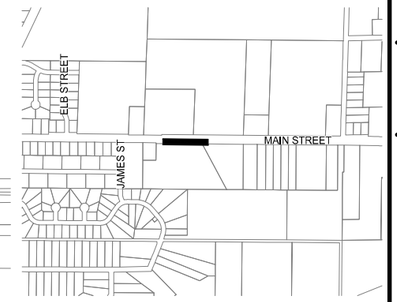


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LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- PROPOSED WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

REVISIONS

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PAUL HORNBY, PE LIC. NO: 23359

DATE: 09-10-2026

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PLAN BY:	CHECK BY:
JLS	PTH

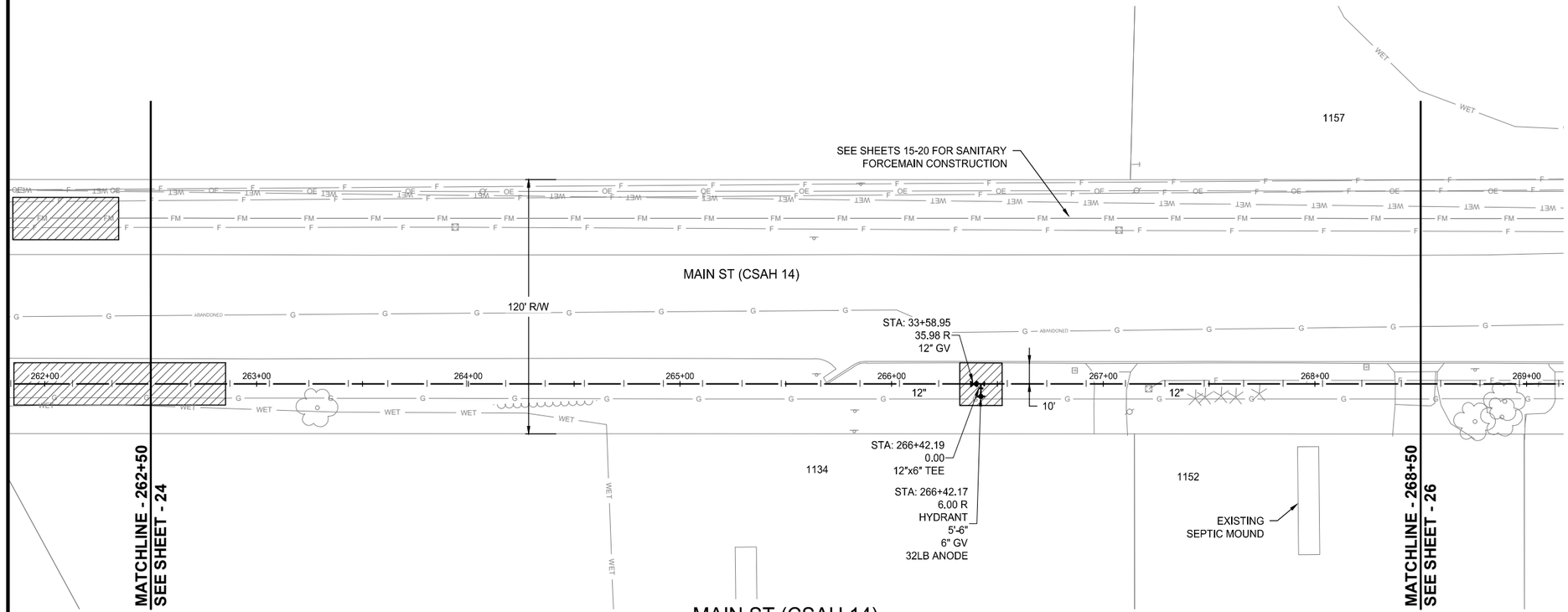
WATERMAIN PLANS

