

PRELIMINARY NOT FOR CONSTRUCTION

PARKING CALCULATIONS

(SEE TRAFFIC AND PARKING IMPACT LETTER FOR MORE INFORMATION)

TOTAL NO. OF HIGH SCHOOL COURTS	AVERAGE NO. OF PLAYERS PER COURT	AVERAGE NO. OF COACHES PER COURT	TOTAL NO. OF USERS PER COURT	PERCENTAGE OF USERS PARKING	NO. OF VEHICLES PARKING
8	10	2	96	80%	77
TOTAL NO. OF HIGH SCHOOL FIELDS	AVERAGE NO. OF PLAYERS PER FIELD	AVERAGE NO. OF COACHES PER FIELD	TOTAL NO. OF USERS PER FIELD	PERCENTAGE OF USERS PARKING	NO. OF VEHICLES PARKING
1.5	15	2	26	80%	21
MAXIMUM NO. OF PARKING STALLS UTILIZED DURING PRACTICE FOR HIGH SCHOOL LEVEL SPORTS ONLY					98

PAVEMENT LEGEND

SYMBOL	DESCRIPTION
	BITUMINOUS PAVEMENT
	HEAVY DUTY BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	CONCRETE WALK
	REVERSE PITCH CONCRETE CURB AND GUTTER
	MNDOT B618 CURB & GUTTER
	SURMOUNTABLE CURB & GUTTER



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REESE A. SUDELGTE

DATE: 02/10/2023 LIC. NO. 54243

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MITCHELL R. WORKMON

DATE: 02/10/2023 LIC. NO. 53748

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PROJECT
ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

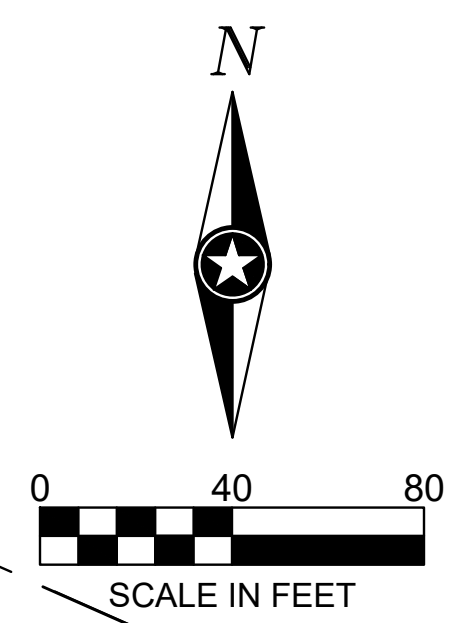
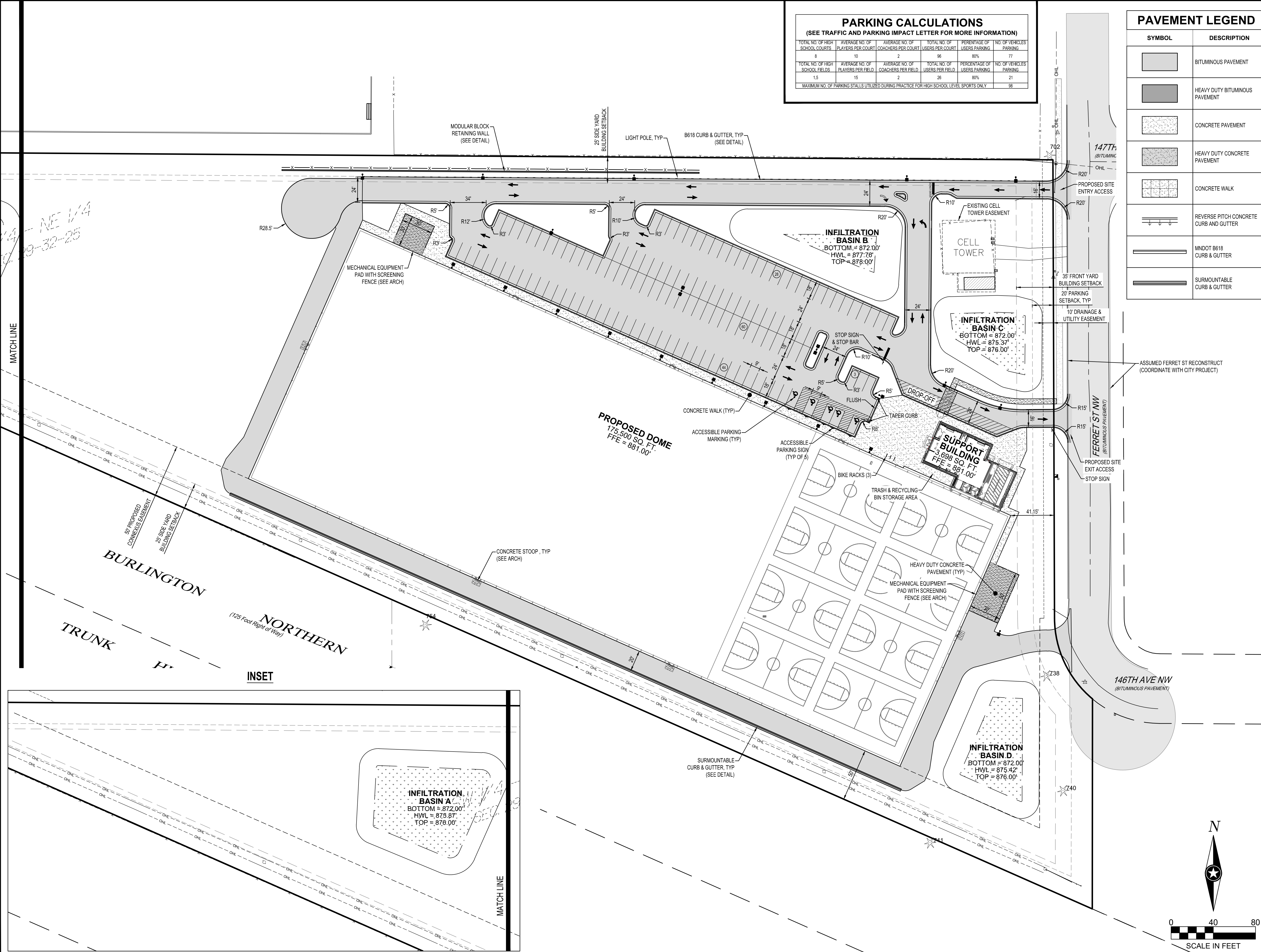
RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 C3-SITE
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE
SITE PLAN

SHEET
C3-10



PLOT DATE: 2/6/2023 1:29 PM



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PROJECT
ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

