WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MN

CONSTRUCTION PLAN FOR WATERMAIN AND RESTORATION

LOCATED ON BIRCH ST (CSAH 34) FROM 12TH AVE TO 300' WEST OF 12TH AVE

12TH AVE FROM BIRCH ST (CSAH 34) TO 400' SOUTH OF BIRCH ST (CSAH 34)



PROJECT LOCATION MAP

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

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 28, T31N R22W

HORIZONTAL DATUM: NAD83 (1996 ADJ)
VERTICAL DATUM: NAVD88

N

0 100 200
H: 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: 262122747

UTILITY COORDINATION MEETING HELD ON: 09/03/2026

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

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	MISCELLANEOUS DETAILS
5-6	TRAFFIC CONTROL PLAN
7-8	WATERMAIN PLAN
9	EROSION CONTROL PLAN

CITY OF LINO LAKES

THIS PLAN SET CONTAINS 9 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.

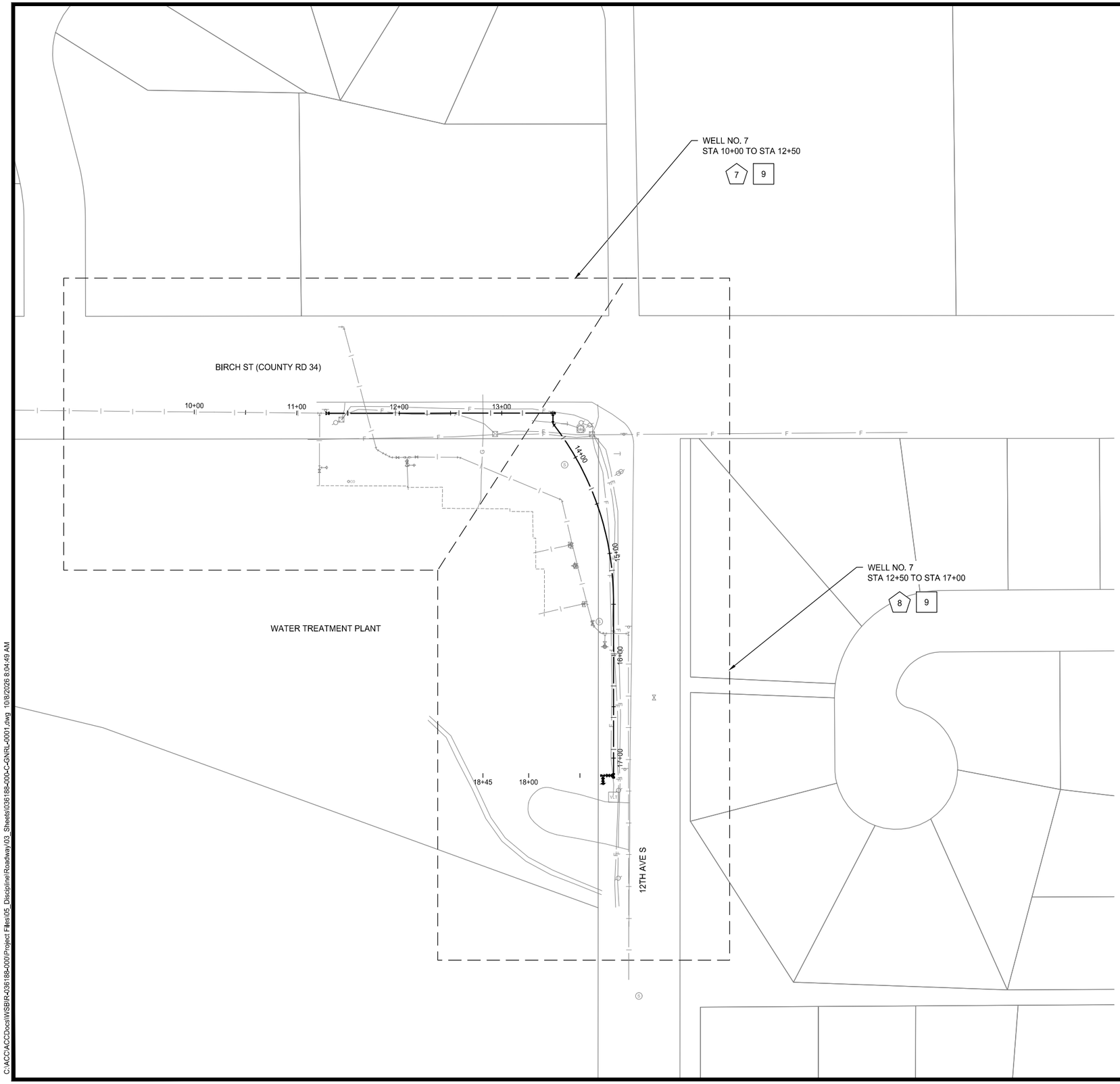
PAUL HORNBY, P.E.

DATE: 10/01/2026 LICENSE NUMBER: 23359

WSB PROJ. NO. 036188-000

SHEET 1 OF 9

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CITY OF LINO LAKES

wsb

WSB PROJECT NO.:
036188-000

SCALE:	DESIGN BY:
SHOWN	ATH
PLAN BY:	CHECK BY:
ATH	PTH

REVISIONS

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PAUL HORNBY, P.E.