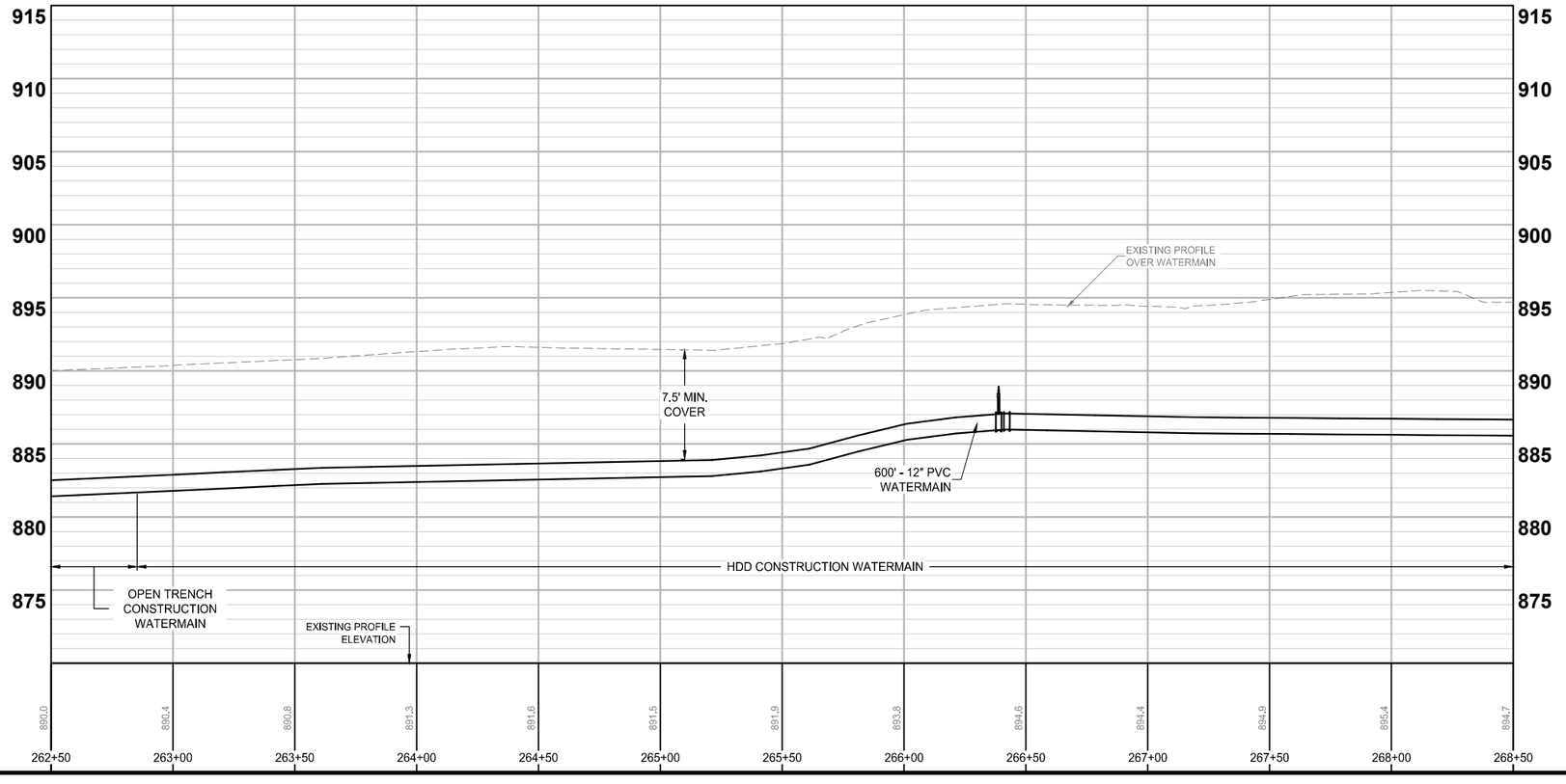
2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

WSB PROJECT NO. 032059-000

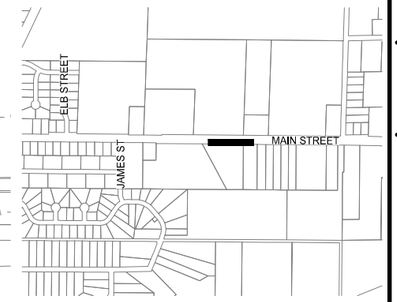
SHEET 24 OF 30

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LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

NOTES:
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LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- PROPOSED WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