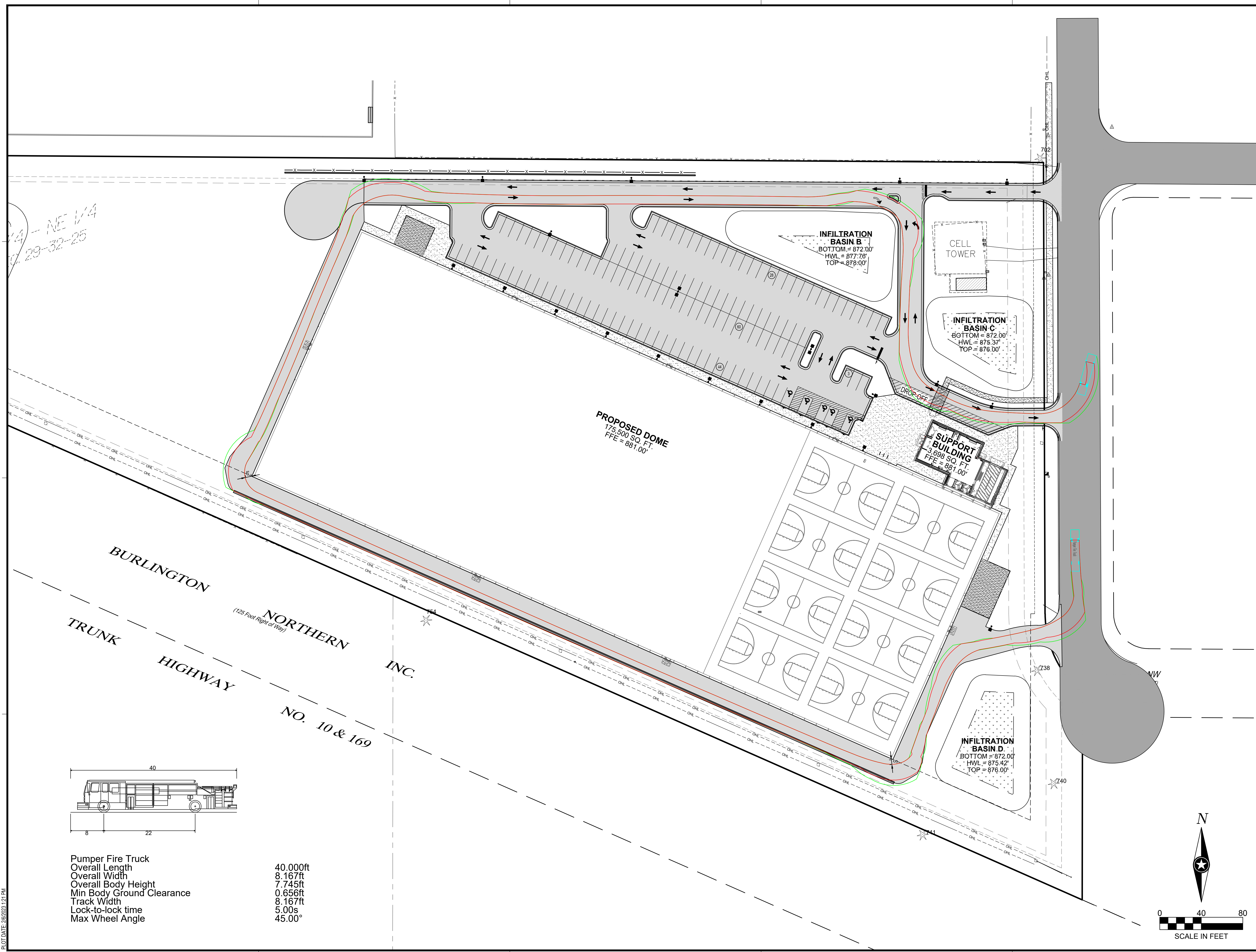
RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 C3-TRUCK ROUTE
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE
FIRE ACCESS ROUTE

SHEET
C3-11



PRELIMINARY NOT FOR CONSTRUCTION

PLOT DATE: 2/6/2023 1:11 PM

1/4 - NE 1/4
29-32-25



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PROJECT

ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

RAMSEY MINNESOTA

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02/06/2023	CITY SUBMITTAL #3	AJR

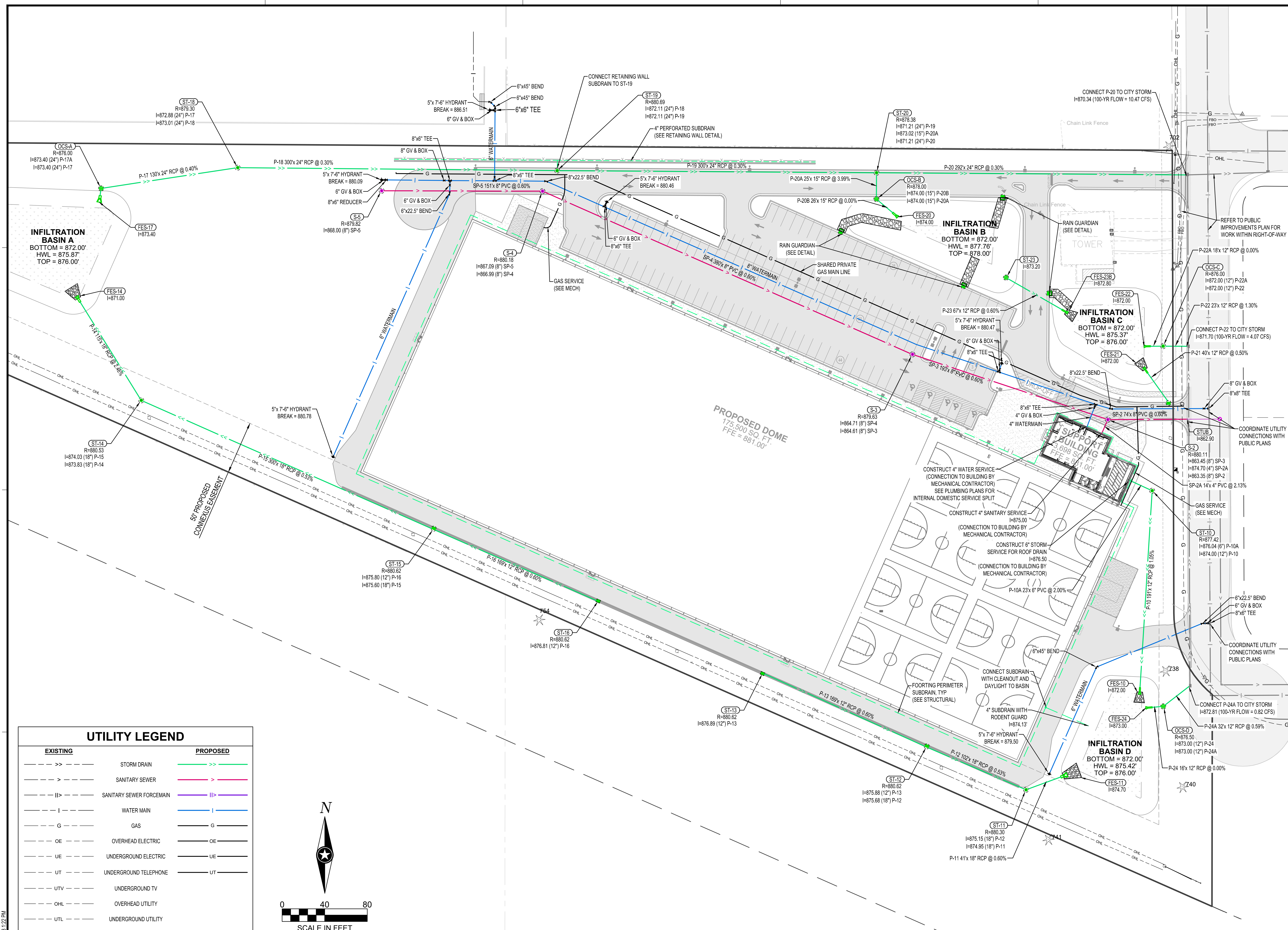
PROJECT NO.	22-26051
FILE NAME	26051 C3-UTILITY
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE

UTILITY PLAN

SHEET

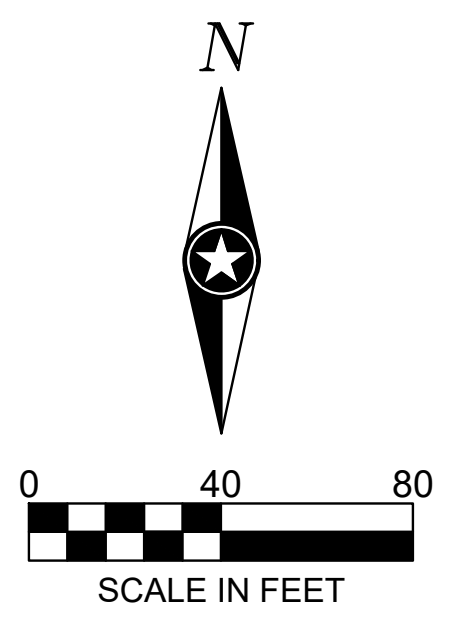
C3-20



UTILITY LEGEND

EXISTING	PROPOSED
--->>---	--->>---
--->---	--->---
--- ---	--- ---
---I---	---I---
---G---	---G---
---OE---	---OE---
---UE---	---UE---
---UT---	---UT---
---UTV---	---UTV---
---OHL---	---OHL---
---UTL---	---UTL---
---FBO---	---FBO---

NOTE:
CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.