DATE: 10/01/2026 LIC. NO.: 23359

WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

GENERAL LAYOUT

SHEET
2 OF 9

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NO.	MNDOT SPECIFICATION NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
A. WELL NO. 7 WATERMAIN EXTENSION					
	1	2021.501	MOBILIZATION	LS	1
	2	2104.502	SALVAGE SIGN	EACH	1
	3	2106.601	DEWATERING	LS	1
1	4	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	5
1	5	2123.610	UTILITY CREW	HOUR	5
2	6	2504.601	WATER MANHOLE	L S	1
	7	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	1
	8	2504.602	HYDRANT	EACH	1
	9	2504.602	6" GATE VALVE & BOX	EACH	1
	10	2504.602	12" GATE VALVE & BOX	EACH	1
	11	2504.602	24" GATE VALVE & BOX	EACH	1
	12	2504.602	SACRIFICIAL ANODE BAG (32 LB)	EACH	2
	13	2504.603	6" WATERMAIN DUCTILE IRON CL 52	L F	7
3	14	2504.603	12" PVC WATERMAIN	L F	140
3	15	2504.603	12" PVC WATERMAIN (DIRECTIONAL DRILLED)	L F	290
3	16	2504.603	24" PVC WATERMAIN	L F	38
3	17	2504.603	24" PVC WATERMAIN (DIRECTIONAL DRILLED)	L F	180
	18	2504.608	DUCTILE IRON FITTINGS	LB	1123
	19	2563.601	TRAFFIC CONTROL	LS	1
	20	2564.502	INSTALL SIGN	EACH	1
	21	2573.501	STABILIZED CONSTRUCTION EXIT	LS	1
	22	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	L F	1520
1	23	2574.507	COMMON TOPSOIL BORROW	C Y	120
	24	2574.508	FERTILIZER TYPE 3	LB	90
	25	2575.504	ROLLED EROSION PREVENTION CATEGORY 20	S Y	1200
	26	2575.505	SEEDING	ACRE	0.23
	27	2575.508	HYDRAULIC STABILIZED FIBER MATRIX	LB	863
	28	2575.523	WATER	MGAL	2
1,6	29	2575.608	SEED OATS	LB	20
1, 5	30	2575.608	SEED WINTER WHEAT	LB	30
1, 4	31	2575.608	SEED MESIC INSLOPE	LB	30

NOTES

1.) TO BE USED AS DIRECTED BY THE ENGINEER.
2.) 60" DIAMETER
3.) DR18 (235 PSI CLASS)
4.) MNDOT 25-141
5.) MNDOT 21-112
6.) MNDOT 21-111

CITY OF LINO LAKES

wsb

WSB PROJECT NO.:
036188-000

SCALE: SHOWN
DESIGN BY: ATH
PLAN BY: ATH
CHECK BY: PTH

REVISIONS

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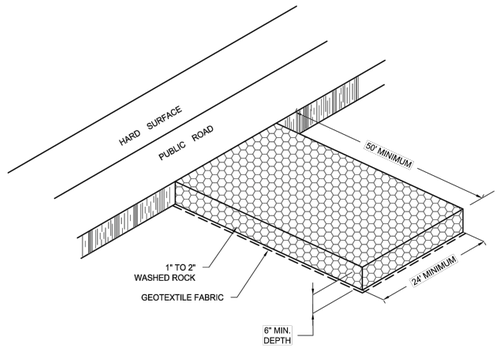
WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

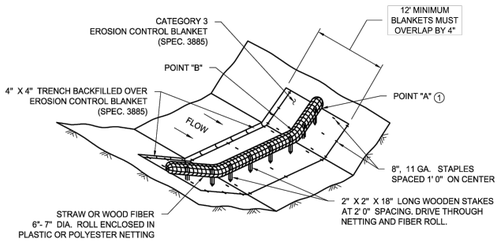
STATEMENT OF ESTIMATED QUANTITIES

SHEET
3 OF 9

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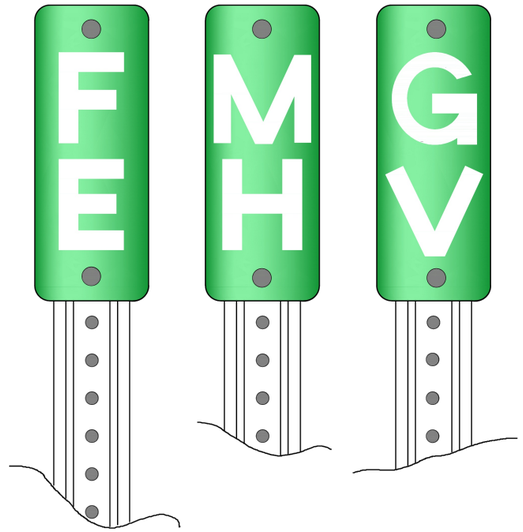
CITY OF LINO LAKES	ROCK CONSTRUCTION ENTRANCE	JUNE 2016 GEN-17



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

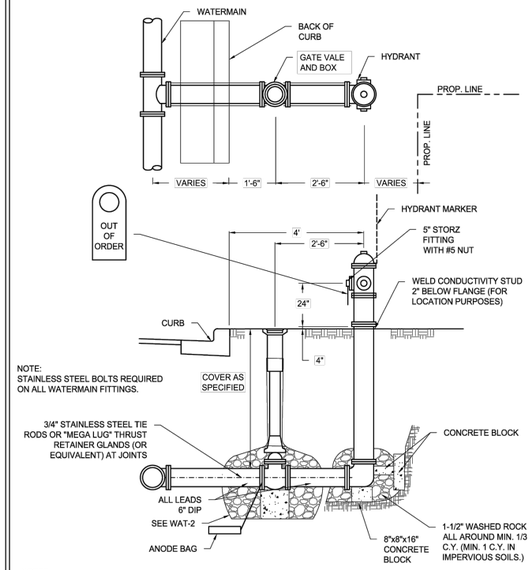
MAINTENANCE:
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE BIOROLL DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE AND THE BARRIER STILL BE 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



NOTES:
1. STRUCTURE MARKER SIGNS SHALL BE FURNISHED AND INSTALLED FOR ALL STRUCTURES LOCATED OUTSIDE OF THE STREET RIGHT OF WAY AND SHALL BE CONSIDERED INCIDENTAL.
2. 0.063" THICK ALUMINUM SIGN. WHITE LETTERS ON GREEN HIGH INTENSITY REFLECTORIZED BACKGROUND.
3. U-CHANNEL POST, MINIMUM 1.2LB./FT. 6'- 6" LONG, PAINTED GREEN.