wsb

CITY OF LINO LAKES

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JLS	PTH

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PAUL HORNBY, PE

DATE: 09-10-2026 LIC. NO: 23359

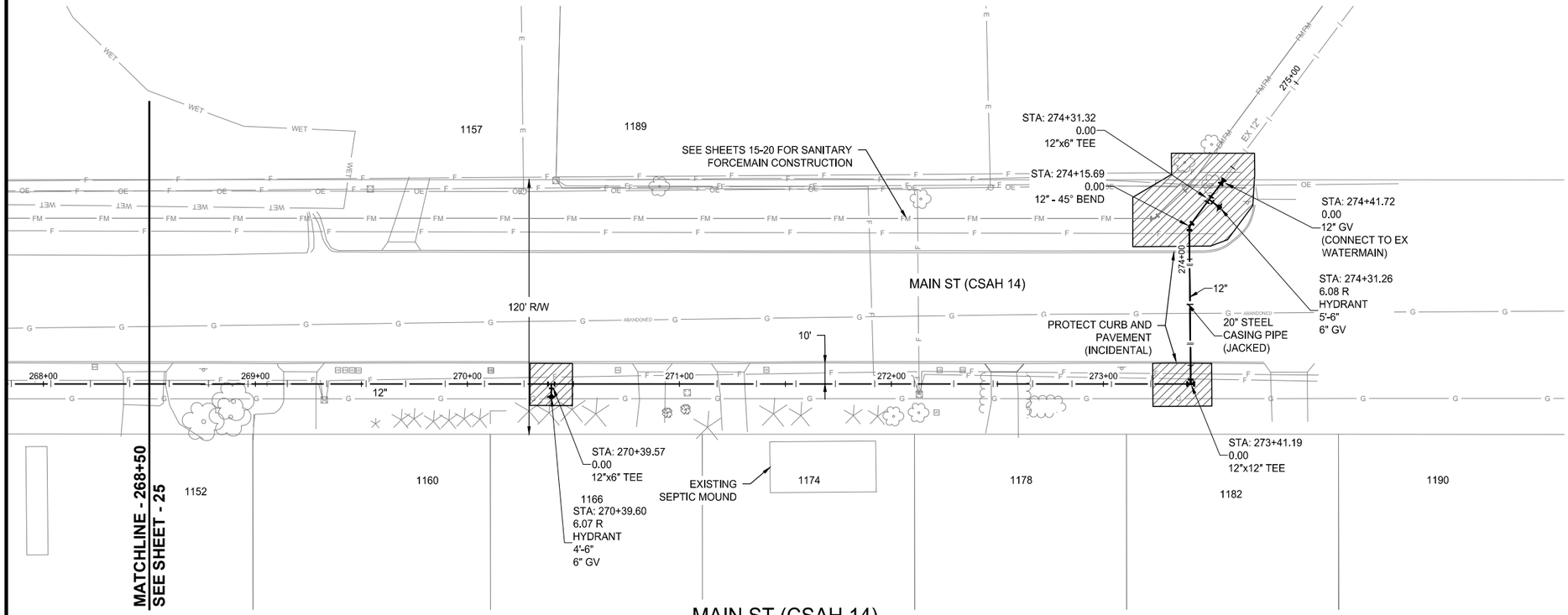
WATERMAIN PLANS

2026 PUBLIC WORKS FACILITY UTILITY EXTENSION PROJECT CITY OF LINO LAKES, MN

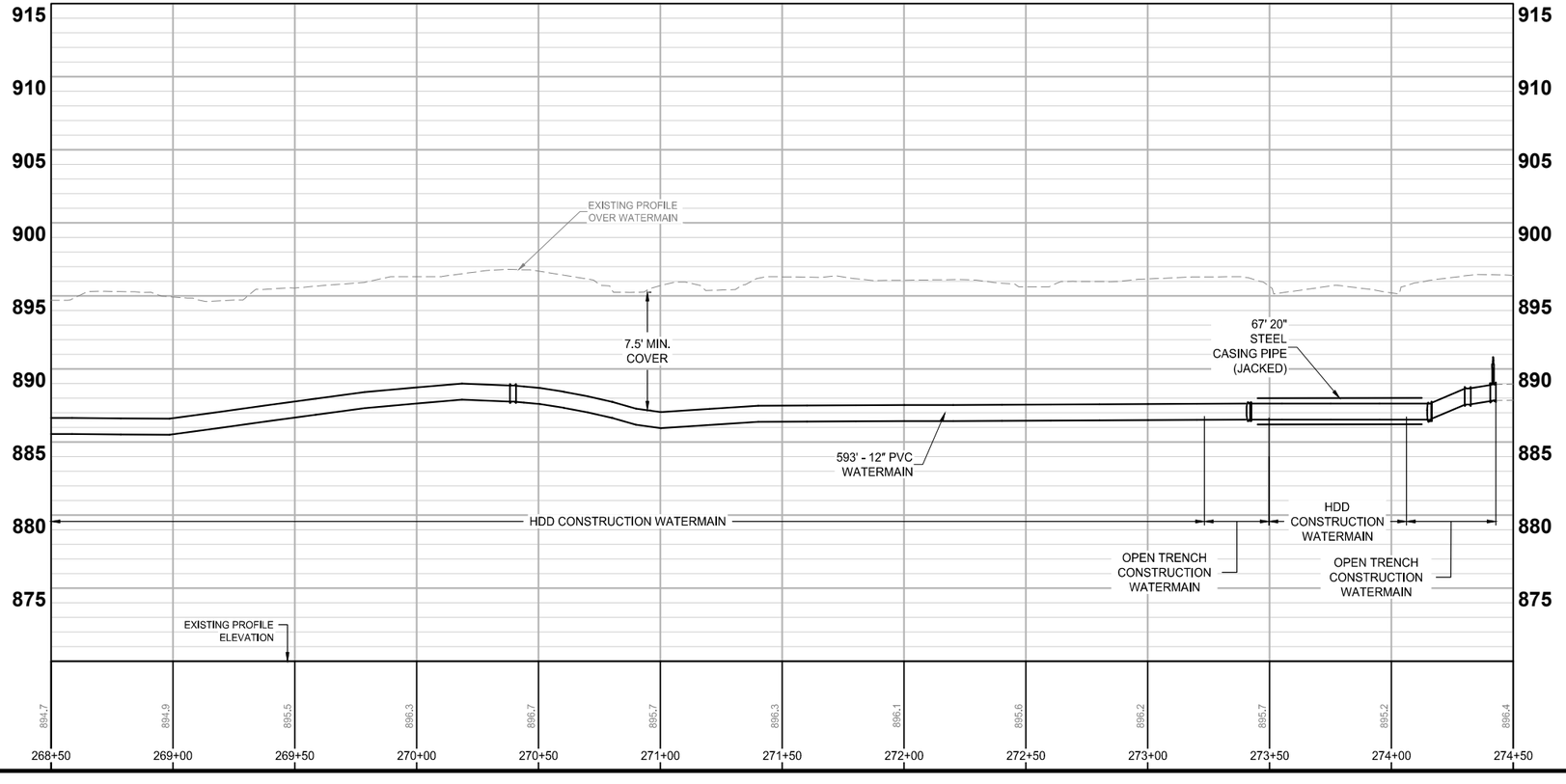
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SHEET 25 OF 30

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MAIN ST (CSAH 14)
WATERMAIN

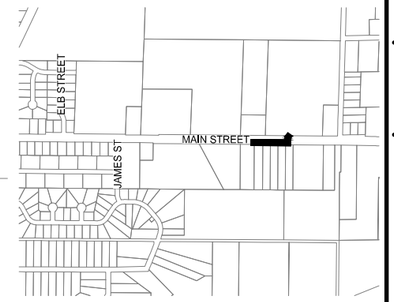


NOTES:
1. CONTRACTOR SHALL USE SHORING OR RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT ITEMS THAT ARE NOT NOTED FOR REMOVAL.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- EXISTING WATER SERVICE WITH CURB STOP
- PROPOSED WATER SERVICE WITH CURB STOP
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE
- PROPOSED WATER FITTINGS
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY FORCEMAIN
- PROPOSED SANITARY FORCEMAIN
- PROPOSED INSERTION / RECEIVING PIT LOCATION
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CURB AND GUTTER

