






























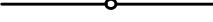
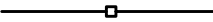






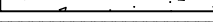
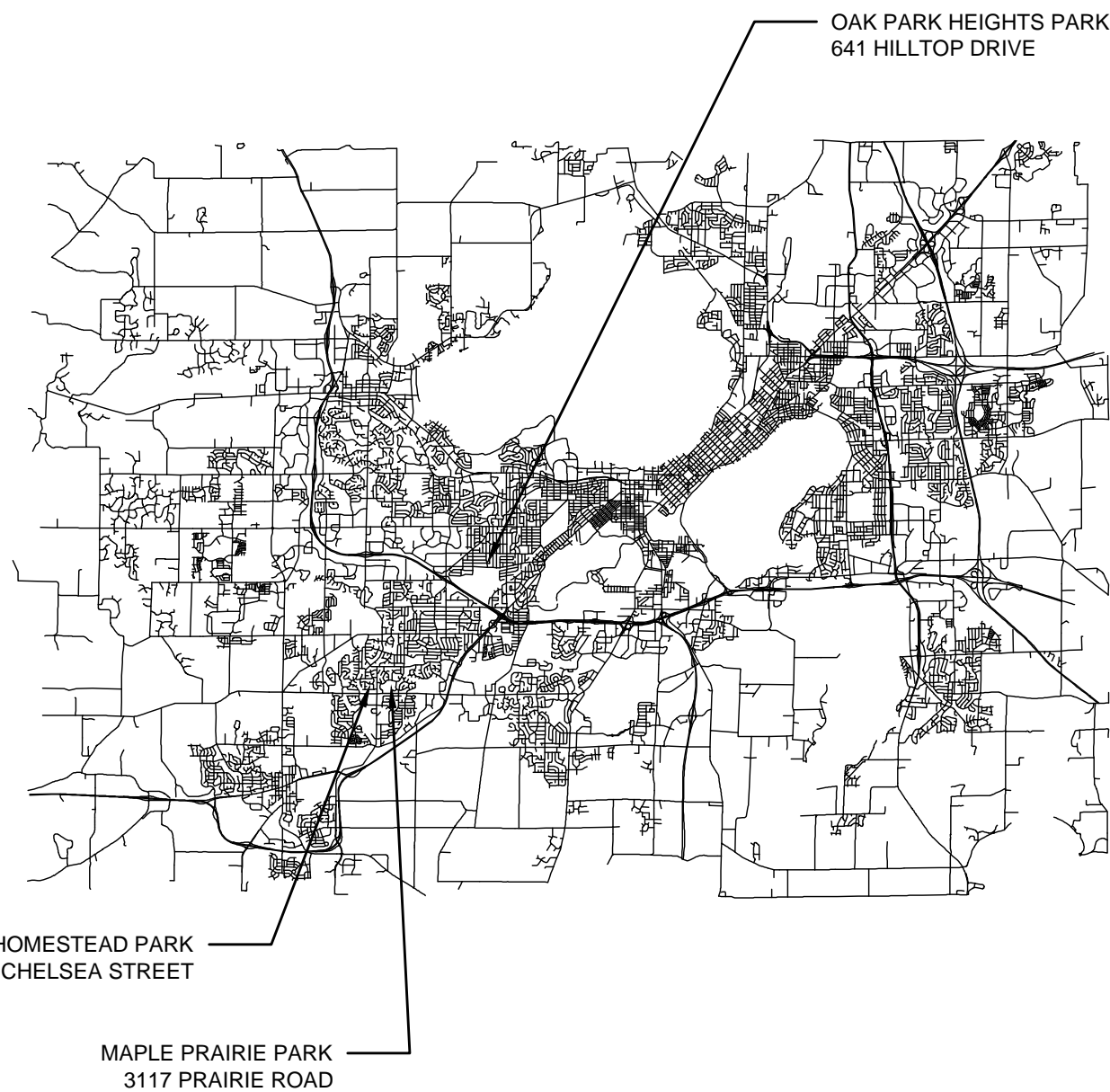


LEGEND

-  EX. ELECTRICAL HAND HOLE
-  EX. ELECTRICAL PEDESTAL
-  EX. TELEPHONE PEDESTAL
-  EX. TREE
-  EX. WATER HYDRANT
-  EX. WATER VALVE
-  EX. PROPERTY LINE
-  EX. EASEMENT
-  EX. FENCE LINE
-  EX. TREE LINE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. ABANDONED UTILITY
-  EX. ELECTRIC
-  EX. FIBER OPTIC
-  EX. NATURAL GAS
-  EX. OVERHEAD LINE
-  EX. SANITARY SEWER
-  EX. STORM SEWER
-  EX. CABLE TV
-  EX. UNDERGROUND TELEPHONE
-  EX. WATER LINE
-  EX. GRAVEL
-  EX. CONCRETE
-  PRO. SPOT ELEVATION
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  PRO. FENCE
-  PRO. GRADING LIMITS
-  PRO. SILT SOCK
-  PRO. CONSTRUCTION FENCE
-  PRO. STORM SEWER
-  PRO. ASPHALT
-  PRO. RUBBER MULCH
-  PRO. WOOD MULCH
-  PRO. PEA GRAVEL
-  PRO. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  REMOVE EX. ASPHALT
-  REMOVE EX. TOPSOIL

2023 WEST PARKS PLAYGROUND REPLACEMENTS

MUNIS NUMBER: 14537-51-130



DESIGNED BY:



City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715



SHEET SCHEDULE

1 MAPLE PRAIRIE PARK	
1.1	PROJECT LOCATION AND SITE ACCESS
1.2	EXISTING CONDITIONS
1.3	DEMOLITION AND SITE PLAN
1.4	SITE PLAN
1.5	GRADING AND EROSION CONTROL PLAN
1.6	DESIGN COMPUTATIONS
2 OAK PARK HEIGHTS PARK	
2.1	PROJECT LOCATION AND SITE ACCESS
2.2	EXISTING CONDITIONS
2.3	DEMOLITION AND SITE PLAN
2.4	SITE PLAN
2.5	GRADING AND EROSION CONTROL PLAN
2.6	DESIGN COMPUTATIONS
3 RAEMISCH HOMESTEAD PARK	
3.1	PROJECT LOCATION AND SITE ACCESS
3.2	EXISTING CONDITIONS
3.3	DEMOLITION AND SITE PLAN
3.4	SITE PLAN
3.5	GRADING AND EROSION CONTROL PLAN
3.6	DESIGN COMPUTATIONS
DETAILS	
4.1	PLAYGROUND SURFACING WITH UNDERDRAIN ASPHALT AT PLAYGROUND EDGE

PROJECT:

*2023 WEST PARKS
PLAYGROUND
REPLACEMENTS*

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
COVER SHEET

SHEET NUMBER:



City of Madison
 Department of Public Works
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play
**MADISON
 PARKS**

Graphical Scale
 0 40



PROJECT:

*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:

*MAPLE PRAIRIE PARK
 3117 PRAIRIE RD
 MADISON, WI 53719*

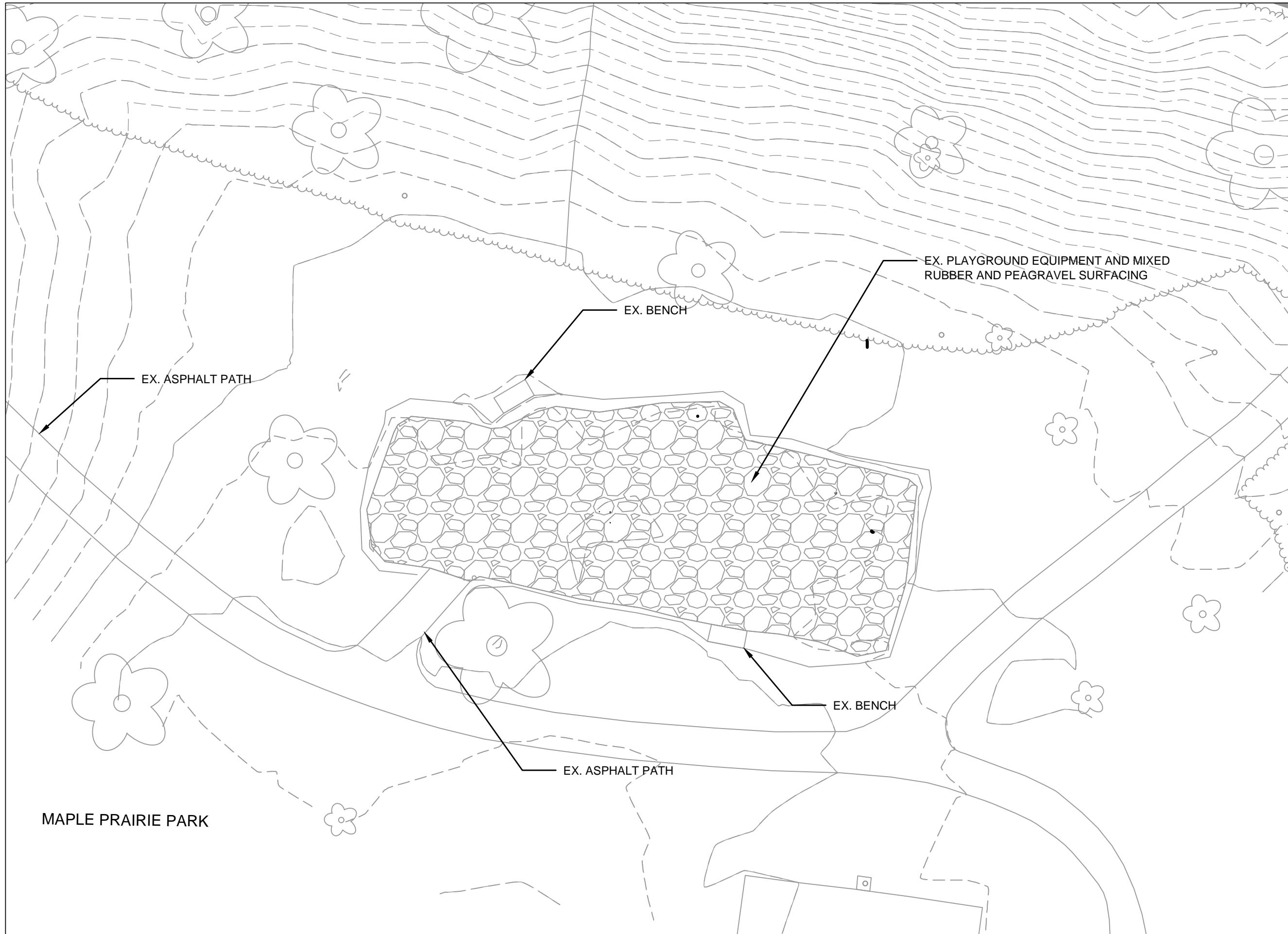
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ITEM	DATE
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PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
*PROJECT LOCATION
 AND SITE ACCESS*

SHEET NUMBER:
1.1



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Graphical Scale
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PROJECT:

*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:

*MAPLE PRAIRIE PARK
 3117 PRAIRIE RD
 MADISON, WI 53719*

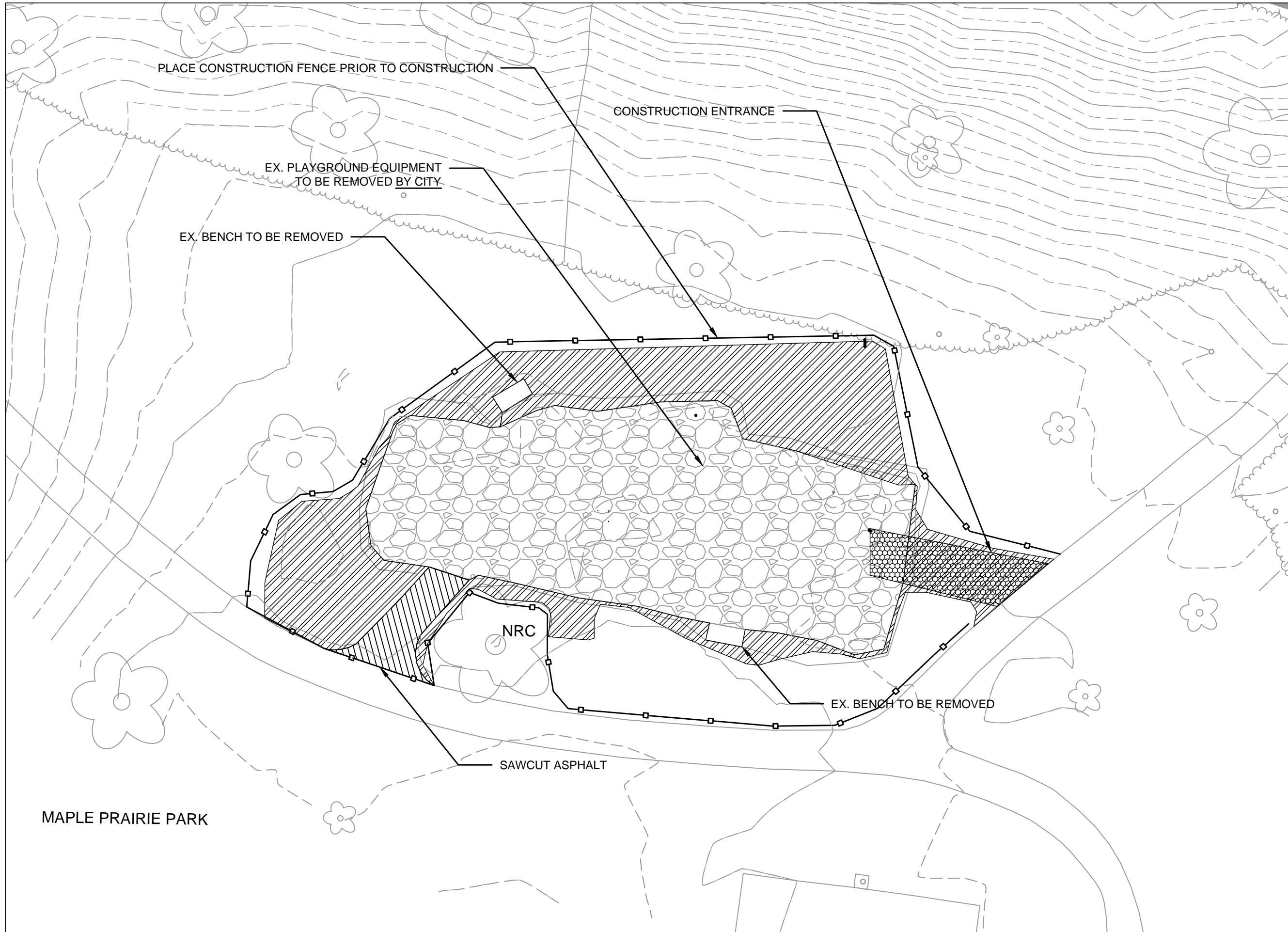
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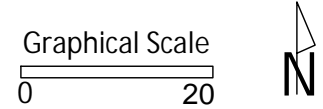
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EXISTING CONDITIONS

SHEET NUMBER:
1.2



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PROJECT:
*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
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 MADISON, WI 53719*