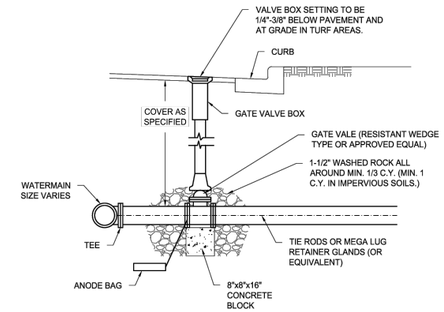
CITY OF LINO LAKES	STREET MARKING SIGNS	MAY 2013 GEN-21



NOTE:
STAINLESS STEEL BOLTS REQUIRED ON ALL WATERMAIN FITTINGS.

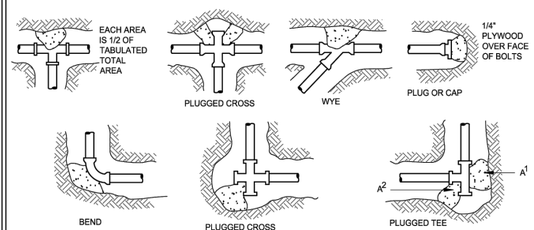
NOTES:
1. ALL FITTINGS SHALL BE MECHANICAL JOINTS.
2. MEGALUG OPTION PERMITTED UPON CITY REVIEW.
3. HYDRANTS SHALL HAVE 16" BREAKAWAY SECTION.
4. NO EXTENSIONS ARE ALLOWED.
5. GATE VALVE SHALL MEET ALL REQUIREMENTS OF WAT-2.
6. VENTED CAP.
7. HYDRANT TO BE INSTALLED WITH "OUT OF ORDER" TAG AND MARKER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

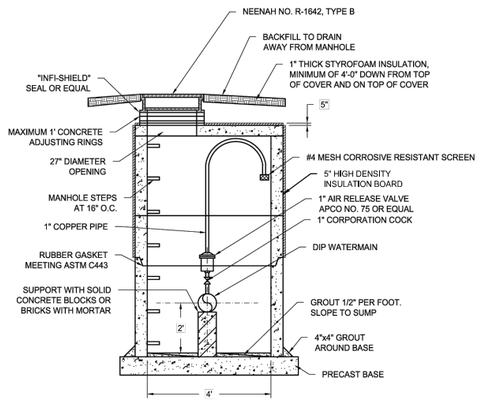
CITY OF LINO LAKES	GATE VALVE AND BOX INSTALLATION	FEBRUARY 2020 WAT-2



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

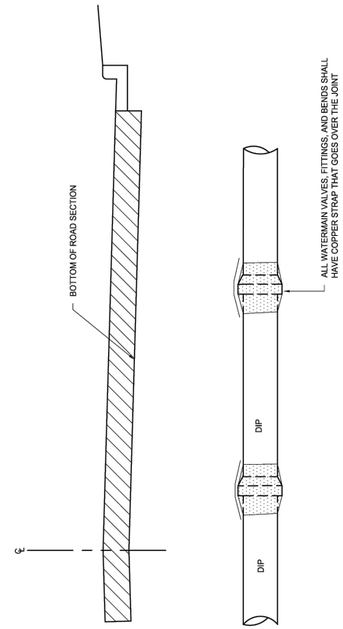
1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. REQUIRED BEARING AREAS AT FITTING SHALL BE AS NOTED ABOVE, UNLESS INDICATED OTHERWISE.
4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON THE PLANS TAKE PRECEDENCE OVER BEARING 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. 2 STRIPS BITUMASTIC SEAL AT SLAB JOINTS.
2. HEIGHT OF STRUCTURE SHALL VARY.

CITY OF LINO LAKES	AIR RELEASE MANHOLE - SOLID MANHOLE BASE	JANUARY 2024 WAT-6



CITY OF LINO LAKES	COPPER STRAP OVER WATERMAIN FITTINGS	JANUARY 2026 WAT-7

CITY OF LINO LAKES

wsb

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PLAN BY: ATH	CHECK BY: PTH

REVISIONS

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PAUL HORNBY, P.E.
DATE: 10/01/2026 LIC. NO: 23359

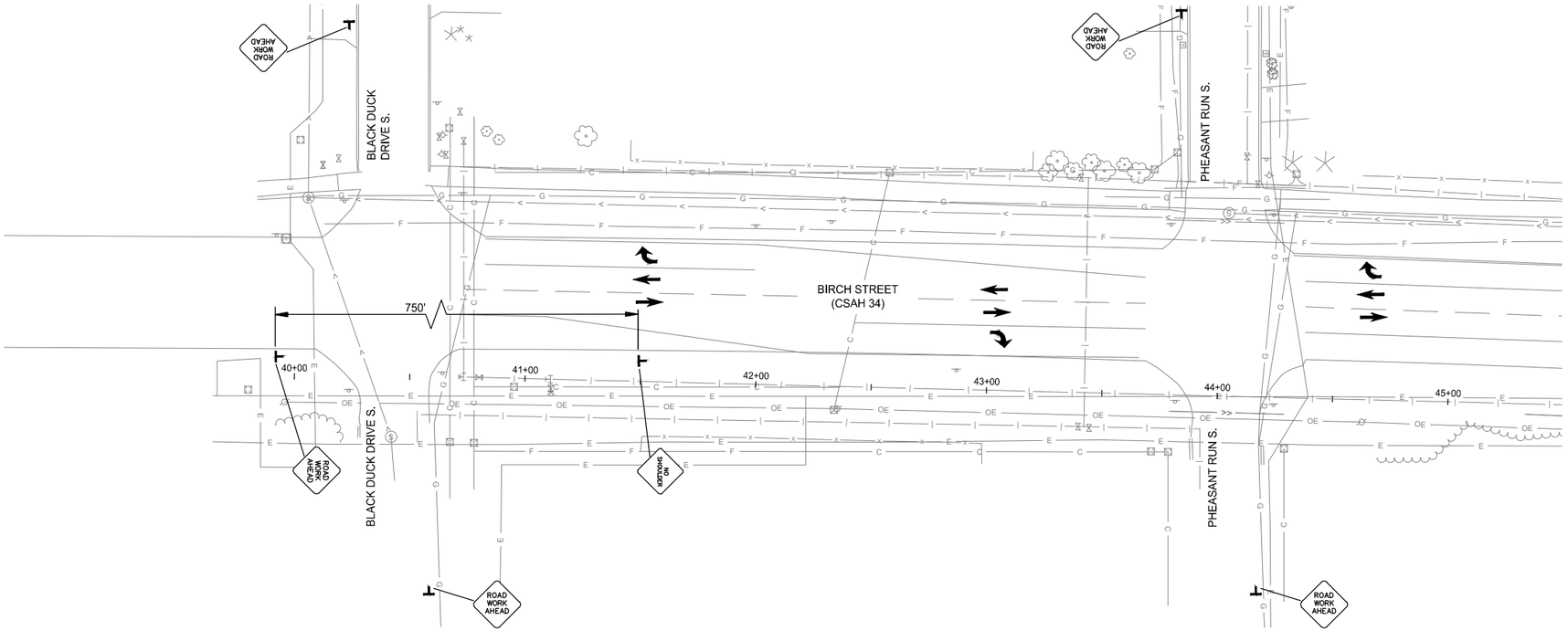
WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