LOCATION



N

H: SCALE 0 30 60 IN FEET

V: SCALE 0 5 10 IN FEET

wsb

CITY OF LINO LAKES

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JLS	PTH

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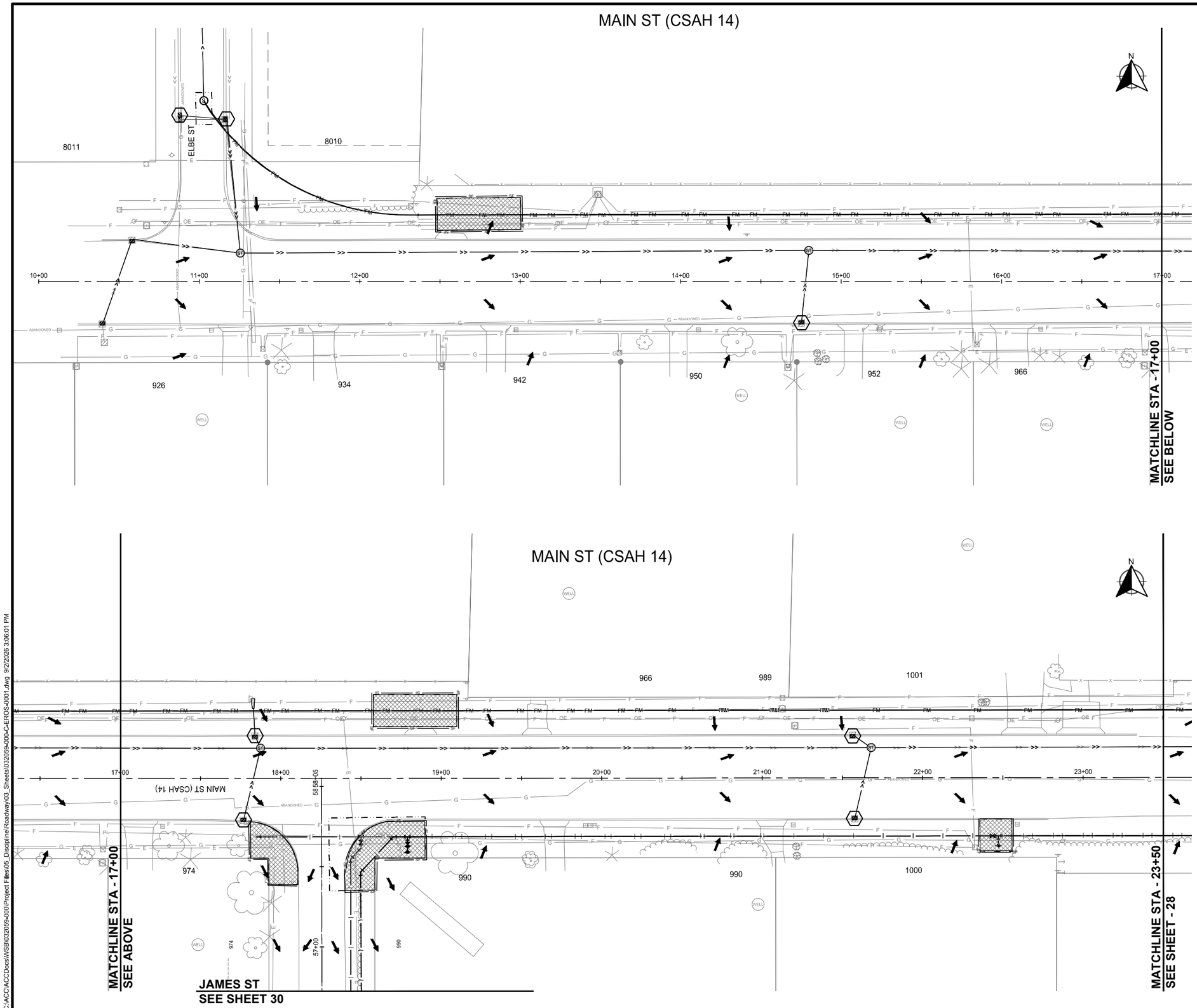
WATERMAIN PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

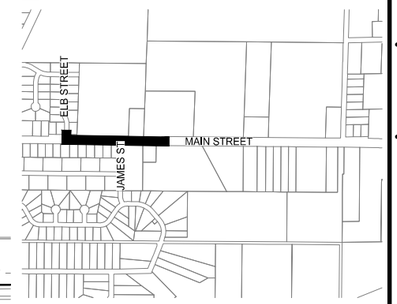
WSB PROJECT NO.
032059-000

SHEET
26 OF 30

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LOCATION



0 30 60
H: SCALE IN FEET

LEGEND

- CONSTRUCTION LIMITS
- INLET PROTECTION
- FLOW DIRECTION
- SF — SEDIMENT CONTROL LOG TYPE WOOD FIBER
- WET DITCH: TEMP: RAPID STABILIZATION METHOD 4 PERM: MNDOT SEED WET DITCH @ 20 LBS/ACRE WITH FERTILIZER TYPE 4 @ 120 LBS/ACRE AND EROSION CONTROL BLANKET (CAT 25/WOOD FIBER)
- TEMP: RAPID STABILIZATION METHOD 4 PERM: SEED SOUTHERN BOULEVARD W/FERTILIZER TYPE 4 @ 160 LBS/ACRE

