











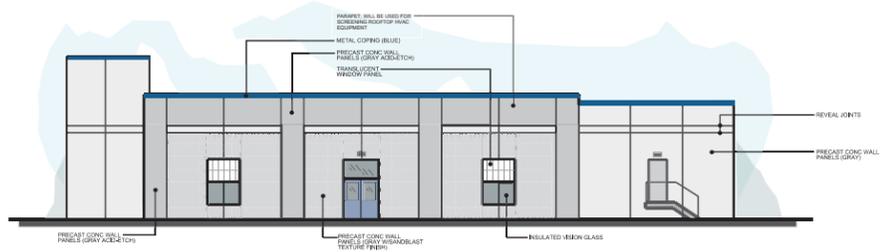


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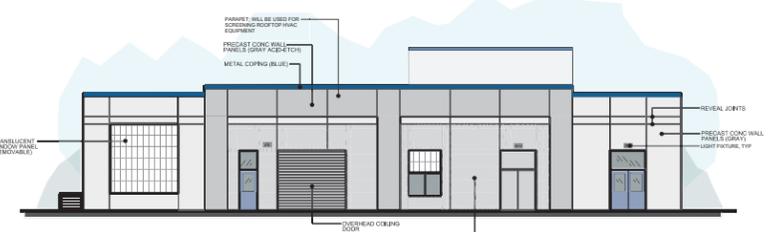
A  
B  
C  
D



WEST ELEVATION



SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION

SCC FAC 300 NORTH ELEVATION

**Jacobs**

McCARRONS WATER TREATMENT  
PROCESS IMPROVEMENT PROJECT  
SAINT PAUL REGIONAL WATER SERVICES  
SAINT PAUL, MINNESOTA

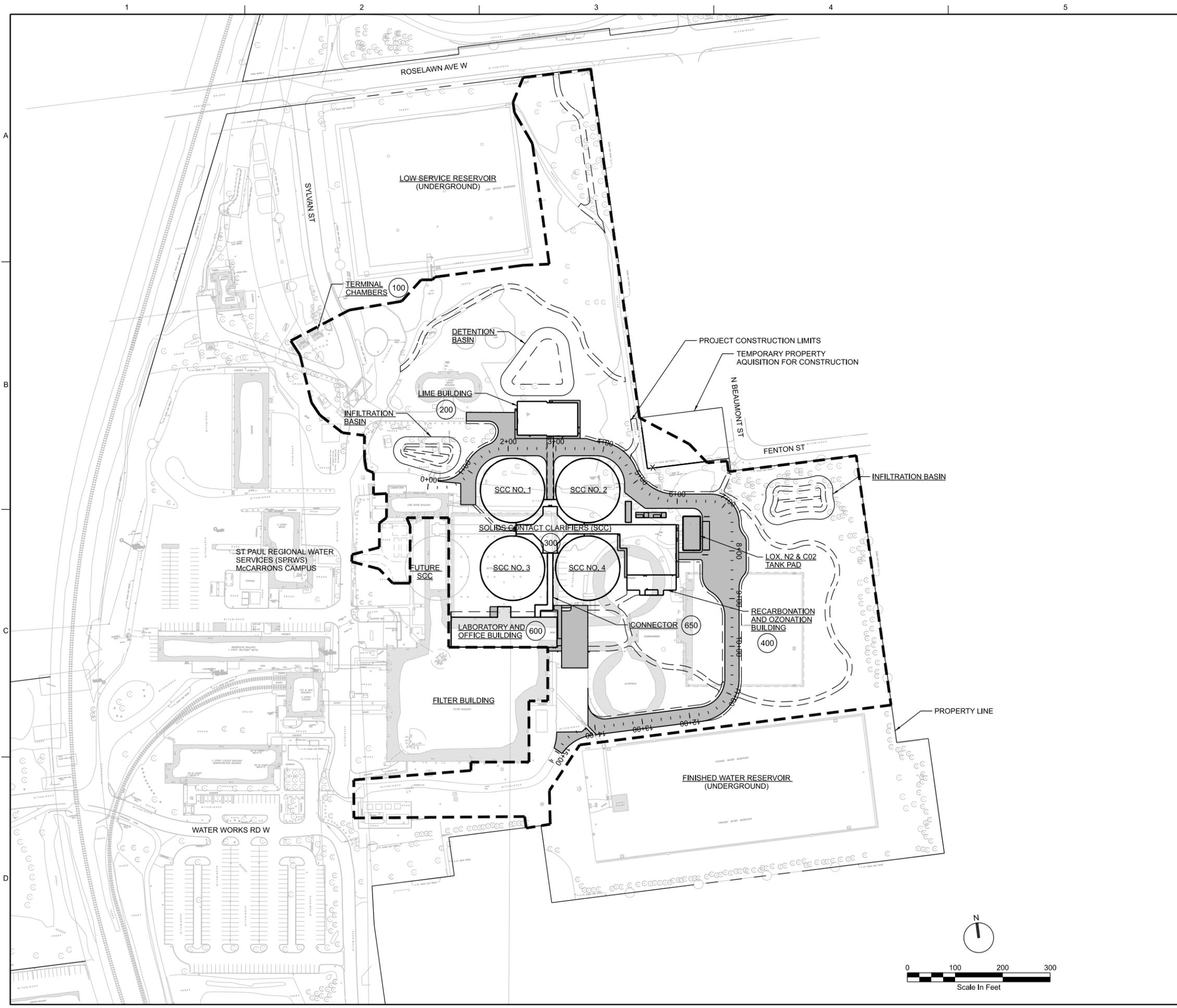
CUP DELIVERABLE  
ARCHITECTURAL  
OZONE - RECARBONATION

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	DECEMBER 2021
PROJ	DBSPRWS1
DWG	002-A-4001
SHEET	of

NO.	DATE	DR	CHK	REVISION	APVD	BY	APVD
		M POWELL	E CARLSON		S SILKWORTH		T MYERS
		DSGN	DR	CHK	APVD		

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CUP/CDRB REVIEW



**GENERAL DWG NOTES**

1.

NO.	DATE	DR	CHK	REVISION	BY	APVD

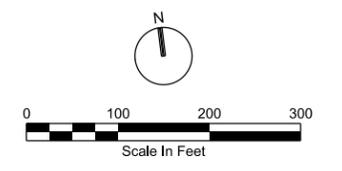
McCarron's Water Treatment Process Improvement Project  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
**OVERALL PROJECT SITE PLAN**

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRW1
DWG	051-C-0002
SHEET	of

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.

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**GENERAL DWG NOTES**

- SEE DRAWINGS 051-C-0011 THROUGH 051-C-0019 FOR TREE REMOVAL AND PRESERVATION PLANS AND 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLES OF TREES.
- TREE SURVEY PROVIDED BY TREE BIZ COMPLETED BY STEPHEN NICHOLSON, CERTIFIED FORESTER.
- PLANTED TREES ARE DESIGNATED ON LANDSCAPING PLANS.

PROJECT TREE SUMMARY FROM ARBORIST INVENTORY *	
19980.0	TOTAL caliper inches of SIGNIFICANT trees on property (B)
6626.0	TOTAL caliper inches of SIGNIFICANT trees REMOVED (A)
33%	PERCENTAGE of total caliper inches of SIGNIFICANT trees REMOVED
231.0	TOTAL caliper inches of specimen trees SAVED (D)
384	TOTAL number of INVENTORIED trees REMOVED on site
1193.0	TOTAL caliper inches of required for MITIGATION (E, calculation below)
236.0	TOTAL number of trees PLANTED on site equal or greater than 2" caliper
0.0	TOTAL number of trees PLANTED on site less than 2" caliper
0.0	TOTAL number of #5 woody shrubs PLANTED on site
507.0	TOTAL caliper inches of PLANTED trees

TREE MITIGATION/REPLACEMENT CALCULATION	
A	TOTAL diameter inches of significant trees lost as a result of the land alteration
B	TOTAL diameter inches of significant trees situated on the property
C	Tree replacement Constant (1.5)
D	TOTAL diameter of specimen trees saved
E	Replacement trees (number of caliper inches)
$(((A/B - 0.2) \times C) \times A) - [D/2] = E$	
$(((6,626/19980 - 0.2) \times 1.5) \times 6626) - [231/2] = E$	
1193.0 = E	

\* SEE NOTE 1.



**Jacobs**

CIVIL  
**OVERALL SITE TREE REMOVAL AND PRESERVATION KEY PLAN**

McCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

NO.	DATE	DR	DESIGN	REVISION	CHK	BY

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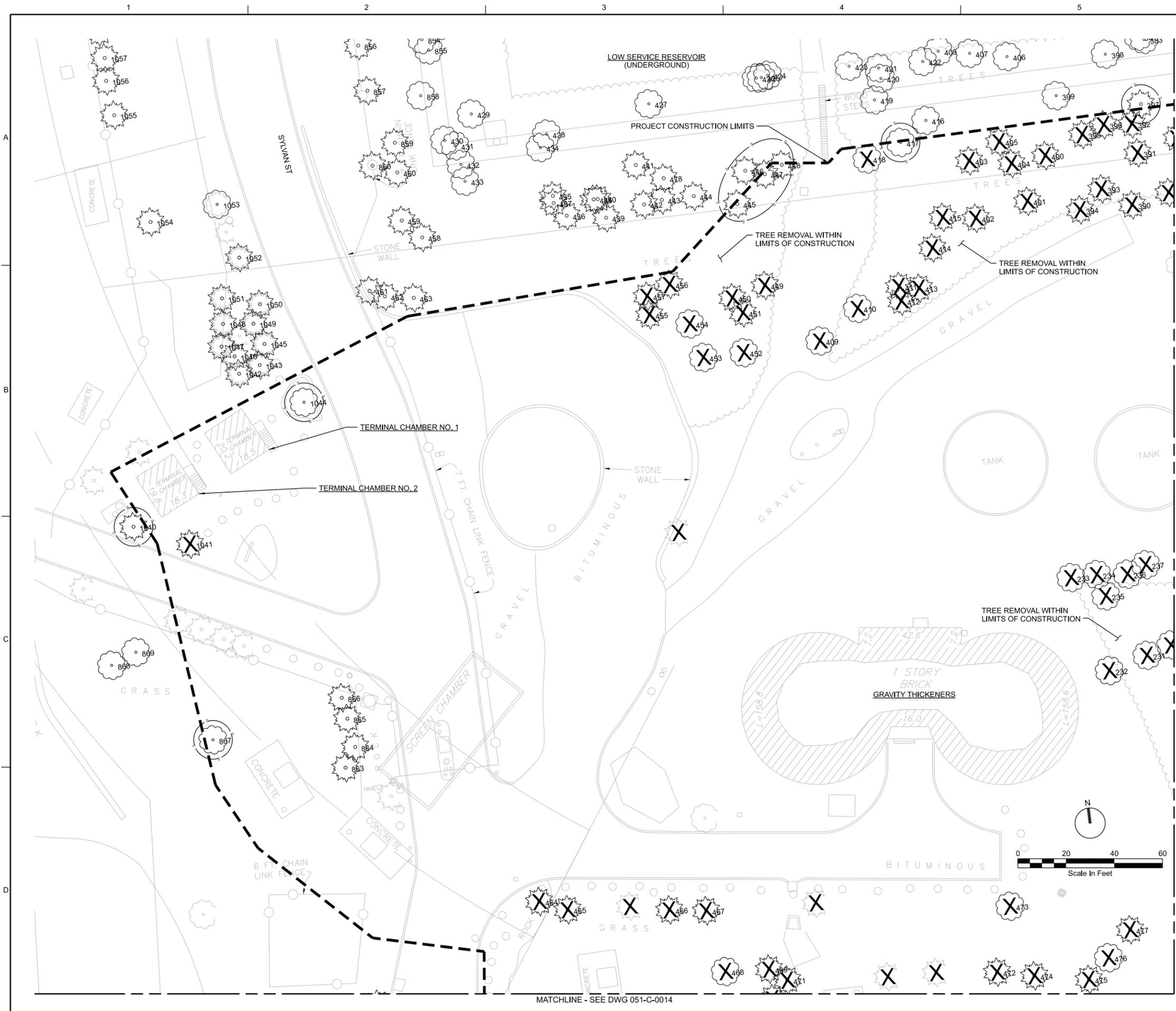
SIGNATURE: \_\_\_\_\_  
 TYPED NAME: J. LEE FEASTER  
 DATE: 01/10/2022  
 LIC. NO.: LA-46549

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	051-C-0010
SHEET	of

CUP/CDRB REVIEW

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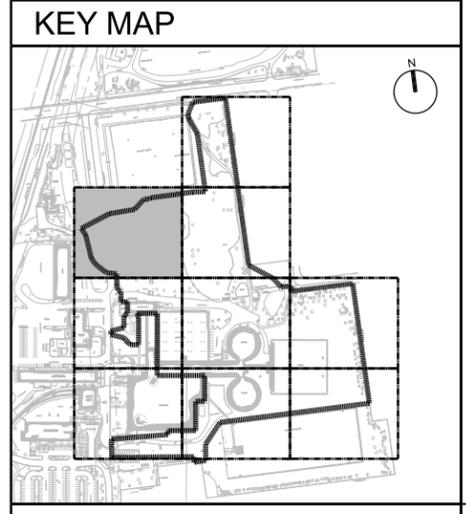


**GENERAL DWG NOTES**

1. SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.

**LEGEND**

- TREE LINE (BASE MAP)
- DECIDUOUS TREE TO REMAIN (BASE MAP)
- CONIFEROUS TREE TO REMAIN (BASE MAP)
- DECIDUOUS TREE TO REMAIN (ARBORIST INVENTORY)
- CONIFEROUS TREE TO REMAIN (ARBORIST INVENTORY)
- ARBORIST INVENTORY TREE NUMBER TYP. SEE NOTE 1
- REMOVE TREE
- PROTECT TREE, SEE DETAIL 1, DRAWING 051-C-0020



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SIGNATURE: \_\_\_\_\_

TYPED NAME: J. LEE FEASTER

DATE: 01/10/2022

LIC. NO.: LA-46549

MCCARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT		SAINT PAUL REGIONAL WATER SERVICES		SAINT PAUL, MINNESOTA	
R. TOWNSEND		R. TOWNSEND		J. NESSL	
DR		CHK		BY	
NO.		DATE		APVD	
DGN		REVISION		APVD	
T. MYERS		T. MYERS		T. MYERS	

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**JACOBS**

CIVIL

**TREE REMOVAL AND PRESERVATION PLAN AREA 2**

VERIFY SCALE

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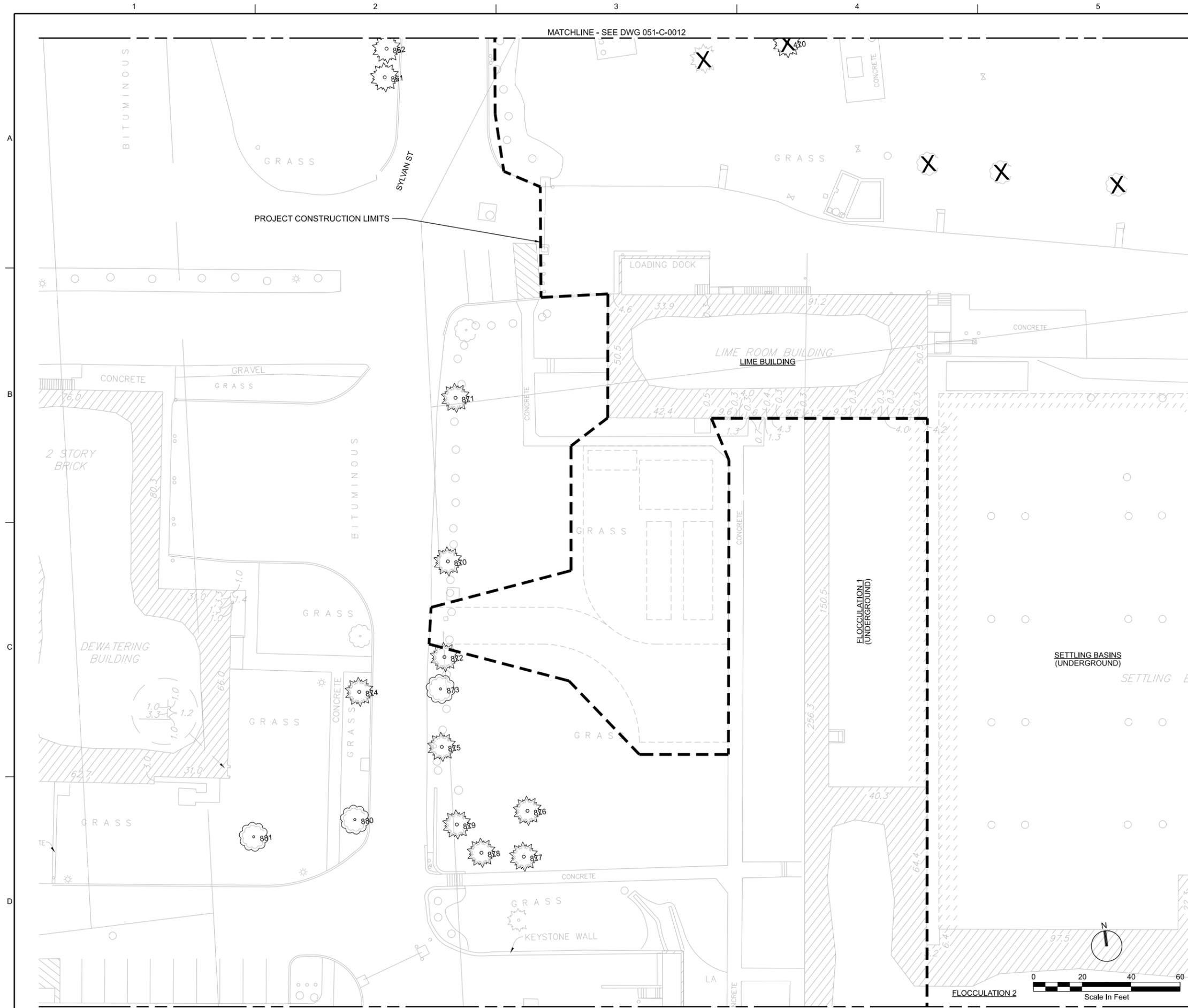
DATE: JANUARY 2022

PROJ: DBSPRWS1

DWG: 051-C-0012

SHEET: \_\_\_\_\_ of \_\_\_\_\_



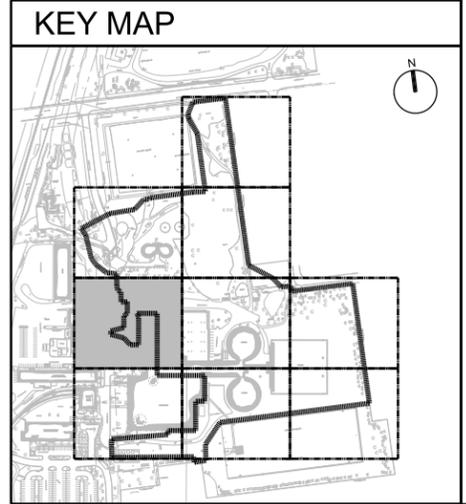


**GENERAL DWG NOTES**

1. SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.

**LEGEND**

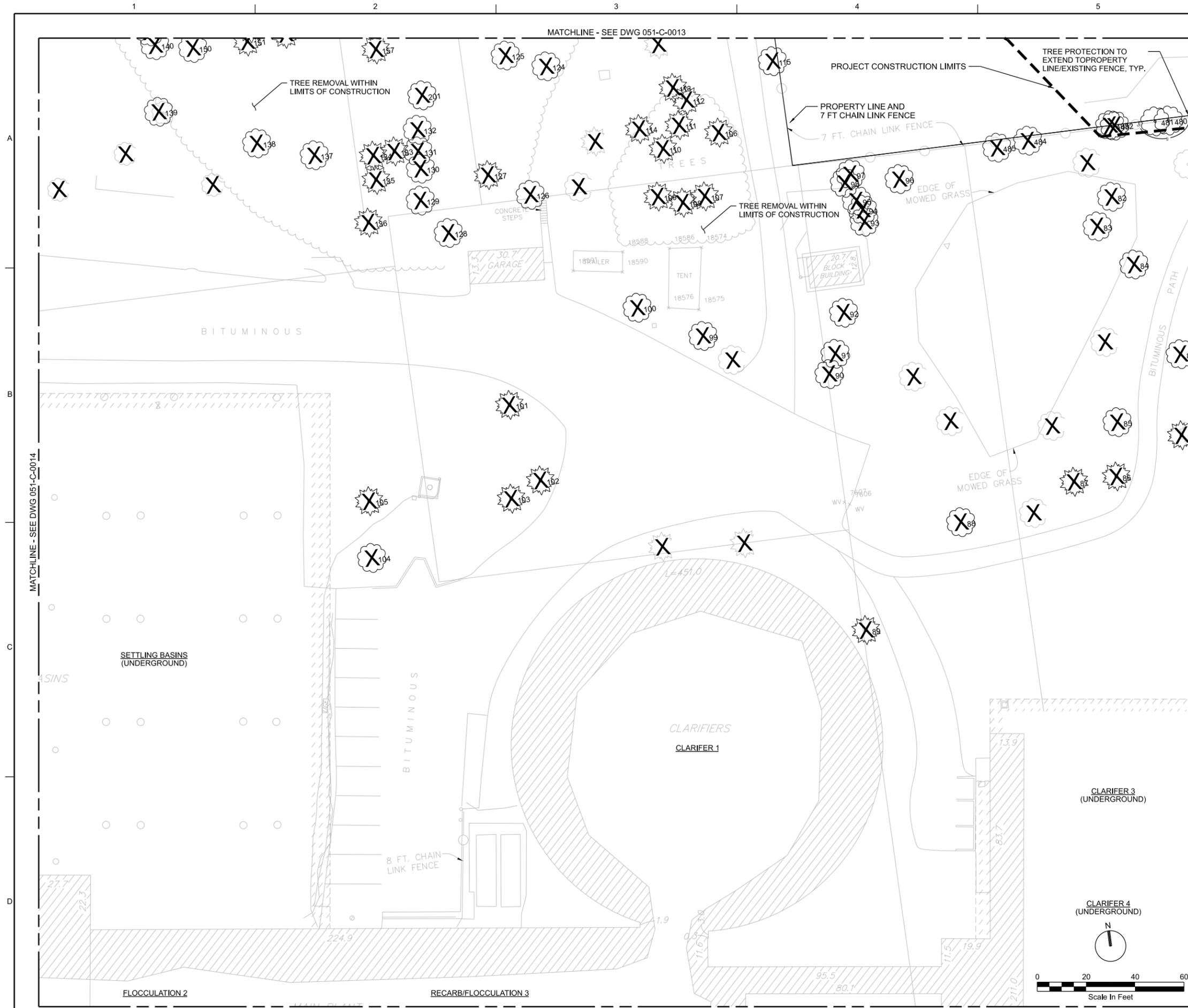
- TREES TREE LINE (BASE MAP)
- DECIDUOUS TREE TO REMAIN (BASE MAP)
- CONIFEROUS TREE TO REMAIN (BASE MAP)
- DECIDUOUS TREE TO REMAIN (ARBORIST INVENTORY)
- CONIFEROUS TREE TO REMAIN (ARBORIST INVENTORY)
- ARBORIST INVENTORY TREE NUMBER TYP. SEE NOTE 1
- REMOVE TREE
- PROTECT TREE, SEE DETAIL 1, DRAWING 051-C-0020



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: J. LEE FEASTER  
 DATE: 01/10/2022  
 LIC. NO.: LA-46549

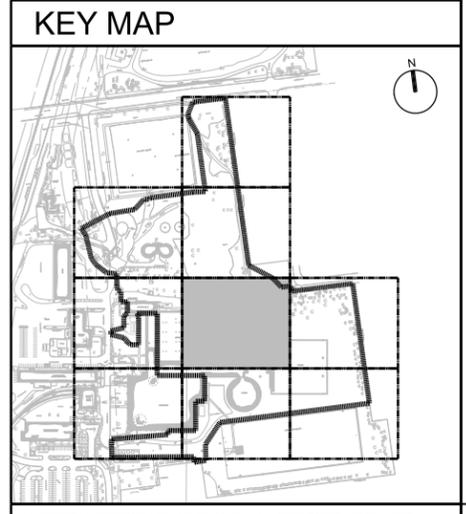
DESIGN		CHECK		APPROVED	
NO.	DATE	DR	CHK	REVISION	BY
		R. TOWNSEND	J. NESSL		T. MYERS
<b>Jacobs</b> CIVIL <b>TREE REMOVAL AND PRESERVATION PLAN AREA 4</b>			McCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.					
DATE		PROJ		DWG	
JANUARY 2022		DBSPRWS1		051-C-0014	
SHEET		of			



### GENERAL DWG NOTES

1. SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.

- ### LEGEND
- TREE LINE (BASE MAP)
  - DECIDUOUS TREE TO REMAIN (BASE MAP)
  - CONIFEROUS TREE TO REMAIN (BASE MAP)
  - DECIDUOUS TREE TO REMAIN (ARBORIST INVENTORY)
  - CONIFEROUS TREE TO REMAIN (ARBORIST INVENTORY)
  - ARBORIST INVENTORY TREE NUMBER TYP. SEE NOTE 1
  - REMOVE TREE
  - PROTECT TREE, SEE DETAIL 1, DRAWING 051-C-0020