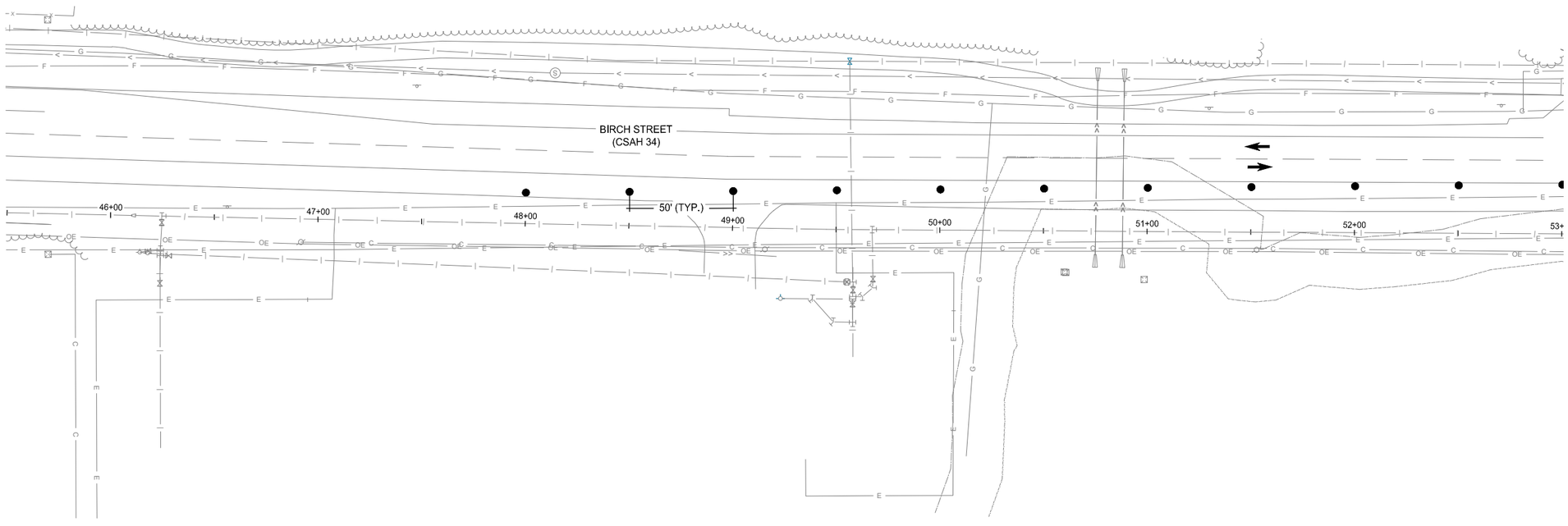
MISCELLANEOUS DETAILS

SHEET 4 OF 9

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BIRCH STREET (CSAH 34)



LOCATION



N

0 30 60
H: SCALE IN FEET

LEGEND

- WORK AREA
- TRAFFIC CONTROL SIGN
- DRUM-LIKE CHANNELEIZER (TYPE B)
- TYPE III BARRICADE
- DIRECTION OF TRAVEL

NOTES:
1. THE CONTRACTOR SHALL PROTECT EXISTING PAVEMENT FROM INCURRING DAMAGE DURING CONSTRUCTION (INCIDENTAL).