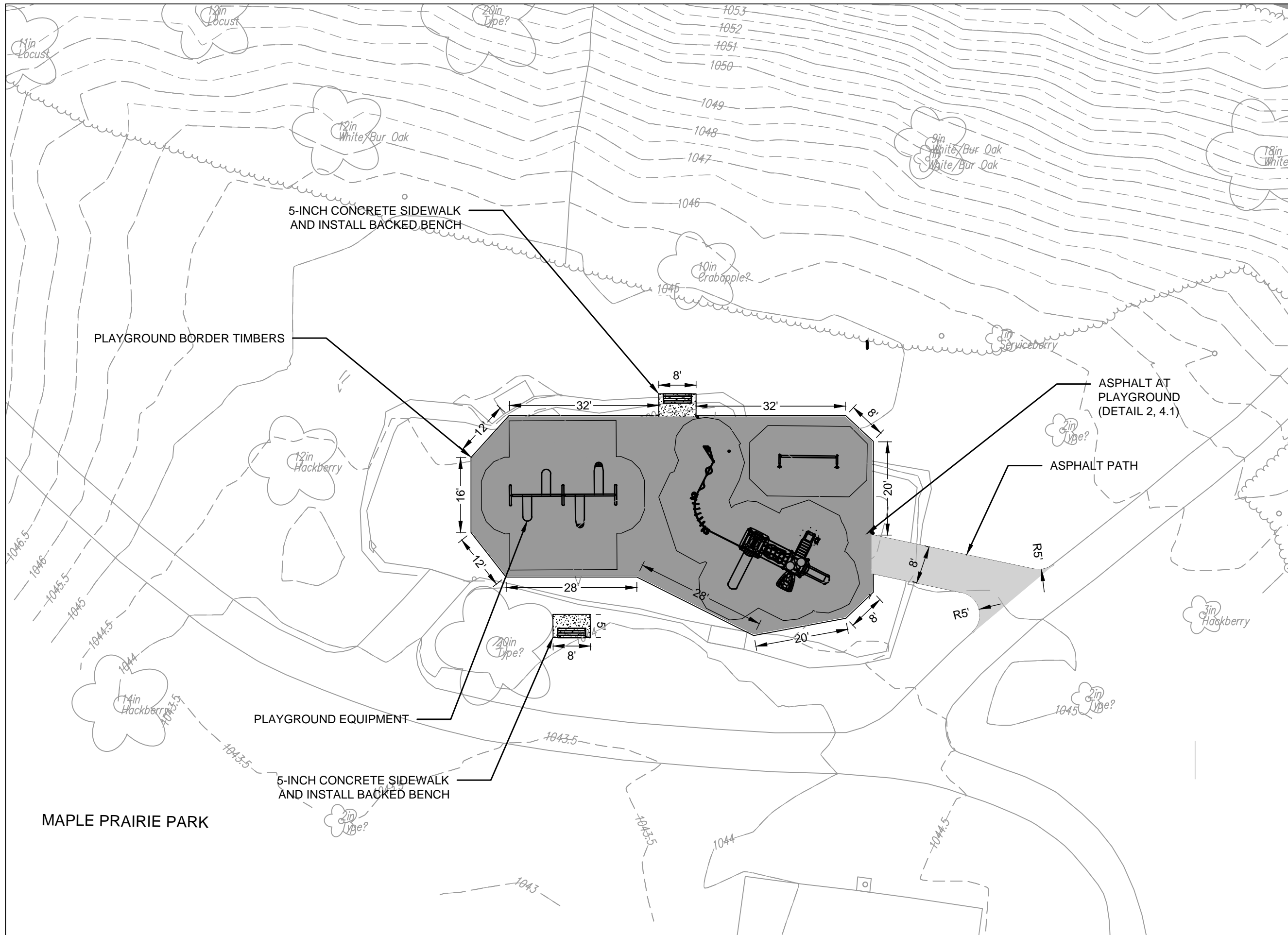
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ITEM	DATE
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PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
***DEMOLITION AND
 PROTECTION PLAN***

SHEET NUMBER:
1.3



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 Department of Public Works
PARKS DIVISION
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MADISON
PARKS

Graphical Scale
 0 20



PROJECT:
**2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**MAPLE PRAIRIE PARK
 3117 PRAIRIE RD
 MADISON, WI 53719**

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ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
SITE PLAN

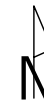
SHEET NUMBER:
1.4

NOTES:
 1. ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING

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PARKS DIVISION
 330 E Lakeside St
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play
MADISON
PARKS

Graphical Scale
 0 20



PROJECT:
**2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**MAPLE PRAIRIE PARK
 3117 PRAIRIE RD
 MADISON, WI 53719**

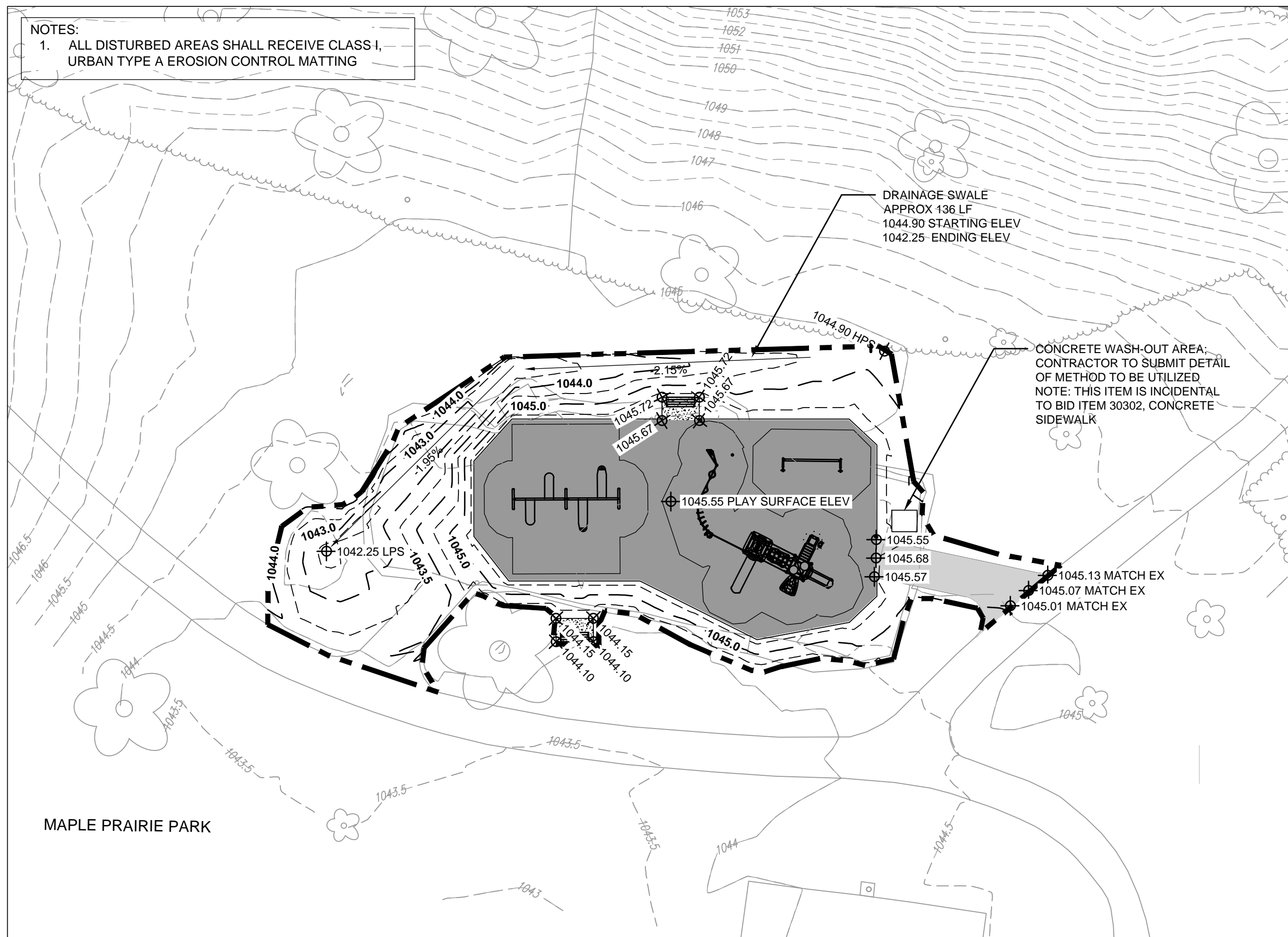
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ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
**GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
1.5