FERRET STREET IS PLANNED TO BE RECONSTRUCTED BY THE CITY. COORDINATE WITH CITY OF RAMSEY FOR ALL UTILITY CONNECTIONS

PLOT DATE: 2/6/2023 12:28 PM

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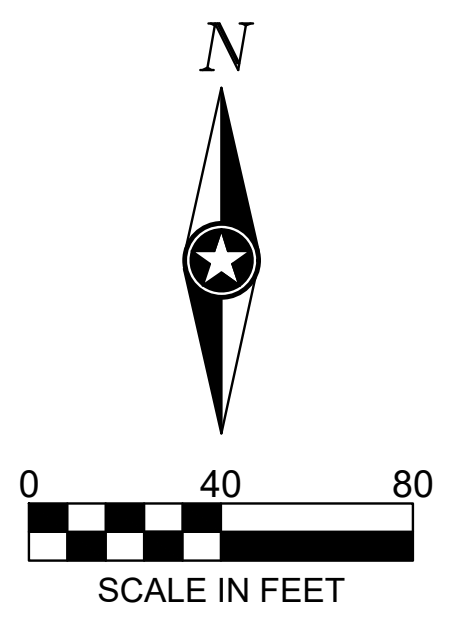
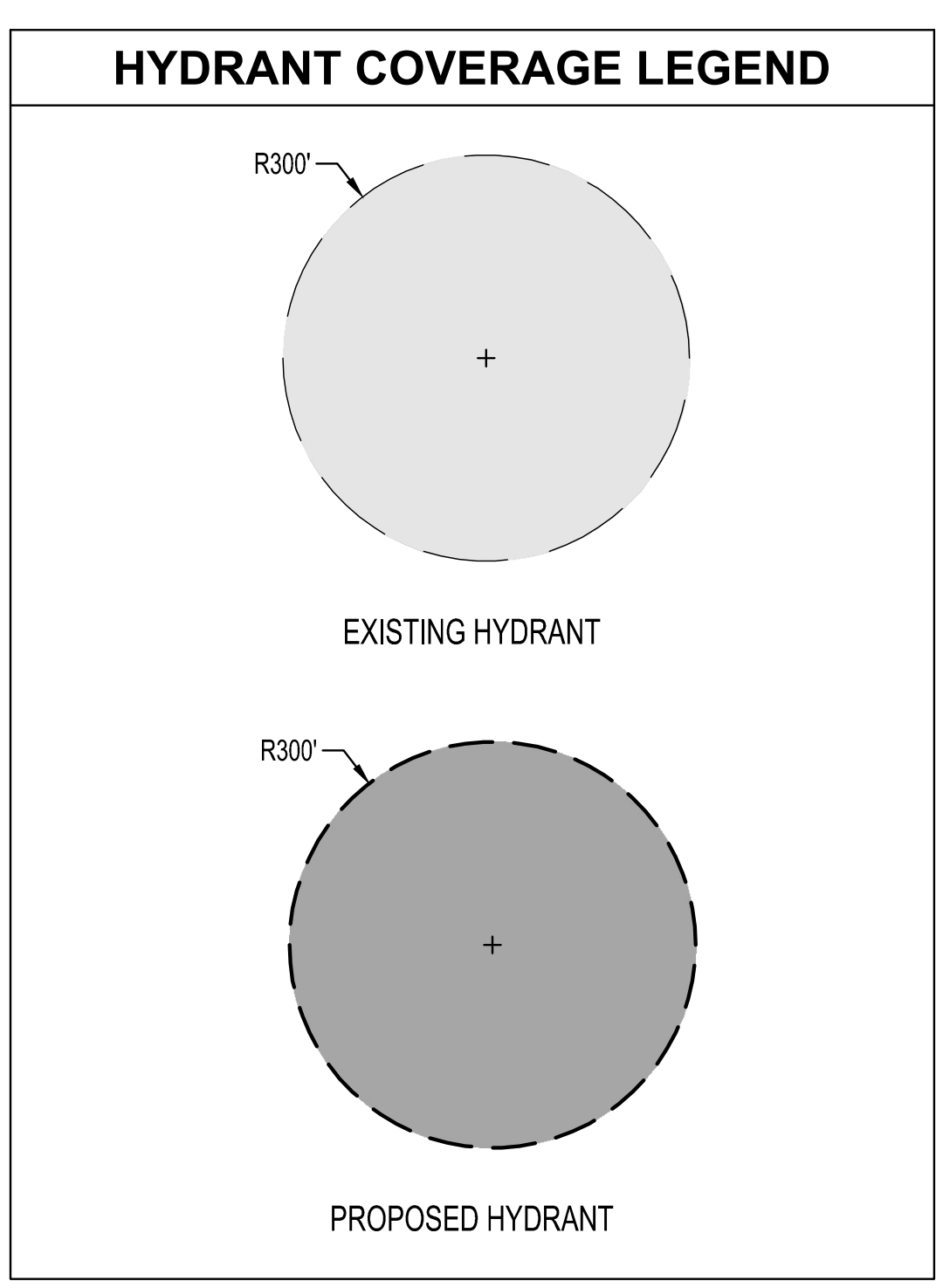
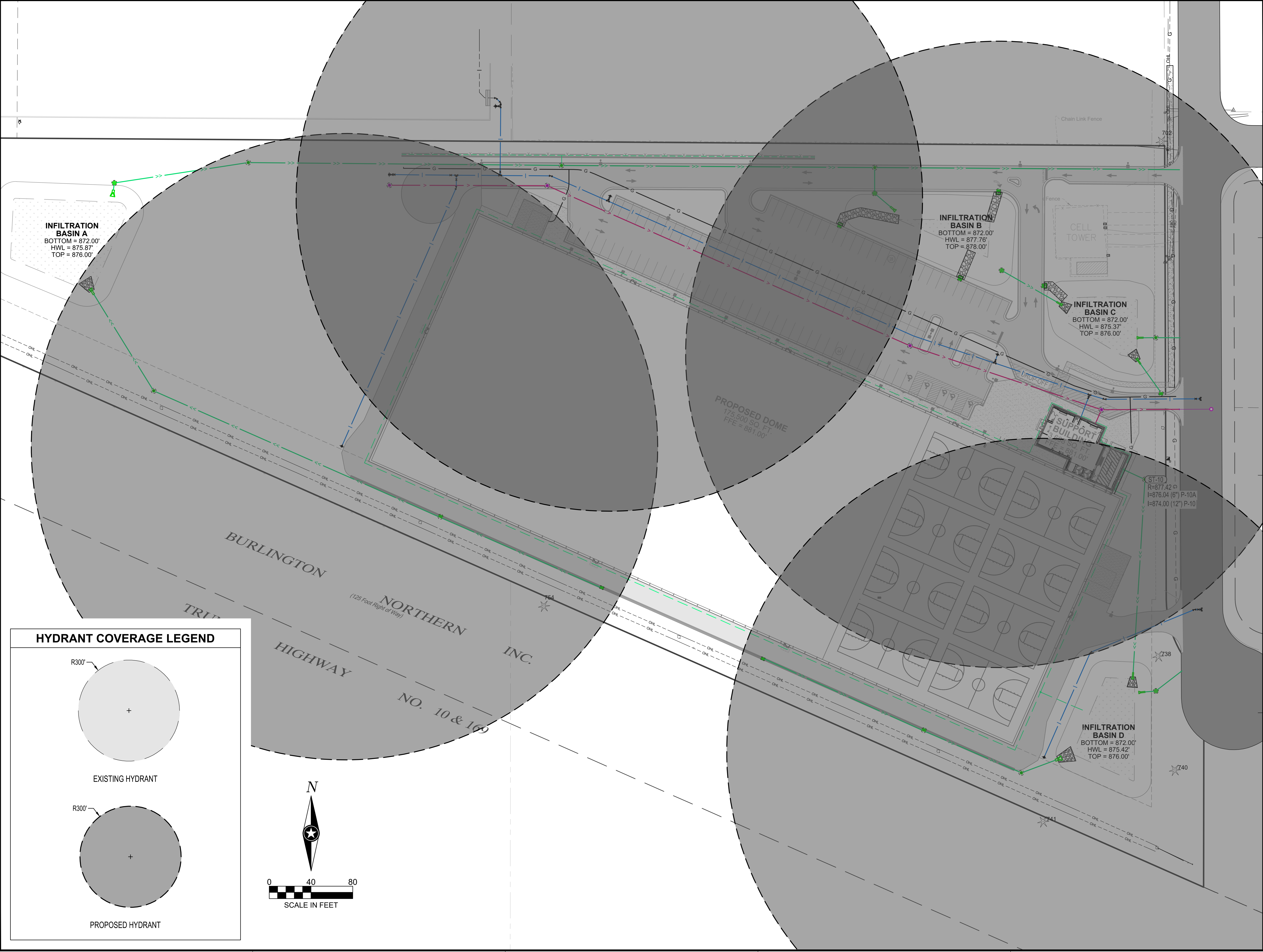
PROJECT
ANOKA RAMSEY ATHLETIC ASSOCIATION DOME
RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 C3-HYDRANT
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE
HYDRANT COVERAGE PLAN