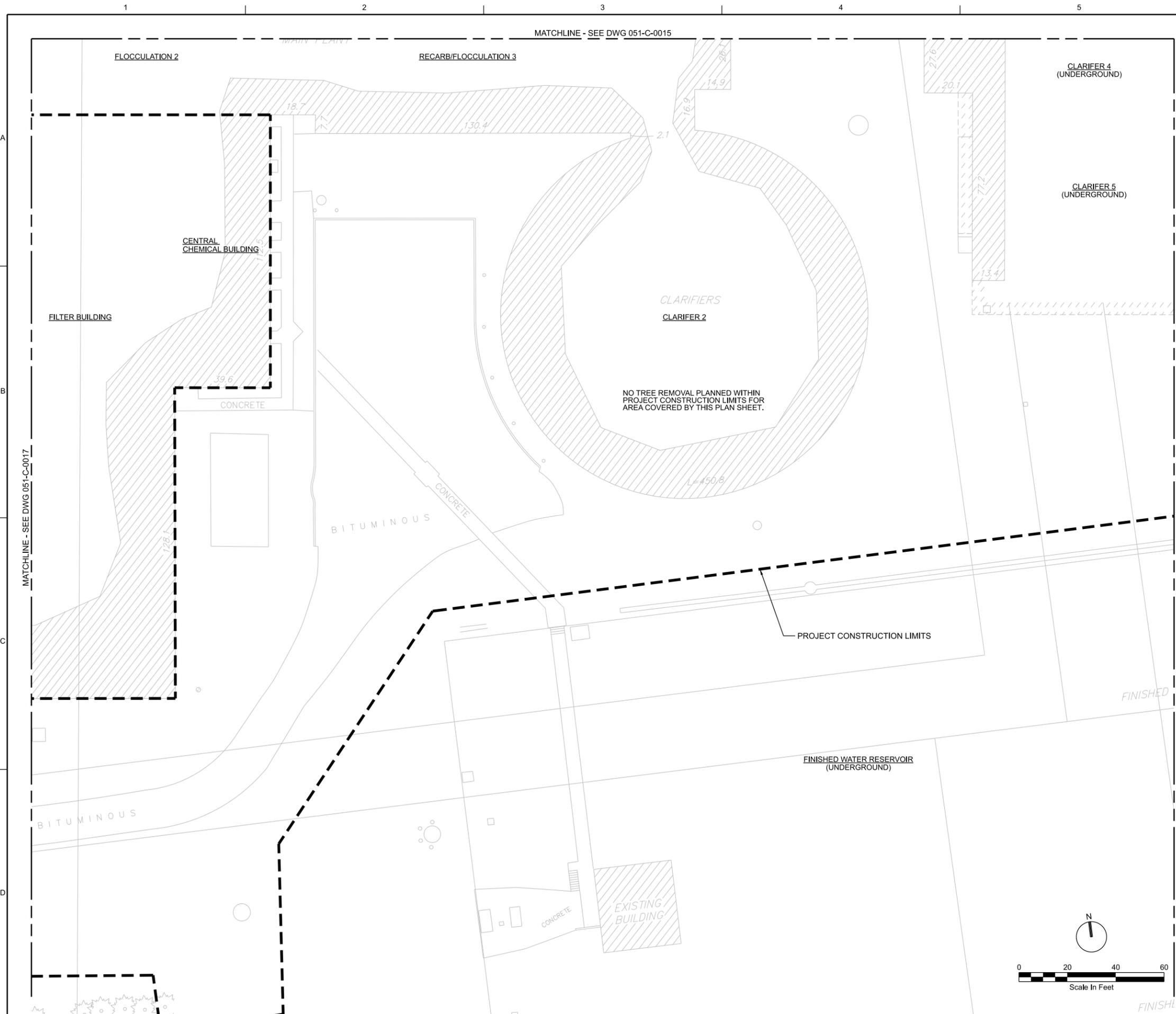
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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: J. LEE FEASTER  
 DATE: 01/10/2022  
 LIC. NO.: LA-46549

McCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		DR R. TOWNSEND J. NESSL T. MYERS
CIVIL TREE REMOVAL AND PRESERVATION PLAN AREA 5	NO. DATE REVISION CHK APVD BY APVD	CUP/CDRB REVIEW
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: JANUARY 2022 PROJ: DBSPRWS1 DWG: 051-C-0015 SHEET: _____ of _____







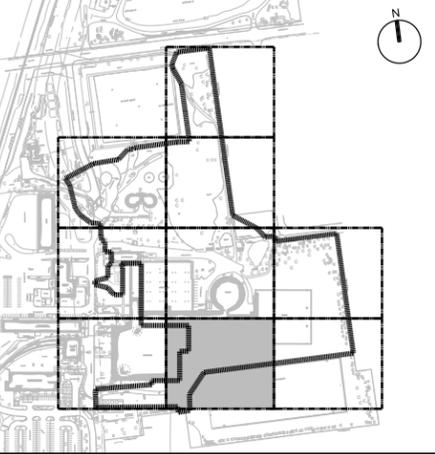
**GENERAL DWG NOTES**

1. SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.

**LEGEND**

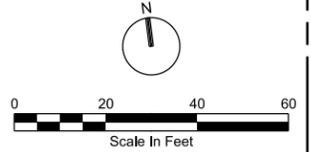
- TREE LINE (BASE MAP)
- DECIDUOUS TREE TO REMAIN (BASE MAP)
- CONIFEROUS TREE TO REMAIN (BASE MAP)
- DECIDUOUS TREE TO REMAIN (ARBORIST INVENTORY)
- CONIFEROUS TREE TO REMAIN (ARBORIST INVENTORY)
- ARBORIST INVENTORY TREE NUMBER TYP. SEE NOTE 1
- REMOVE TREE
- PROTECT TREE, SEE DETAIL 1, DRAWING 051-C-0020

**KEY MAP**



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: J. LEE FEASTER  
 DATE: 01/10/2022  
 LIC. NO.: LA-46549



NO.	DATE	DR	CHK	BY

DESIGN	R. TOWNSHEND	DR	R. TOWNSHEND	CHK	J. NESSL	BY	APVD	T. MYERS

McCARRON'S WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
 TREE REMOVAL AND  
 PRESERVATION PLAN  
 AREA 8

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	051-C-0018
SHEET	of

CUP/CDRB REVIEW





TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED	TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED	TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED
1	PINE	11.5	GOOD	1	CONIFER	NO	YES	REMOVE	100	ASH, GREEN	13.5	GOOD	1	HARDWOOD	NO	YES	REMOVE	200	MAPLE, SILVER	25.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE
2	PINE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE	101	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	REMOVE	201	COTTONWOOD	50.0	FAIR	1	SOFTWOOD	YES	YES	REMOVE
3	PINE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE	102	SPRUCE	8.0	GOOD	1	CONIFER	NO	YES	REMOVE	202	MAPLE, SILVER	22.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
4	PINE	13.5	GOOD	1	CONIFER	NO	YES	REMOVE	103	SPRUCE	8.0	FAIR	1	CONIFER	NO	YES	REMOVE	203	MAPLE, SILVER	13.5	FAIR	1	SOFTWOOD	NO	YES	REMOVE
5	PINE	9.5	GOOD	1	CONIFER	NO	YES	REMOVE	104	MAPLE, RED	9.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	204	MAPLE, SILVER	20.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
6	PINE	12.0	GOOD	1	CONIFER	NO	YES	REMOVE	105	SPRUCE	17.0	GOOD	1	CONIFER	NO	YES	REMOVE	205	MAPLE, SILVER	32.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
7	PINE	10.5	GOOD	1	CONIFER	NO	YES	REMOVE	106	PINE	18.0	GOOD	1	CONIFER	NO	YES	REMOVE	206	MAPLE, SILVER	30.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
8	PINE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE	107	SPRUCE	8.5	FAIR	1	CONIFER	NO	YES	REMOVE	207	MAPLE, SILVER	27.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
9	PINE	11.5	GOOD	1	CONIFER	NO	YES	REMOVE	108	SPRUCE	9.0	FAIR	1	CONIFER	NO	YES	REMOVE	208	MAPLE, SILVER	40.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
10	PINE	9.5	GOOD	1	CONIFER	NO	YES	REMOVE	109	PINE	12.0	GOOD	1	CONIFER	NO	YES	REMOVE	209	MAPLE, SILVER	24.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
11	SPRUCE	8.5	GOOD	1	CONIFER	NO	YES	REMOVE	110	PINE	13.0	GOOD	1	CONIFER	NO	YES	REMOVE	210	ASH, GREEN	20.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
12	PINE	8.5	GOOD	1	CONIFER	NO	YES	REMOVE	111	PINE	17.0	GOOD	1	CONIFER	NO	YES	REMOVE	211	PINE	13.5	GOOD	1	CONIFER	NO	YES	REMOVE
13	PINE	10.5	GOOD	1	CONIFER	NO	YES	REMOVE	112	PINE	13.0	GOOD	1	CONIFER	NO	YES	REMOVE	212	PINE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE
14	PINE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE	113	PINE	13.5	FAIR	1	CONIFER	NO	YES	REMOVE	213	PINE	14.0	GOOD	1	CONIFER	NO	YES	REMOVE
15	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	REMOVE	114	PINE	17.0	GOOD	1	CONIFER	NO	YES	REMOVE	214	PINE	26.0	FAIR	1	CONIFER	NO	YES	REMOVE
16	SPRUCE	9.5	GOOD	1	CONIFER	NO	YES	REMOVE	115	MAPLE, SILVER	21.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE	215	REDCEDAR	14.0	FAIR	1	CONIFER	NO	YES	REMOVE
17	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	REMOVE	116	MAPLE, SILVER	33.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	216	MAPLE, NORWAY	21.0	FAIR	1	HARDWOOD	NO	YES	REMOVE
18	SPRUCE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE	117	MAPLE, SILVER	36.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	217	ELM, AMERICAN	16.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
19	MAPLE, SUGAR	12.0	FAIR	1	HARDWOOD	NO	YES	REMOVE	118	MAPLE, SILVER	17.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE	218	MAPLE, SILVER	13.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE
20	SPRUCE	8.5	GOOD	1	CONIFER	NO	YES	REMOVE	119	MAPLE, SILVER	31.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	219	MAPLE, SILVER	14.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE
21	REDCEDAR	8.5	GOOD	1	CONIFER	NO	YES	REMOVE	120	MAPLE, SILVER	24.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	220	MAPLE, SILVER	13.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
22	PINE	8.0	GOOD	1	CONIFER	NO	YES	REMOVE	121	MAPLE, SILVER	19.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	221	MAPLE, SILVER	16.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
23	MAPLE, AMUR	25.5	FAIR	4	HARDWOOD	NO	YES	REMOVE	122	REDCEDAR	13.5	GOOD	1	CONIFER	NO	YES	REMOVE	222	MAPLE, SILVER	16.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
24	PINE	12.5	FAIR	1	CONIFER	NO	YES	REMOVE	123	REDCEDAR	14.0	FAIR	1	CONIFER	NO	YES	REMOVE	223	MAPLE, SILVER	13.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE
25	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	REMOVE	124	MAPLE, SILVER	26.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE	224	MAPLE, SILVER	15.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE
26	SPRUCE	16.5	GOOD	1	CONIFER	NO	YES	REMOVE	125	MAPLE, SILVER	20.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE	225	MAPLE, SILVER	17.5	FAIR	1	SOFTWOOD	NO	YES	REMOVE
27	SPRUCE	13.0	GOOD	1	CONIFER	NO	YES	REMOVE	126	ELM, AMERICAN	13.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE	226	MAPLE, SILVER	20.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
28	SPRUCE	14.0	GOOD	1	CONIFER	NO	YES	REMOVE	127	PINE	16.5	GOOD	1	CONIFER	NO	YES	REMOVE	227	MAPLE, SILVER	18.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
29	SPRUCE	19.0	GOOD	1	CONIFER	NO	YES	REMOVE	128	ELM, SIBERIAN	21.0	FAIR	2	SOFTWOOD	NO	NO	REMOVE	228	OAK, BUR	15.0	GOOD	1	HARDWOOD	NO	YES	REMOVE
30	SPRUCE	9.5	GOOD	1	CONIFER	NO	YES	REMOVE	129	COTTONWOOD	43.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	229	OAK, BUR	25.5	FAIR	1	HARDWOOD	NO	YES	REMOVE
31	SPRUCE	10.0	GOOD	1	CONIFER	NO	YES	REMOVE	130	COTTONWOOD	28.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE	230	LOCUST, BLACK	7.5	FAIR	1	HARDWOOD	NO	YES	REMOVE
32	MULBERRY	17.0	FAIR	1	HARDWOOD	NO	YES	REMOVE	131	ASH, GREEN	6.5	FAIR	1	HARDWOOD	NO	YES	REMOVE	231	LOCUST, BLACK	12.5	GOOD	1	HARDWOOD	NO	YES	REMOVE
33	REDCEDAR	21.0	GOOD	1	CONIFER	NO	YES	REMOVE	132	COTTONWOOD	26.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE	232	OAK, BUR	31.5	GOOD	1	HARDWOOD	YES	YES	REMOVE
34	SPRUCE	20.0	GOOD	1	CONIFER	NO	YES	REMOVE	133	SPRUCE	8.0	FAIR	1	CONIFER	NO	YES	REMOVE	233	LOCUST, BLACK	8.5	FAIR	1	HARDWOOD	NO	YES	REMOVE
35	SPRUCE	8.0	GOOD	1	CONIFER	NO	YES	REMOVE	134	SPRUCE	13.0	FAIR	1	CONIFER	NO	YES	REMOVE	234	LOCUST, BLACK	7.5	GOOD	1	HARDWOOD	NO	YES	REMOVE
36	MULBERRY	10.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	135	SPRUCE	10.0	FAIR	1	CONIFER	NO	YES	REMOVE	235	LOCUST, BLACK	21.0	GOOD	1	HARDWOOD	NO	YES	REMOVE
37	SPRUCE	12.0	GOOD	1	CONIFER	NO	YES	REMOVE	136	SPRUCE	22.0	FAIR	1	CONIFER	NO	YES	REMOVE	236	LOCUST, BLACK	21.5	GOOD	1	HARDWOOD	NO	YES	REMOVE
38	MULBERRY	11.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	137	MULBERRY	17.0	FAIR	1	HARDWOOD	NO	YES	REMOVE	237	LOCUST, BLACK	9.0	GOOD	1	HARDWOOD	NO	YES	REMOVE
39	SPRUCE	20.5	FAIR	1	CONIFER	NO	YES	REMOVE	138	ELM, SIBERIAN	18.5	GOOD	1	SOFTWOOD	NO	NO	REMOVE	238	ASH, GREEN	9.0	GOOD	1	HARDWOOD	NO	YES	REMOVE
40	WALNUT	15.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	139	COTTONWOOD	64.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	239	MAPLE, SILVER	40.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE
41	WALNUT	10.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	140	LOCUST, BLACK	10.5	GOOD	1	HARDWOOD	NO	YES	REMOVE	240	MAPLE, SILVER	32.0	FAIR	1	SOFTWOOD	YES	YES	REMOVE
42	WALNUT	8.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	141	LOCUST, BLACK	7.5	GOOD	1	HARDWOOD	NO	YES	REMOVE	241	MAPLE, SILVER	14.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE
43	SPRUCE	16.0	FAIR	1	CONIFER	NO	YES	REMOVE	142	LOCUST, BLACK	8.0	FAIR	1	HARDWOOD	NO	YES	REMOVE	242	MAPLE, SILVER	15.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE
44	SPRUCE	10.5	GOOD	1	CONIFER	NO	YES	REMOVE	143	LOCUST, BLACK	8.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	243	MAPLE, SILVER	13.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
45	SPRUCE	13.5	FAIR	1	CONIFER	NO	YES	REMOVE	144	COTTONWOOD	23.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE	244	MAPLE, SILVER	12.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE
46	SPRUCE	16.5	FAIR	1	CONIFER	NO	YES	REMOVE	145	COTTONWOOD	32.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	245	MAPLE, SILVER	17.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
47	SPRUCE	15.5	FAIR	1	CONIFER	NO	YES	REMOVE	146	COTTONWOOD	36.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	246	MAPLE, SILVER	18.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE
48	SPRUCE	20.5	FAIR	1	CONIFER	NO	YES	REMOVE	147	ASH, GREEN	6.0	GOOD	1	HARDWOOD	NO	YES	REMOVE	247	MAPLE, SILVER	20.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
49	MULBERRY	15.0	FAIR	1	HARDWOOD	NO	YES	REMOVE	148	COTTONWOOD	25.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE	248	MAPLE, SILVER	19.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE
50	WALNUT	8.5	GOOD	1	HARDWOOD	NO	YES	REMOVE	149	COTTONWOOD	31.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	249	MAPLE, SILVER	12.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
51	SPRUCE	11.0	GOOD	1	CONIFER	NO	YES	REMOVE	150	COTTONWOOD	34.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	250	MAPLE, SILVER	14.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
52	SPRUCE	10.0	FAIR	1	CONIFER	NO	YES	REMOVE	151	ARBORVITAE	10.0	GOOD	1	CONIFER	NO	YES	REMOVE	251	MAPLE, SILVER	21.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
53	SPRUCE	16.0	FAIR	1	CONIFER	NO	YES	REMOVE	152	ARBORVITAE	8.0	GOOD	1	CONIFER	NO	YES	REMOVE	252	MAPLE, SILVER	13.0	GOOD	1	SOFTWOOD	NO	YES	REMOVE
54	MAPLE, AMUR	40.0	GOOD	6	HARDWOOD	NO	YES	REMOVE	153	SPRUCE	13.0	GOOD	1	CONIFER	NO	YES	REMOVE	253	COTTONWOOD	31.5	GOOD	1	SOFTWOOD	YES	YES	REMOVE
55	MAPLE, AMUR	34.0	FAIR	6	HARDWOOD	NO	YES	REMOVE	154	SPRUCE	10.0	FAIR	1	CONIFER	NO	YES	REMOVE	254	PINE	14.5	GOOD	1	CONIFER	NO	YES	REMOVE
56	SPRUCE	20.0	FAIR	1	CONIFER	NO	YES	REMOVE	155	SPRUCE	13.0	FAIR	1	CONIFER	NO	YES	REMOVE	255	PINE	13.0	GOOD	1	CONIFER	NO	YES	REMOVE
57	ARBORVITAE	18.0	GOOD	2	CONIFER	NO	YES	REMOVE	156	SPRUCE	9.5	FAIR	1	CONIFER	NO	YES	REMOVE	256	PINE	10.0	GOOD	1	CONIFER	NO	YES	REMOVE
58	ARBORVITAE	18.0	GOOD	1	CONIFER	NO	YES	REMOVE	157	SPRUCE	9.5	FAIR	1	CONIFER	NO	YES	REMOVE	257	PINE	10.0	GOOD	1	CONIFER	NO	YES	REMOVE
59	SPRUCE	9.5	FAIR	1	CONIFER	NO	YES	REMOVE	158	MAPLE, SILVER	30.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE	258	PINE	13.5	GOOD	1	CONIFER	NO	YES	REMOVE
60	SPRUCE	14.0	FAIR	1	CONIFER	NO	YES	REMOVE	159	MAPLE, SILVER	17.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE	259	COTTONWOOD	36.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE
61	ARBORVITAE	29.0	GOOD	4	CONIFER	NO	YES	REMOVE	160	MAPLE, SILVER	17.0	FAIR	1	SOFTWOOD	NO	YES	REMOVE	260	COTTONWOOD	44.0	GOOD	1	SOFTWOOD	YES	YES	REMOVE
62	PINE	12.0	GOOD	1	CONIFER	NO	YES	REMOVE	161	MAPLE, SILVER	22.5	GOOD	1	SOFTWOOD	NO	YES	REMOVE	261	PINE	11.5	GOOD	1	CONIFER	NO	YES	REMOVE
63	PINE																									

Table with columns: TREE #, SPECIES, DBH, CONDITION, STEMS, TYPE, SPECIMEN YES/NO, SIGNIFICANT YES/NO, REMOVED/PRESERVED. Contains three main sections of tree data (A, B, C) and a revision table on the right.

Revision table with columns: NO., DATE, DR, REVISION, CHK, APVD. Includes project name 'McCARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT' and 'SAINT PAUL REGIONAL WATER SERVICES'.

JACOBS CIVIL TREE REMOVAL AND PRESERVATION TABLES SHEET 2 OF 5

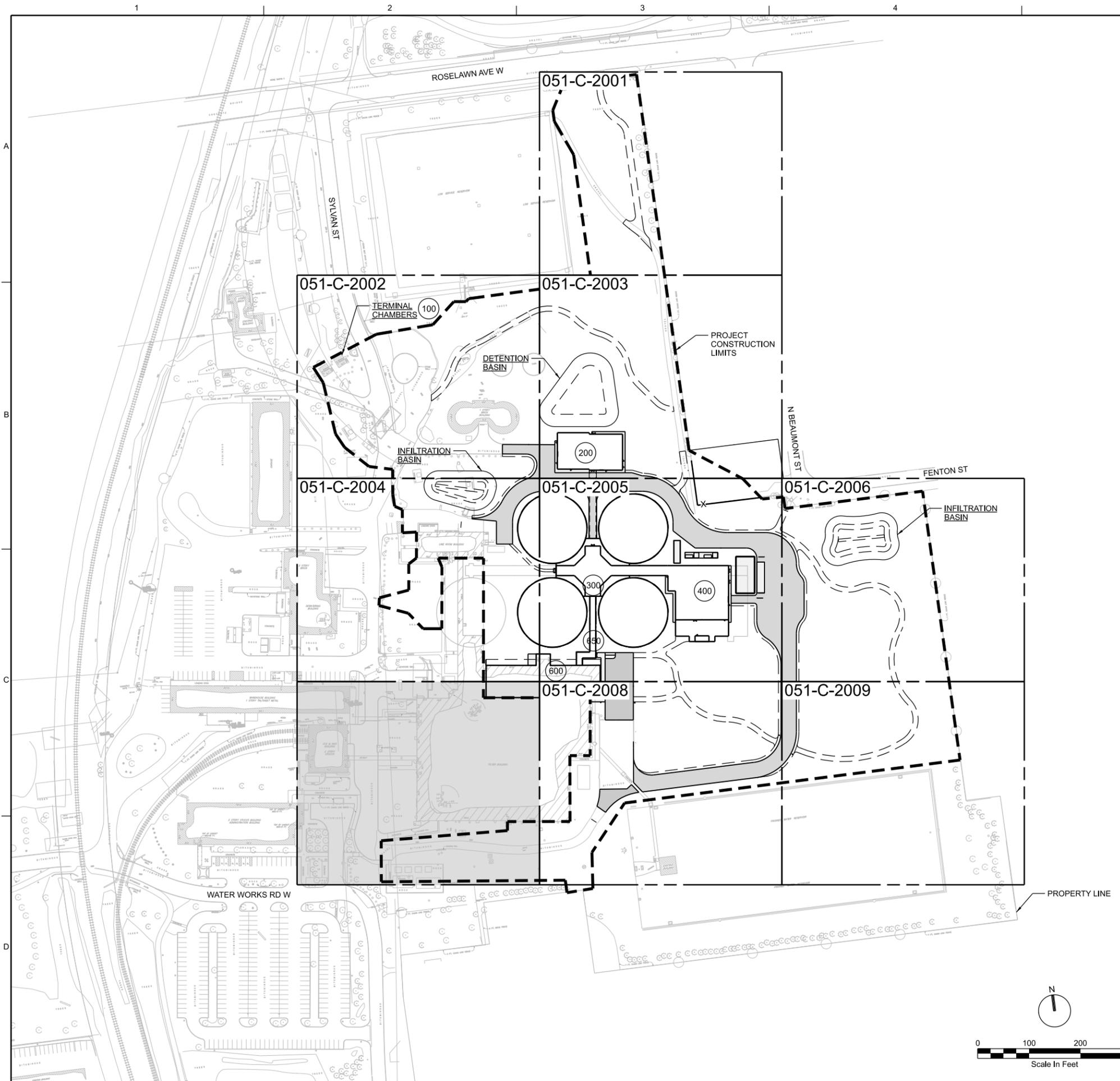
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: J. LEE FEASTER DATE: 01/10/2022 LIC. NO.: LA-46549

Table with columns: VERIFY SCALE, DATE, PROJ, DWG, SHEET. Values include 'BAR IS ONE INCH ON ORIGINAL DRAWING', 'JANUARY 2022', 'DBSPRW1', '051-C-0022', '14'.

TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED	TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED	TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED
580	SPRUCE	8.0	FAIR	1	CONIFER	NO	YES	PRESERVE	680	ASH, GREEN	6.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	780	MAPLE, SILVER	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
581	OAK, BUR	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	681	COTTONWOOD	21.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	781	COTTONWOOD	62.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE
582	MULBERRY	9.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	682	BIRCH, PAPER	9.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	782	COTTONWOOD	34.0	FAIR	1	SOFTWOOD	YES	YES	PRESERVE
583	LOCUST, BLACK	16.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	683	ELM, AMERICAN	12.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	783	WILLOW	44.0	FAIR	4	SOFTWOOD	NO	YES	PRESERVE
584	POPLAR, WHITE	15.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	684	OAK, BUR	27.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	784	WILLOW	27.0	GOOD	2	CONIFER	NO	YES	PRESERVE
585	COTTONWOOD	15.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	685	ELM, AMERICAN	16.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	785	WILLOW	21.0	FAIR	1	CONIFER	NO	YES	PRESERVE
586	LOCUST, BLACK	9.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	686	COTTONWOOD	19.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	786	WILLOW	20.0	FAIR	1	CONIFER	NO	YES	PRESERVE
587	COTTONWOOD	22.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	687	MAPLE, SILVER	42.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	787	WILLOW	14.0	FAIR	1	CONIFER	NO	YES	PRESERVE
588	LOCUST, BLACK	10.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	688	OAK, BUR	9.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	788	COTTONWOOD	34.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
589	LOCUST, BLACK	10.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	689	COTTONWOOD	40.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	789	MAPLE, SILVER	80.0	FAIR	6	SOFTWOOD	NO	YES	PRESERVE
590	LOCUST, BLACK	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	690	MAPLE, SILVER	13.5	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	790	BOXELDER	14.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
591	ELM, SIBERIAN	16.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	691	MAPLE, SILVER	13.5	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	791	ASH, GREEN	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
592	COTTONWOOD	14.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	692	MAPLE, SILVER	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	792	ASH, GREEN	11.5	GOOD	2	HARDWOOD	NO	YES	PRESERVE
593	LOCUST, BLACK	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	693	ASH, GREEN	6.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	793	ASH, GREEN	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
594	COTTONWOOD	14.5	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	694	MULBERRY	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	794	ASH, GREEN	24.0	GOOD	4	HARDWOOD	NO	YES	PRESERVE
595	BASSWOOD	10.0	GOOD	2	HARDWOOD	NO	YES	PRESERVE	695	LOCUST, BLACK	11.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE	795	ASH, GREEN	15.5	GOOD	3	HARDWOOD	NO	YES	PRESERVE
596	OLIVE, RUSSIAN	19.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE	696	LOCUST, BLACK	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	796	COTTONWOOD	38.5	FAIR	1	SOFTWOOD	YES	YES	PRESERVE
597	POPLAR, WHITE	15.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	697	LOCUST, BLACK	12.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	797	ELM, SIBERIAN	13.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE
598	OLIVE, RUSSIAN	11.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE	698	COTTONWOOD	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	798	ELM, SIBERIAN	22.0	GOOD	3	SOFTWOOD	NO	NO	PRESERVE
599	ELM, SIBERIAN	13.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	699	COTTONWOOD	14.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	799	LOCUST, BLACK	10.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
600	COTTONWOOD	16.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	700	LOCUST, BLACK	13.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	800	LOCUST, BLACK	10.0	GOOD	2	HARDWOOD	NO	YES	PRESERVE
601	COTTONWOOD	19.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	701	COTTONWOOD	40.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	801	LOCUST, BLACK	18.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE
602	COTTONWOOD	14.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	702	LOCUST, BLACK	11.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE	802	LOCUST, BLACK	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE
603	COTTONWOOD	21.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	703	COTTONWOOD	22.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	803	LOCUST, BLACK	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
604	COTTONWOOD	15.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	704	COTTONWOOD	27.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	804	ASH, GREEN	11.5	FAIR	2	HARDWOOD	NO	YES	PRESERVE
605	ELM, SIBERIAN	13.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	705	COTTONWOOD	15.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	805	COTTONWOOD	40.0	FAIR	1	SOFTWOOD	YES	YES	PRESERVE
606	COTTONWOOD	14.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	706	COTTONWOOD	19.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	806	COTTONWOOD	47.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
607	LOCUST, BLACK	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	707	COTTONWOOD	22.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	807	ELM, SIBERIAN	13.0	FAIR	2	SOFTWOOD	NO	NO	PRESERVE
608	LOCUST, BLACK	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	708	COTTONWOOD	26.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	808	COTTONWOOD	40.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
609	LOCUST, BLACK	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	709	COTTONWOOD	21.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	809	BOXELDER	12.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE
610	ELM, SIBERIAN	12.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	710	COTTONWOOD	20.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	810	BOXELDER	15.5	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
611	COTTONWOOD	14.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	711	ASH, GREEN	8.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	811	COTTONWOOD	46.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
612	ELM, SIBERIAN	12.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	712	COTTONWOOD	21.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	812	ASH, GREEN	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE
613	ELM, SIBERIAN	18.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	713	COTTONWOOD	30.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE	813	BOXELDER	27.0	FAIR	4	SOFTWOOD	NO	YES	PRESERVE
614	ELM, AMERICAN	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	714	LOCUST, BLACK	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	814	BOXELDER	18.0	FAIR	3	SOFTWOOD	NO	YES	PRESERVE
615	ELM, SIBERIAN	13.0	GOOD	1	SOFTWOOD	NO	NO	PRESERVE	715	CHERRY, BLACK	13.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	815	BOXELDER	12.0	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
616	COTTONWOOD	23.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	716	COTTONWOOD	28.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	816	COTTONWOOD	46.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
617	COTTONWOOD	14.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	717	COTTONWOOD	26.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	817	COTTONWOOD	47.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
618	COTTONWOOD	18.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	718	COTTONWOOD	19.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	818	LOCUST, BLACK	10.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE
619	ELM, SIBERIAN	14.0	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	719	BOXELDER	12.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE	819	ASH, GREEN	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
620	ELM, SIBERIAN	18.5	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	720	ELM, AMERICAN	25.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	820	ASH, GREEN	10.5	FAIR	2	HARDWOOD	NO	YES	PRESERVE
621	MAPLE, SUGAR	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	721	COTTONWOOD	24.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	821	BOXELDER	15.0	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
622	SPRUCE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	722	COTTONWOOD	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	822	ASH, GREEN	8.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE
623	SPRUCE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	723	COTTONWOOD	28.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	823	PINE	18.0	FAIR	1	CONIFER	NO	YES	PRESERVE
624	ELM, SIBERIAN	22.5	GOOD	1	SOFTWOOD	NO	NO	PRESERVE	724	COTTONWOOD	25.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	824	PINE	22.0	GOOD	1	CONIFER	NO	YES	PRESERVE
625	OAK, PIN	22.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	725	ASH, GREEN	8.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	825	PINE	29.0	GOOD	1	CONIFER	YES	YES	PRESERVE
626	OAK, BUR	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	726	COTTONWOOD	12.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	826	PINE	15.0	GOOD	1	CONIFER	NO	YES	PRESERVE
627	OAK, BUR	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	727	COTTONWOOD	18.5	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	827	PINE	17.0	GOOD	1	CONIFER	NO	YES	PRESERVE
628	HONEYLOCUST	12.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	728	LOCUST, BLACK	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	828	PINE	17.0	GOOD	1	CONIFER	NO	YES	PRESERVE
629	HONEYLOCUST	11.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	729	LOCUST, BLACK	12.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	829	PINE	21.5	FAIR	1	CONIFER	NO	YES	PRESERVE
630	HONEYLOCUST	11.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	730	LOCUST, BLACK	7.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	830	BOXELDER	15.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE
631	HONEYLOCUST	9.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	731	LOCUST, BLACK	9.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	831	ELM, SIBERIAN	12.5	FAIR	2	SOFTWOOD	NO	NO	PRESERVE
632	HONEYLOCUST	10.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	732	LOCUST, BLACK	7.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	832	ASH, GREEN	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE
633	OAK, BUR	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	733	LOCUST, BLACK	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	833	BOXELDER	18.5	FAIR	3	SOFTWOOD	NO	YES	PRESERVE
634	OAK, BUR	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	734	LOCUST, BLACK	9.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	834	ASH, GREEN	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
635	REDCEDAR	11.0	GOOD	1	CONIFER	NO	YES	PRESERVE	735	LOCUST, BLACK	10.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	835	BOXELDER	15.5	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
636	HONEYLOCUST	8.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	736	ELM, AMERICAN	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	836	HACKBERRY	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
637	HONEYLOCUST	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	737	ASH, GREEN	9.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	837	COTTONWOOD	68.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
638	HONEYLOCUST	8.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	738	ELM, AMERICAN	19.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	838	PINE	24.0	GOOD	1	CONIFER	NO	YES	PRESERVE
639	HONEYLOCUST	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	739	COTTONWOOD	13.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	839	PINE	25.0	GOOD	1	CONIFER	NO	YES	PRESERVE
640	HONEYLOCUST	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	740	COTTONWOOD	59.0	GOOD	3	SOFTWOOD	NO	YES	PRESERVE	840	BOXELDER	17.0	FAIR	3	SOFTWOOD	NO		

TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED	TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED	TREE #	SPECIES	DBH	CONDITION	STEMS	TYPE	SPECIMEN YES/NO	SIGNIFICANT YES/NO	REMOVED/PRESERVED
870	REDCEDAR	20.5	FAIR	1	CONIFER	NO	YES	PRESERVE	970	SPRUCE	9.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1070	PINE	15.0	GOOD	1	CONIFER	NO	YES	PRESERVE
871	REDCEDAR	17.5	FAIR	1	CONIFER	NO	YES	PRESERVE	971	SPRUCE	8.5	FAIR	1	CONIFER	NO	YES	PRESERVE	1071	WALNUT	32.0	GOOD	2	HARDWOOD	YES	YES	PRESERVE
872	REDCEDAR	17.5	GOOD	1	CONIFER	NO	YES	PRESERVE	972	SPRUCE	10.0	FAIR	1	CONIFER	NO	YES	PRESERVE	1072	MULBERRY	43.0	FAIR	1	HARDWOOD	YES	YES	PRESERVE
873	ASH, GREEN	20.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	973	SPRUCE	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1073	ASH, GREEN	19.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE
874	REDCEDAR	15.5	GOOD	1	CONIFER	NO	YES	PRESERVE	974	SPRUCE	14.0	FAIR	1	CONIFER	NO	YES	PRESERVE	1074	MULBERRY	10.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
875	REDCEDAR	21.0	FAIR	1	CONIFER	NO	YES	PRESERVE	975	SPRUCE	10.0	FAIR	1	CONIFER	NO	YES	PRESERVE	1075	MULBERRY	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
876	SPRUCE	20.0	FAIR	1	CONIFER	NO	YES	PRESERVE	976	SPRUCE	11.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1076	BOXELDER	17.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE
877	SPRUCE	27.0	FAIR	1	CONIFER	NO	YES	PRESERVE	977	SPRUCE	10.0	FAIR	1	CONIFER	NO	YES	PRESERVE	1077	BOXELDER	16.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE
878	SPRUCE	17.0	FAIR	1	CONIFER	NO	YES	PRESERVE	978	SPRUCE	11.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1078	ASH, GREEN	9.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE
879	SPRUCE	21.5	FAIR	1	CONIFER	NO	YES	PRESERVE	979	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1079	COTTONWOOD	38.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
880	MAPLE, SILVER	29.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	980	SPRUCE	10.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1080	CHERRY, BLACK	41.0	GOOD	1	HARDWOOD	YES	YES	PRESERVE
881	OAK, BUR	7.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	981	BASSWOOD	25.5	GOOD	2	HARDWOOD	NO	YES	PRESERVE	1081	COTTONWOOD	65.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE
882	MAPLE, SILVER	35.5	FAIR	1	SOFTWOOD	YES	YES	PRESERVE	982	ELM, SIBERIAN	22.0	GOOD	1	SOFTWOOD	NO	NO	PRESERVE	1082	OAK, WHITE	22.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
883	PINE	10.0	GOOD	1	CONIFER	NO	YES	PRESERVE	983	BOXELDER	24.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	1083	OAK, PIN	37.0	GOOD	2	HARDWOOD	YES	YES	PRESERVE
884	PINE	10.5	GOOD	1	CONIFER	NO	YES	PRESERVE	984	BOXELDER	40.0	FAIR	6	SOFTWOOD	NO	YES	PRESERVE	1084	OAK, PIN	18.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE
885	PINE	11.0	GOOD	1	CONIFER	NO	YES	PRESERVE	985	COTTONWOOD	32.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1085	OAK, PIN	21.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE
886	PINE	9.5	GOOD	1	CONIFER	NO	YES	PRESERVE	986	COTTONWOOD	28.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1086	OAK, PIN	13.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE
887	PINE	10.5	GOOD	1	CONIFER	NO	YES	PRESERVE	987	COTTONWOOD	27.0	GOOD	2	SOFTWOOD	NO	YES	PRESERVE	1087	BOXELDER	16.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE
888	PINE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	988	ELM, AMERICAN	14.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	1088	OAK, PIN	16.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE
889	REDCEDAR	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	989	COTTONWOOD	43.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1089	OAK, PIN	8.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
890	SPRUCE	11.0	GOOD	1	CONIFER	NO	YES	PRESERVE	990	COTTONWOOD	40.0	FAIR	2	SOFTWOOD	NO	YES	PRESERVE	1090	OAK, BUR	7.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE
891	SPRUCE	10.5	GOOD	1	CONIFER	NO	YES	PRESERVE	991	COTTONWOOD	28.0	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1091	OAK, PIN	10.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
892	REDCEDAR	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	992	CHERRY, BLACK	25.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1092	OAK, PIN	11.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
893	REDCEDAR	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	993	LOCUST, BLACK	21.5	GOOD	2	HARDWOOD	NO	YES	PRESERVE	1093	OAK, PIN	7.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE
894	WALNUT	6.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	994	ASH, GREEN	13.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	1094	OAK, PIN	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
895	SPRUCE	10.0	GOOD	1	CONIFER	NO	YES	PRESERVE	995	OAK, PIN	19.5	FAIR	1	HARDWOOD	NO	YES	PRESERVE	1095	OAK, PIN	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
896	SPRUCE	10.0	GOOD	1	CONIFER	NO	YES	PRESERVE	996	OAK, BUR	23.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1096	OAK, PIN	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
897	REDCEDAR	10.0	FAIR	2	CONIFER	NO	YES	PRESERVE	997	OAK, BUR	19.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1097	OAK, PIN	8.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE
898	SPRUCE	8.5	FAIR	1	CONIFER	NO	YES	PRESERVE	998	OAK, BUR	27.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1098	OAK, PIN	30.0	FAIR	1	HARDWOOD	YES	YES	PRESERVE
899	REDCEDAR	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	999	PINE	10.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1099	ELM, AMERICAN	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
900	SPRUCE	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1000	OAK, PIN	20.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1100	COTTONWOOD	12.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
901	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1001	OAK, PIN	26.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1101	WILLOW	23.0	GOOD	3	CONIFER	NO	YES	PRESERVE
902	REDCEDAR	9.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1002	OAK, PIN	31.0	GOOD	1	HARDWOOD	YES	YES	PRESERVE	1102	COTTONWOOD	12.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
903	REDCEDAR	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1003	PINE	24.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1103	COTTONWOOD	14.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
904	REDCEDAR	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1004	OAK, BUR	23.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1104	COTTONWOOD	21.5	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
905	PINE	9.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1005	OAK, BUR	21.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1105	ELM, SIBERIAN	15.5	FAIR	2	SOFTWOOD	NO	NO	PRESERVE
906	PINE	14.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1006	OAK, BUR	23.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1106	COTTONWOOD	46.0	GOOD	4	SOFTWOOD	NO	YES	PRESERVE
907	COTTONWOOD	48.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1007	BOXELDER	27.0	FAIR	1	SOFTWOOD	NO	YES	PRESERVE	1107	COTTONWOOD	22.0	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
908	COTTONWOOD	28.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	1008	ELM, SIBERIAN	15.5	FAIR	1	SOFTWOOD	NO	NO	PRESERVE	1108	COTTONWOOD	18.0	GOOD	2	SOFTWOOD	NO	YES	PRESERVE
909	COTTONWOOD	36.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1009	PINE	9.0	FAIR	1	CONIFER	NO	YES	PRESERVE	1109	CHERRY, BLACK	14.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE
910	COTTONWOOD	45.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1010	ELM, AMERICAN	31.5	FAIR	2	SOFTWOOD	NO	YES	PRESERVE	1110	COTTONWOOD	60.0	GOOD	3	SOFTWOOD	NO	YES	PRESERVE
911	PINE	9.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1011	ELM, AMERICAN	23.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE	1111	BOXELDER	14.5	FAIR	1	SOFTWOOD	NO	YES	PRESERVE
912	PINE	11.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1012	OAK, BUR	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1112	COTTONWOOD	16.5	FAIR	1	SOFTWOOD	NO	YES	PRESERVE
913	PINE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1013	CHERRY, BLACK	47.0	FAIR	1	HARDWOOD	YES	YES	PRESERVE	1113	COTTONWOOD	15.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
914	PINE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1014	COTTONWOOD	37.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1114	ELM, SIBERIAN	17.0	FAIR	4	SOFTWOOD	NO	NO	PRESERVE
915	WALNUT	14.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1015	COTTONWOOD	35.5	GOOD	1	SOFTWOOD	YES	YES	PRESERVE	1115	BOXELDER	18.0	FAIR	5	SOFTWOOD	NO	YES	PRESERVE
916	SPRUCE	9.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1016	OAK, BUR	17.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1116	COTTONWOOD	15.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
917	PINE	12.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1017	OAK, BUR	17.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1117	LOCUST, BLACK	10.0	FAIR	2	HARDWOOD	NO	YES	PRESERVE
918	SPRUCE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1018	OAK, PIN	11.0	FAIR	1	HARDWOOD	NO	YES	PRESERVE	1118	BOXELDER	15.0	FAIR	3	SOFTWOOD	NO	YES	PRESERVE
919	SPRUCE	8.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1019	OAK, BUR	7.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1119	BOXELDER	30.0	FAIR	5	SOFTWOOD	NO	YES	PRESERVE
920	SPRUCE	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1020	OAK, BUR	6.5	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1120	WILLOW	12.0	GOOD	1	CONIFER	NO	YES	PRESERVE
921	SPRUCE	10.5	FAIR	1	CONIFER	NO	YES	PRESERVE	1021	OAK, BUR	22.0	GOOD	1	HARDWOOD	NO	YES	PRESERVE	1121	ASH, GREEN	9.5	FAIR	2	HARDWOOD	NO	YES	PRESERVE
922	SPRUCE	8.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1022	BOXELDER	53.0	FAIR	5	SOFTWOOD	NO	YES	PRESERVE	1122	ASH, GREEN	13.5	FAIR	2	HARDWOOD	NO	YES	PRESERVE
923	PINE	9.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1023	PINE	12.5	FAIR	1	CONIFER	NO	YES	PRESERVE	1123	BOXELDER	33.0	FAIR	6	SOFTWOOD	NO	YES	PRESERVE
924	PINE	10.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1024	PINE	15.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1124	CHERRY, BLACK	28.5	FAIR	2	HARDWOOD	NO	YES	PRESERVE
925	SPRUCE	10.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1025	PINE	9.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1125	COTTONWOOD	16.0	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
926	PINE	14.5	FAIR	1	CONIFER	NO	YES	PRESERVE	1026	OAK, BUR	44.0	GOOD	1	HARDWOOD	YES	YES	PRESERVE	1126	COTTONWOOD	13.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
927	SPRUCE	11.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1027	PINE	17.5	GOOD	1	CONIFER	NO	YES	PRESERVE	1127	COTTONWOOD	13.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
928	SPRUCE	10.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1028	SPRUCE	9.0	FAIR	1	CONIFER	NO	YES	PRESERVE	1128	COTTONWOOD	16.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
929	PINE	13.0	GOOD	1	CONIFER	NO	YES	PRESERVE	1029	PINE	13.5	FAIR	1	CONIFER	NO	YES	PRESERVE	1129	COTTONWOOD	15.5	GOOD	1	SOFTWOOD	NO	YES	PRESERVE
930	PINE</																									





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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	REVISION	CHK	BY

McCarron's Water Treatment Process Improvement Project  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
**OVERALL SITE LAYOUT AND PAVING KEY PLAN**

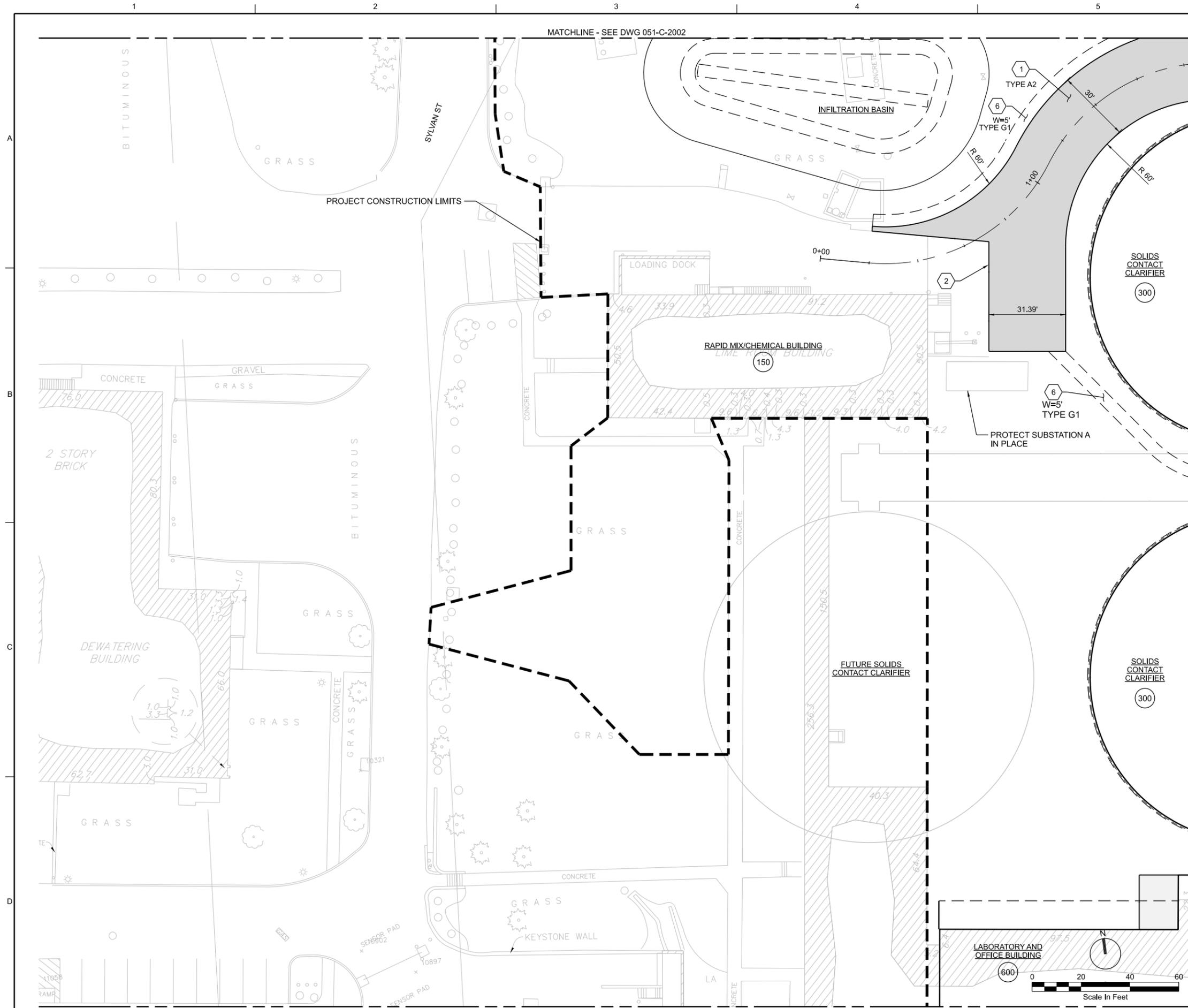
VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	051-C-2000
SHEET	of

R. TOWNSEND, DR  
 J. NESSL, CHK  
 T. MYERS, BY  
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### GENERAL DWG NOTES

- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

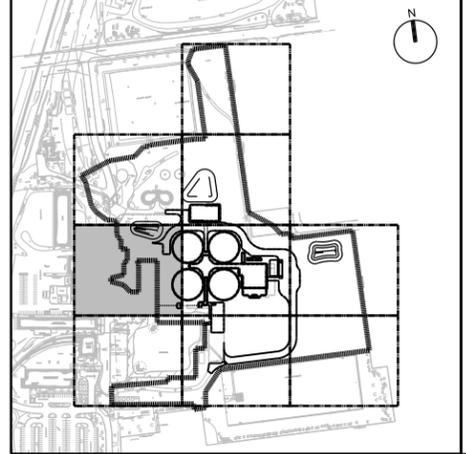
### KEYNOTES

- ASPHALT CONCRETE PAVEMENT, SEE STANDARD DETAIL 3212-210.
- PAVEMENT CONNECTION, SEE STANDARD DETAIL 3212-215.
- GRAVEL SURFACING, SEE STANDARD DETAIL 3215-260.