CITY OF LINO LAKES

wsb

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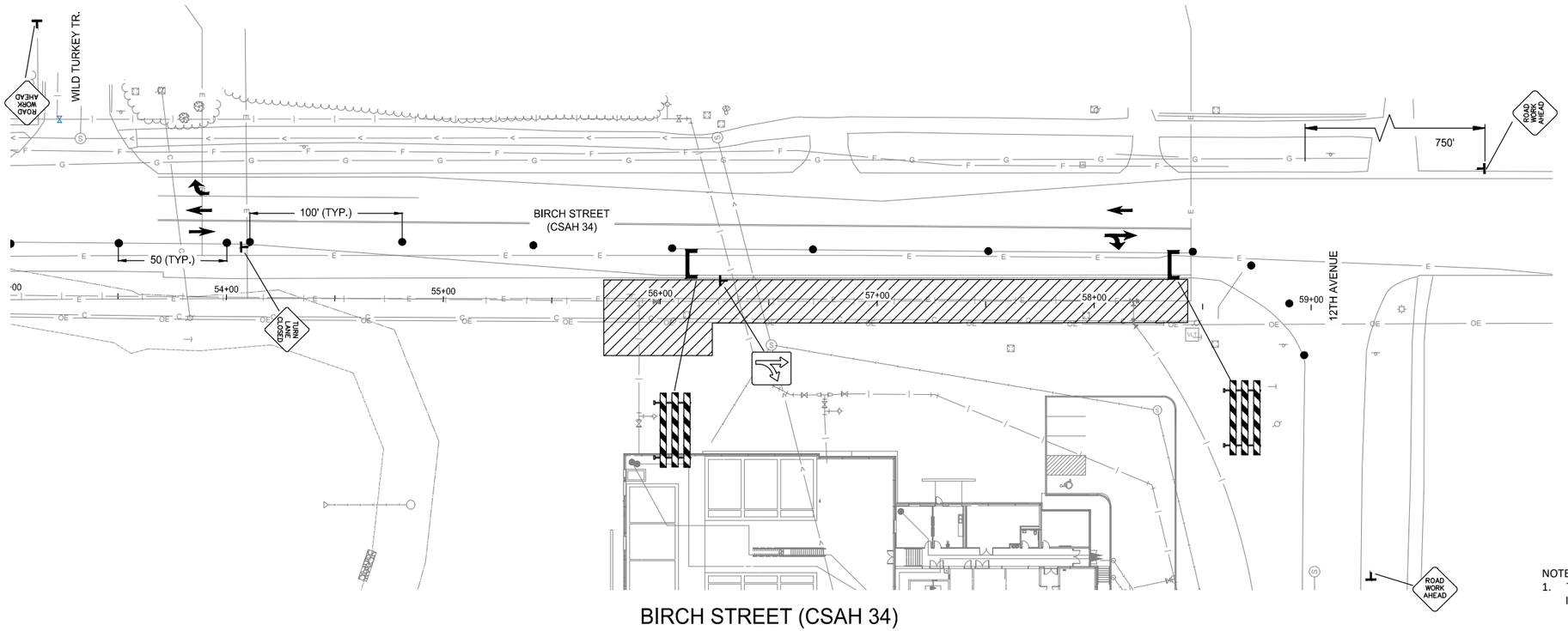
DATE: 10/01/2026

WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

TRAFFIC CONTROL PLAN

SHEET 5 OF 9



BIRCH STREET (CSAH 34)

LOCATION



LEGEND

- WORK AREA
- TRAFFIC CONTROL SIGN
- DRUM-LIKE CHANNELEIZER (TYPE B)
- TYPE III BARRICADE