SHEET
C3-21



PLOT DATE: 2/6/2023 1:23 PM

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PROJECT
ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

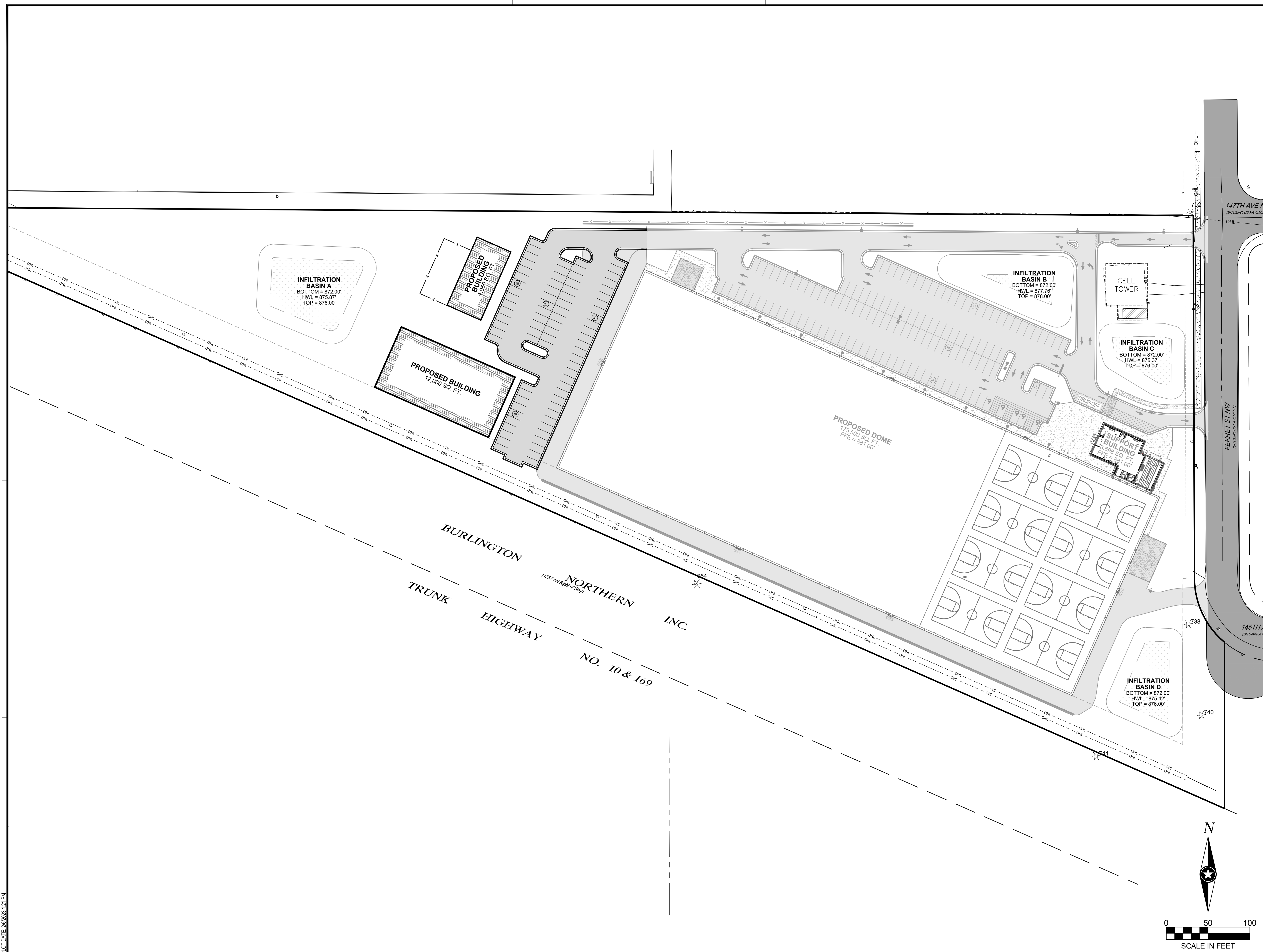
RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 FUTURE SITE PHASE
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE
FUTURE SITE PLAN

SHEET
C3-12



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PROJECT

ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 C3-UTILITY
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE

UTILITY SCHEDULES

SHEET

C3-30

STORM DRAIN APRON SCHEDULE				
APRON NO.	APRON SIZE (IN)	APRON MATERIAL	INVERT ELEVATION	PIPE NO.
FES-11	18	RC	874.70	P-11
FES-14	18	RC	871.00	P-14
FES-17	24	RC	873.40	P-17A
FES-21	12	RC	872.00	P-21