### COORDINATE TABLE

### LEGEND

### KEY MAP



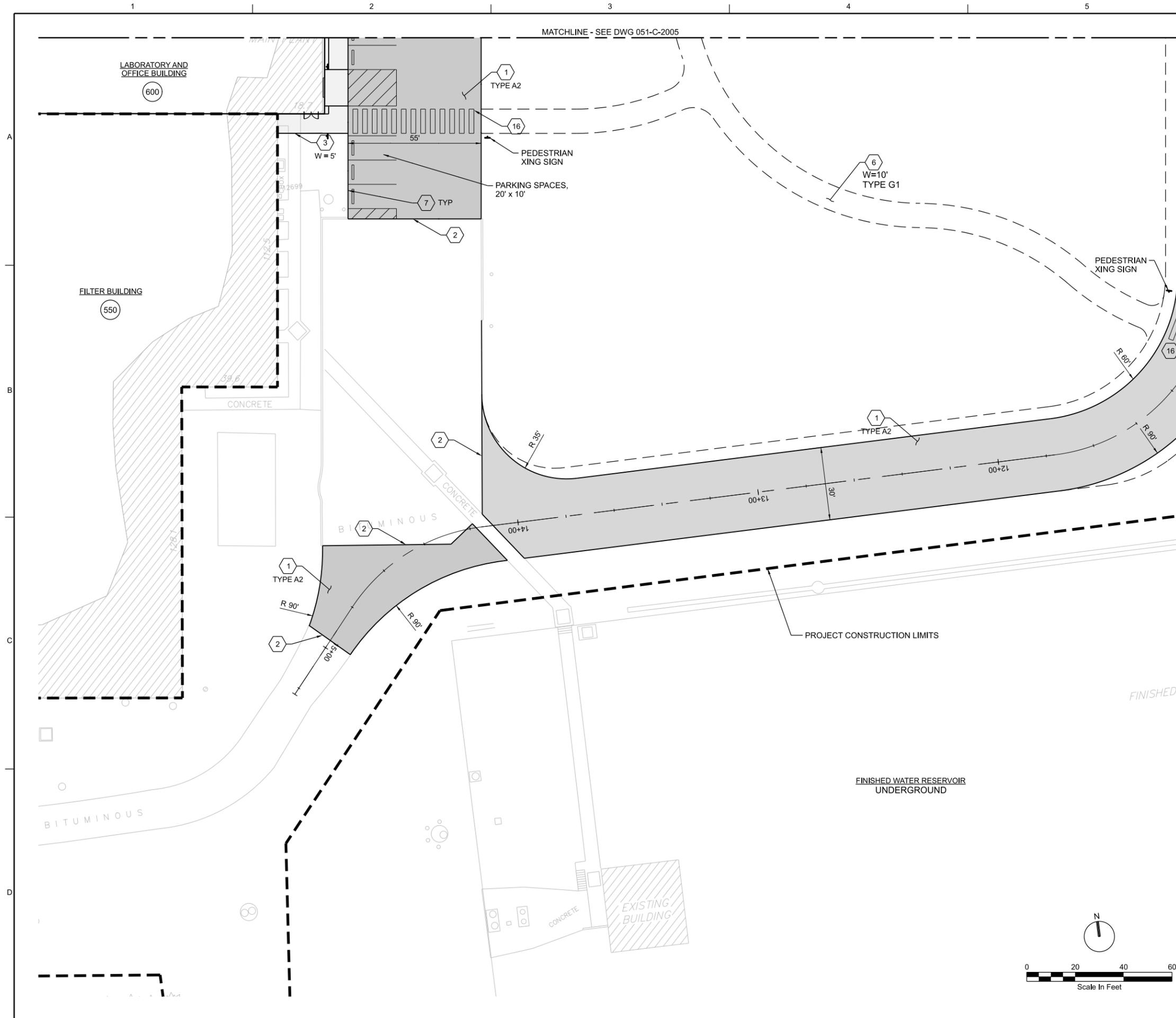
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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

MccARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		DSGN NO. DATE	DR R. TOWNSEND	CHK R. TOWNSEND	REVISION J. NESSL	APVD T. MYERS
<b>Jacobs</b> CIVIL LAYOUT AND PAVING PLAN AREA 4		REUSE OF DOCUMENTS: THE DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.				
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: JANUARY 2022 PROJ: DBSPRWS1 DWG: 051-C-2004 SHEET: _____ of _____				







### GENERAL DWG NOTES

- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

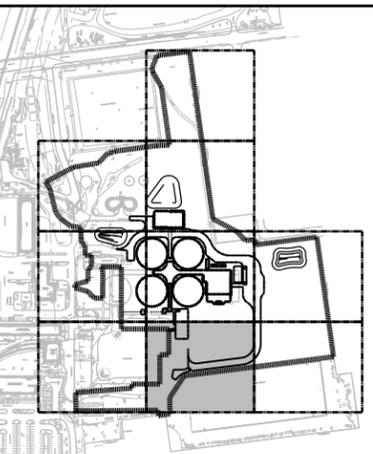
### KEYNOTES

- ASPHALT CONCRETE PAVEMENT, SEE STANDARD DETAIL 3212-210.
- PAVEMENT CONNECTION, SEE STANDARD DETAIL 3212-215.
- SIDEWALK, SEE STANDARD DETAIL 3213-220.
- GRAVEL SURFACING, SEE STANDARD DETAIL 3215-260.
- PRECAST CONCRETE WHEEL STOP, SEE STANDARD DETAIL 3217-350.
- CROSSWALK STRIPING, SEE TBD.

### COORDINATE TABLE

### LEGEND

### KEY MAP

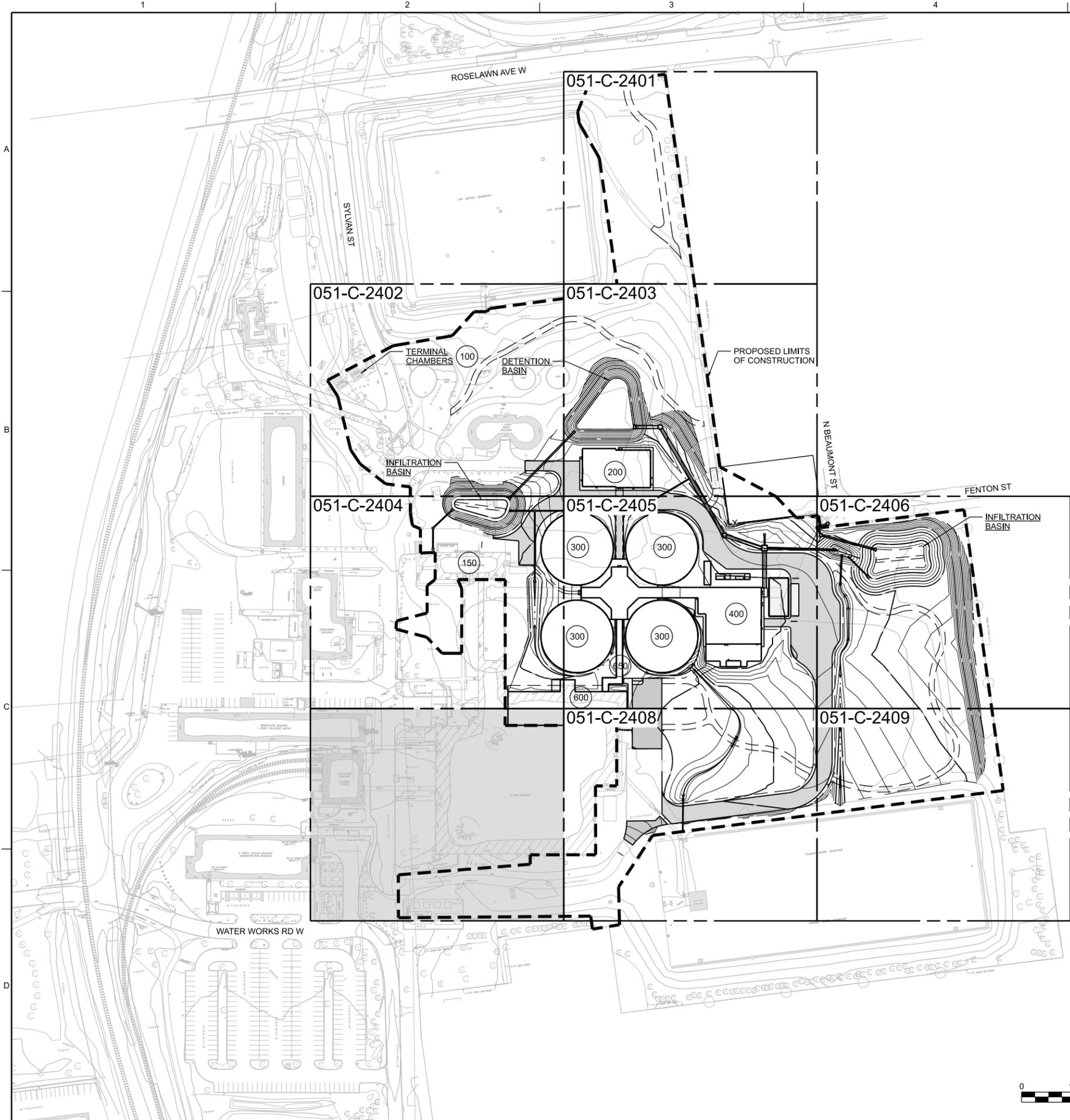


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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

McCARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		DSGN NO. DATE DR R. TOWNSEND J. NESSL T. MYERS
<b>Jacobs</b> CIVIL LAYOUT AND PAVING PLAN AREA 8		REVISION NO. DATE CHK R. TOWNSEND J. NESSL T. MYERS
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: JANUARY 2022 PROJ: DBSPRWS1 DWG: 051-C-2008 SHEET: _____ of _____





**GENERAL DWG NOTES**

1. CONTOURS SHOWN AT 5 FT INTERVAL FOR CLARITY.

NO.	DATE	DR	CHK	REVISION	BY	APVD

McCarrons WATER TREATMENT  
PROCESS IMPROVEMENT PROJECT  
SAINT PAUL REGIONAL WATER SERVICES  
SAINT PAUL, MINNESOTA

**Jacobs**  
CIVIL  
**OVERALL SITE  
GRADING AND DRAINAGE KEY PLAN**

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	051-C-2400
SHEET	of

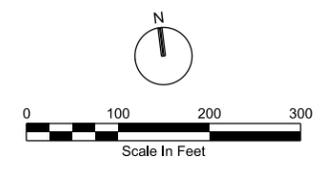
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SIGNATURE: \_\_\_\_\_

TYPED NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

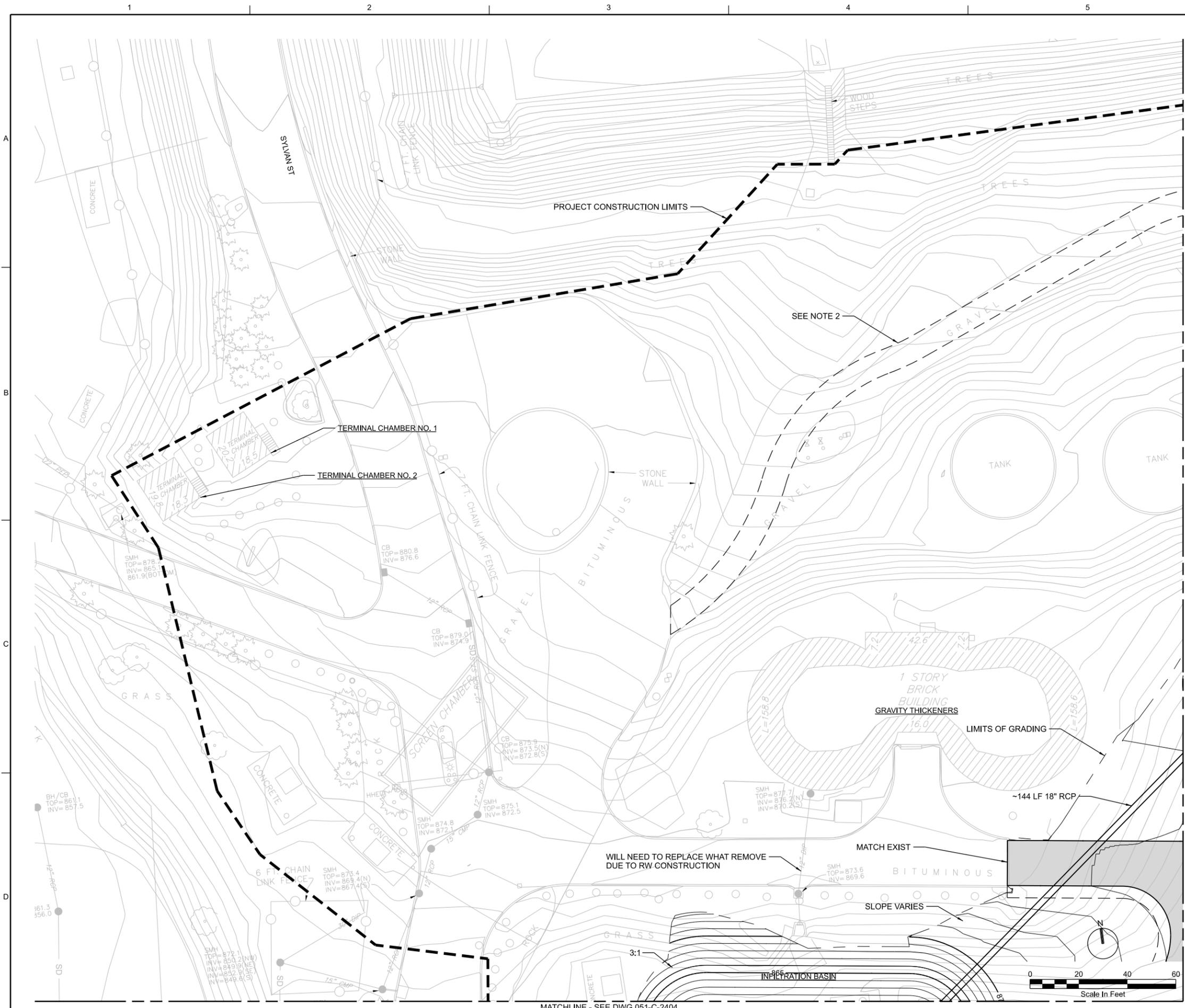


CUP/CDRB REVIEW

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### GENERAL DWG NOTES

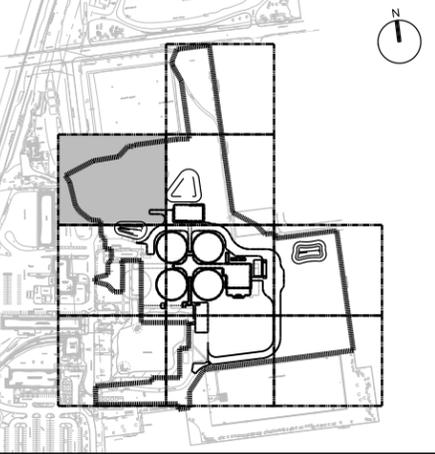
- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

### KEYNOTES

### COORDINATE TABLE

### LEGEND

### KEY MAP



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.

SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	CHK	REVISION	BY	APVD

DESIGN: R. TOWNSEND  
 CHECKED: J. NESSL  
 APPROVED: T. MYERS

SAINT PAUL, MINNESOTA

McCARRON'S WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES

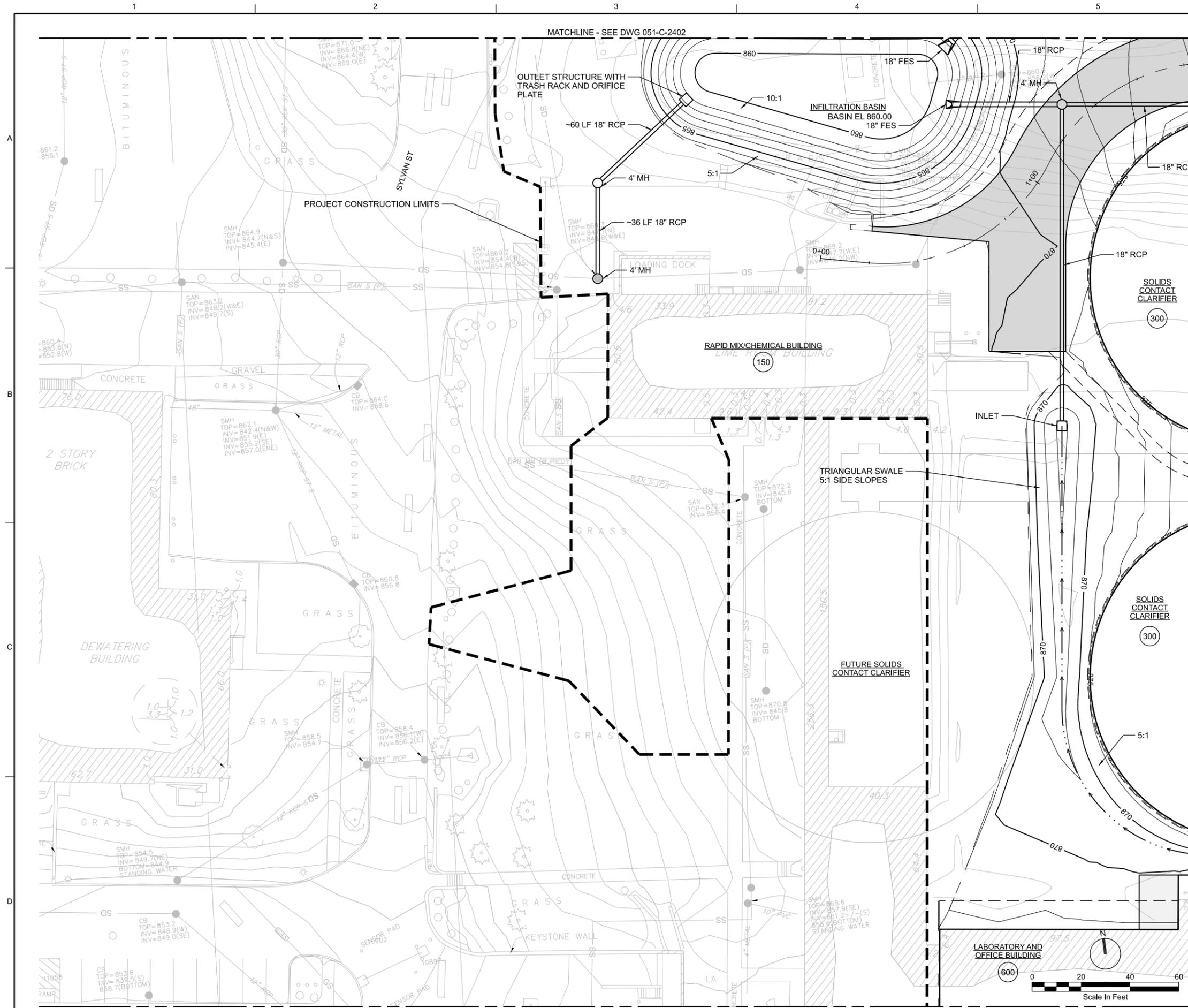
**JACOBS**  
 CIVIL  
 GRADING AND DRAINAGE PLAN  
 AREA 2

VERIFY SCALE	DATE	JANUARY 2022
BAR IS ONE INCH ON ORIGINAL DRAWING.	PROJ	DBSPRW1
0 20 40 60	DWG	051-C-2402
Scale In Feet	SHEET	of

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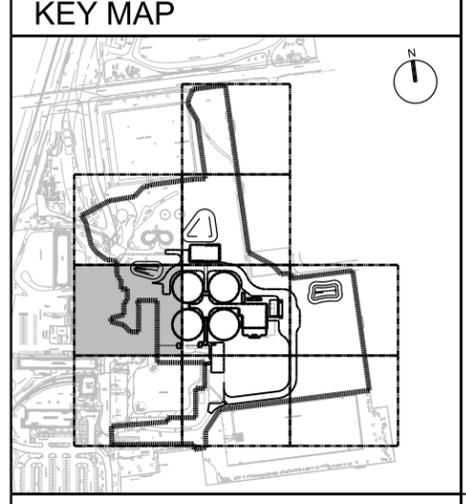
**GENERAL DWG NOTES**

- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

**KEYNOTES**

**COORDINATE TABLE**

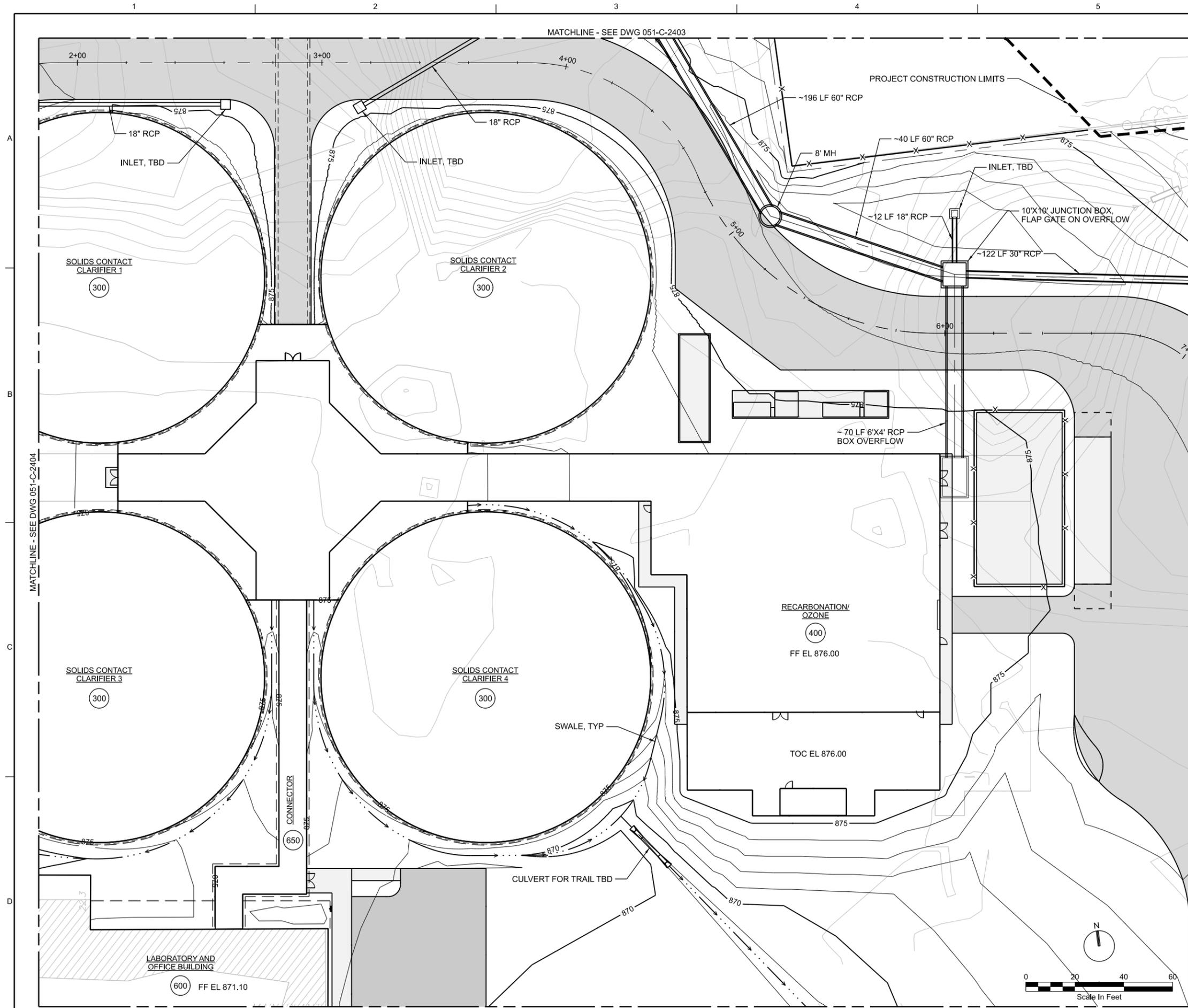
**LEGEND**



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

PROJECT: MCCARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT CLIENT: SAINT PAUL REGIONAL WATER SERVICES LOCATION: SAINT PAUL, MINNESOTA		DSGN: _____ NO.: _____ DATE: _____ DR: _____ REVISION: _____ CHK: _____ APVD: _____ BY: _____ APVD: _____ T. MYERS
<b>JACOBS</b> CIVIL <b>GRADING AND DRAINAGE PLAN AREA 4</b>		R. TOWNSEND J. NESSL R. TOWNSEND J. NESSL T. MYERS
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: JANUARY 2022 PROJ: DBSPRW51 DWG: 051-C-2404 SHEET: _____ of _____



### GENERAL DWG NOTES

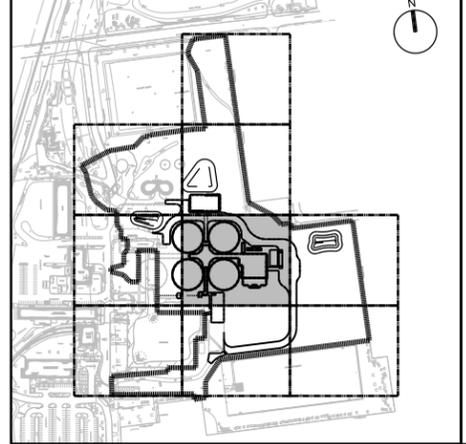
- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

### KEYNOTES

### COORDINATE TABLE

### LEGEND

### KEY MAP

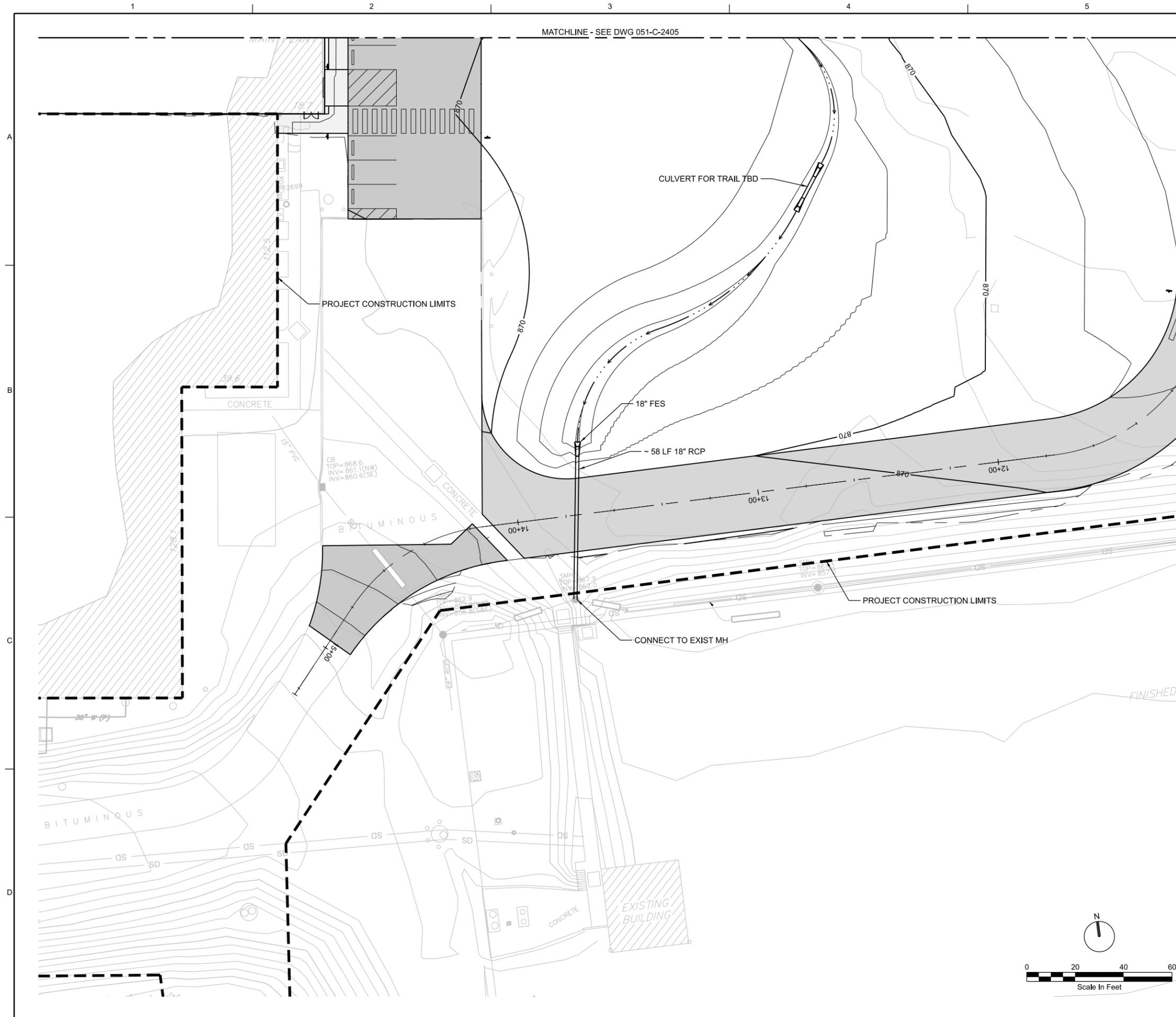


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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

McCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		DR R. TOWNSEND	REVISION J. NESSL	APVD T. MYERS
<b>JACOBS</b> CIVIL <b>GRADING AND DRAINAGE PLAN          AREA 5</b>		CUP/CDRB REVIEW		
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: JANUARY 2022 PROJ: DBSPRWS1 DWG: 051-C-2405 SHEET: _____ of _____		





### GENERAL DWG NOTES

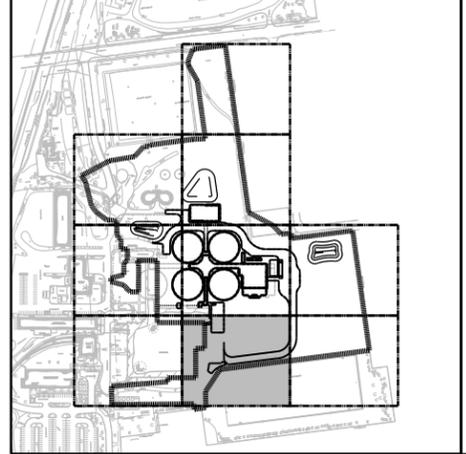
- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

### # KEYNOTES

### COORDINATE TABLE

### LEGEND

### KEY MAP



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 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	CHK	REVISION	BY	APVD

McCARROLLS WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
**GRADING AND DRAINAGE PLAN  
 AREA 8**

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	051-C-2408
SHEET	of

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 T. MYERS  
 J. NESSL  
 R. TOWNSEND  
 R. TOWNSEND  
 DRSGN



### GENERAL DWG NOTES

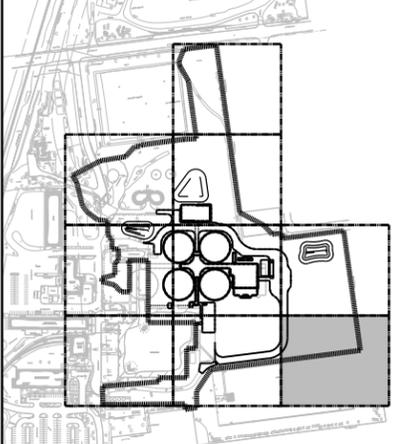
- SEE DRAWINGS 051-C-0021 THROUGH 051-C-0025 FOR ARBORIST'S INVENTORY TABLE OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL.