Maple Prairie Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 3-13-2023

Notes
Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

Existing: MaplePrairie_Survey2022-07-14.dwg
Proposed: 2023 Maple Prairie PG_Volume.dwg

Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
Asphalt to Grass	Asphalt Excavate	Remove estimated 3in asphalt	n/a	n/a	259	0.25	65	2.4	0%	2.4
Asphalt to Grass	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	259	0.33	86	3.2	0%	3.2
Asphalt to Grass	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subs oil	n/a	n/a	259	0.17	43	1.6	0%	1.6
Asphalt to Grass	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-9in	Pro-6in	259	varies	13	0.5	0%	0.5
Asphalt to Grass	Subsoil Place	Fill subs oil to proposed subgrade	Ex-9in	Pro-6in	259	varies	-38	-1.4	0%	-1.4
Asphalt to Grass	Tops oil Place	Place 6in tops oil	n/a	n/a	259	-0.50	-130	-4.8	0%	-4.8
Concrete to Grass	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	60	0.42	6	0.2	0%	0.2
Concrete to Grass	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-5in	Pro-6in	60	varies	13	0	0%	0
Concrete to Grass	Subsoil Place	Fill subs oil to proposed subgrade	Ex-5in	Pro-6in	60	varies	-25	-0.1	0%	-0.1
Concrete to Grass	Tops oil Place	Place 6in tops oil	n/a	n/a	60	-0.50	-30	-1.1	0%	-1.1
Grass to Asphalt	Tops oil Excavate	Strip 6in tops oil	n/a	n/a	255	0.50	127	4.7	0%	4.7
Grass to Asphalt	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-6in	Pro-12in	255	varies	84	3.1	0%	3.1
Grass to Asphalt	Subsoil Place	Fill subs oil to proposed subgrade	Ex-6in	Pro-12in	255	varies	0	0.0	0%	0.0
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	255	-0.75	-191	-7.1	0%	-7.1
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	232	-0.25	-58	-2.1	0%	-2.1
Grass to Concrete	Tops oil Excavate	Strip 6in tops oil	n/a	n/a	78	0.50	38	1.4	0%	1.4
Grass to Concrete	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-6in	Pro-11in	78	varies	22	0.8	0%	0.8
Grass to Concrete	Subsoil Place	Fill subs oil to proposed subgrade	Ex-6in	Pro-11in	78	varies	-12	-0.4	0%	-0.4
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	78	-0.50	-38	-1.4	0%	-1.4
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	58	-0.42	-24	-0.9	0%	-0.9
Grass to Concrete	Tops oil Place	Place 3in tops oil over 6in wide gravel edge	n/a	n/a	20	-0.25	-5	-0.2	0%	-0.2
Grass to Grass	Tops oil Excavate	Strip 6in tops oil	n/a	n/a	2527	0.50	1264	46.8	0%	46.8
Grass to Grass	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-6in	Pro-6in	2527	varies	913	33.8	0%	33.8
Grass to Grass	Subsoil Place	Fill subs oil to proposed subgrade	Ex-6in	Pro-6in	2527	varies	-537	-19.9	0%	-19.9
Grass to Grass	Tops oil Place	Place 6in tops oil	n/a	n/a	2527	-0.50	-1264	-46.8	0%	-46.8
Grass to Playsurface	Tops oil Excavate	Strip 6in tops oil	n/a	n/a	219	0.50	109	4.1	0%	4.1
Grass to Playsurface	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-6in	Pro-12in	219	varies	1	0.0	0%	0.0
Grass to Playsurface	Subsoil Place	Fill subs oil to proposed subgrade	Ex-6in	Pro-12in	219	varies	-39	-1.5	0%	-1.5
Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	219	-1.00	-219	-8.1	0%	-8.1

Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	16	0.50	8	0.3	0%	0.3
Grass to Timbers	Subsoil Place	Cut subs oil to proposed subgrade	Ex-6in	Pro-12in	16	varies	0	0.0	0%	0.0
Grass to Timbers	Subsoil Excavate	Fill subs oil to proposed subgrade	Ex-6in	Pro-12in	16	varies	-7	-0.2	0%	-0.2
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comp)	n/a	n/a	16	-1.00	-16	-0.6	0%	-0.6
Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	72	1.42	102	3.8	0%	3.8
Play Surface to Asphalt	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-17in	Pro-12in	72	varies	0	0.0	0%	0.0
Play Surface to Asphalt	Subsoil Place	Fill subs oil to proposed subgrade	Ex-17in	Pro-12in	72	varies	-86	-3.2	0%	-3.2
Play Surface to Asphalt	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	72	-0.50	-36	-1.3	0%	-1.3
Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	64	-0.25	-16	-0.6	0%	-0.6
Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	25	1.42	36	1.3	0%	1.3
Play Surface to Concrete	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-17in	Pro-11in	25	varies	0	0.0	0%	0.0
Play Surface to Concrete	Subsoil Place	Fill subs oil to proposed subgrade	Ex-17in	Pro-11in	25	varies	-42	-1.6	0%	-1.6
Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	25	-0.50	-13	-0.5	0%	-0.5
Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	23	-0.42	-10	-0.4	0%	-0.4
Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	2	-0.25	-1	0.0	0%	0.0
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1260	1.42	1785	66.1	0%	66.1
Play Surface to Grass	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-17in	Pro-6in	1260	varies	31	1.2	0%	1.2
Play Surface to Grass	Subsoil Place	Fill subs oil to proposed subgrade	Ex-17in	Pro-6in	1260	varies	-1664	-62.4	0%	-62.4
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1260	-0.50	-630	-23.3	0%	-23.3
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	3002	1.42	4253	157.5	0%	157.5
Play Surface to Play Surface	Subsoil Excavate	Cut subs oil to proposed subgrade	Ex-17in	Pro-12in	3002	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subs oil to proposed subgrade	Ex-17in	Pro-12in	3002	varies	-5004	-185.3	0%	-185.3
Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	3002	-1.00	-3002	-111.2	0%	-111.2
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	58	1.42	82	3.1	0%	3.1
Play Surface to Timbers	Subsoil Place	Cut subs oil to proposed subgrade	Ex-17in	Pro-12in	58	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Fill subs oil to proposed subgrade	Ex-17in	Pro-12in	58	varies	-102	-3.8	0%	-3.8
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comp)	n/a	n/a	58	-1.00	-58	-2.2	0%	-2.2

Maple Prairie Park Play ground - Earthwork Quantities
City of Madison, WI Public Works Contract
Date Revised: 3/13/2023

Quoted from more detailed spreadsheet available from Parks Div.