- DIRECTION OF TRAVEL

NOTES:

1. THE CONTRACTOR SHALL PROTECT EXISTING PAVEMENT FROM INCURRING DAMAGE DURING CONSTRUCTION (INCIDENTAL).

CITY OF LINO LAKES

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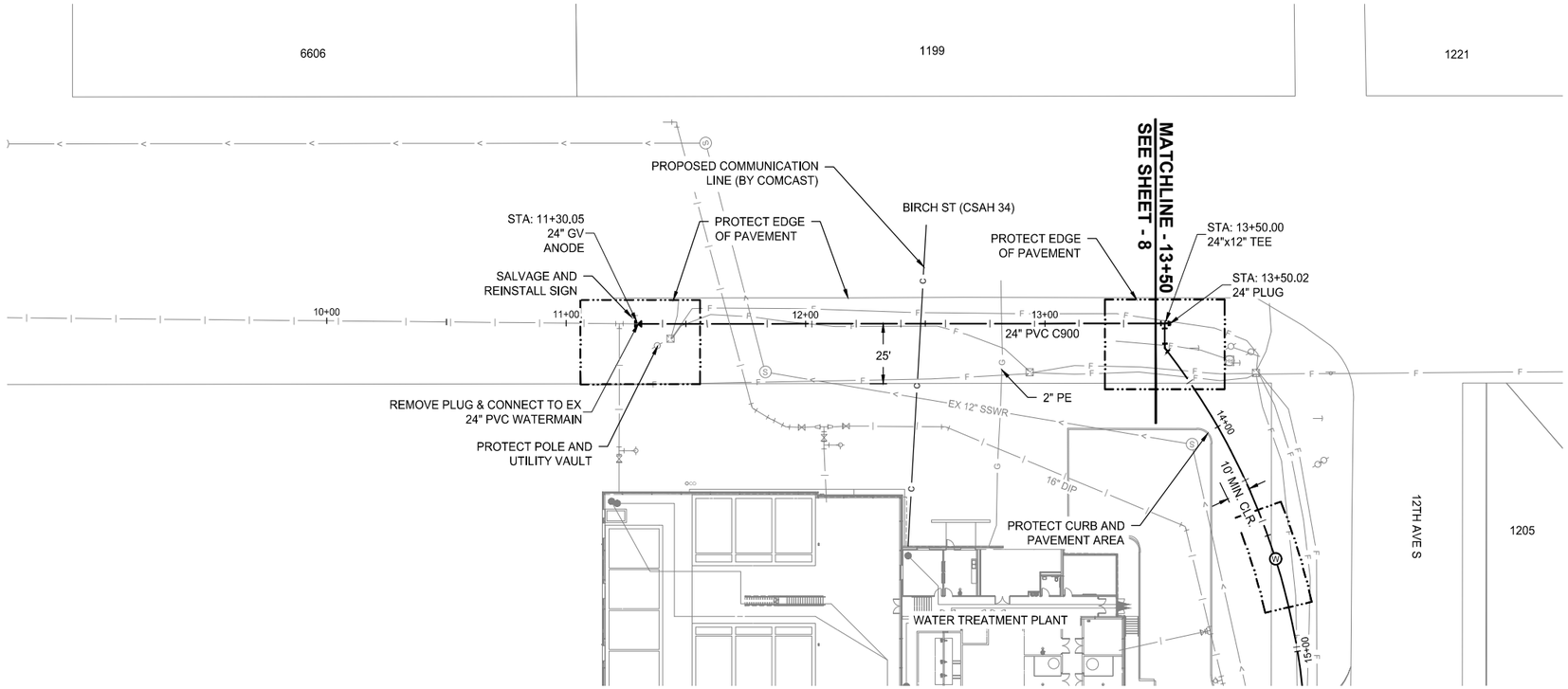
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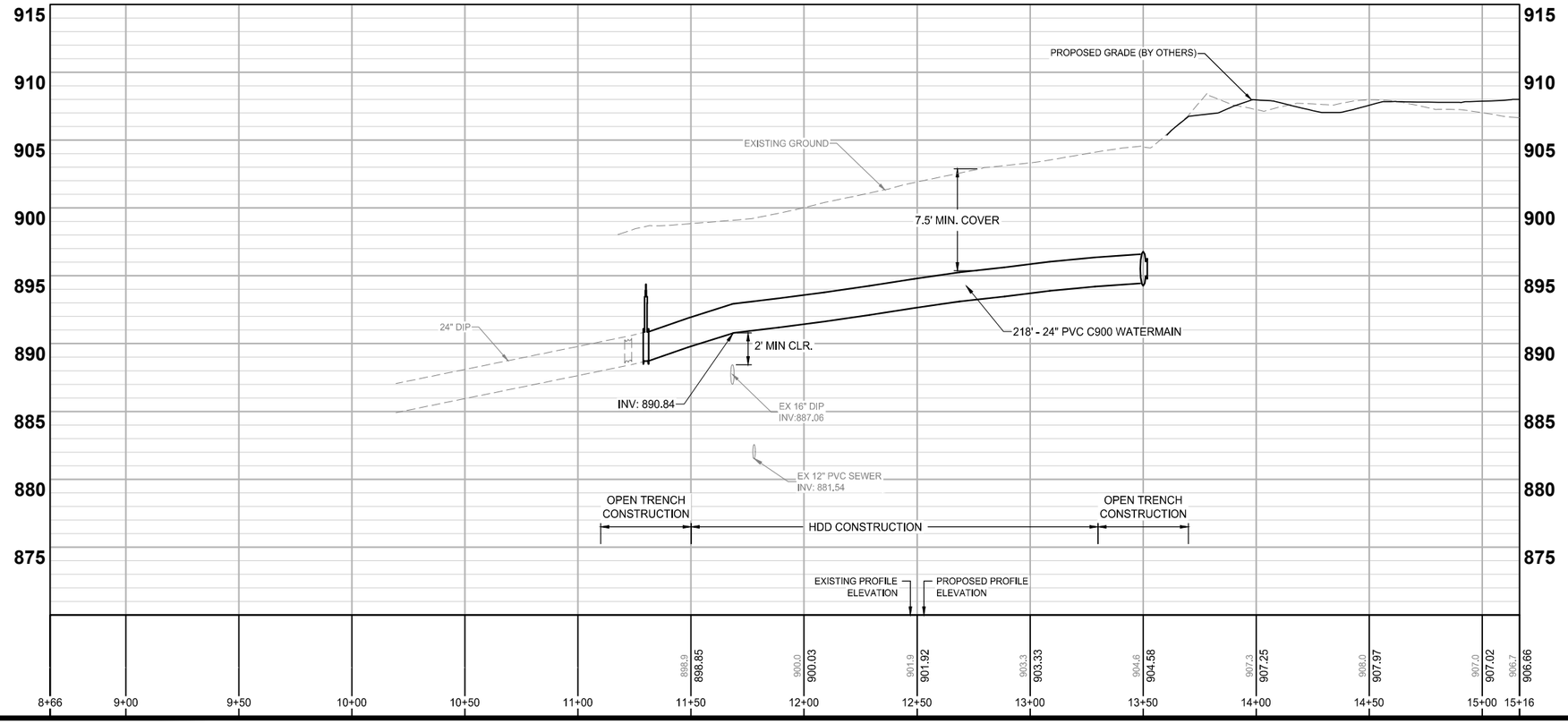
CITY OF LINO LAKES, MINNESOTA