### # KEYNOTES

### COORDINATE TABLE

### LEGEND

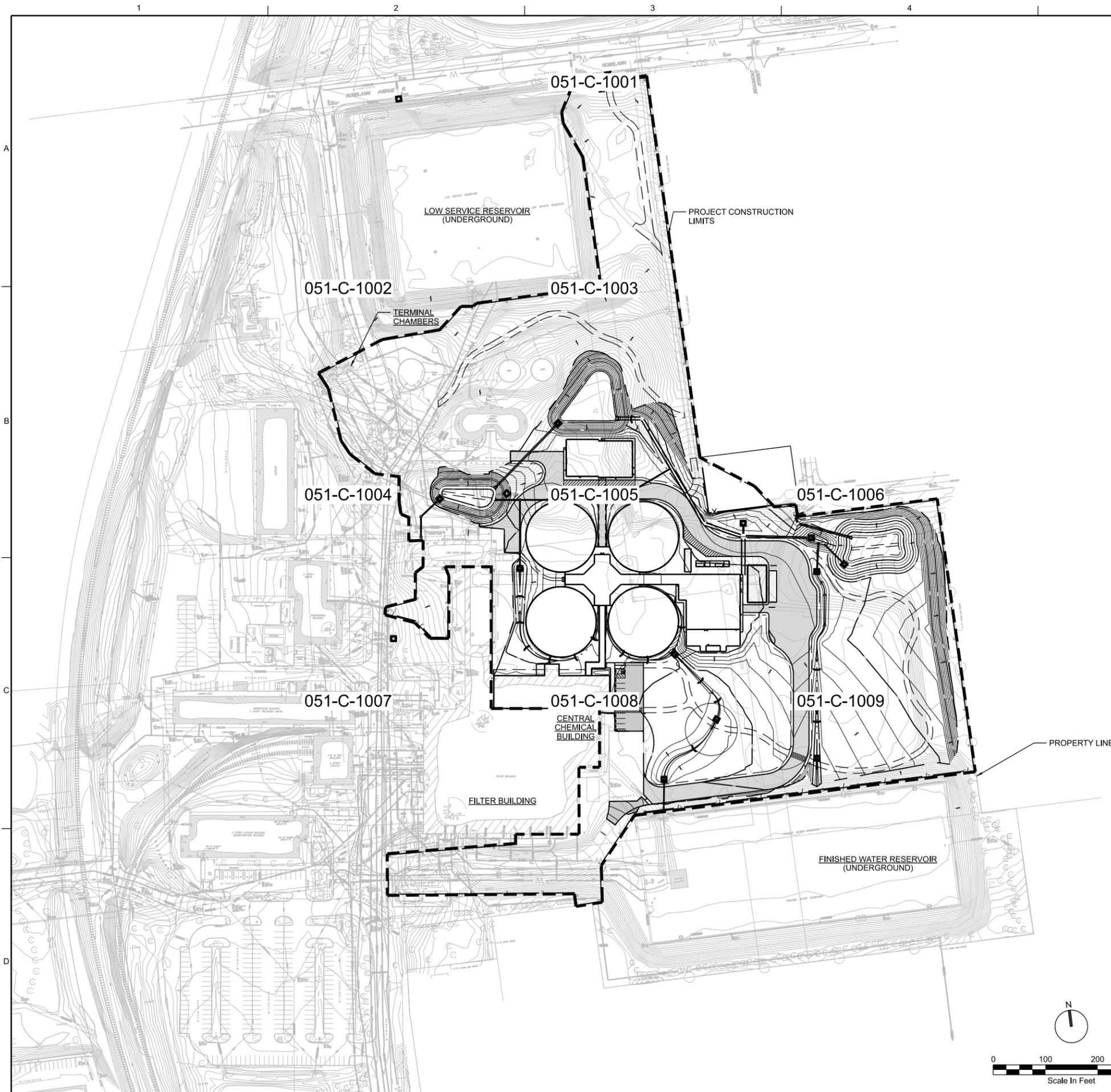
### KEY MAP



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 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

McCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		DR R. TOWNSEND J. NESSL T. MYERS
<b>JACOBS</b> CIVIL <b>GRADING AND DRAINAGE PLAN          AREA 9</b>		DSGN NO. _____ DATE _____ REVISION CHK _____ APVD _____
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE JANUARY 2022 PROJ DBSPRWS1 DWG 051-C-2409 SHEET _____ of _____



**GENERAL DWG NOTES**

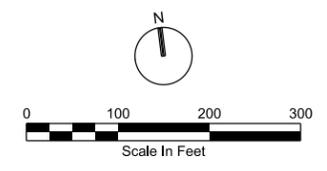
1. FOR TREE PROTECTION/PRESERVATION, SEE 051-C-0010 THROUGH 051-C-0020.

NO.	DATE	DR	REVISION	CHK	BY

McCARRONS WATER TREATMENT  
PROCESS IMPROVEMENT PROJECT  
SAINT PAUL REGIONAL WATER SERVICES  
SAINT PAUL, MINNESOTA

**Jacobs**  
CIVIL  
**OVERALL SITE EROSION AND  
SEDIMENT KEY PLAN**

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	JANUARY 2022
PROJ	DBSPRW1
DWG	051-C-2600
SHEET	of



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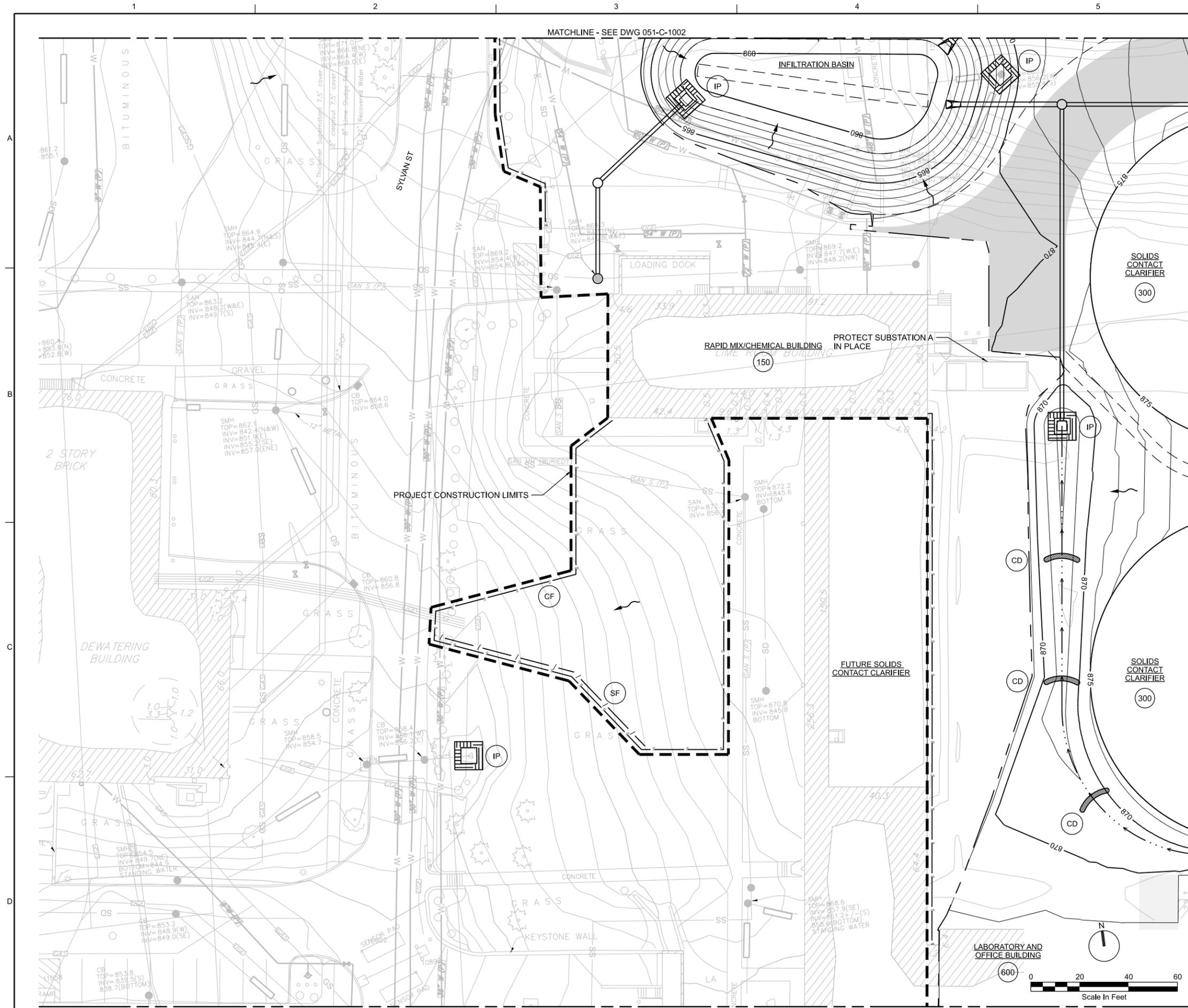
SIGNATURE: \_\_\_\_\_  
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 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

CUP/CDRB REVIEW









### GENERAL DWG NOTES

- FOR TREE PROTECTION/PRESERVATION, SEE 051-C-0010 THROUGH 051-C-0020.

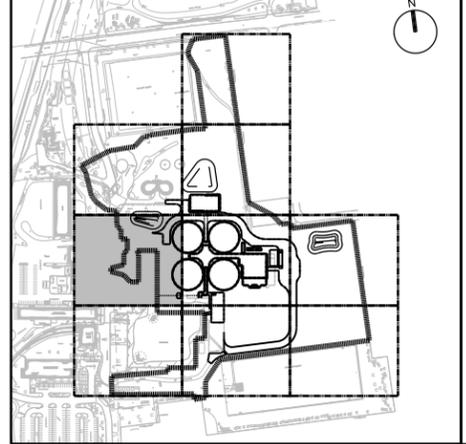
### KEYNOTES

NO.	DATE	REVISION	CHK	APVD	BY	APVD

### LEGEND

- IP INLET PROTECTION
- CF CONSTRUCTION FENCE
- SF SILT FENCE
- CD CHECK DAM
- SLOPE DIRECTION
- PROJECT CONSTRUCTION LIMITS

### KEY MAP



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SIGNATURE: \_\_\_\_\_

TYPED NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

McCARRONS WATER TREATMENT  
PROCESS IMPROVEMENT PROJECT  
SAINT PAUL REGIONAL WATER SERVICES

SAINT PAUL, MINNESOTA

DR R. TOWNSEND

CHK J. NESSL

APVD T. MYERS

PROJECT CONSTRUCTION LIMITS

DATE

REVISION

BY

APVD

NO.

DATE

REVISION

BY

APVD

PROJECT CONSTRUCTION LIMITS

DATE

REVISION

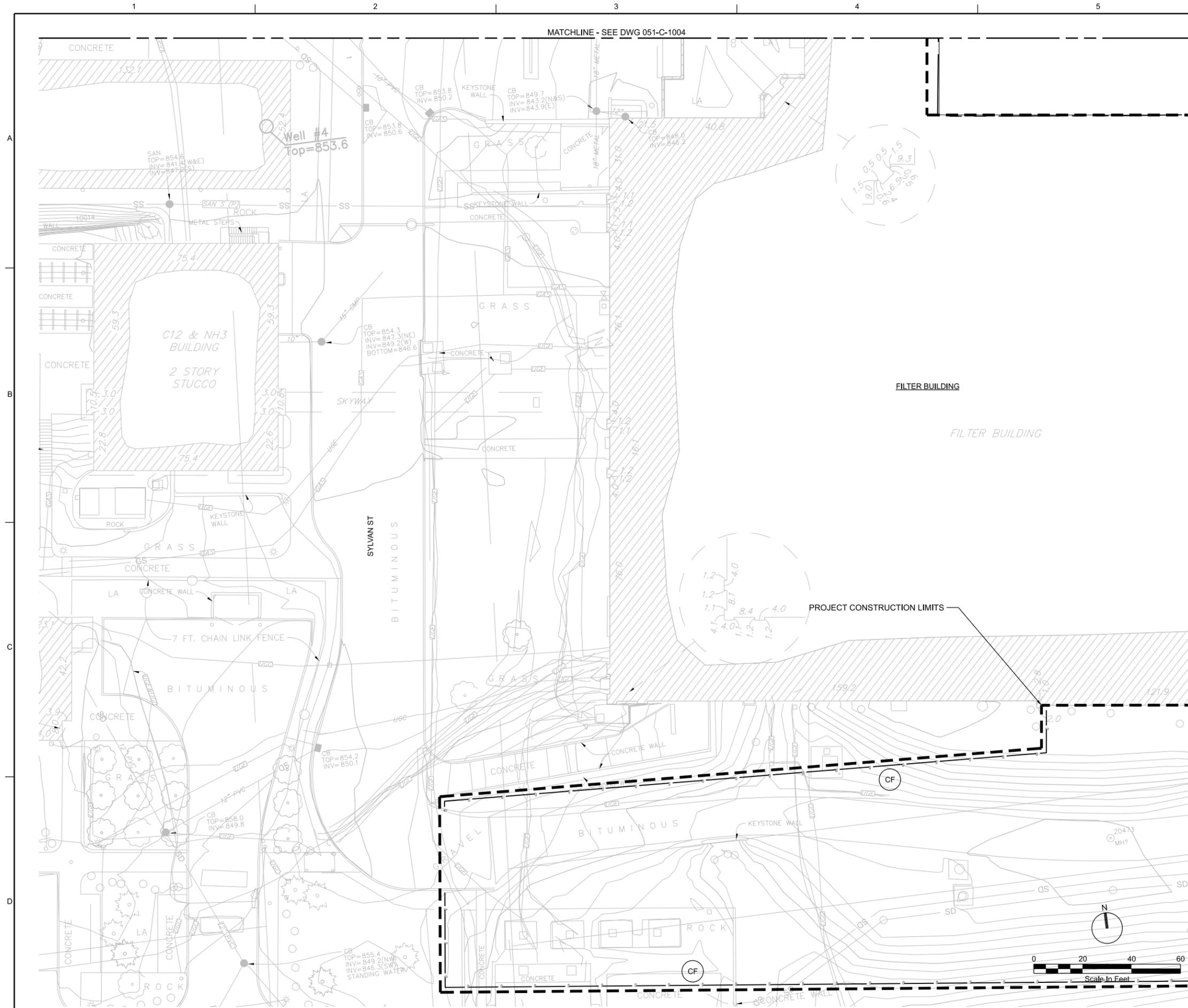
BY

APVD

pw://jacobs-us-va-pw.bentley.com;jacobs-us-va-pw-02/Documents/DBSPRWS1&space;-&space;McCarron&apos;s&space;WTP&space;Process&space;Improvements&space;Project/4&space;Delivery/43&space;Sheets/051&space;-&space;Site&space;Civil/051-C-2604\_DBSPRWS1 FILENAME: 051-C-2604\_DBSPRWS1.dgn PLOT DATE: 18-JAN-2022 PLOT TIME: 16:12







### GENERAL DWG NOTES

- FOR TREE PROTECTION/PRESERVATION, SEE 051-C-0010 THROUGH 051-C-0020.

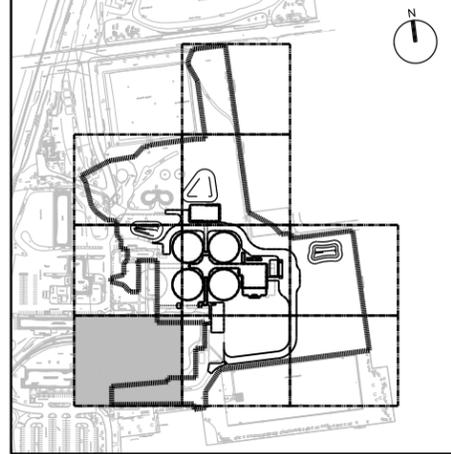
### KEYNOTES

NO.	DATE	REVISION	BY	APVD

### LEGEND

- CF CONSTRUCTION FENCE
- SLOPE DIRECTION
- PROJECT CONSTRUCTION LIMITS

### KEY MAP



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

<b>Jacobs</b>		CIVIL EROSION AND SEDIMENT AREA 7	SAINT PAUL, MINNESOTA
McCarrons WATER TREATMENT PROCESS IMPROVEMENT PROJECT		SAINT PAUL REGIONAL WATER SERVICES	
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VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: JANUARY 2022	
DATE: JANUARY 2022		PROJ: DBSPRW1	
DWG: 051-C-2607		SHEET: _____ of _____	
CUP/CDRB REVIEW		DR: R. TOWNSEND CHK: J. NESSL BY: T. MYERS APVD: _____	





### GENERAL DWG NOTES

1. FOR TREE PROTECTION/PRESERVATION, SEE 051-C-0010 THROUGH 051-C-0020.

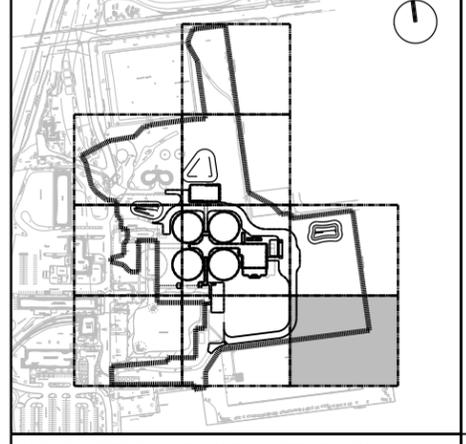
### KEYNOTES

NO.	DATE	REVISION	CHK	APVD

### LEGEND

- IP INLET PROTECTION
- CF CONSTRUCTION FENCE
- SF SILT FENCE
- CD CHECK DAM
- SLOPE DIRECTION
- PROJECT CONSTRUCTION LIMITS

### KEY MAP



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

McCarrons WATER TREATMENT  
PROCESS IMPROVEMENT PROJECT  
SAINT PAUL REGIONAL WATER SERVICES  
SAINT PAUL, MINNESOTA

SAINT PAUL, MINNESOTA

EROSION AND SEDIMENT  
AREA 9

CIVIL

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
0 1" 1"

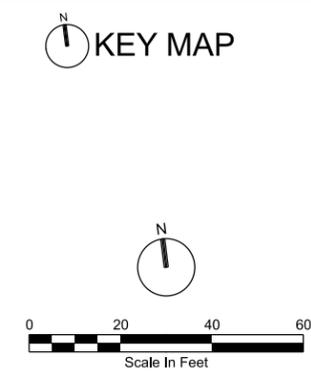
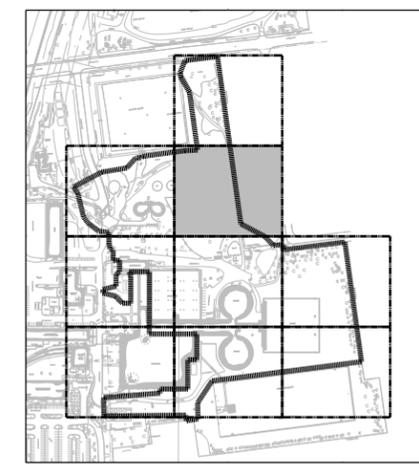
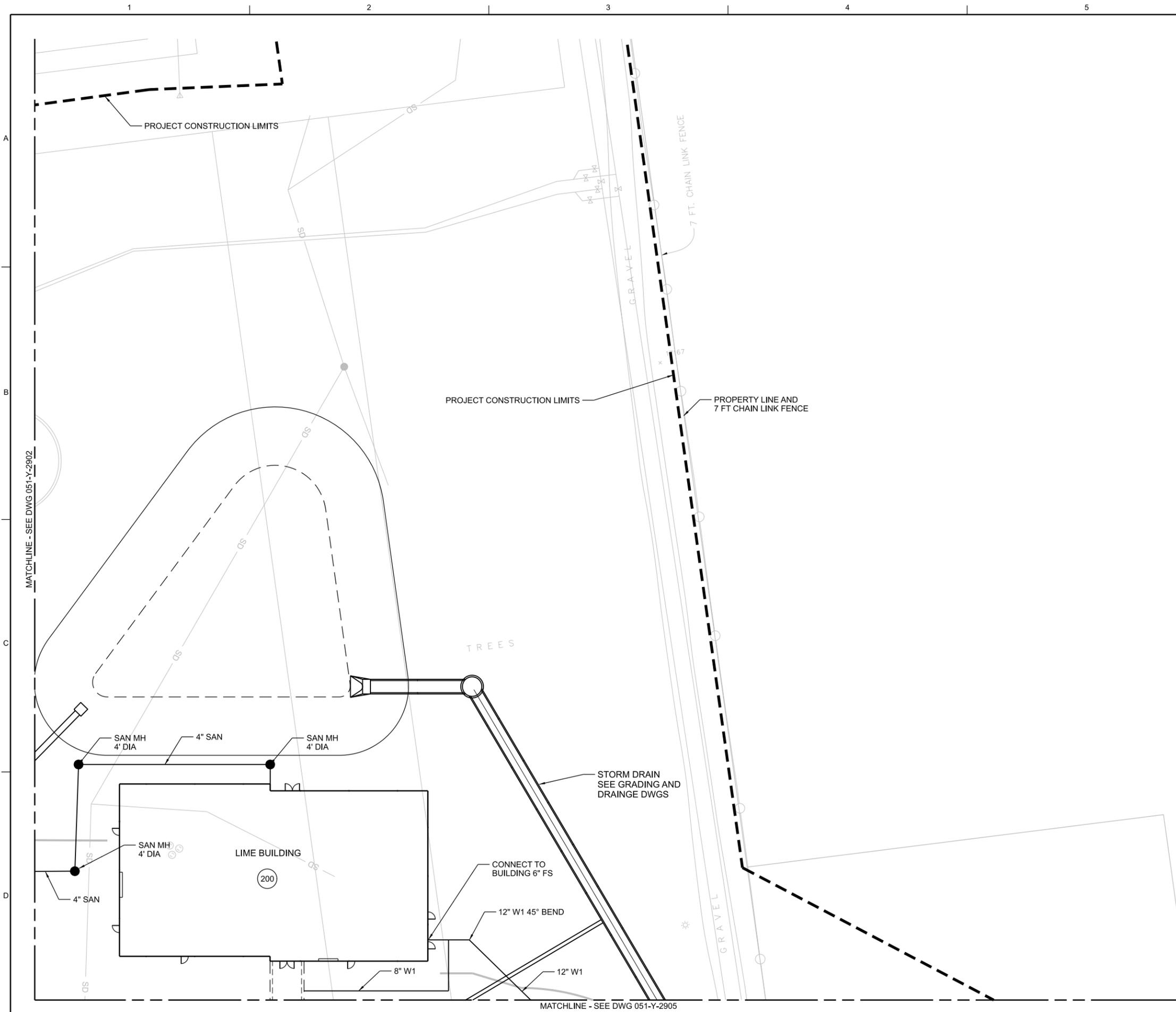
DATE JANUARY 2022  
 PROJ DBSPRWS1  
 DWG 051-C-2609  
 SHEET of