STORM DRAIN STRUCTURE SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT (LN FT)	* TOP OF CASTING ELEVATION	INVERT ELEVATION	OUTLET PIPE
OCS-A	MnDOT 4020	48 Ø	RC	48" SKIMMER PLATE	2.60	876.00	873.40	P-17
OCS-B	MnDOT 4020	48 Ø	RC	48" SKIMMER PLATE	5.00	878.00	873.00	P-20A
OCS-C	MnDOT 4020	48 Ø	RC	NEENAH R-1642	4.00	876.00	872.00	P-22
OCS-D	MnDOT 4020	48 Ø	RC	48" SKIMMER PLATE	3.50	876.50	873.00	P-24A
ST-1	MnDOT 4020	48 Ø	RC	NEENAH R-3246R	2.48	876.83	874.35	
ST-10	MnDOT 4020	48 Ø	RC	NEENAH R-1670	3.42	877.42	874.00	P-10
ST-11	MnDOT 4020	48 Ø	RC	NEENAH R-1670	5.35	880.30	874.95	P-11
ST-12	MnDOT 4020	48 Ø	RC	NEENAH R-3067	4.94	880.62	875.68	P-12
ST-13	CATCH BASIN (TYPE 1)	36 x 24	RC	NEENAH R-3067	3.73	880.62	876.89	P-13
ST-14	MnDOT 4020	48 Ø	RC	NEENAH R-1670	6.70	880.53	873.83	P-14
ST-15	MnDOT 4020	48 Ø	RC	NEENAH R-3067	5.02	880.62	875.60	P-15
ST-16	CATCH BASIN (TYPE 1)	36 x 24	RC	NEENAH R-3067	4.08	880.62	876.54	P-16
ST-18	MnDOT 4020	48 Ø	RC	NEENAH R-1670	6.61	879.30	872.68	P-18
ST-19	MnDOT 4020	48 Ø	RC	NEENAH R-1670	8.78	880.69	871.91	P-19
ST-20	MnDOT 4020	48 Ø	RC	NEENAH R-1670	7.37	878.38	871.01	P-20
ST-21	MnDOT 4020	48 Ø	RC	NEENAH R-3067	3.97	876.17	872.20	P-21
ST-23	MnDOT 4020	48 Ø	RC	48" SKIMMER PLATE	2.00	875.20	873.20	P-23

* TOP OF CASTING ELEVATIONS ON CURB STYLE CATCH BASINS = TOP BACK OF CURB BOX, NOT GUTTER ELEVATION

STORM DRAIN PIPE SCHEDULE									
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
P-10	ST-10	874.00	FES-10	872.00	12	RCP	CL IV	1.05%	191
P-10A	ST-50	876.50	ST-10	876.04	6	PVC	SCH 40	2.00%	23
P-11	ST-11	874.95	FES-11	874.70	18	RCP	CL II	0.60%	41
P-12	ST-12	875.68	FES-11	875.15	18	RCP	CL II	0.53%	102
P-13	ST-13	876.89	ST-12	875.88	12	RCP	CL IV	0.60%	169
P-14	ST-14	873.83	FES-14	871.00	18	RCP	CL II	2.46%	115
P-15	ST-15	875.60	ST-14	874.03	18	RCP	CL II	0.53%	300
P-16	ST-16	876.81	ST-15	875.80	12	RCP	CL IV	0.60%	169
P-17	OCS-A	873.40	ST-18	872.88	24	RCP	CL III	0.40%	130
P-17A	FES-17	873.40	OCS-A	873.40	24	RCP	CL III	0.00%	13
P-18	ST-18	873.01	ST-19	872.11	24	RCP	CL I	0.30%	300
P-19	ST-19	872.11	ST-20	871.21	24	RCP	CL I	0.30%	300
P-20	ST-20	871.21	ROW	870.34	24	RCP	CL III	0.30%	292
P-20A	OCS-B	874.00	ST-20	873.02	15	RCP	CL IV	3.99%	25
P-20B	FES-20	874.00	OCS-B	874.00	15	RCP	CL IV	0.00%	26
P-21	ST-21	872.20	FES-21	872.00	12	RCP	CL IV	0.50%	40
P-22	OCS-C	872.00	ROW	871.70	12	RCP	CL IV	1.30%	23
P-22A	FES-22	872.00	OCS-C	872.00	12	RCP	CL IV	0.00%	18
P-23	ST-23	873.20	FES-23B	872.80	12	RCP	CL IV	0.60%	67
P-24	FES-24	873.00	OCS-D	873.00	12	RCP	CL IV	0.00%	16
P-24A	OCS-D	873.00	ROW	872.81	12	RCP	CL IV	0.59%	32

SANITARY SEWER STRUCTURE SCHEDULE									
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT (LN FT)	TOP OF CASTING ELEVATION	INVERT ELEVATION	OUTLET PIPE	
S-2	MnDOT 4007C	48 Ø	RC	MNDOT 700-7 SELF SEAL 716 COVER CONCEALED PICK HOLES	16.76	880.11	863.35	SP-2	
S-3	MnDOT 4007C	48 Ø	RC	MNDOT 700-7 SELF SEAL 716 COVER CONCEALED PICK HOLES	15.02	879.63	864.61	SP-3	
S-4	MnDOT 4007C	48 Ø	RC	MNDOT 700-7 SELF SEAL 716 COVER CONCEALED PICK HOLES	13.19	880.18	866.99	SP-4	
S-5	MnDOT 4007C	48 Ø	RC	MNDOT 700-7 SELF SEAL 716 COVER CONCEALED PICK HOLES	11.82	879.82	868.00	SP-5	

SANITARY SEWER PIPE SCHEDULE									
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
SP-2	S-2	863.35	ROW	862.90	8"	PVC	SDR-35	0.60%	74
SP-2A	BLDG	875.00	S-2	874.70	4"	PVC	SCH 40	2.13%	14
SP-3	S-3	864.61	S-2	863.45	8"	PVC	SDR-35	0.60%	193
SP-4	S-4	866.99	S-3	864.71	8"	PVC	SDR-35	0.60%	380
SP-5	S-5	868.00	S-4	867.09	8"	PVC	SDR-35	0.60%	151

HYDRANT & VALVE SCHEDULE		
TYPE	SIZE	NOTES
GV & BOX	6"	6in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	4"	4in Gate Valve
GV & BOX	8"	8in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	8"	8in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	8"	8in Gate Valve
GV & BOX	6"	6in Gate Valve
GV & BOX	6"	6in Gate Valve
HYDRANT	5"x 7'-6"	Hydrant 7-6"
HYDRANT	5"x 7'-6"	Hydrant 7-6"
HYDRANT	5"x 7'-6"	Hydrant 7-6"
HYDRANT	5"x 7'-6"	Hydrant 7-6"
HYDRANT	5"x 7'-6"	Hydrant 7-6"
HYDRANT	5"x 7'-6"	Hydrant 7-6"

WATERMAIN FITTING SCHEDULE		
TYPE	SIZE	WEIGHT (LBS)
BEND	6"x45"	36
BEND	6"x22.5"	31
TEE	8"x6"	79
TEE	8"x6"	79
BEND	6"x45"	36
BEND	6"x45"	36
???	6"	???
TEE	8"x6"	79
BEND	6"x22.5"	31
REDUCER	8"x6"	39
BEND	8"x22.5"	50
TEE	8"x6"	79
TEE	8"x6"	79
TEE	8"x6"	79
TEE	8"x8"	90
BEND	8"x22.5"	50

WATERMAIN SCHEDULE		
PIPE TYPE	** PIPE LENGTH (FT)	PIPE SIZE (IN)
DIP	87	6
DIP	14	6
DIP	95	6
DIP	4	6
DIP	2	6
DIP	7	6
DIP	3	6

WATERMAIN SCHEDULE		
PIPE TYPE	** PIPE LENGTH (FT)	PIPE SIZE (IN)
DIP	6	6
DIP	2	6
DIP	2	6
DIP	109	6
DIP	107	6
DIP	270	6
DIP	5	8
DIP	3	6
DIP	2	6
DIP	2	4
DIP	19	4
DIP	53	8
DIP	48	8
DIP	41	8
DIP	2	6
DIP	2	6
DIP	5	6
DIP	2	6
DIP	62	6
DIP	2	6
DIP	2	6
DIP	2	6
DIP	81	6
DIP	320	8
DIP	59	8