Computation Summary
Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels: Sum of Unfactored volume (cu yd)

Asphalt Place	-2.7
Border Timbers Place (placeholder volume)	-2.8
Gravel (for Pavement) Place	-10.3
Play Surface Excavate	231.8
Subsoil Excavate	-110.3
Subsoil Place	25.4
Topsoil Excavate	-2.75
Topsoil Place	57.3
Asphalt Excavate	-6.2
Gravel (Clean) Excavate	2.4
Gravel (Dirty) Excavate	3.2
Concrete Place	1.6
Concrete Excavate	-1.2
Concrete Excavate	0.2
Grand Total	-156.5

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table (above)
20101 Excavation Cut	95	CY	= Subsoil Excavate + Topsoil Excavate+Asphalt Excavate
20104 Excavation Cut - Pss Gravel/Rubber Mix	232	CY	= Play Surface Excavate
20202 Fill Borrow	240	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	457	SY	= (Topsoil Place) - 167
40102 Crushed Aggregate Base Course Gradation No. 2	21	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	6	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Rubber Mulch	131	CY	= Play Surface Place * -1.10

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PARKS DIVISION
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play MADISON PARKS

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0



PROJECT:

2023 WEST PARKS PLAYGROUND REPLACEMENTS

PROJECT ADDRESS:

**MAPLE PRAIRIE PARK
3117 PRAIRIE RD
MADISON, WI 53719**

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ITEM DATE
ADVERTISED TO BID: KK 2023-04-20

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9298

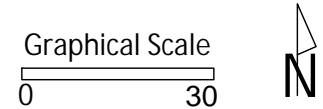
SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6



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PROJECT:
*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
*OAK PARK HEIGHTS PARK
 641 HILLTOP DR
 MADISON, WI 53711*

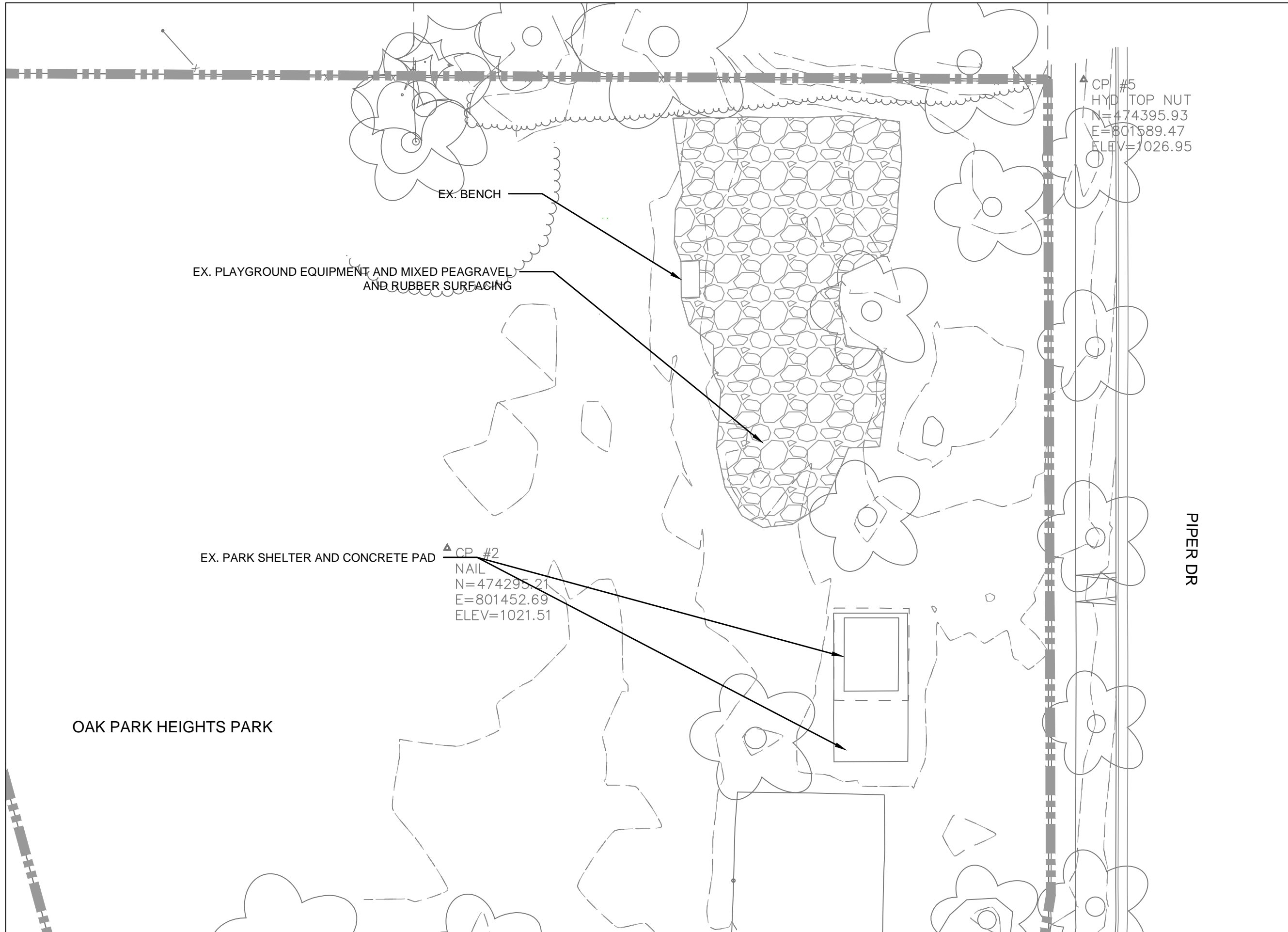
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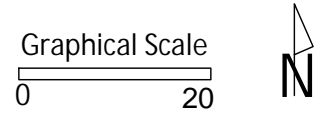
SHEET TITLE:
*PROJECT LOCATION
 AND SITE ACCESS*

SHEET NUMBER:
2.1



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 Department of Public Works
PARKS DIVISION
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 Madison, WI 53715

play
**MADISON
 PARKS**



PROJECT:
*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
*OAK PARK HEIGHTS PARK
 641 HILLTOP DR
 MADISON, WI 53711*

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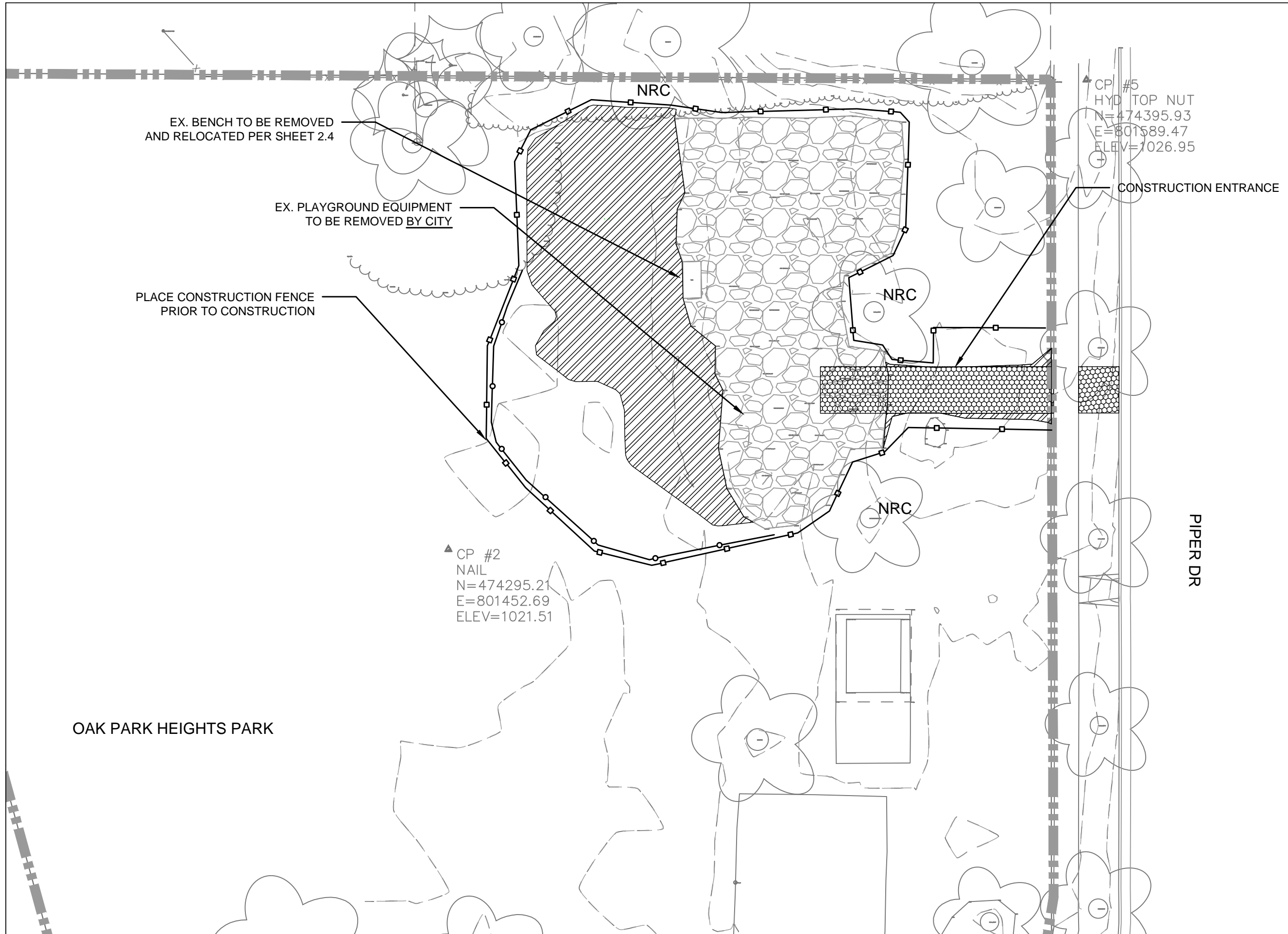
ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