DR R. TOWNSEND  
 DSGN R. TOWNSEND  
 TYPED J. NESSL  
 BY T. MYERS

APVD

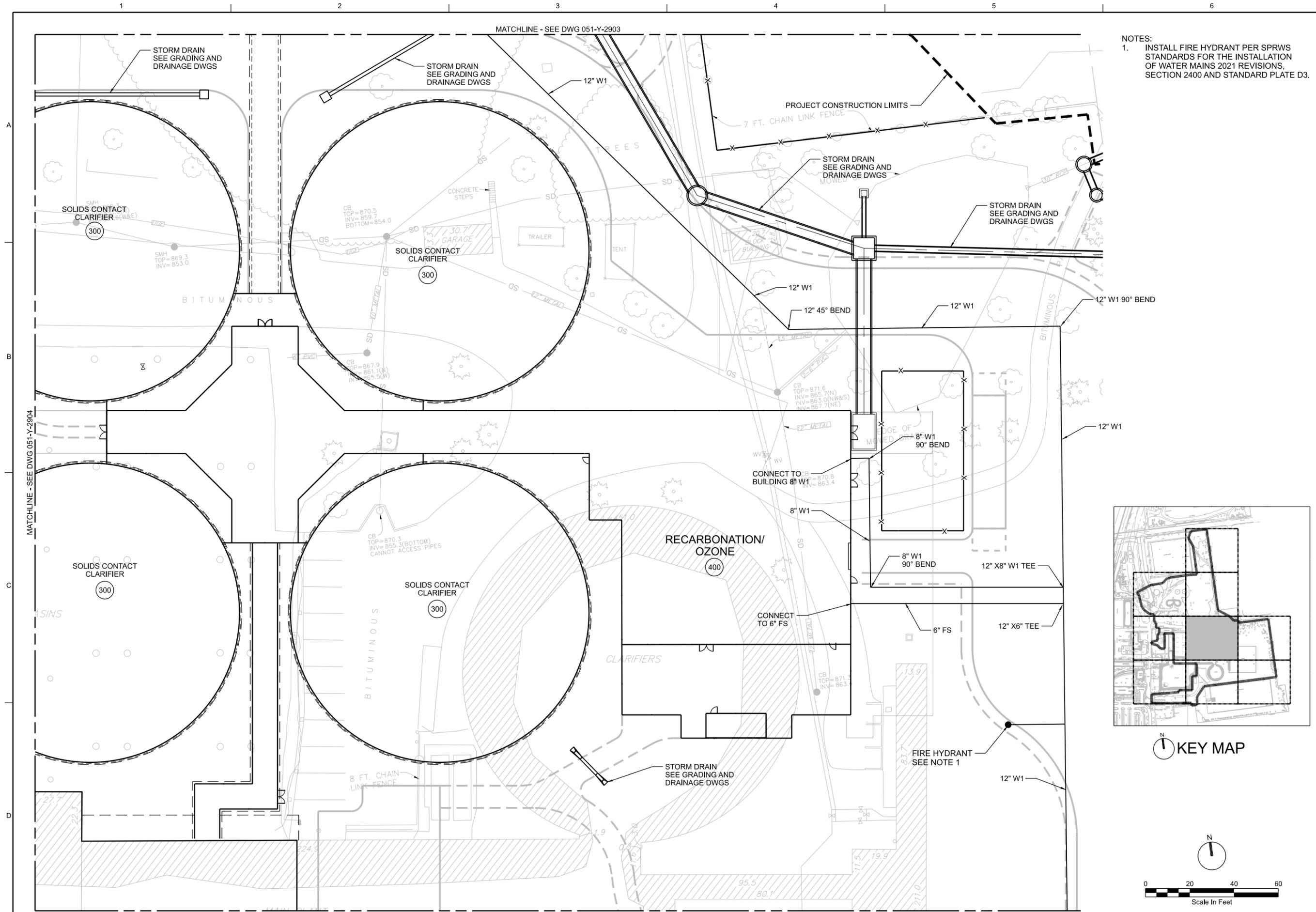




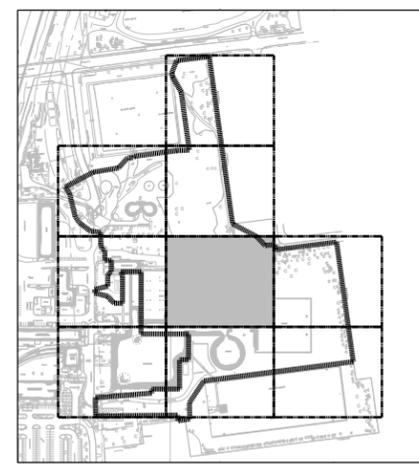


<b>Jacobs</b> CIVIL <b>CUP YARD PIPING AREA 3</b>		McCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA		A ESPOSITO DR	M MONAHAN CHK	T STOUT APVD	T MYERS BY
		DSGN	NO.	DATE	REVISION	APVD	BY
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		REUSE OF DOCUMENTS: THE DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS. © JACOBS 2021. ALL RIGHTS RESERVED.					
DATE	JANUARY 2022	<b>CUP/CDRB REVIEW</b>					
PROJ	DBSPRWS1	SHEET of					
DWG	051-Y-2903	FILENAME: 051-Y-2903_DBSPRWS1.dgn					
SHEET	of	PLOT DATE: 14-JAN-2022					
PLOT TIME: 18:34		PLOT DATE: 14-JAN-2022					

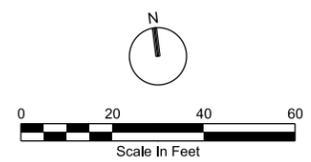




NOTES:  
 1. INSTALL FIRE HYDRANT PER SPRWS STANDARDS FOR THE INSTALLATION OF WATER MAINS 2021 REVISIONS, SECTION 2400 AND STANDARD PLATE D3.



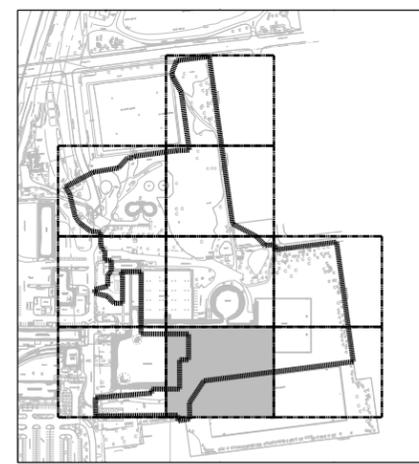
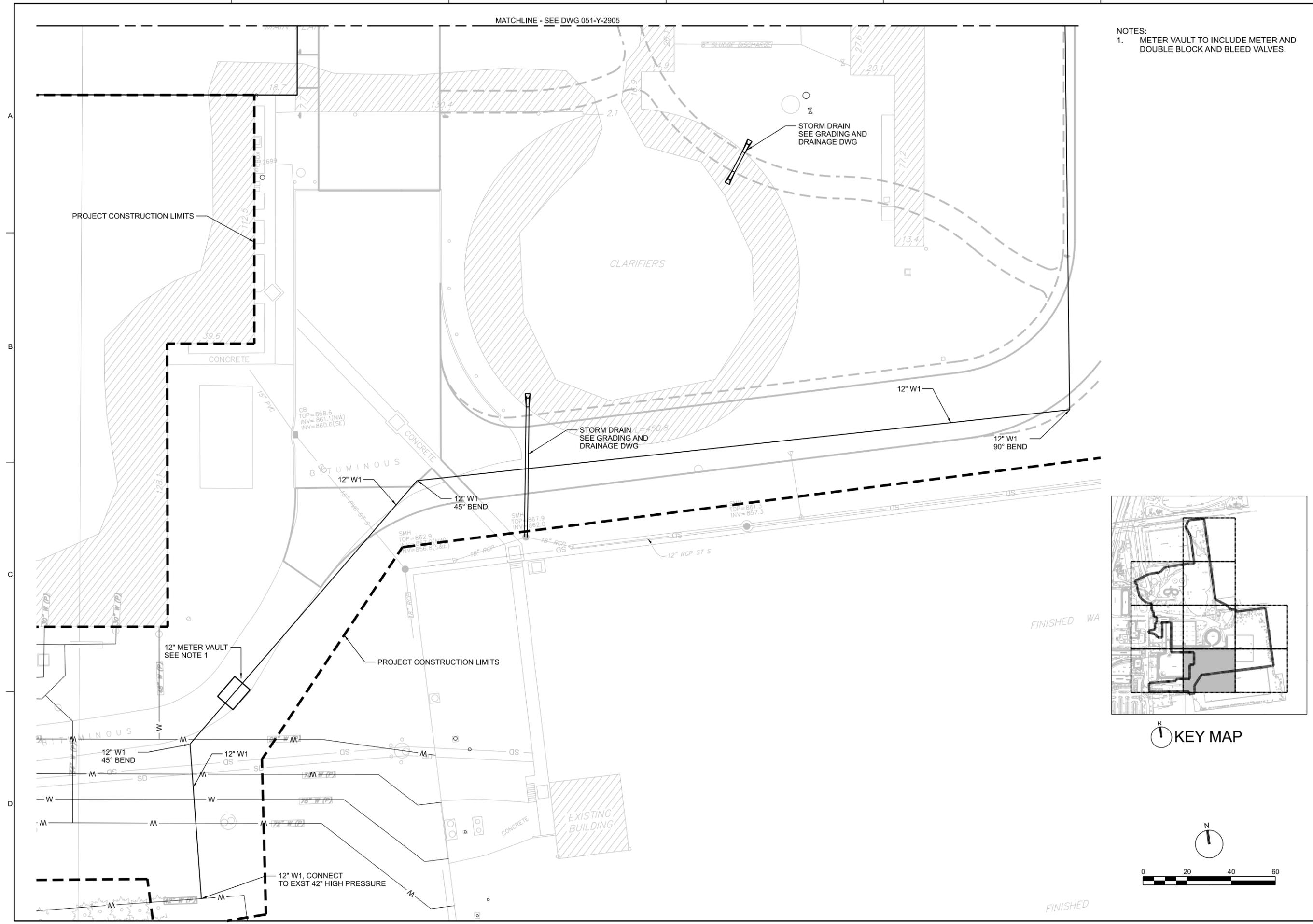
KEY MAP



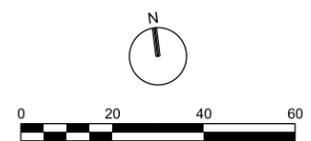
MCCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT		SAINT PAUL REGIONAL WATER SERVICES		SAINT PAUL, MINNESOTA		A ESPOSITO		DR		M MONAHAN		CHK		REVISION		APVD		BY		APVD		T MYERS	
CIVIL		CUP YARD PIPING AREA 5																					
VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.																					
DATE		JANUARY 2022																					
PROJ		DBSPRWS1																					
DWG		051-Y-2905																					
SHEET		of																					

MATCHLINE - SEE DWG 051-Y-2905

NOTES:  
1. METER VAULT TO INCLUDE METER AND DOUBLE BLOCK AND BLEED VALVES.



KEY MAP



NO.	DATE	DR	CHK	REVISION	BY	APVD

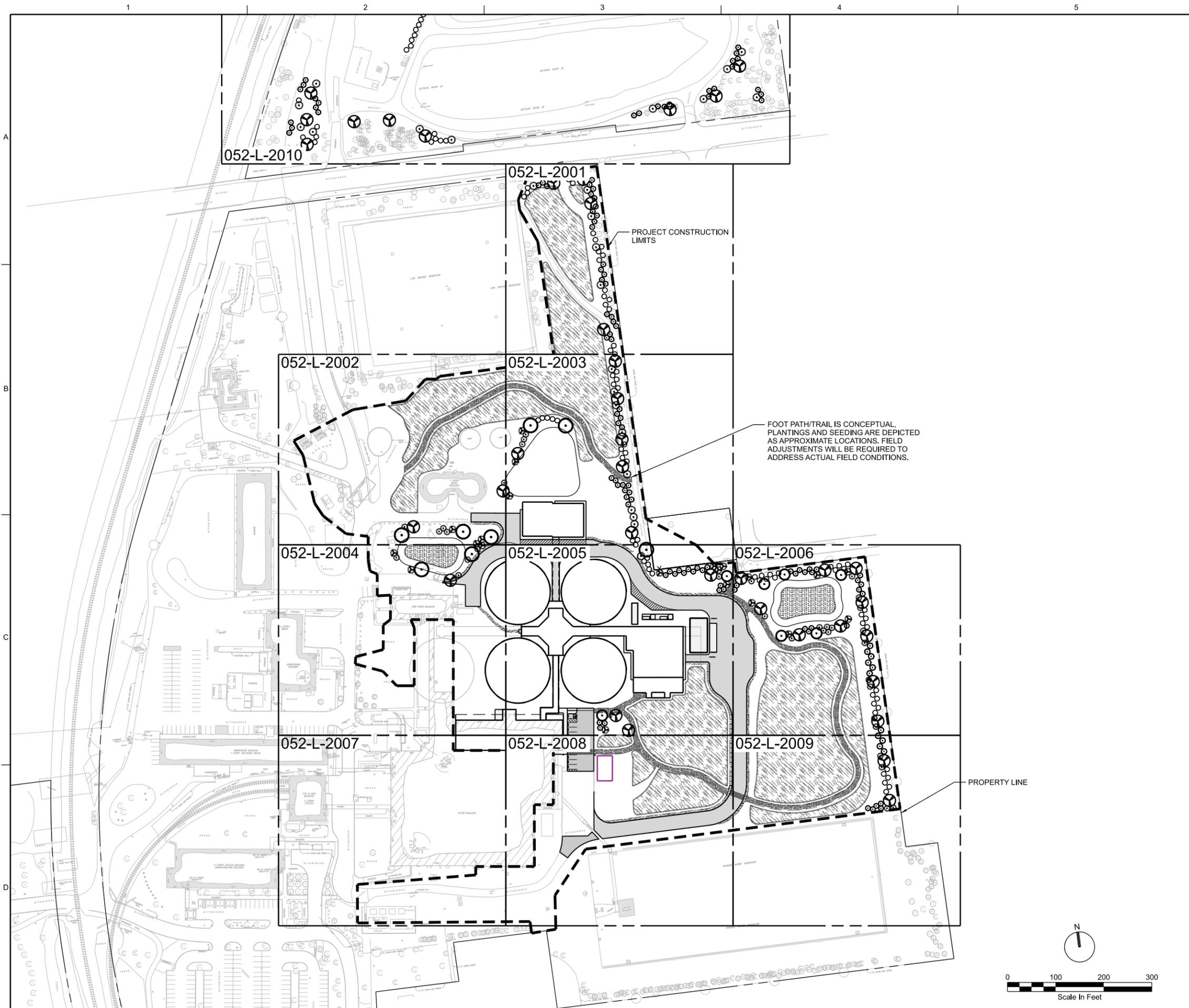
DESIGN: A. ESPOSITO  
 CHECKED: M. MONAHAN  
 DRAWN: T. STOUT  
 PROJECT: MCCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 CLIENT: SAINT PAUL REGIONAL WATER SERVICES  
 LOCATION: SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
**CUP YARD YARD PIPING AREA 8**

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 20 40 60

DATE: JANUARY 2022  
 PROJ: DBSPRWS1  
 DWG: 051-Y-2908  
 SHEET: of

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 T. MYERS



### GENERAL DWG NOTES

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS; BUT THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION PRIOR TO CONSTRUCTION TO AVOID DAMAGE THERETO.
- PLACE TREES A MINIMUM OF 10 FEET FROM UNDERGROUND UTILITIES.
- COORDINATE LANDSCAPE OPERATIONS WITH CONTRACTING OFFICER REPRESENTATIVE FOR SCHEDULING AND SEQUENCE OF WORK.
- PROVIDE ON-SITE VERIFICATION OF DIMENSIONS AND CONDITIONS.
- LAY OUT ELEMENTS AND VERIFY LAYOUT WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO CONSTRUCTION. CRITICAL ELEMENTS ARE DIMENSIONED ON THE LANDSCAPE PLANS. DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS OR OTHER DRAWINGS MUST BE REPORTED TO THE CONTRACTING OFFICER REPRESENTATIVE IMMEDIATELY FOR CLARIFICATION OR ADJUSTMENT.
- PLANTS MUST BE NURSERY GROWN, UNIFORM IN QUALITY, CLEAN, RIGID AND DURABLE AND FREE OF GARBAGE, FREE OF PLANT DISEASE OR INSECT EGGS AND HAZARDOUS ORGANIC COMPONENTS AND MUST HAVE A HEALTHY NORMAL ROOT SYSTEM. TREES MUST CONFORM TO THE BRANCHING, CALIBER, AND HEIGHT SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, AND MUST HAVE AN EVEN SHAPE HEAVY BRANCH STRUCTURE FOR THE SPECIES. EVERGREEN TREES ARE TO HAVE AN INTERNODE NO GREATER THAN 18" AND MUST BE UNIFORM.
- PLANTING SOIL, MUST BE 2/3 EXISTING SOIL, 1/3 ORGANIC MATERIAL, THOROUGHLY MIXED AND HOMOGENIZED. BACKFILL MUST BE DONE WITH PLANTING SOIL, FREE OF STONES LARGER THAN 2" SUBSOIL, CLAY LUMPS, STUMPS, ROOTS, WEEDS, BERMUDA GRASS, LITTER, TOXIC SUBSTANCES, OR OTHER MATERIAL HARMFUL TO PLANT GROWTH, OR HINDER GRADING, PLANTING OR MAINTENANCE OPERATIONS.
- ALL PLANTINGS SHALL BE SET PLUMB AND STRAIGHT PRIOR TO STAKING AND BACKFILL. STAKES AND GUY WIRES SHALL BE INSTALLED THE SAME DAY AS PLANTING. SHOULD UNSUITABLE PLANTING CONDITIONS EXIST, COORDINATE WITH CONSTRUCTION MANAGER PRIOR TO PROCEEDING.
- BLOCKS OF WOOD, GARBAGE OR OTHER UNNECESSARY IMPURITIES MUST BE REMOVED AND DISPOSED OFF SITE. VERIFY THE PLANT QUANTITIES PRIOR TO BIDDING. DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER REPRESENTATIVE. PROVIDE PLANTS REQUIRED TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. SUBSTITUTIONS MUST NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- FERTILIZER MUST BE A SLOW RELEASE TYPE CONTAINED IN POLYETHYLENE PERFORATED BAGS WITH MICROPOROUS HOLES FOR CONTROLLED FEEDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND GENERAL UPKEEP OF ALL PLANTINGS PLANTING AREAS, AND AREAS WITHIN THE TREE PROTECTION FENCE UNTIL TIME OF ACCEPTANCE. THIS INCLUDES REPLANTING OR REPLACEMENT OF PLANTS, WATER, FERTILIZER WEEDING, MULCH REPLACEMENT OR REPAIR, PRUNING, SPRAYING, RE-STAKING, AND MAINTAINING LAWN AREAS WITHIN TREE PROTECTION AREAS TO A HEIGHT OF 6" OR LESS.
- MATERIALS MUST BE UNCONDITIONALLY GUARANTEED FOR ONE YEAR.
- GUARANTEE MUST COVER BOTH LABOR AND MATERIALS. EARTH SAUCERS, STAKES, AND GUYS MUST BE REMOVED AND TREES AND SHRUBS MULCHED TO 3" MAXIMUM DEPTH WITH MULCH JUST PRIOR TO EXPIRATION OF THE ONE-YEAR GUARANTEE. THE OWNER MUST BE NOTIFIED IN WRITING WHEN THE WORK IS TO OCCUR.
- TREE REMOVAL MUST BE AVOIDED BETWEEN 6/1-7/31.
- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL, TREE PROTECTION, AND ARBORIST'S INVENTORY TABLES OF TREES.

### PLANT LIST

SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY	UNIT	SIZE
TILIA AMERICANA	AMERICAN BASSWOOD	38	EA	2" CAL
TILIA TOMENTOSA	SILVER LINDEN	15	EA	2" CAL
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY	UNIT	SIZE
PINUS STROBUS	EASTERN WHITE PINE	116	EA	2" CAL
ABIES CONCOLOR	WHITE FIR	116	EA	2" CAL
ORNAMENTAL TREES				
SCIENTIFIC NAME	COMMON NAME	QTY	UNIT	SIZE
AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	60	EA	6' HT
CARPINUS CAROLINIANA	AMERICAN HORNBEAM	21	EA	6' HT

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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

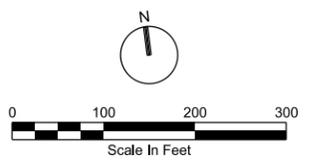
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 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	REVISION	CHK	BY	APVD

McCARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

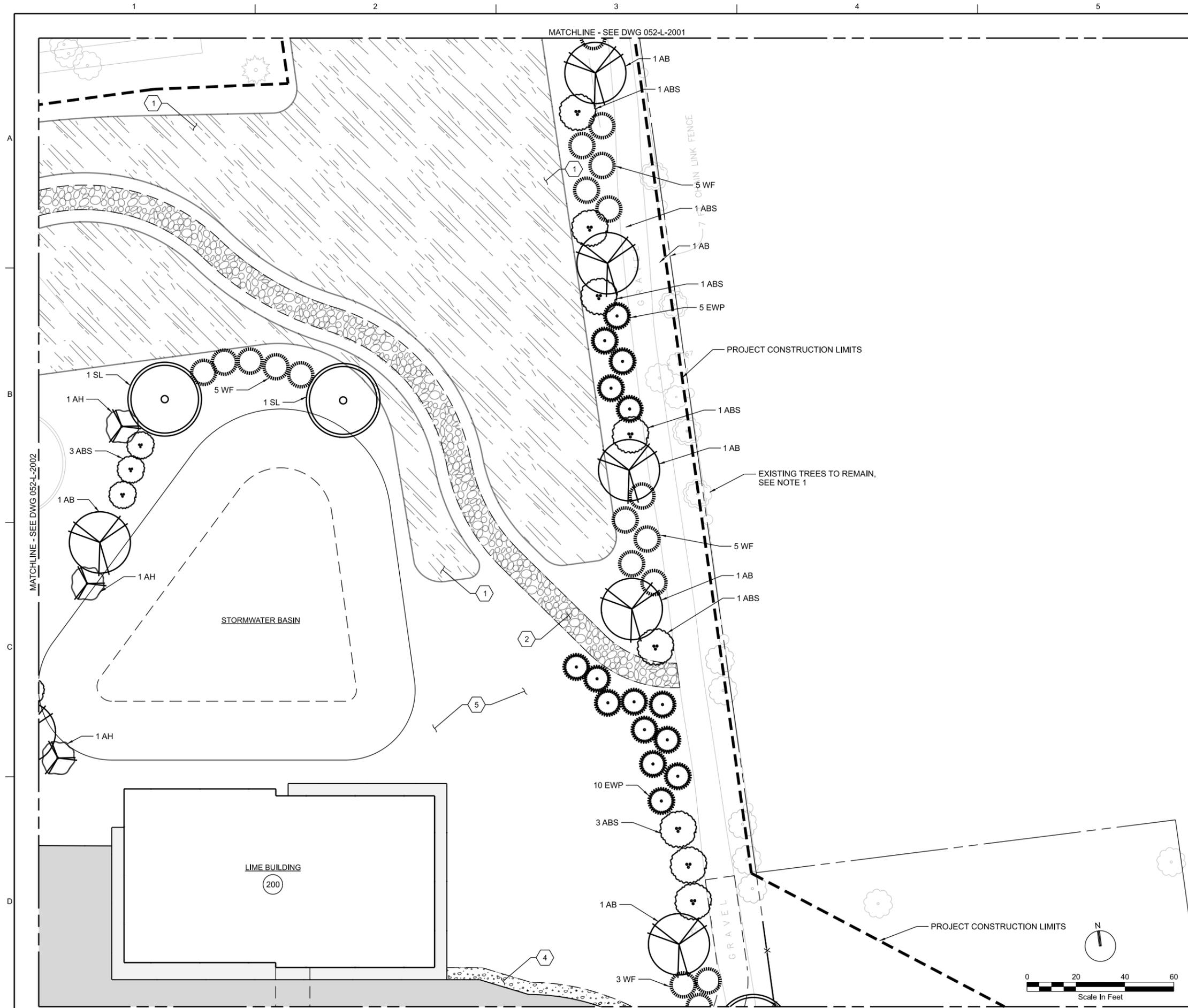
**Jacobs**  
 CIVIL  
 LANDSCAPE OVERALL PLAN AND KEY MAP

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 DATE: JANUARY 2022  
 PROJ: DBSPRWS1  
 DWG: 052-L-2000  
 SHEET: \_\_\_\_\_ of \_\_\_\_\_









### GENERAL DWG NOTES

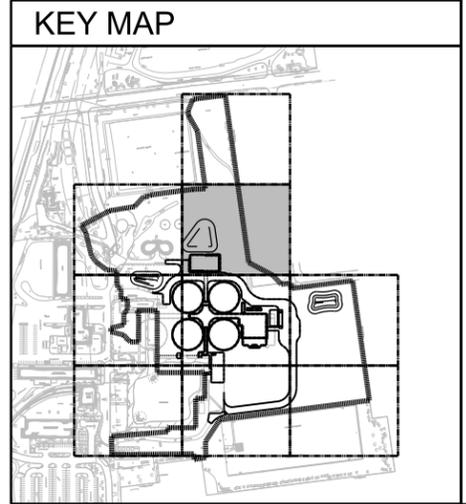
- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL, TREE PROTECTION, AND ARBORIST'S INVENTORY TABLES OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL. PLANTINGS AND SEEDING ARE DEPICTED AS APPROXIMATE LOCATIONS. FIELD ADJUSTMENTS WILL BE REQUIRED TO ADDRESS ACTUAL FIELD CONDITIONS.