TRAFFIC CONTROL PLAN

SHEET 6 OF 9



WELL NO. 7



LOCATION



N

H: 0 30 60 SCALE IN FEET

V: 0 5 10 SCALE IN FEET

LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED PVC C900 WATERMAIN
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE AND BOX
- PROPOSED DUCTILE IRON FITTINGS
- PROPOSED AIR RELEASE MANHOLE

NOTES

1. CONTRACTOR SHALL USE RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT EXISTING FACILITIES THAT ARE NOT SHOWN FOR SALVAGE OR REMOVAL (INCIDENTAL).
2. CONTRACTOR SHALL COORDINATE SUPPORT OF OTHER UTILITIES SUCH AS UTILITY POLES WITH THE UTILITY OWNER (INCIDENTAL).
3. CONTRACTOR SHALL SUPPORT UNDERGROUND UTILITIES THAT ARE WITHIN OPEN TRENCH EXCAVATION AREAS (INCIDENTAL).
4. CONTRACTOR SHALL LOCATE ALL UTILITIES CROSSING THE PROPOSED WATERMAIN PRIOR TO HDD OPERATIONS.

CITY OF LINO LAKES

wsb

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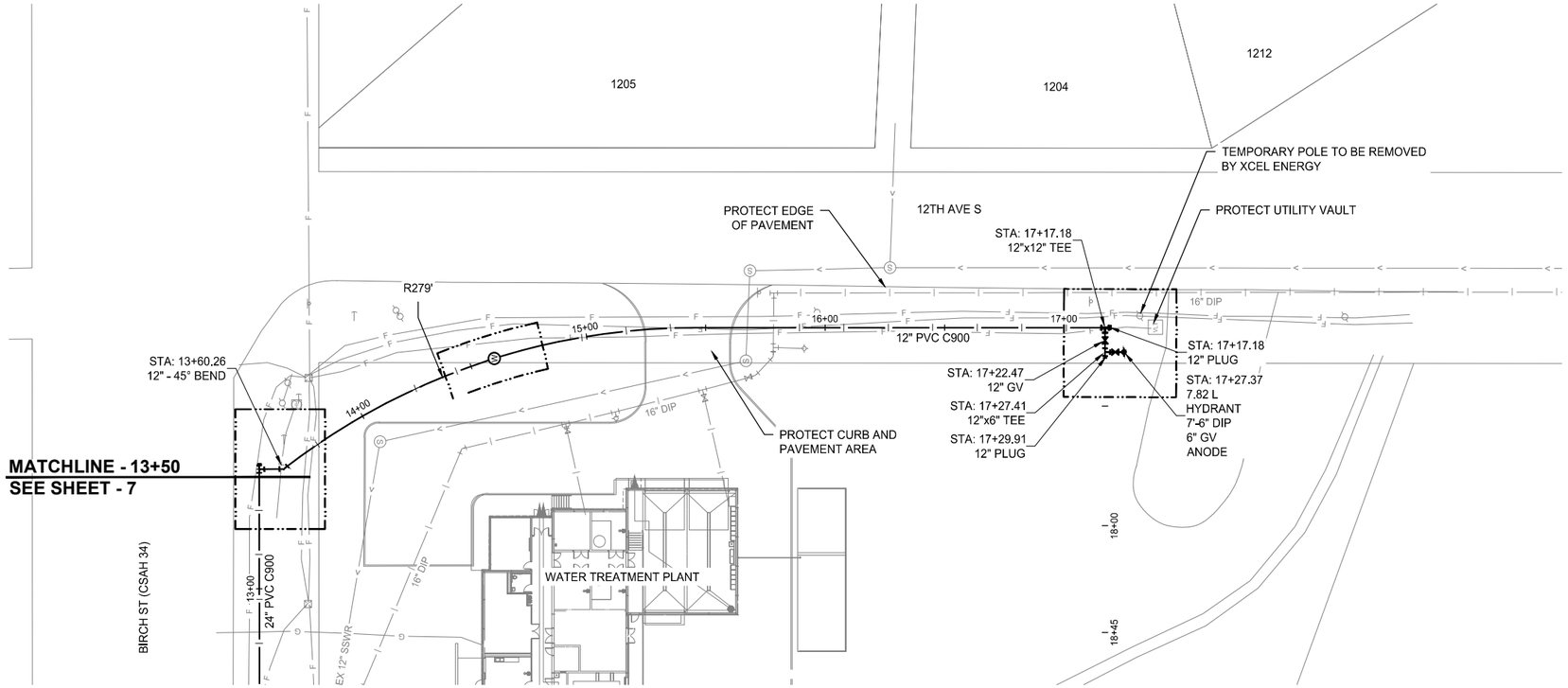
WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

WATERMAIN PLAN

SHEET 7 OF 9

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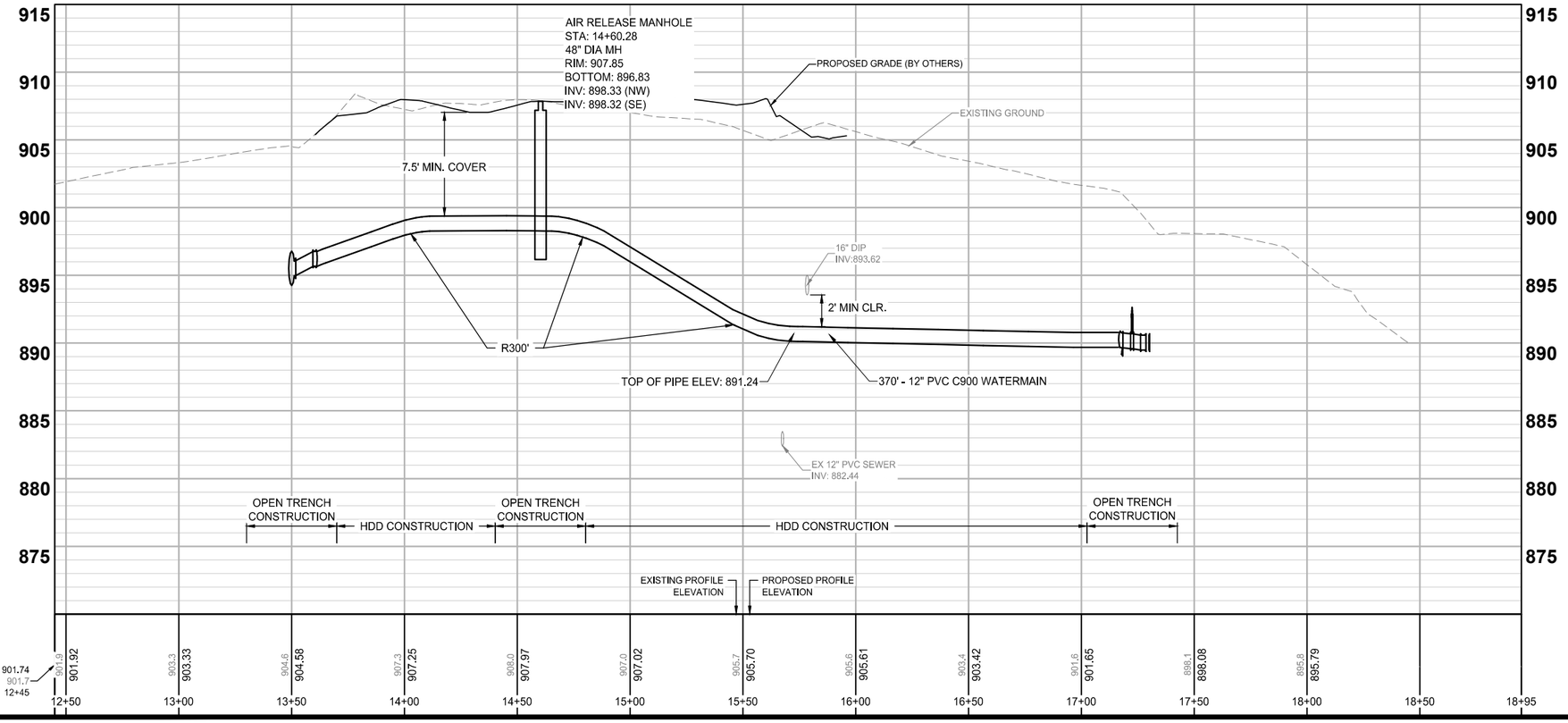
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V: 0 5 10 SCALE IN FEET