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9298

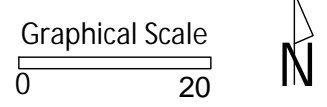
SHEET TITLE:
*EXISTING
 CONDITIONS*

SHEET NUMBER:
2.2

PIPER DR



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 Department of Public Works
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PROJECT:
*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
*OAK PARK HEIGHTS PARK
 641 HILLTOP DR
 MADISON, WI 53711*

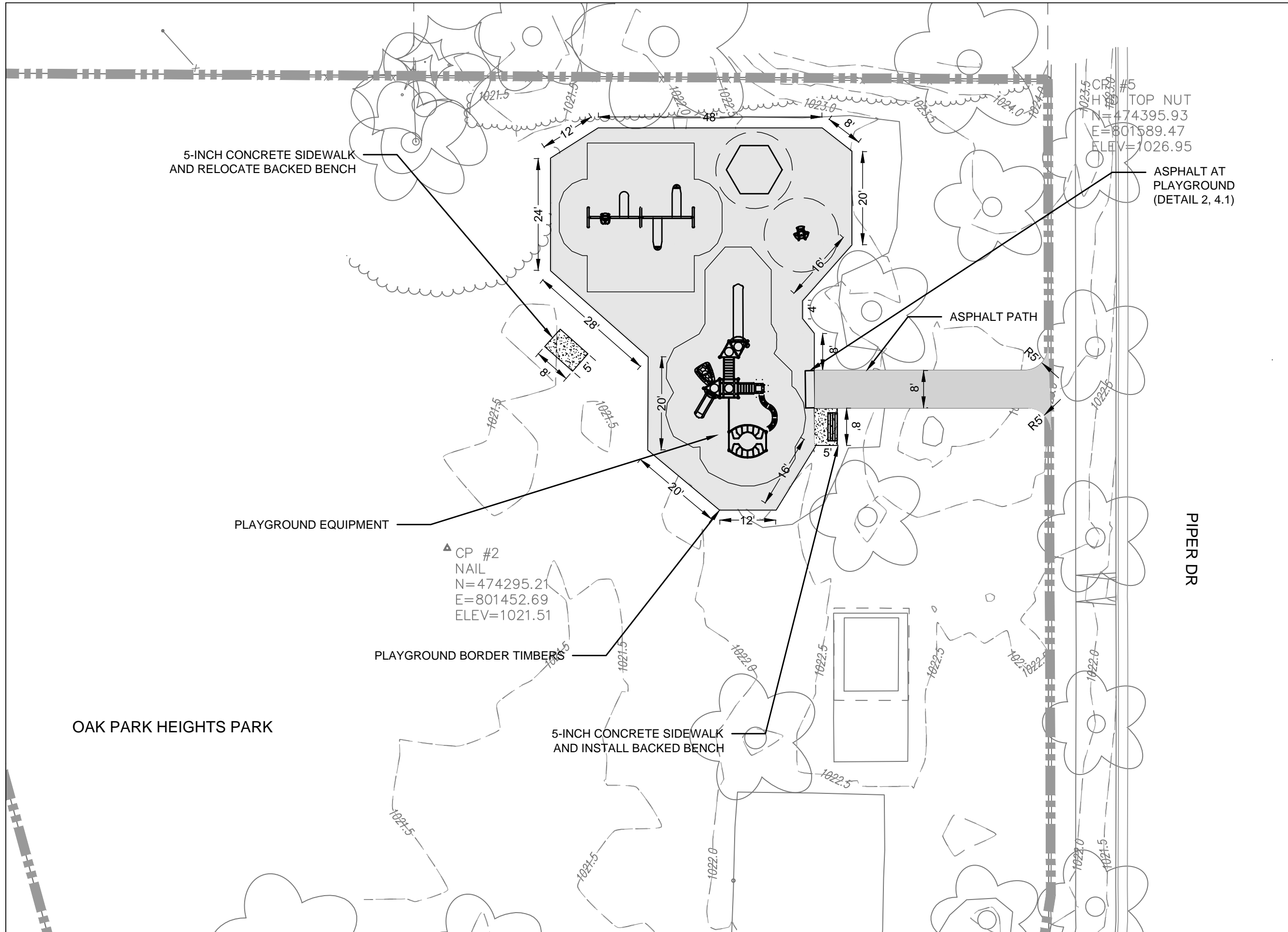
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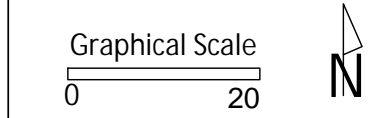
SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
2.3



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Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715

play
MADISON
PARKS



PROJECT:
*2023 WEST PARKS
PLAYGROUND
REPLACEMENTS*

PROJECT ADDRESS:
*OAK PARK HEIGHTS PARK
641 HILLTOP DR
MADISON, WI 53711*

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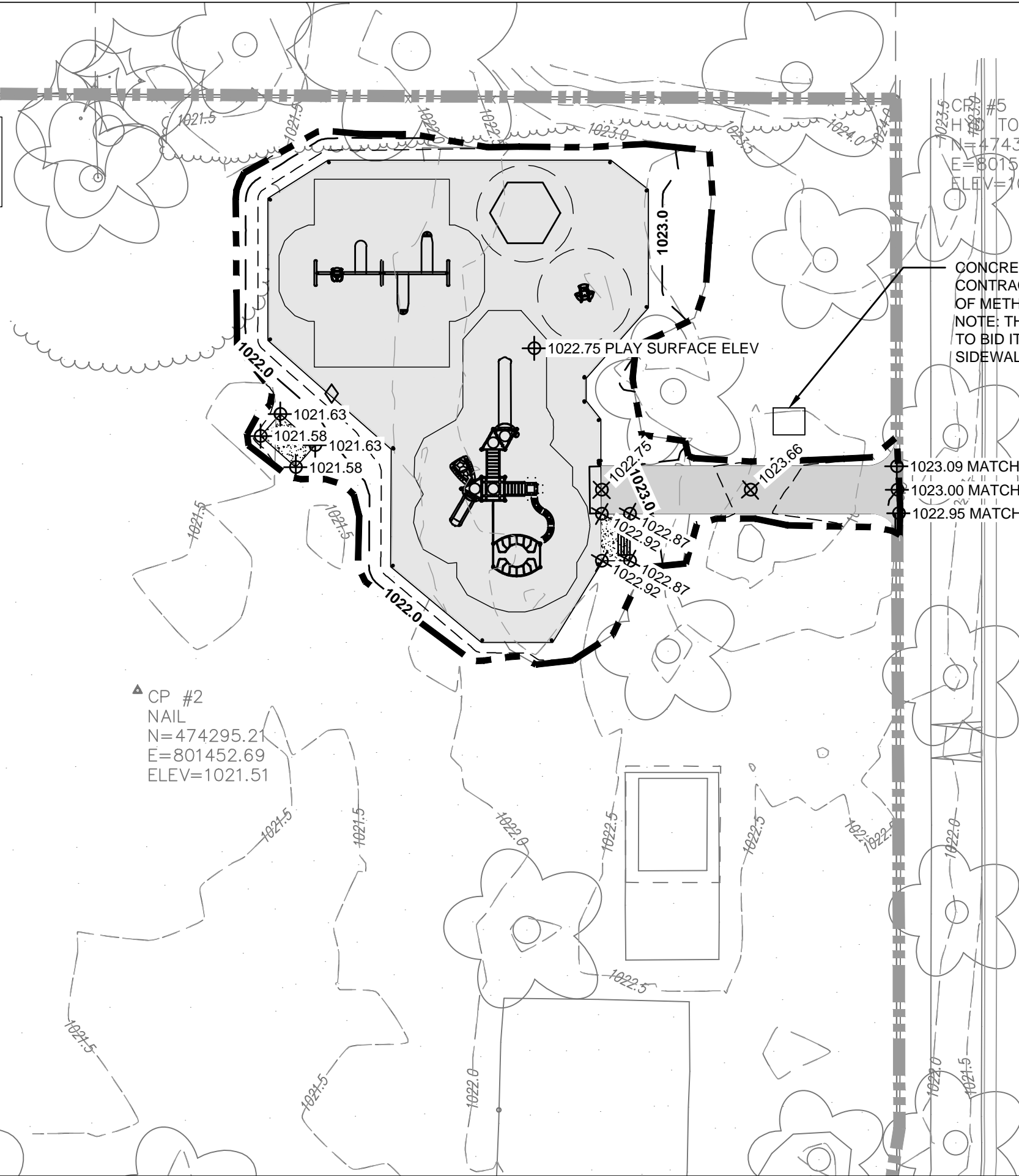
ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
SITE PLAN