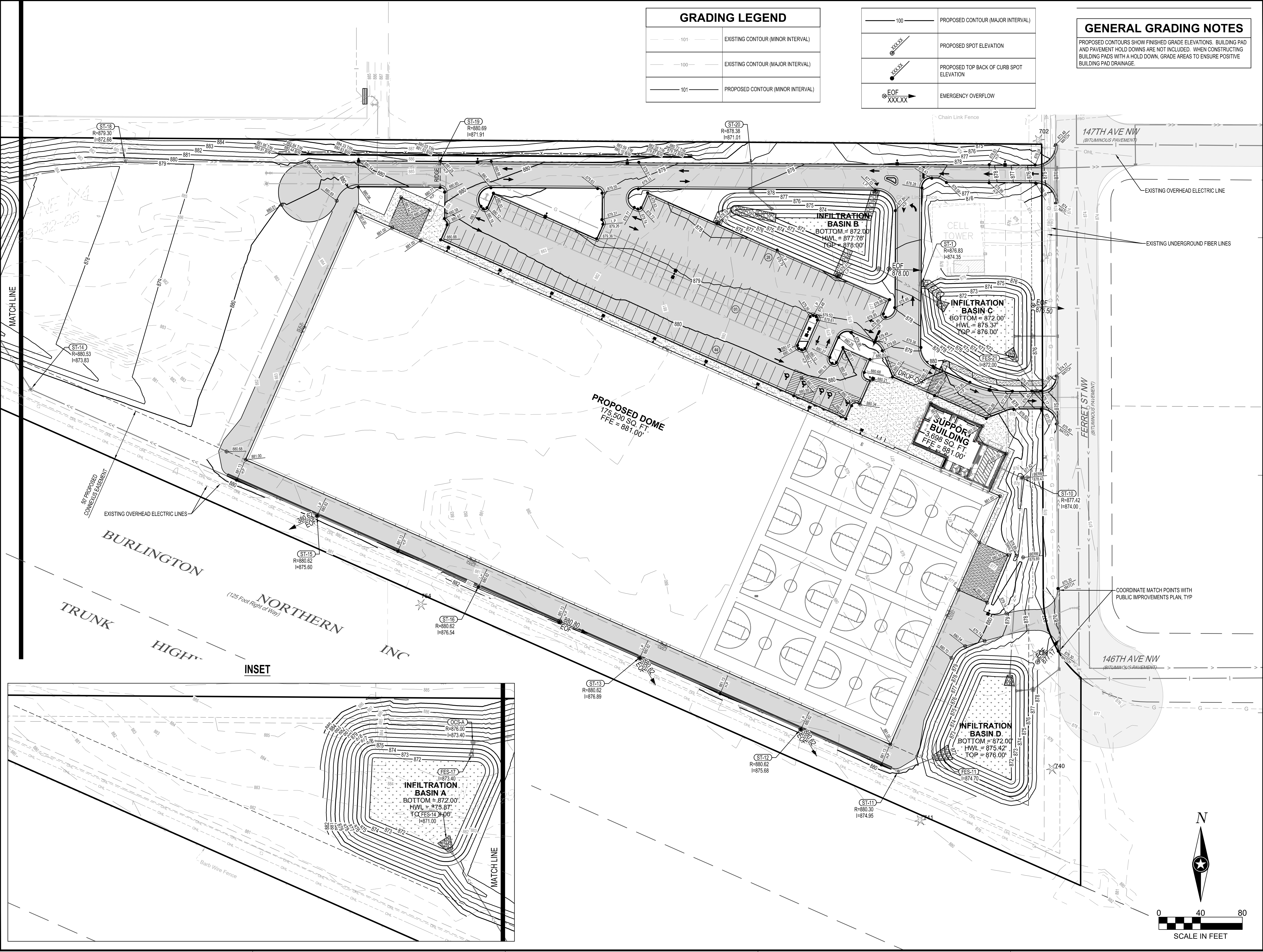
PLOT DATE: 2/6/2023 1:23 PM

GRADING LEGEND	
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)
	EXISTING CONTOUR (MINOR INTERVAL)
	PROPOSED CONTOUR (MINOR INTERVAL)

	PROPOSED CONTOUR (MAJOR INTERVAL)
	PROPOSED SPOT ELEVATION
	PROPOSED TOP BACK OF CURB SPOT ELEVATION
	EMERGENCY OVERTFLOW

GENERAL GRADING NOTES

PROPOSED CONTOURS SHOW FINISHED GRADE ELEVATIONS. BUILDING PAD AND PAVEMENT HOLD DOWNS ARE NOT INCLUDED. WHEN CONSTRUCTING BUILDING PADS WITH A HOLD DOWN, GRADE AREAS TO ENSURE POSITIVE BUILDING PAD DRAINAGE.



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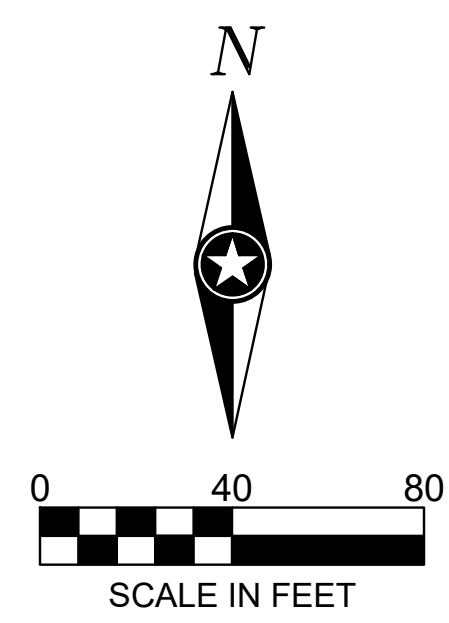
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02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO. 22-26051
 FILE NAME 26051 C4-GRADE
 DRAWN BY AJR
 DESIGNED BY AJR
 REVIEWED BY RAS
 ORIGINAL ISSUE DATE 01/20/2023
 CLIENT PROJECT NO. -

TITLE
OVERALL GRADING PLAN

SHEET
C4-10



PLOT DATE: 2/6/2023 1:4 PM

PRELIMINARY NOT FOR CONSTRUCTION

CITY LANDSCAPE REQUIREMENTS

E-3 EMPLOYMENT DISTRICT LANDSCAPE REQUIREMENTS:

MINIMUM TREE CROWN COVER REQUIREMENTS:
 IMPERVIOUS AREA: 258,688 SF
 PERVIOUS AREA: 302,667 SF
 RATIO OF IMPERVIOUS AREA: 46.08% / 0.4608
 TOTAL AREA: 561,355 SF

MULTIPLY THE IMPERVIOUS AREA/SITE AREA RATIO BY THE SQUARE FOOTAGE OF PERVIOUS AREA: 0.4608 X 302,667 = 139,468 REQUIRED / 139,468 PROPOSED
 NOTE: SEE SHEET C5-20 FOR DETAILS

THE FOLLOWING FORMULA SHALL BE UTILIZED TO DETERMINE THE AVERAGE CANOPY COVER FOR ACCEPTABLE SPECIES:
 $[(\text{MINIMUM} + \text{MAXIMUM SPREAD}) \times 4] \times \pi \times (0.65 \text{ FOR PREFERRED SPECIES}) = 114,806$

ROAD FRONTAGE REQUIREMENTS:
 FOR EVERY 35 FEET OF PUBLIC ROAD FRONTAGE, ONE OVERSTORY TREE SHALL BE PLANTED ADJACENT TO THE ROAD RIGHT-OF-WAY ON PRIVATE PROPERTY. THESE PLANTING ARE CREDITED TOWARD THE MINIMUM PLANTING REQUIREMENTS.
 • 522 LF OF ROAD FRONTAGE / 35 LF = 15 TREES REQUIRED / 15 TREES PROPOSED

PARKING LOT REQUIREMENTS:
 1 TREE PER EVERY TEN PARKING SPACES.
 • 153 PARKING SPACES / 10 = 15 TREES REQUIRED / 15 TREES PROVIDED

EVERY OVERSTORY TREE PLANTED SHALL BE PROVIDED WITH A PLANTING AREA PF AT LEAST 162 SF.