WELL NO. 7



LEGEND

- CONSTRUCTION LIMITS
- EXISTING WATERMAIN
- PROPOSED PVC C900 WATERMAIN
- EXISTING HYDRANT WITH VALVE
- PROPOSED HYDRANT WITH VALVE AND BOX
- PROPOSED DUCTILE IRON FITTINGS
- PROPOSED AIR RELEASE MANHOLE

NOTES

1. CONTRACTOR SHALL USE RESTRICTED TRENCH CONSTRUCTION METHODS TO PROTECT EXISTING FACILITIES THAT ARE NOT SHOWN FOR SALVAGE OR REMOVAL (INCIDENTAL).
2. CONTRACTOR SHALL COORDINATE SUPPORT OF OTHER UTILITIES SUCH AS UTILITY POLES WITH THE UTILITY OWNER (INCIDENTAL).
3. CONTRACTOR SHALL SUPPORT UNDERGROUND UTILITIES THAT ARE WITHIN OPEN TRENCH EXCAVATION AREAS (INCIDENTAL).
4. CONTRACTOR SHALL LOCATE ALL UTILITIES CROSSING THE PROPOSED WATERMAIN PRIOR TO HDD OPERATIONS.

CITY OF LINO LAKES

wsb

WSB PROJECT NO.: 036188-000

SCALE:	DESIGN BY:
SHOWN	ATH
PLAN BY:	CHECK BY:
ATH	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, P.E. LIC. NO: 23359

DATE: 10/01/2026

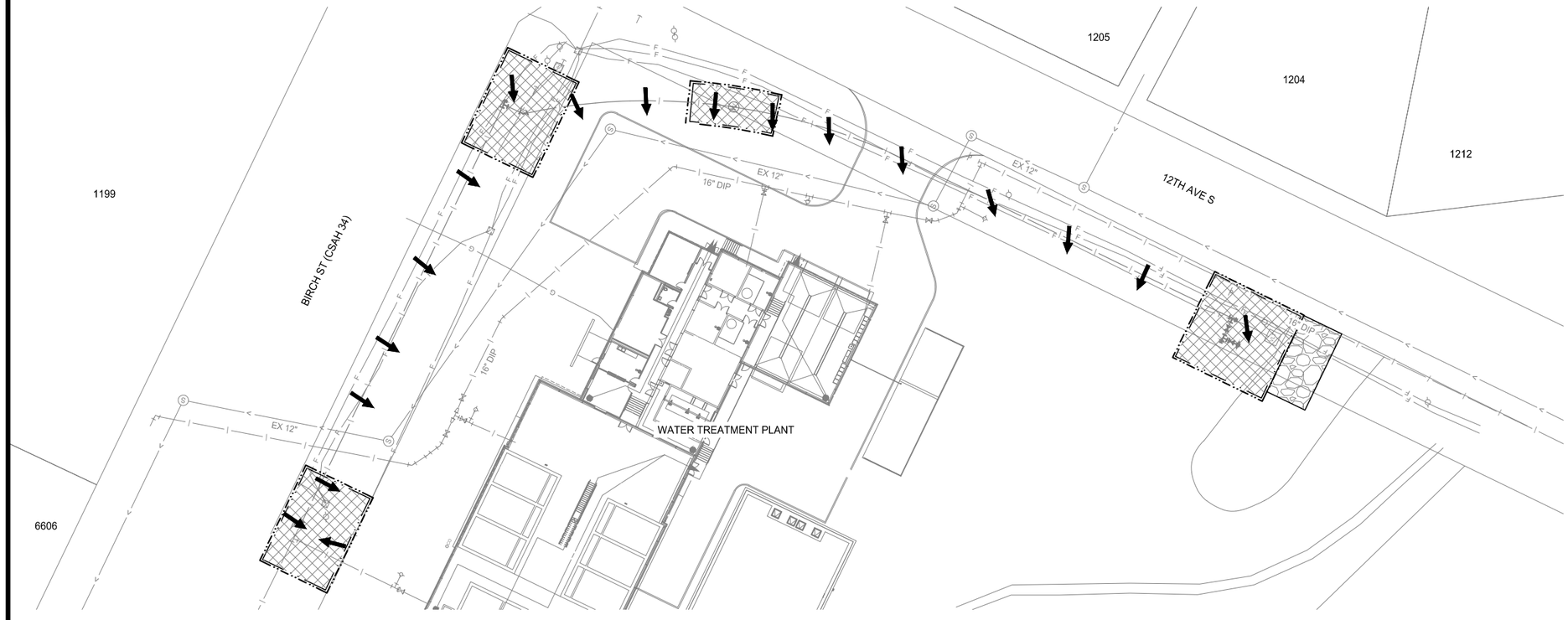
WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

WATERMAIN PLAN

SHEET 8 OF 9

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WELL NO. 7

LOCATION



0 30 60
H: SCALE IN FEET

0 5 10
V: SCALE IN FEET

NOTES:

TEMPORARY: FALL COVER LESS THAN 1 YEAR; 21-112 @ 100 LBS/AC WITH HYDRO TACKIFIER

TEMPORARY: SPRING COVER LESS THAN 1 YEAR; 21-111 @ 100 LBS/AC WITH HYDRO TACKIFIER

PERMANENT: BASIN/DITCH SLOPES AND SITE - IN SLOPES AND REGULARLY MOWED AREAS; 25-141 LBS/AC @ WITH EROSION CONTROL BLANKETS CATEGORY 20/25 OR HYDRO TACKIFIER.

LEGEND

- CONSTRUCTION LIMITS
- FLOW DIRECTION
- BIOROLL
- STABILIZED CONSTRUCTION EXIT
- SEED MIXTURE 25-141

CITY OF LINO LAKES

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PAUL HORNBY, P.E.

DATE: 10/01/2026 LIC. NO.: 23359

WELL NO. 7 RAW WATERMAIN EXTENSION

CITY OF LINO LAKES, MINNESOTA

EROSION CONTROL PLAN

SHEET 9 OF 9

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