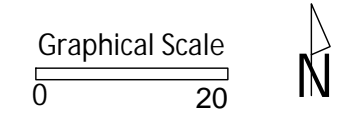
SHEET NUMBER:
2.4

NOTES:
 1. ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING



CONCRETE WASH-OUT AREA;
 CONTRACTOR TO SUBMIT DETAIL
 OF METHOD TO BE UTILIZED
 NOTE: THIS ITEM IS INCIDENTAL
 TO BID ITEM 30302, CONCRETE
 SIDEWALK

City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715



PROJECT:
**2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**OAK PARK HEIGHTS PARK
 641 HILLTOP DR
 MADISON, WI 53711**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
**GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
2.5

OAK PARK HEIGHTS PARK

PIPER DR

Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	330	0.50	165	6.1	0%	6.1
Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	330	varies	210	7.8	0%	7.8
Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	330	varies	0	0.0	0%	0.0
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	330	-0.75	-247	-8.2	0%	-9.2
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	294	-0.25	-73	-2.7	0%	-2.7
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	54	0.50	27	1.0	0%	1.0
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	54	varies	21	0.8	0%	0.8
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	54	varies	0	0.0	0%	0.0
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	54	-0.50	-27	-1.0	0%	-1.0
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	40	-0.42	-17	-0.6	0%	-0.6
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	14	-0.25	-4	-0.1	0%	-0.1
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	857	0.50	428	15.9	0%	15.9
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	857	varies	5	0.2	0%	0.2
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	857	varies	-394	-14.6	0%	-14.6
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	857	-0.50	-428	-15.9	0%	-15.9
Grass to Playsurface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1544	0.50	772	28.6	0%	28.6
Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1544	varies	17	0.6	0%	0.6
Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1544	varies	-522	-19.3	0%	-19.3
Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1544	-1.00	-1544	-57.2	0%	-57.2
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	42	0.50	21	0.8	0%	0.8
Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	42	varies	0	0.0	0%	0.0
Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	42	varies	-26	-1.0	0%	-1.0
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	42	-1.00	-42	-1.6	0%	-1.6
Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	135	1.42	191	7.1	0%	7.1
Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	135	varies	0	0.0	0%	0.0
Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	135	varies	-83	-3.1	0%	-3.1
Play Surface to Asphalt	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	135	-0.50	-67	-2.5	0%	-2.5
Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	122	-0.25	-30	-1.1	0%	-1.1
Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	47	1.42	66	2.5	0%	2.5
Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-11in	47	varies	0	0.0	0%	0.0
Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-11in	47	varies	-31	-1.1	0%	-1.1
Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	47	-0.50	-23	-0.9	0%	-0.9
Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	40	-0.42	-17	-0.6	0%	-0.6
Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	7	-0.25	-2	-0.1	0%	-0.1

From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
n/a	n/a	842	1.42	1193	44.2	0%	44.2
Ex-17in	Pro-6in	842	varies	0	0.0	0%	0.0
Ex-17in	Pro-6in	842	varies	-834	-30.9	0%	-30.9
n/a	n/a	842	-0.50	-421	-15.6	0%	-15.6
n/a	n/a	2134	1.42	3024	112.0	0%	112.0
Ex-17in	Pro-12in	2134	varies	0	0.0	0%	0.0
Ex-17in	Pro-12in	2134	varies	-1094	-40.5	0%	-40.5
n/a	n/a	2134	-1.00	-2134	-79.0	0%	-79.0
n/a	n/a	39	1.42	55	2.1	0%	2.1
Ex-17in	Pro-12in	39	varies	0	0.0	0%	0.0
Ex-17in	Pro-12in	39	varies	-25	-0.9	0%	-0.9
n/a	n/a	39	-1.00	-39	-1.5	0%	-1.5

Oak Park Heights Park Playground - Earthwork Quantities
City of Madison, WI Public Works Contract 9298
Date Revised: 4/12/2023

Derived from more detailed spreadsheet available from Parks Div

Computation Summary
Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-3.8
Border Timbers Place (placeholder volume)	-3.0
Gravel (for Pavement) Place	-13.5
Play Surface Excavate	167.7
Play Surface Place	-136.2
Subsoil Excavate	7.5
Subsoil Place	-109.6
Topsoil Excavate	52.3
Topsoil Place	-31.7
Concrete Place	-1.2
Grand Total	-71.5

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table (above)
20101 Excavation Cut	60	CY	= Subsoil Excavate + Topsoil Excavate+Asphalt Excavate
20104 Excavation Cut - Pea Gravel/Rubber Mix	168	CY	= Play Surface Excavate
20202 Fill Borrow	102	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	190	SY	= (Topsoil Place)-167
40102 Crushed Aggregate Base Course Gradation No. 2	27	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	8	tons	= Asphalt Place * -2.16 ton/cubic yard
90004 Playground Surfacing - Wood Mulch	150	CY	= Play Surface Place * -1.10