BUFFERYARD REQUIREMENTS:
 E-3 BUFFERYARD WIDTH: 35 FEET
 % INCREASE IN PLANTINGS: 20%

ACCEPTABLE GROUND COVER MATERIAL INCLUDES SOD, MULCH AND OTHER NATURAL GROUND COVER. USE OF LANDSCAPE ROCK AND PLASTIC UNDERLAYMENT IS PROHIBITED.

ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT OTHERWISE IMPROVED WITH IMPERVIOUS SURFACING SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL WITH NO MORE THAN 35% SAND CONTENT. TOPSOIL INSPECTION IS REQUIRED PRIOR TO INSTALLATION OF SOD/GROUND COVER.

PLANT SCHEDULE

EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
LL	3	LARIX LARICINA TAMARACK	6' HT MIN	B & B
PB	2	PICEA GLAUCA DENSATA BLACK HILLS SPRUCE	6' HT MIN	B & B
PS	14	PNUS STROBUS WHITE PINE	6' HT MIN	B & B
OVERSTORY TREES	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
BA	6	BETULA ALLEGHANIENSIS YELLOW BIRCH	2.5" CAL	B & B
CO	14	CELTIS OCCIDENTALIS COMMON HACKBERRY	2.5" CAL	B & B
JC	9	JUGLANS CINEREA BUTTERNUT	2.5" CAL	B & B
QA	10	QUERCUS ALBA WHITE OAK	2.5" CAL	CONT
QM	3	QUERCUS MACROCARPA BURR OAK	2.5" CAL	B & B
SD	5	SORBUS DECORA SHOWY MOUNTAIN ASH	2.5" CAL	B & B
DECIDUOUS SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
AR	25	AMELANCHIER ALNIFOLIA REGENT REGENT SERVICEBERRY	2' HT MIN	CONT
AS	16	AMELANCHIER SANGUINEA ROUNDLEAF SERVICEBERRY	2' HT MIN	CONT
AF	109	AMORPHA FRUTICOSA FALSE INDIGO	2' HT MIN	CONT
AM	7	ARONIA MELANOCARPA BLACK CHOKEBERRY	2' HT MIN	CONT
SA	7	SHEPHERDIA ARGENTEA SILVER BUFFALOBERRY	2' HT MIN	CONT
SC	12	SHEPHERDIA CANADENSIS RUSSETT BUFFALOBERRY	2' HT MIN	CONT
VR	11	VIBURNUM RAFINESQUIANUM DOWNY ARROWWOOD	2' HT MIN	CONT
VA	13	VIBURNUM TRILOBUM AMERICAN CRANBERRYBUSH	2' HT MIN	CONT



NOTE: THE CLARITY OF THESE PLANS DEPEND UPON COLOR COPIES. IF THIS TEXT DOES NOT APPEAR IN COLOR, THIS IS NOT AN ORIGINAL PLAN SET AND MAY RESULT IN MISINTERPRETATION.

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.
 REESE A. SUDELGTE

DATE: 02/10/2023 LIC. NO. 54243

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 MITCHELL R. WORKMON

DATE: 02/10/2023 LIC. NO. 53748

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PROJECT
ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

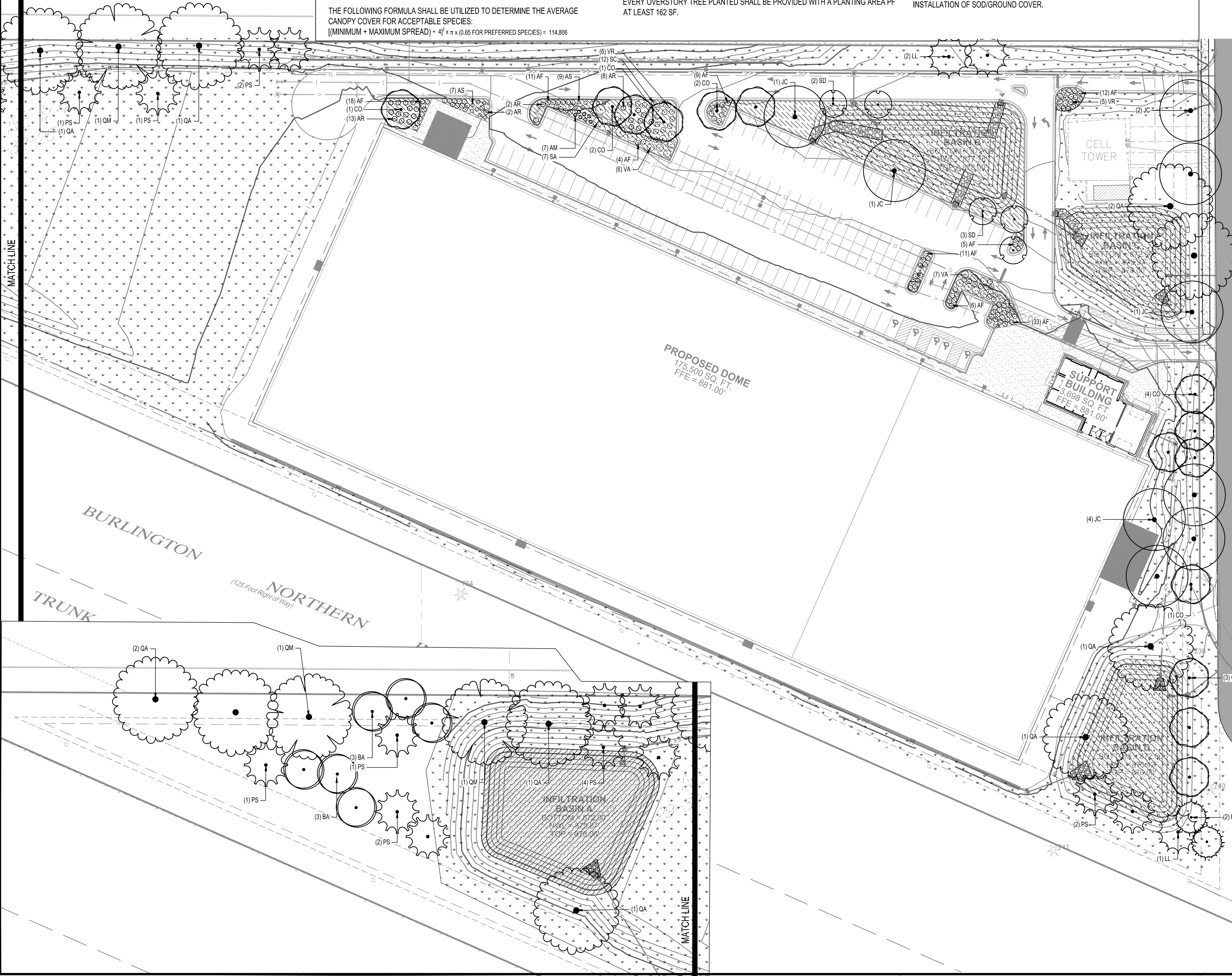
RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO. 22-26051
 FILE NAME 26051 C5-LAND
 DRAWN BY AJR
 DESIGNED BY AJR
 REVIEWED BY RAS
 ORIGINAL ISSUE DATE 01/20/2023
 CLIENT PROJECT NO. -