wsb

CITY OF LINO LAKES

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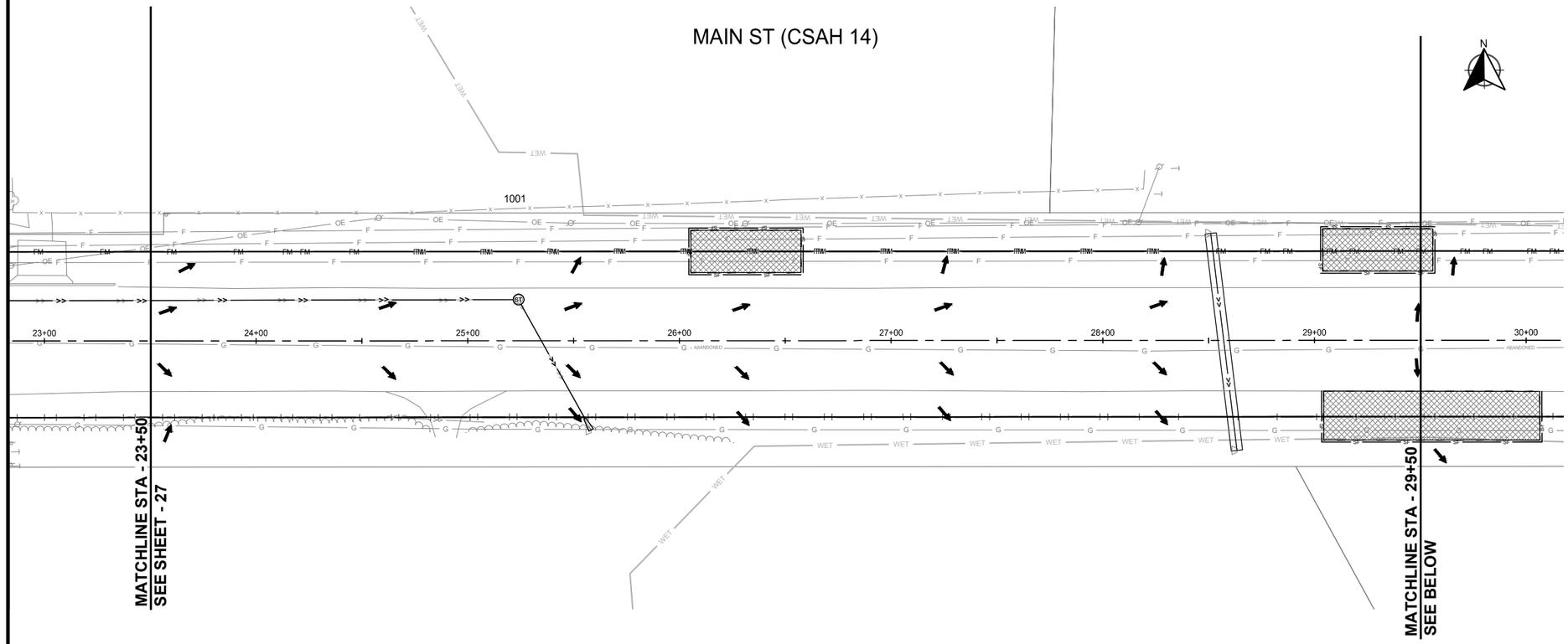
EROSION CONTROL PLANS

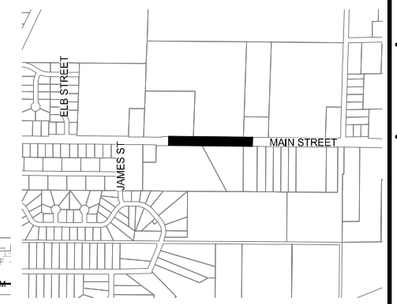
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UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