### KEYNOTES

- POLLINATOR GRASS SEED MIX.
- GRAVEL TRAIL/FOOT PATH - 10' WIDTH.
- GRAVEL SHOULDER.
- LOW MAINTENANCE SEED MIX.

### PLANT LIST

SHADE TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
AB	TILA AMERICANA	AMERICAN BASSWOOD
SL	TILA TOMENTOSA	SILVER LINDEN
EVERGREEN TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
EWP	PINUS STROBUS	EASTERN WHITE PINE
WF	ABIES CONCOLOR	WHITE FIR
ORNAMENTAL TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
ABS	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY
AH	CARPINUS CAROLINIANA	AMERICAN HORNBEAM



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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_

TYPED NAME: \_\_\_\_\_

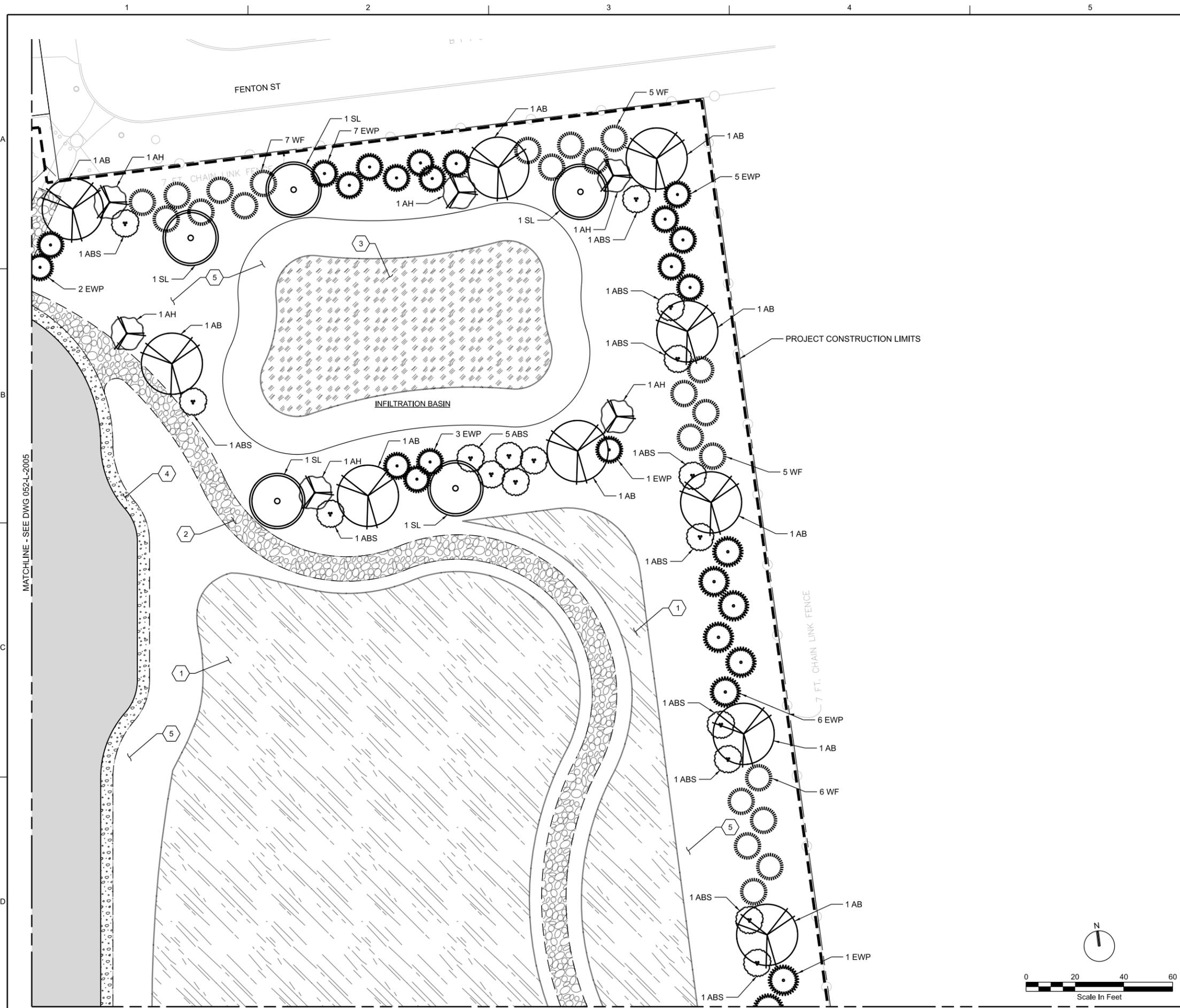
DATE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

<b>Jacobs</b> CIVIL LANDSCAPE PLAN AREA 3		McCARRON WATER TREATMENT PROCESS IMPROVEMENT PROJECT SAINT PAUL REGIONAL WATER SERVICES SAINT PAUL, MINNESOTA	DR R. TOWNSEND J. NESSL CHK R. TOWNSEND APVD T. MYERS
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.	DATE: JANUARY 2022 PROJ: DBSPRWS1 DWG: 052-L-2003 SHEET: _____ of _____	CUP/CDRB REVIEW	







### GENERAL DWG NOTES

- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL, TREE PROTECTION, AND ARBORIST'S INVENTORY TABLES OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL. PLANTINGS AND SEEDING ARE DEPICTED AS APPROXIMATE LOCATIONS. FIELD ADJUSTMENTS WILL BE REQUIRED TO ADDRESS ACTUAL FIELD CONDITIONS.

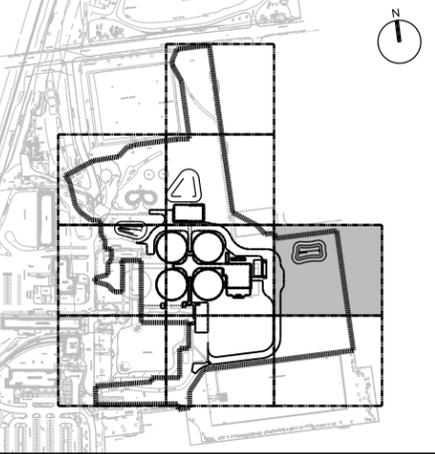
### # KEYNOTES

- POLLINATOR GRASS SEED MIX.
- GRAVEL TRAIL/FOOT PATH - 10' WIDTH.
- WET SEED MIX.
- GRAVEL SHOULDER.
- LOW MAINTENANCE SEED MIX.

### PLANT LIST

SHADE TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	TILA AMERICANA	AMERICAN BASSWOOD
	TILA TOMENTOSA	SILVER LINDEN
EVERGREEN TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	PINUS STROBUS	EASTERN WHITE PINE
	ABIES CONCOLOR	WHITE FIR
ORNAMENTAL TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY
	CARPINUS CAROLINIANA	AMERICAN HORNBEAM

### KEY MAP



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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

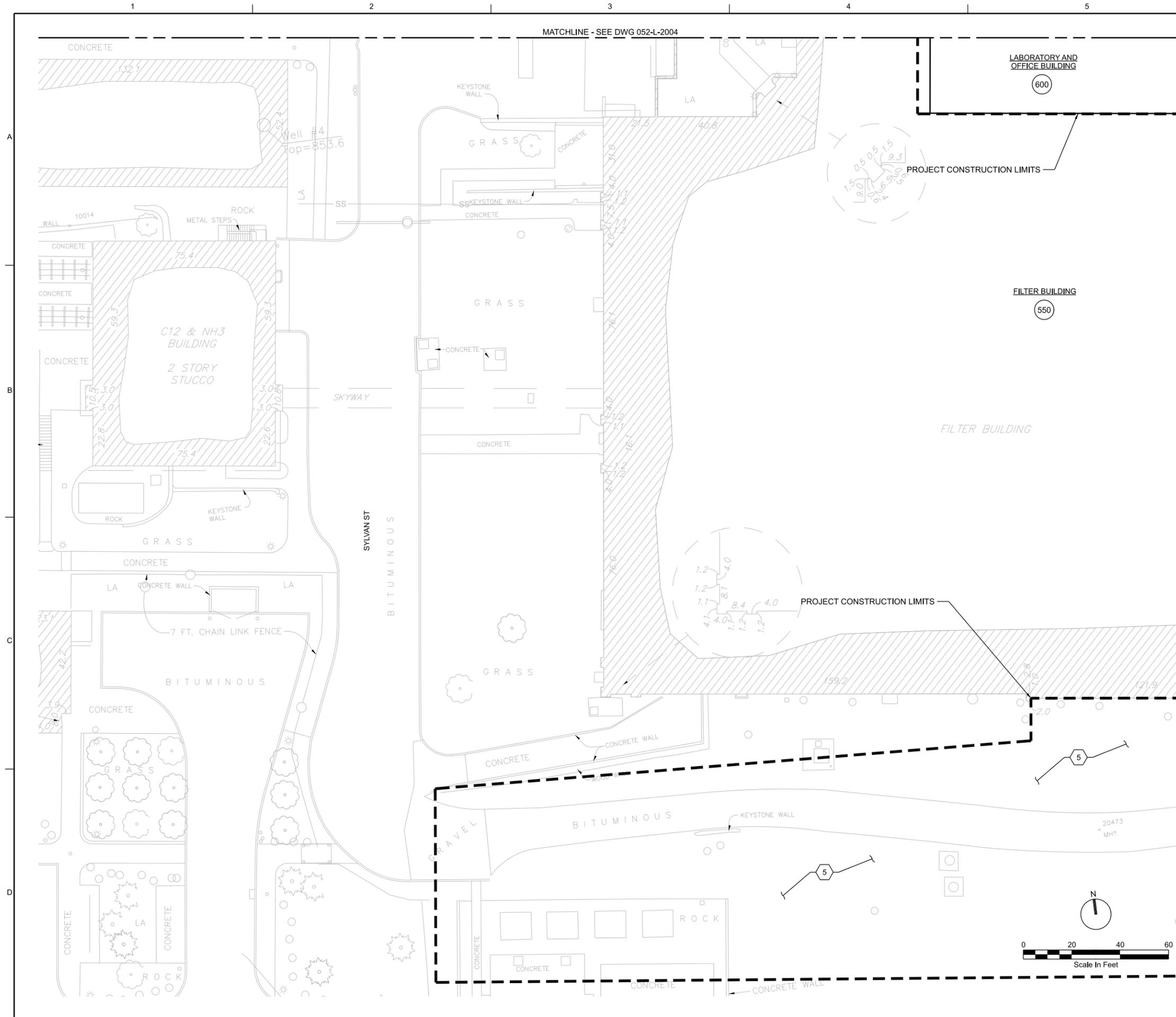
NO.	DATE	DR	REVISION	CHK	BY	APVD

McCarron's WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
 LANDSCAPE PLAN  
 AREA 6

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	052-L-2006
SHEET	of

CUP/CDRB REVIEW  
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**GENERAL DWG NOTES**

- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL, TREE PROTECTION, AND ARBORIST'S INVENTORY TABLES OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL. PLANTINGS AND SEEDING ARE DEPICTED AS APPROXIMATE LOCATIONS. FIELD ADJUSTMENTS WILL BE REQUIRED TO ADDRESS ACTUAL FIELD CONDITIONS.

**# KEYNOTES**

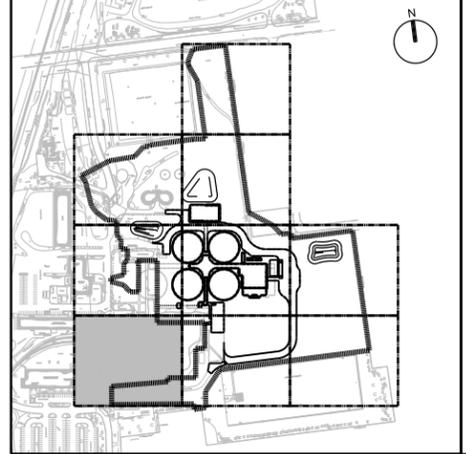
5. LOW MAINTENANCE SEED MIX.

NO.	DATE	DR	CHK	REVISION	BY	APVD

**PLANT LIST**

SHADE TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	TILA AMERICANA	AMERICAN BASSWOOD
	TILA TOMENTOSA	SILVER LINDEN
EVERGREEN TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	PINUS STROBUS	EASTERN WHITE PINE
	ABIES CONCOLOR	WHITE FIR
ORNAMENTAL TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY
	CARPINUS CAROLINIANA	AMERICAN HORNBEAM

**KEY MAP**



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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

**Jacobs**  
 CIVIL  
 LANDSCAPE PLAN  
 AREA 7

McCARRON'S WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

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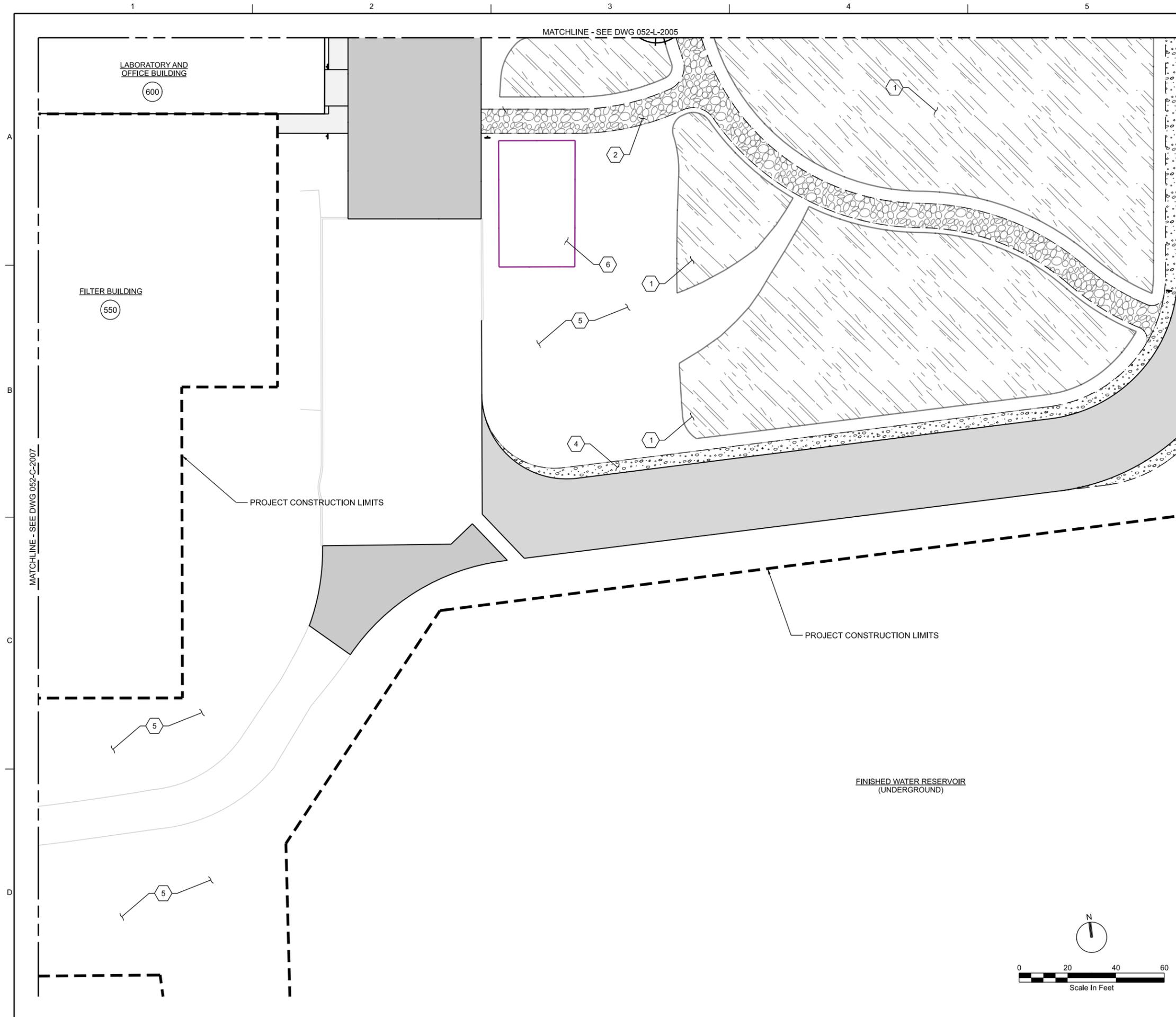
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T. MYERS  
 J. NESSL  
 R. TOWNSEND  
 R. TOWNSEND  
 DR

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 1"

DATE: JANUARY 2022  
 PROJ: DBSPRWS1  
 DWG: 052-L-2007  
 SHEET: \_\_\_\_\_ of \_\_\_\_\_

CUP/CDRB REVIEW



### GENERAL DWG NOTES

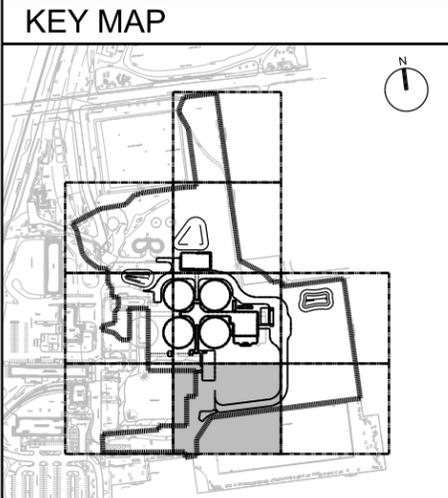
- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL, TREE PROTECTION, AND ARBORIST'S INVENTORY TABLES OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL. PLANTINGS AND SEEDING ARE DEPICTED AS APPROXIMATE LOCATIONS. FIELD ADJUSTMENTS WILL BE REQUIRED TO ADDRESS ACTUAL FIELD CONDITIONS.

### # KEYNOTES

- POLLINATOR GRASS SEED MIX.
- GRAVEL TRAIL/FOOT PATH - 10' WIDTH.
- GRAVEL SHOULDER.
- LOW MAINTENANCE SEED MIX.
- EMPLOYEE GARDEN, TO BE FINALIZED.

### PLANT LIST

SHADE TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
AB	TILA AMERICANA	AMERICAN BASSWOOD
SL	TILA TOMENTOSA	SILVER LINDEN
EVERGREEN TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
EWP	PINUS STROBUS	EASTERN WHITE PINE
WF	ABIES CONCOLOR	WHITE FIR
ORNAMENTAL TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
ABS	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY
AH	CARPINUS CAROLINIANA	AMERICAN HORNBEAM



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SIGNATURE: \_\_\_\_\_

TYPED NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	CHK	BY	APVD
		R. TOWNSEND	J. NESSL		T. MYERS

McCARRON'S WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
 LANDSCAPE PLAN  
 AREA 8

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	052-L-2008
SHEET	of

CUP/CDRB REVIEW



### GENERAL DWG NOTES

- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL, TREE PROTECTION, AND ARBORIST'S INVENTORY TABLES OF TREES.
- FOOT PATH/TRAIL IS CONCEPTUAL. PLANTINGS AND SEEDING ARE DEPICTED AS APPROXIMATE LOCATIONS. FIELD ADJUSTMENTS WILL BE REQUIRED TO ADDRESS ACTUAL FIELD CONDITIONS.

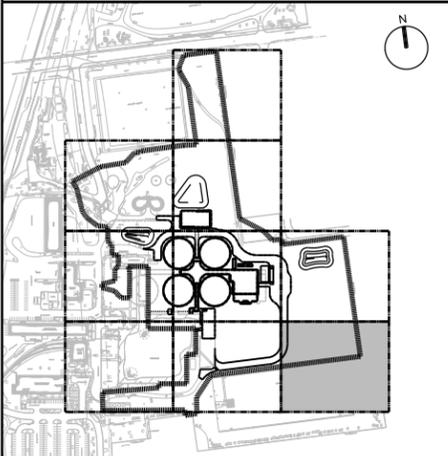
### KEYNOTES

- POLLINATOR GRASS SEED MIX.
- GRAVEL TRAIL/FOOT PATH - 10' WIDTH.
- GRAVEL SHOULDER.
- LOW MAINTENANCE SEED MIX.

### PLANT LIST

SHADE TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
AB	TILA AMERICANA	AMERICAN BASSWOOD
SL	TILA TOMENTOSA	SILVER LINDEN
EVERGREEN TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
EWP	PINUS STROBUS	EASTERN WHITE PINE
WF	ABIES CONCOLOR	WHITE FIR
ORNAMENTAL TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
ABS	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY
AH	CARPINUS CAROLINIANA	AMERICAN HORNBEAM

### KEY MAP



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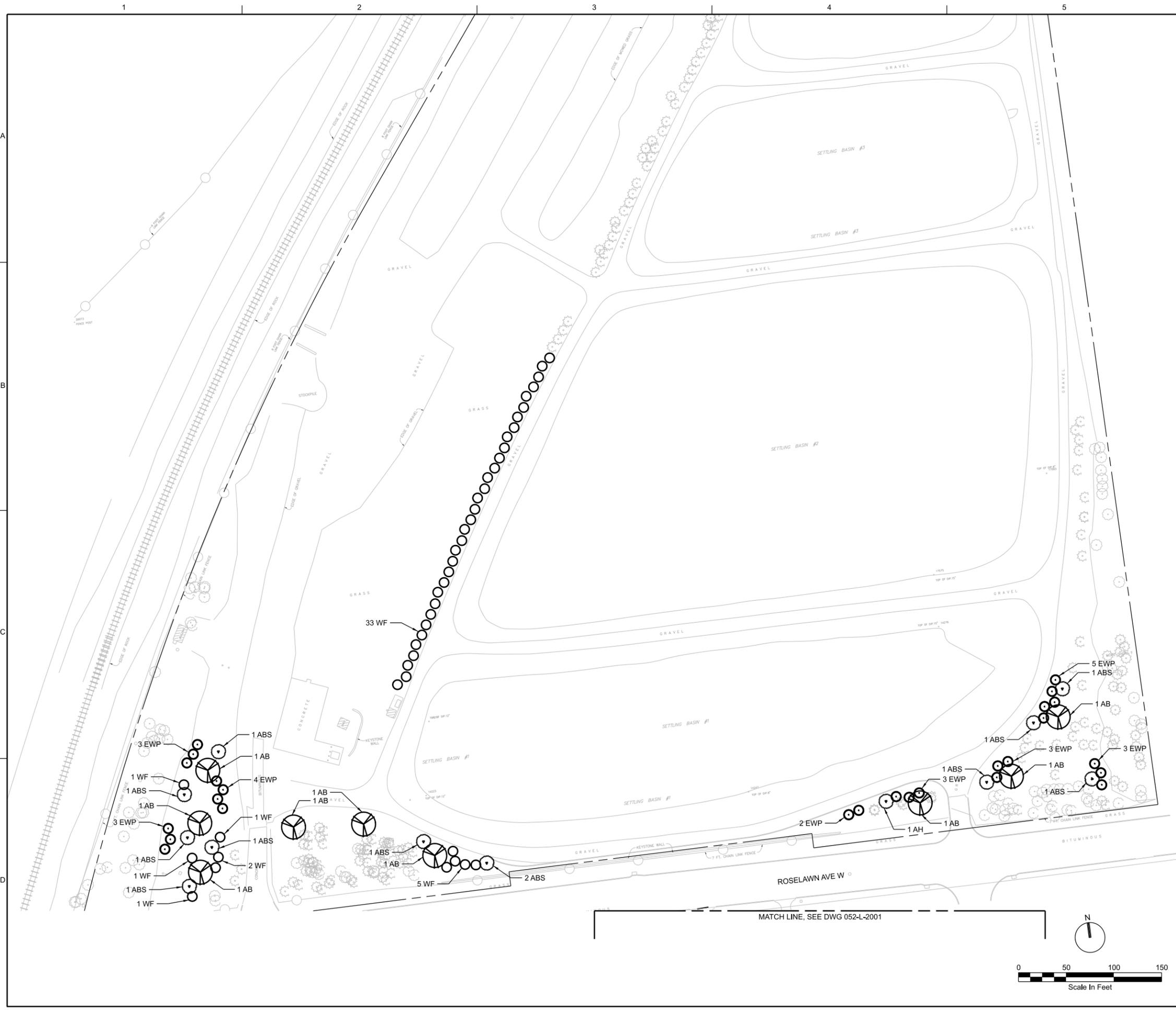
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 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	CHK	BY	APVD
		R. TOWNSEND	J. NESSL		T. MYERS

McCarron's WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 CIVIL  
 LANDSCAPE PLAN  
 AREA 9

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	052-L-2009
SHEET	of



### GENERAL DWG NOTES

- SEE DRAWINGS 051-C-0010 THROUGH 051-C-0025 FOR TREE REMOVAL AND ARBORIST'S INVENTORY TABLES OF TREES.
- PLANTINGS ARE DEPICTED AS APPROXIMATE LOCATIONS. FIELD ADJUSTMENTS WILL BE REQUIRED TO ADDRESS ACTUAL FIELD CONDITIONS.