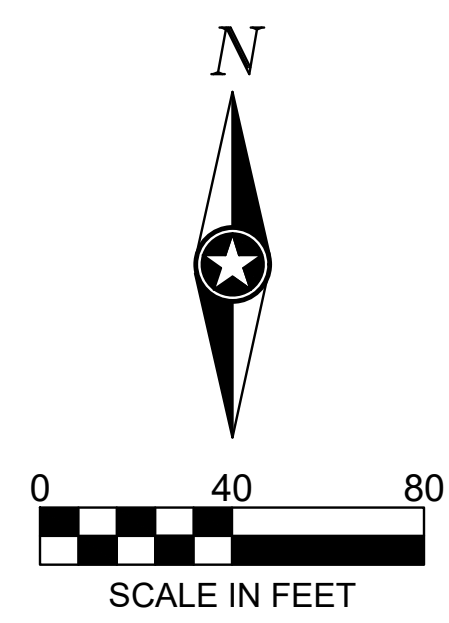
TITLE
PLANTING AND RESTORATION PLAN

SHEET
C5-10



RESTORATION SCHEDULE

MULCH	QTY	DESCRIPTION
[Pattern]	9,479 SF	DOUBLE SHREDDED WOOD MULCH (NATURAL COLOR)
SEED MIX	QTY	DESCRIPTION
[Pattern]	24,969 SF	EAST INFILTRATION BASIN SEED MIX (SEE SHEET C5-20 FOR SEED MIX DESIGN)
[Pattern]	147,051 SF	MNDOT SEED MIX 25-131 (TURF)
[Pattern]	13,356 SF	WEST INFILTRATION BASIN SEED MIX (SEE SHEET C5-20 FOR SEED MIX DESIGN)
EDGER	QTY	DESCRIPTION
[Pattern]	40 LF	POLYVINYL EDGER (BLACK COLOR)



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PROJECT

ANOKA RAMSEY ATHLETIC ASSOCIATION DOME

RAMSEY MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
12/16/2022	CITY SUBMITTAL #1	AJR
01/10/2023	CITY SUBMITTAL #2	AJR
02/06/2023	CITY SUBMITTAL #3	AJR

PROJECT NO.	22-26051
FILE NAME	26051 C5-LAND
DRAWN BY	AJR
DESIGNED BY	AJR
REVIEWED BY	RAS
ORIGINAL ISSUE DATE	01/20/2023
CLIENT PROJECT NO.	-

TITLE

PLANTING NOTES AND DETAILS

SHEET

PRELIMINARY NOT FOR CONSTRUCTION

PLANTING NOTES

- COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (FENCE, FOOTINGS, TREE ROOTBALLS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- SAVE AND PROTECT ALL EXISTING TREES NOT NOTED TO BE REMOVED.
- REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
- REFER TO PLANTING DETAILS FOR AMENDED SOIL DEPTH IN PLANTING BEDS AND SURROUNDING TREES.
- FIELD STAKE PLANTINGS ACCORDING TO PLAN. OWNER'S REPRESENTATIVE SHALL APPROVE ALL PLANT LOCATIONS PRIOR TO INSTALLATION. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE PLANTING LAYOUT AT TIME OF INSTALLATION.
- ALL PLANT MATERIALS SHALL BE TRUE TO THEIR SCIENTIFIC NAME AND SIZE AS INDICATED IN THE PLANT SCHEDULE.
- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE SCHEDULE, THE PLANTING PLAN SHALL GOVERN.
- ANY PLANT SUBSTITUTIONS REQUIRE PRIOR APPROVAL BY THE CITY. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIALS MUST CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1). LATEST EDITION PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON D.C. LARGER SIZED PLANT MATERIALS OF THE SPECIES LISTED MAY BE USED IF THE STOCK CONFORMS TO ANSI Z60.1.
- ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A LIVE AND HEALTHY GROWING CONDITION FOR ONE FULL GROWING SEASON (ONE YEAR) AFTER FINAL PROJECT ACCEPTANCE OR SHALL BE REPLACED BY THE CONTRACTOR FREE OF CHARGE WITH THE SAME GRADE AND SPECIES.
- PROVIDE DOUBLE SHREDDED HARDWOOD MULCH SURROUNDING ALL PROPOSED TREES (5' Ø) AND WITHIN PLANTING BEDS TO A 3" MINIMUM DEPTH AS SHOWN IN TREE PLANTING DETAIL. DO NOT USE AN UNDERLAYMENT SUCH AS PLASTIC SHEET OR LANDSCAPE FABRIC. APPLY PRE-EMERGENT TO ALL PLANTING BEDS PRIOR TO MULCHING. REFER TO PLANS FOR ADDITIONAL DETAILS. REFER TO STORMWATER DETAILS FOR BASIN CONSTRUCTION AND MULCH APPLICATION.
- MULCHING MATERIAL SHALL BE DOUBLE SHREDDED HARDWOOD MULCH, WITH NO INDIVIDUAL PIECES LARGER THAN 3". FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. 3" MINIMUM DEPTH. MINIMUM DEPTHS AT LOCATIONS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL PROVIDE SAMPLE OF MULCH TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
- INDICATED QUANTITIES ARE ESTIMATES AND SHALL BE CONFIRMED BY THE CONTRACTOR.
- ADJUST SPACING OF PLANT MATERIALS AROUND ADJACENT UTILITY STRUCTURES.
- ANY CLEARING OF OAK STANDS SHALL BE PERFORMED PRIOR TO APRIL 15TH OR AFTER JULY 15TH EACH SEASON.
- ALL PLANT MATERIAL SHALL HAVE A 2-YEAR MAINTENANCE WARRANTY FROM DATE OF CITY APPROVAL OF INSTALLED LANDSCAPING.
- ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT OTHERWISE IMPROVED WITH IMPERVIOUS SURFACING SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL WITH NO MORE THAN 35% SAND CONTENT. TOPSOIL INSPECTION IS REQUIRED PRIOR TO INSTALLATION OF SODD/GROUND COVER.

PROPOSED PLANT MATERIAL CROWN COVER PER RAMSEY TREE BOOK

EVERGREEN TREE CROWN COVER:

- AMERICAN LARCH 718 SF (3 TREES) = 2,154 SF OF CROWN COVER
- BLACK HILLS SPRUCE 386 (2 TREES) = 772 SF OF CROWN COVER
- WHITE PINE 1,995 (14 TREES) = 27,930 SF

DECIDUOUS TREE CROWN COVER:

- YELLOW BIRCH 992 SF (6 TREES) = 5,952 SF
- COMMON HACKBERRY 992 SF (14 TREES) = 13,888 SF
- BUTTERNUT 1,995 (9 TREES) = 17,955 SF
- WHITE OAK 3,910 (10 TREES) = 39,100 SF
- BURR OAK 3,910 (3 TREES) = 11,730 SF
- SHOWY MOUNTAIN ASH 386 (5 TREES) = 1,930 SF

SHRUB CROWN COVER:

- REGENT SERVICEBERRY 18 (25 SHRUBS) = 450 SF
- ROUNDLEAF SERVICEBERRY 10 (16 SHRUBS) = 160 SF
- FALSE INDIGO 131 (109 SHRUBS) = 14,279 SF
- BLACK CHOKECHERRY 10 SF (7 SHRUBS) = 70 SF
- SILVER BUFFALOBERRY 93 SF (7 SHRUBS) = 651 SF
- RUSSET BUFFALOBERRY 41 SF (12 SHRUBS) = 492 SF
- DOWNY ARROWWOOD 41 SF (11 SHRUBS) = 451 SF
- AMERICAN CRANBERRYBUSH 51 SF (13 SHRUBS) = 663 SF

EXISTING EVERGREEN TREE CROWN COVER:

- WHITE SPRUCE 460 SF (1 TREE) = 460 SF
- EASTERN RED CEDAR 77 SF (2 TREES) = 514 SF

TOTAL CROWN COVER = 139,601 SF