WSB PROJECT NO.
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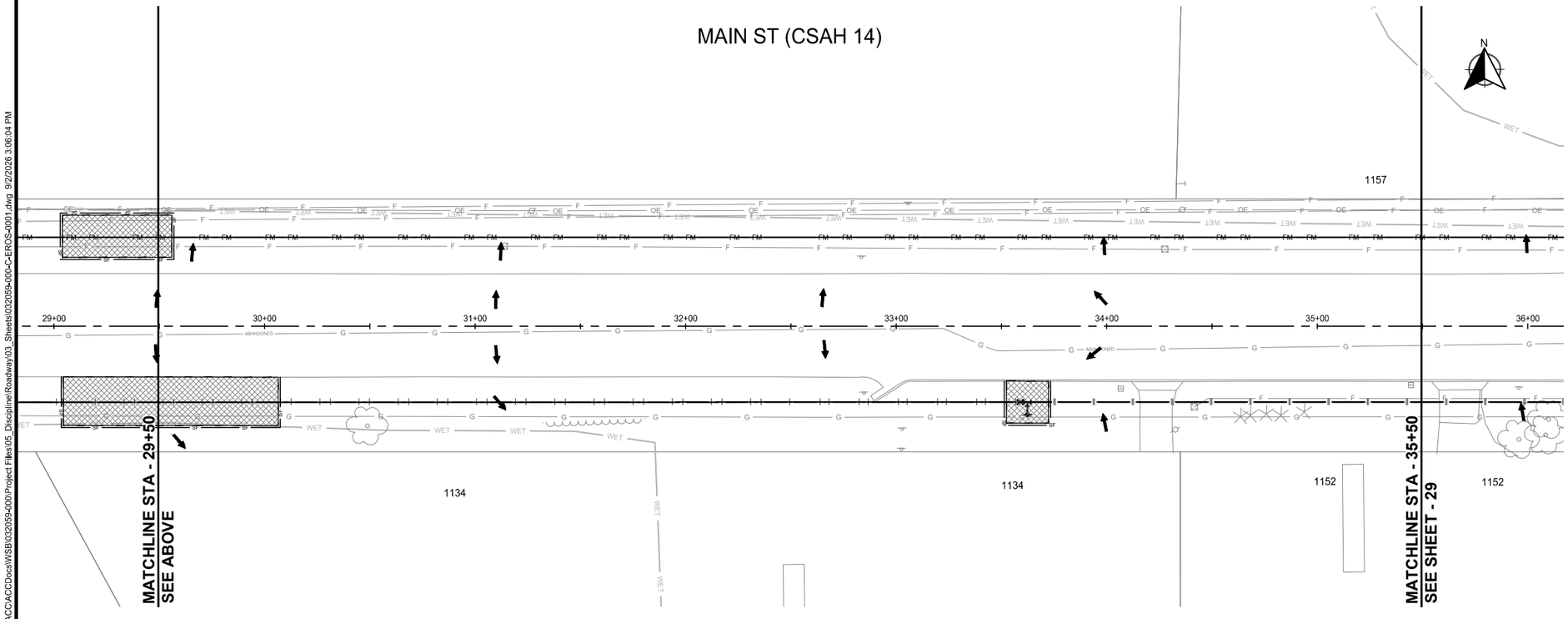
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0 30 60
H: SCALE IN FEET



LEGEND

- CONSTRUCTION LIMITS
- INLET PROTECTION
- FLOW DIRECTION
- SF — SEDIMENT CONTROL LOG TYPE WOOD FIBER
- WET DITCH: TEMP: RAPID STABILIZATION METHOD 4 PERM: MNDOT SEED WET DITCH @ 20 LBS/ACRE WITH FERTILIZER TYPE 4 @ 120 LBS/ACRE AND EROSION CONTROL BLANKET (CAT 25/WOOD FIBER)
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wsb

CITY OF LINO LAKES

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EROSION CONTROL PLANS

2026 PUBLIC WORKS FACILITY
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CITY OF LINO LAKES, MN

WSB PROJECT NO.
032059-000

SHEET
28 OF 30

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MAIN ST (CSAH 14)

1157 1157 1189 1189

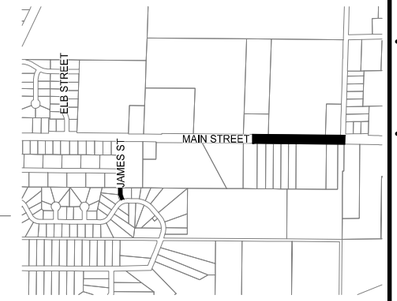
35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00

1152 1152 1160 1166 1174 1178 1182 1190

MATCHLINE STA - 35+50
SEE SHEET - 28

N

LOCATION



H: 0 30 60
SCALE IN FEET

JANE AVE

KELLY ST

963 7965 980 968 969 990

50+00 51+00 52+00 53+00 54+00

25' DRAINAGE & UTILITY EASEMENT

MATCHLINE STA - 53+00
SEE SHEET - 30

LEGEND
- CONSTRUCTION LIMITS
- INLET PROTECTION
- FLOW DIRECTION
- SEDIMENT CONTROL LOG TYPE WOOD FIBER
- WET DITCH: TEMP: RAPID STABILIZATION METHOD 4 PERM: MNDOT SEED WET DITCH @ 20 LBS/ACRE WITH FERTILIZER TYPE 4 @ 120 LBS/ACRE AND EROSION CONTROL BLANKET (CAT 25/WOOD FIBER)
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wsb