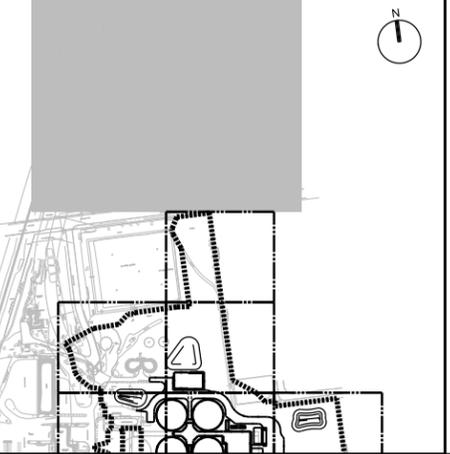
### # KEYNOTES

NO.	DATE	DR	REVISION	CHK	BY	APVD

### PLANT LIST

SHADE TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	TILA AMERICANA	AMERICAN BASSWOOD
	TILA TOMENTOSA	SILVER LINDEN
EVERGREEN TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	PINUS STROBUS	EASTERN WHITE PINE
	ABIES CONCOLOR	WHITE FIR
ORNAMENTAL TREES		
SYMBOL	SCIENTIFIC NAME	COMMON NAME
	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY
	CARPINUS CAROLINIANA	AMERICAN HORNBEAM

### KEY MAP



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

CIVIL

**SUPPLEMENTAL TREE PLANTING PLAN**

**NORTH OF ROSELAWN AVE W**

McCARRONS WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES

SAINT PAUL, MINNESOTA

R. TOWNSEND  
 DR

J. NESSL  
 CHK

T. MYERS  
 APVD

R. TOWNSEND  
 DSGN

J. NESSL  
 REVISION

T. MYERS  
 BY

SAINT PAUL, MINNESOTA

SAINT PAUL REGIONAL WATER SERVICES

CUP/CDRB REVIEW

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE

JANUARY 2022

PROJ

DBSPRWS1

DWG

052-L-2010

SHEET

of



### GENERAL NOTES

1. OUTDOOR LIGHTING LEVELS SHOWN EVERY 10 FEET WITHIN LIMITS OF CONSTRUCTION.
2. LIGHT LEVELS ON ROOFS OF BUILDINGS NOT SHOWN.
3. LIGHT LEVELS REFLECT LIGHT PROVIDED BY LIGHT FIXTURES INSTALLED AS A PART OF THIS PROJECT. EXISTING LIGHT FIXTURES ARE NOT CONSIDERED.

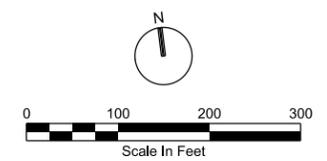
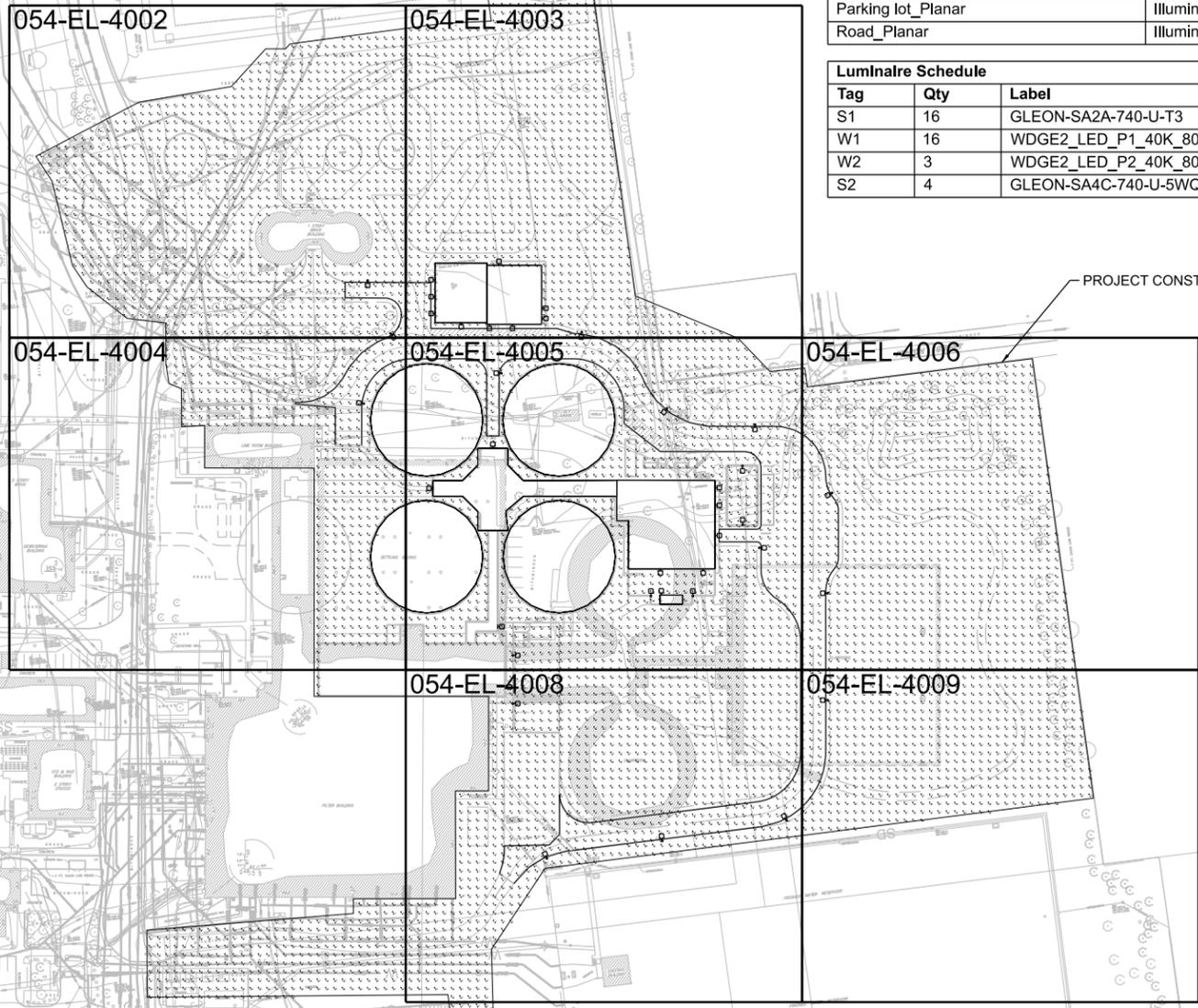
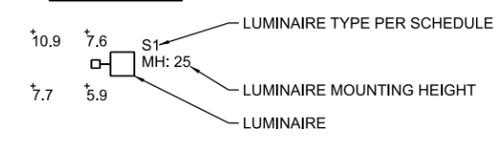
#### Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Construction Area_Planar	Illuminance	Fc	0.12	12.7	0.0	N.A.	N.A.
Lox Pad_Planar	Illuminance	Fc	6.14	11.6	2.2	2.79	5.27
Ozone_Planar	Illuminance	Fc	6.89	13.0	2.1	3.28	6.19
Parking lot_Planar	Illuminance	Fc	1.14	3.4	0.3	3.80	11.33
Road_Planar	Illuminance	Fc	1.08	8.3	0.2	5.40	41.50

#### Luminaire Schedule

Tag	Qty	Label	Arrangement	LLF	Description
S1	16	GLEON-SA2A-740-U-T3	SINGLE	0.720	GLEON-SA2A-740-U-T3
W1	16	WDGE2_LED_P1_40K_80CRI_VW	SINGLE	0.720	WDGE2 LED P1 40K 80CRI VW
W2	3	WDGE2_LED_P2_40K_80CRI_VW	SINGLE	0.720	WDGE2 LED P2 40K 80CRI VW
S2	4	GLEON-SA4C-740-U-5WQ	SINGLE	0.720	GLEON-SA4C-740-U-5WQ

### LEGEND



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.

SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

McCarrons WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

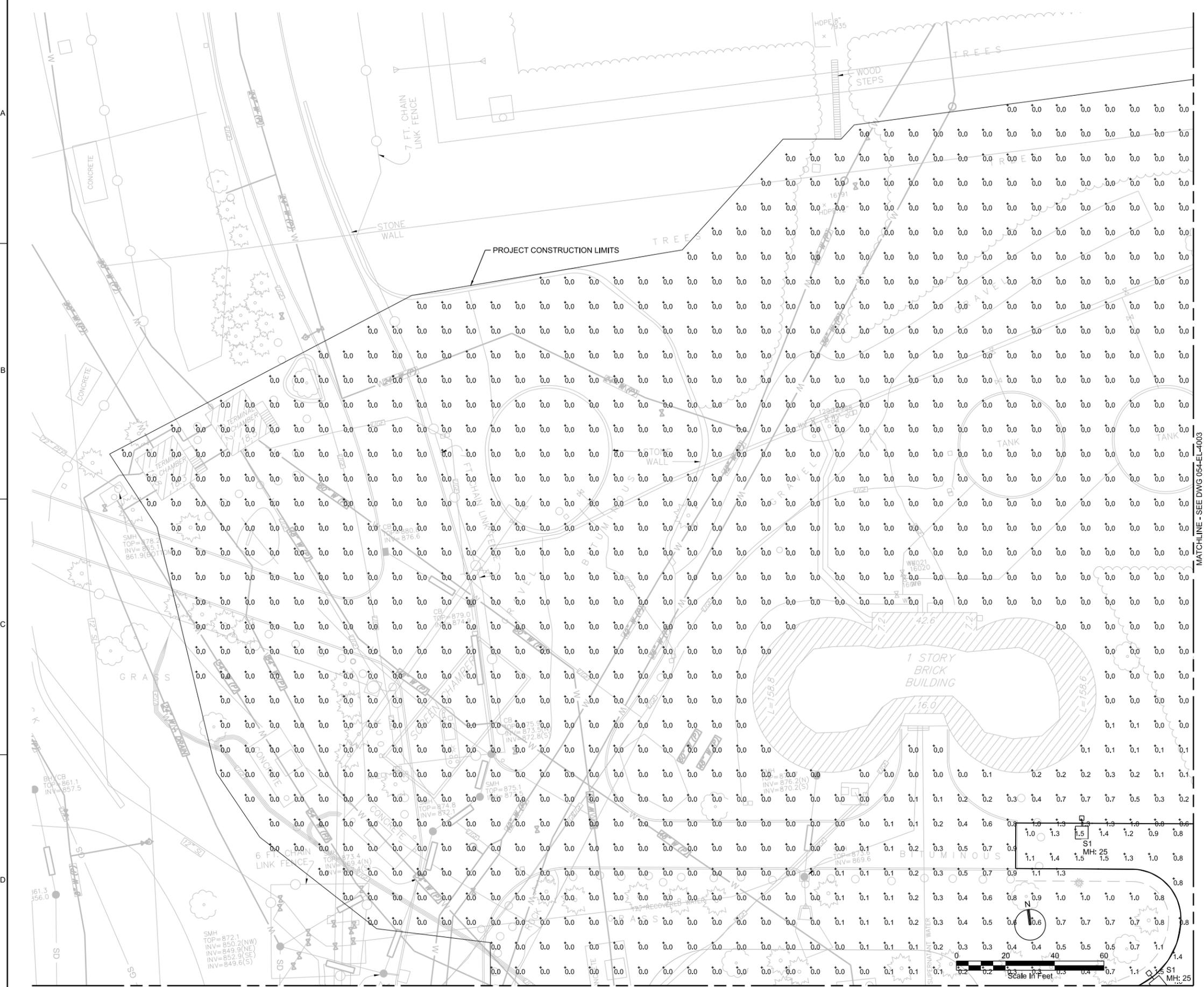
**Jacobs**  
 SITE ELECTRICAL  
 OVERALL LIGHTING  
 SITE PLAN  
 LIGHTING CALCULATIONS

VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE	JANUARY 2022
PROJ	DBSPRWS1
DWG	054-EL-2001
SHEET	of

CUP/CDB REVIEW

### GENERAL NOTES

1. OUTDOOR LIGHTING LEVELS SHOWN EVERY 10 FEET WITHIN LIMITS OF CONSTRUCTION.
2. LIGHT LEVELS ON ROOFS OF BUILDINGS NOT SHOWN.
3. LIGHT LEVELS REFLECT LIGHT PROVIDED BY LIGHT FIXTURES INSTALLED AS PART OF THIS PROJECT. EXISTING LIGHT FIXTURES ARE NOT CONSIDERED.



MATCHLINE - SEE DWG 054-EL-4003

MATCHLINE - SEE DWG 054-EL-4004

### KEY MAP

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.

SIGNATURE: \_\_\_\_\_

TYPED NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 20 40 60 80  
 Scale In Feet

DATE: JANUARY 2022  
 PROJ: DBSPRWS1  
 DWG: 054-EL-4002  
 SHEET: \_\_\_\_\_ of \_\_\_\_\_

NO.	DATE	DR	CHK	REVISION	BY	APVD
		R. WOOD	A. CUGLIATI		J. LANDMAN	T. MYERS

McCarrons WATER TREATMENT  
 PROCESS IMPROVEMENT PROJECT  
 SAINT PAUL REGIONAL WATER SERVICES  
 SAINT PAUL, MINNESOTA

**Jacobs**  
 SITE ELECTRICAL  
 ENLARGED SITE PLAN  
 AREA 2  
 LIGHTING CALCULATIONS

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CUP/CDRB REVIEW

### GENERAL NOTES

1. OUTDOOR LIGHTING LEVELS SHOWN EVERY 10 FEET WITHIN LIMITS OF CONSTRUCTION.
2. LIGHT LEVELS ON ROOFS OF BUILDINGS NOT SHOWN.
3. LIGHT LEVELS REFLECT LIGHT PROVIDED BY LIGHT FIXTURES INSTALLED AS PART OF THIS PROJECT. EXISTING LIGHT FIXTURES ARE NOT CONSIDERED.

NO.	DATE	DR	CHK	REVISION	BY	APVD
		R WOOD	A CUGLIATI		J LANDMAN	T MYERS

McCarrons WATER TREATMENT  
PROCESS IMPROVEMENT PROJECT  
SAINT PAUL REGIONAL WATER SERVICES  
SAINT PAUL, MINNESOTA

## JACOBS

SITE ELECTRICAL  
**ENLARGED SITE PLAN  
AREA 3  
LIGHTING CALCULATIONS**

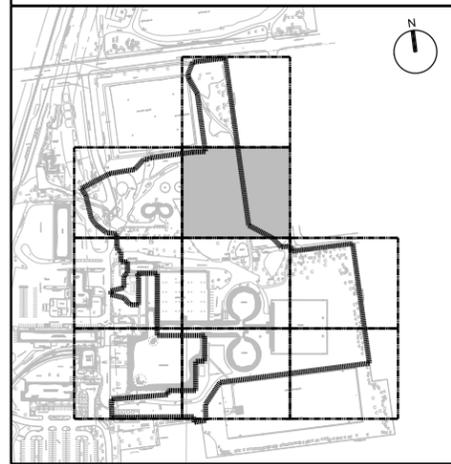
VERIFY SCALE	DATE	JANUARY 2022
BAR IS ONE INCH ON ORIGINAL DRAWING.	PROJ	DBSPRWS1
	DWG	054-EL-4003
	SHEET	of

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CUP/CDB REVIEW



### KEY MAP

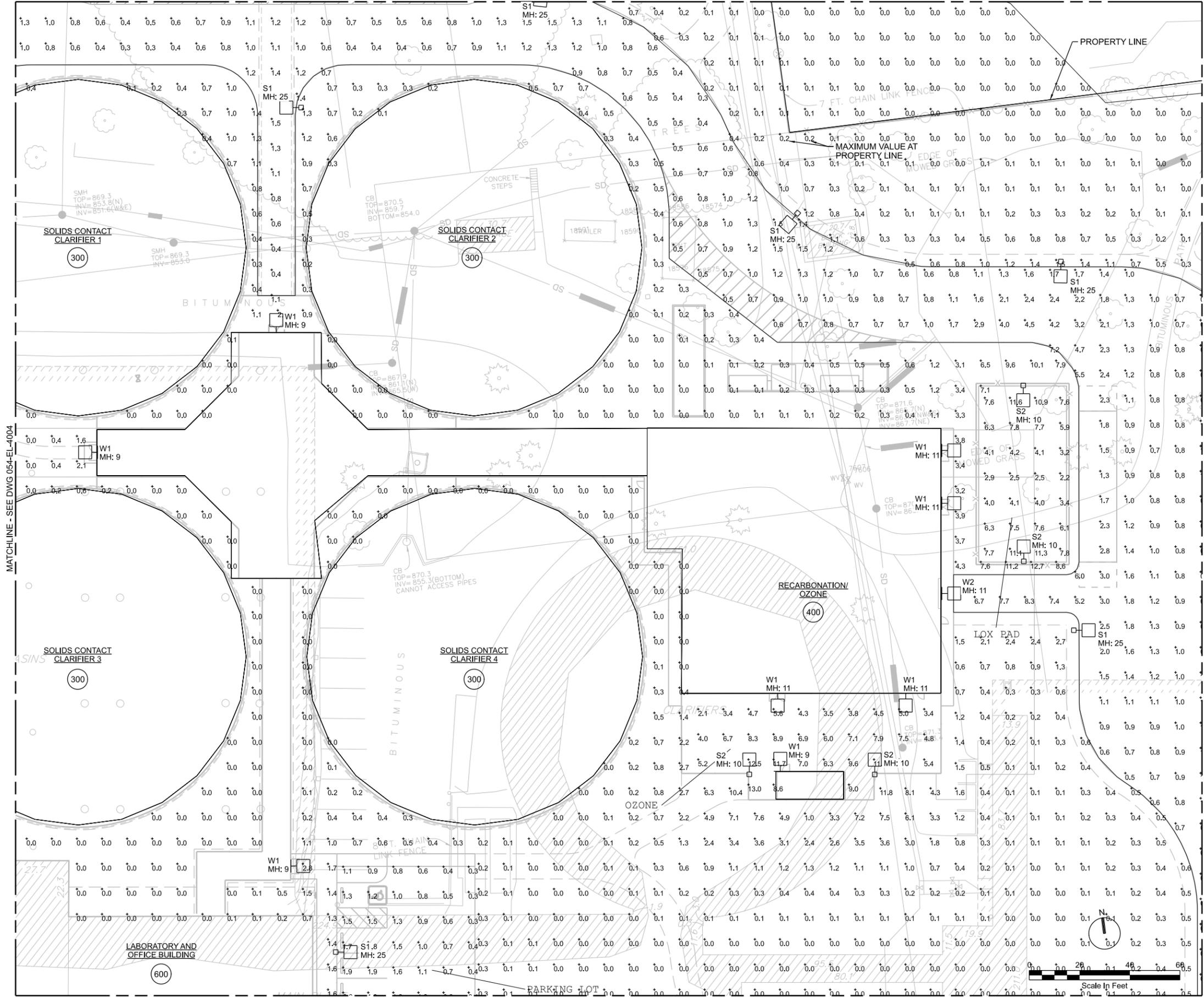


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_



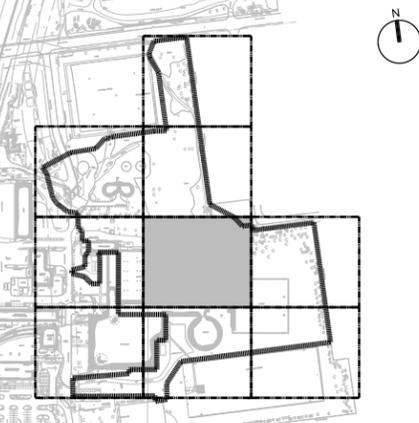
MATCHLINE - SEE DWG 054-EL-4003



### GENERAL NOTES

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### KEY MAP



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

NO.	DATE	DR	CHK	REVISION	BY	APVD

DESIGN: R. WOOD  
 CHECK: A. CUGLIAT  
 APPROVED: J. LANDMAN  
 PROJECT: MCCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT  
 CLIENT: SAINT PAUL REGIONAL WATER SERVICES  
 LOCATION: SAINT PAUL, MINNESOTA

**Jacobs**  
 SITE ELECTRICAL  
**ENLARGED SITE PLAN  
 AREA 5  
 LIGHTING CALCULATIONS**

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 10 20 40 60 80

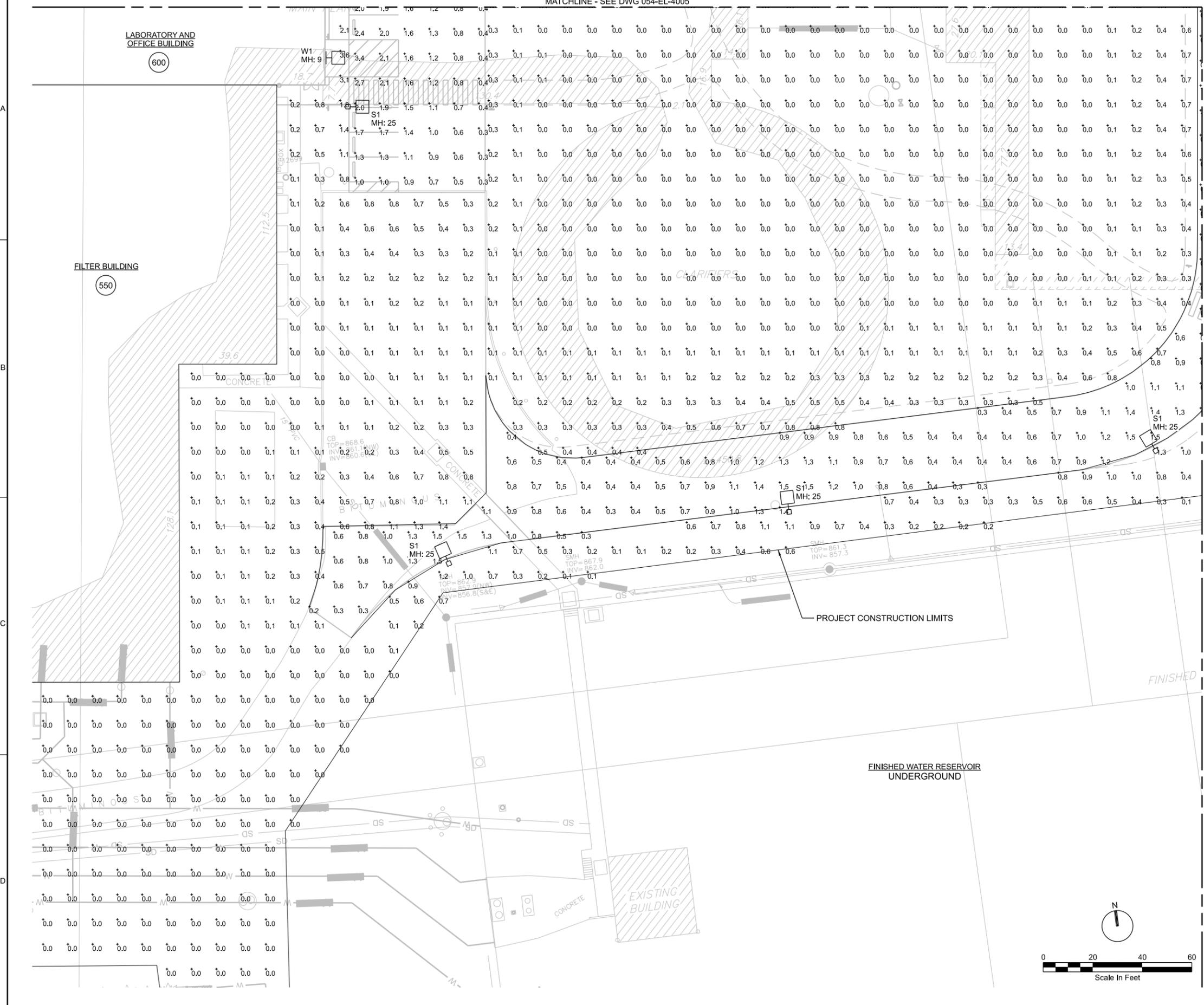
DATE: JANUARY 2022  
 PROJ: DBSPRWS1  
 DWG: 054-EL-4005  
 SHEET: \_\_\_\_\_ of \_\_\_\_\_

CUP/CDRB REVIEW

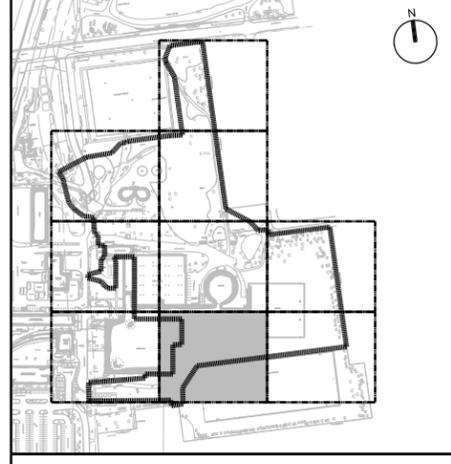


MATCHLINE - SEE DWG 054-EL-4005

- ### GENERAL NOTES
1. OUTDOOR LIGHTING LEVELS SHOWN EVERY 10 FEET WITHIN LIMITS OF CONSTRUCTION.
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### KEY MAP



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SIGNATURE: \_\_\_\_\_  
 TYPED NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 LIC. NO.: \_\_\_\_\_

MCCARRONS WATER TREATMENT PROCESS IMPROVEMENT PROJECT		SAINT PAUL REGIONAL WATER SERVICES		SAINT PAUL, MINNESOTA	
AUGLIATI		R. WOOD		T. MYERS	
DR		CHK		BY	
NO.		DATE		APVD	
DGSN		APVD		APVD	
J. LANDMAN		A. CUGLIATI		R. WOOD	
JACOBS		SITE ELECTRICAL		ENLARGED SITE PLAN	
AREA 8		LIGHTING CALCULATIONS		CUP/CDRB REVIEW	
VERIFY SCALE		DATE		PROJ	
BAR IS ONE INCH ON ORIGINAL DRAWING.		JANUARY 2022		DBSPRWS1	
DWG		054-EL-4008		SHEET	
of		PLOT DATE: 13-JAN-2022		PLOT TIME: 16:07	