CITY OF LINO LAKES

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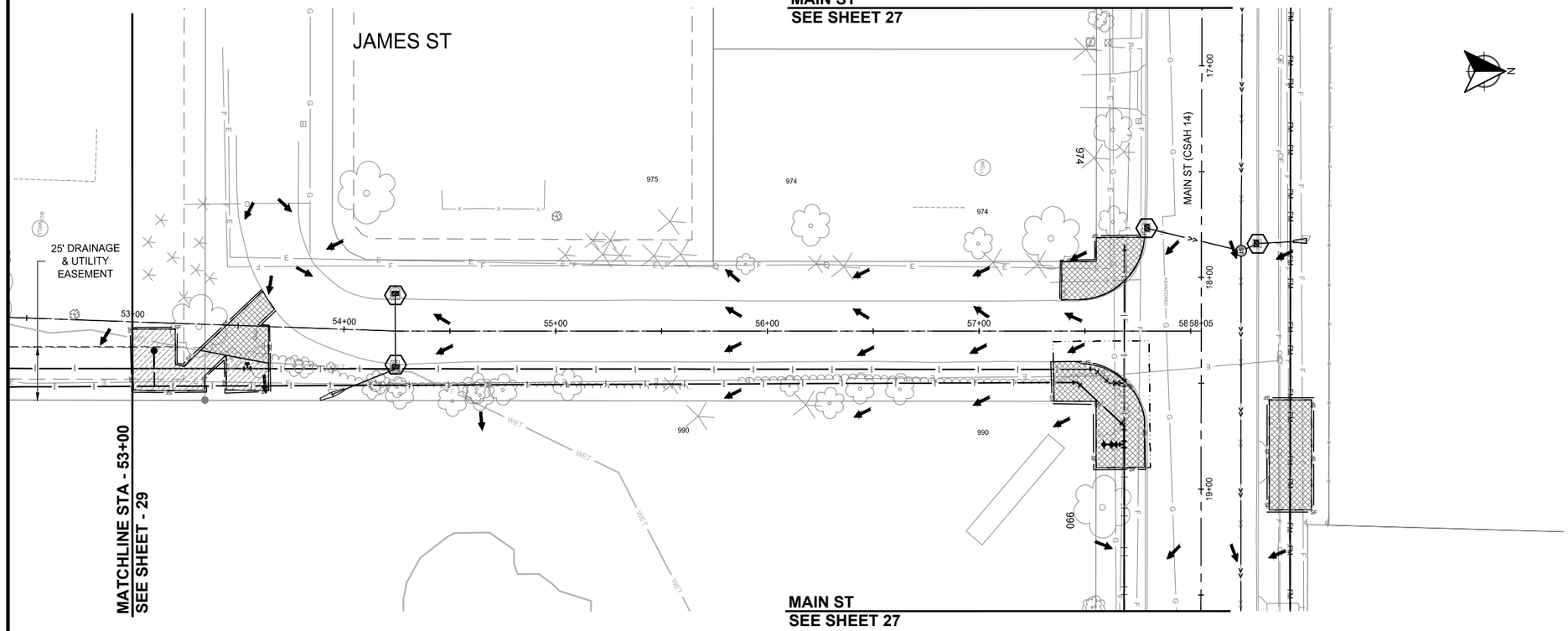
EROSION CONTROL PLANS

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CITY OF LINO LAKES, MN

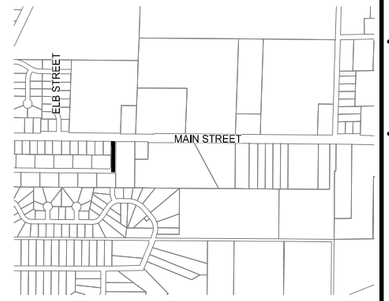
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SHEET
29 OF 30

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LOCATION



0 30 60
H: SCALE IN FEET

wsb

CITY OF LINO LAKES

SCALE:	DESIGN BY:
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PLAN BY:	CHECK BY:
CPK	PTH

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DATE: 08-10-2026 LIC. NO: 23359

EROSION CONTROL PLANS

2026 PUBLIC WORKS FACILITY
UTILITY EXTENSION PROJECT
CITY OF LINO LAKES, MN

LEGEND

- CONSTRUCTION LIMITS
- INLET PROTECTION
- FLOW DIRECTION
- SF — SEDIMENT CONTROL LOG TYPE WOOD FIBER
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WSB PROJECT NO.
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SHEET
30 OF 30

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