City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715

play MADISON PARKS

Graphical Scale

PROJECT:
2023 WEST PARKS PLAYGROUND REPLACEMENTS

PROJECT ADDRESS:
**OAK PARK HEIGHTS PARK
641 HILLTOP DR
MADISON, WI 53711**

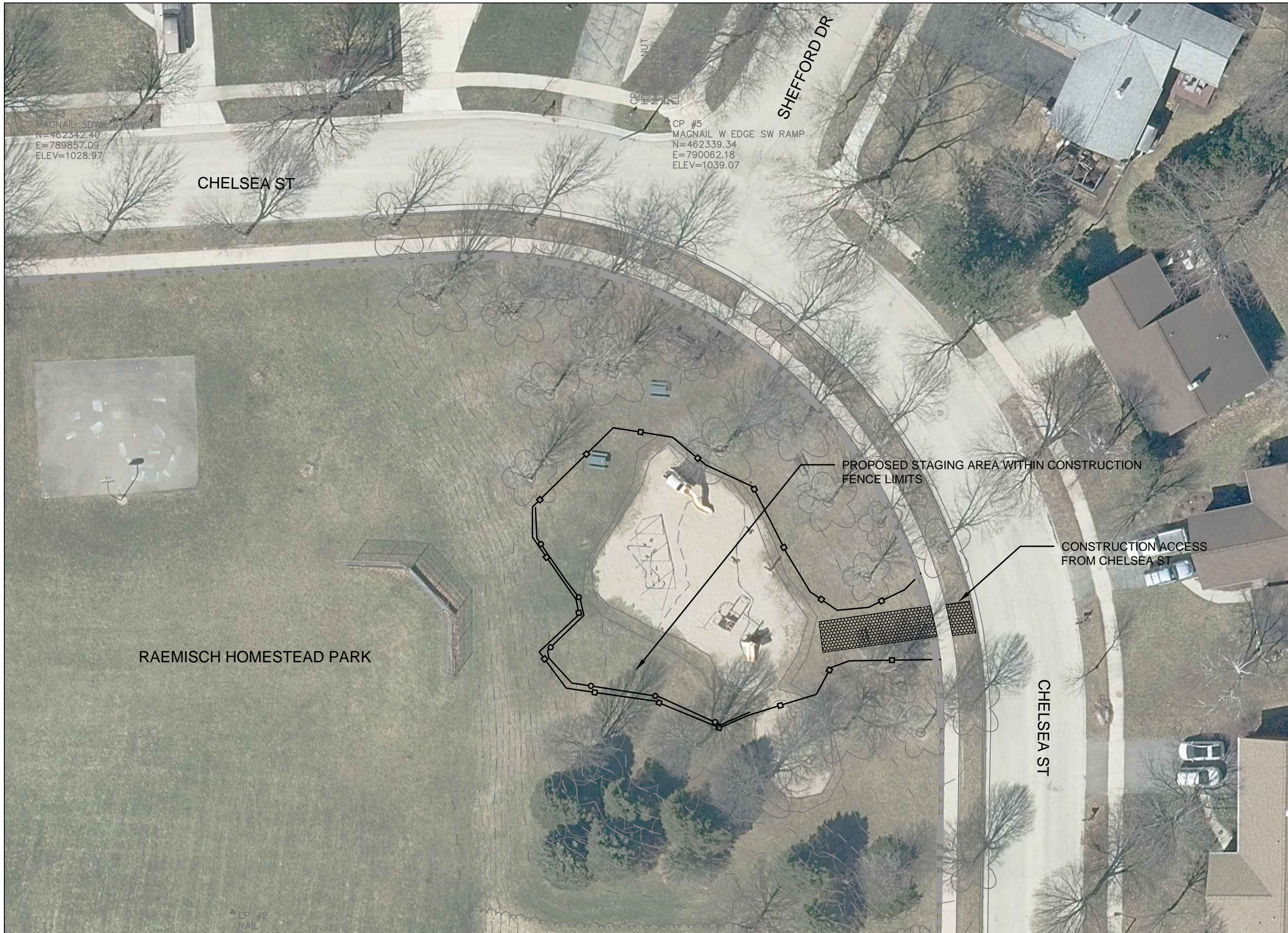
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ITEM DATE
ADVERTISED TO BID: KK 2023-04-20

PUBLIC WORKS PROJECT #:
9298

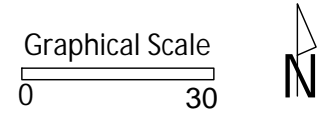
SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
2.6



City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715

play
**MADISON
 PARKS**



PROJECT:
*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
*RAEMISCH HOMESTEAD PARK
 6909 CHELSEA ST
 MADISON, WI 53719*

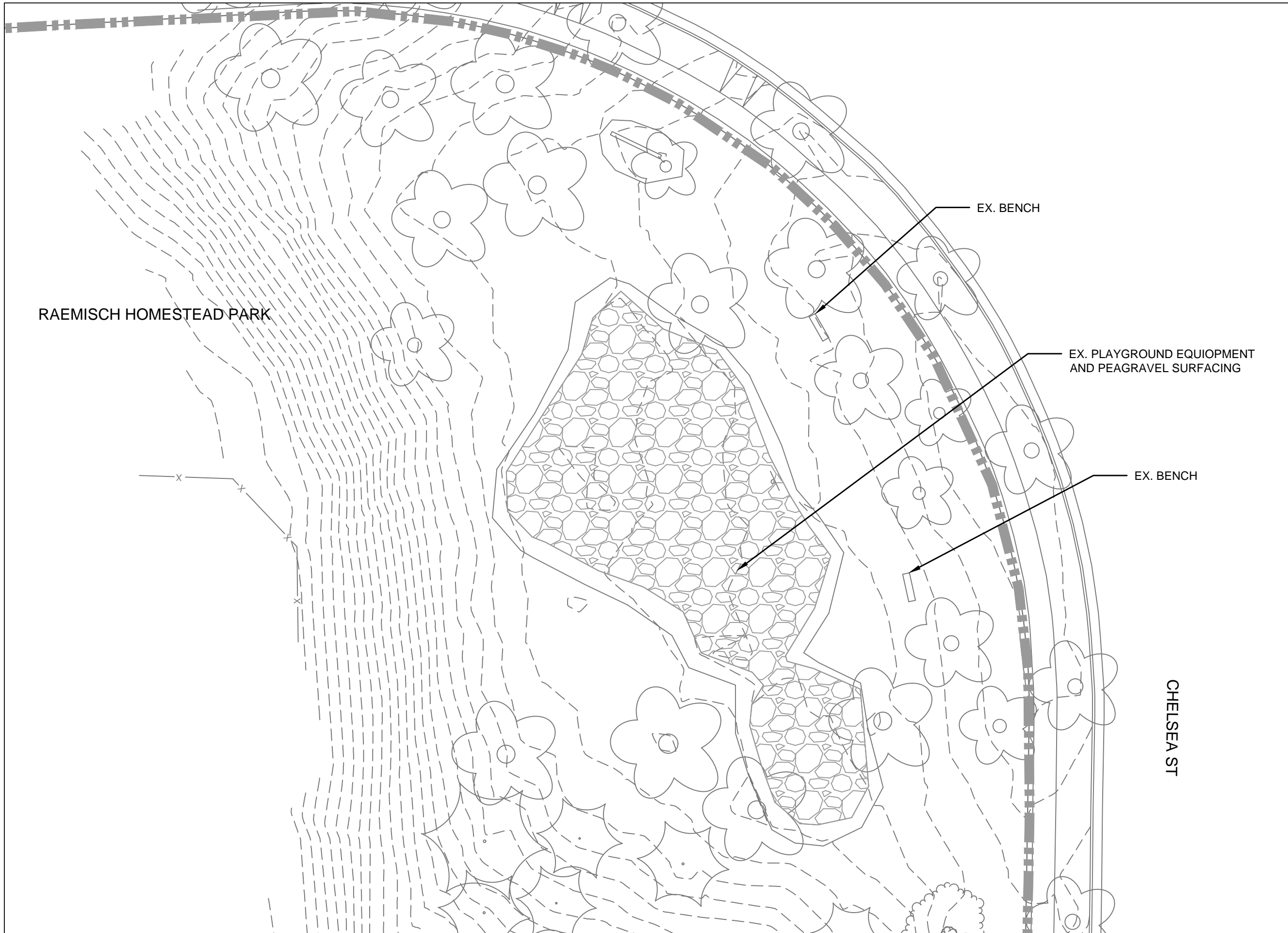
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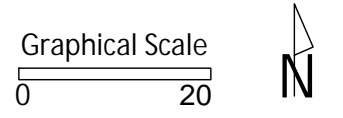
PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
*PROJECT LOCATION
 AND SITE ACCESS*

SHEET NUMBER:
3.1



City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715



PROJECT:
*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
*RAEMISCH HOMESTEAD PARK
 6909 CHELSEA ST
 MADISON, WI 53719*

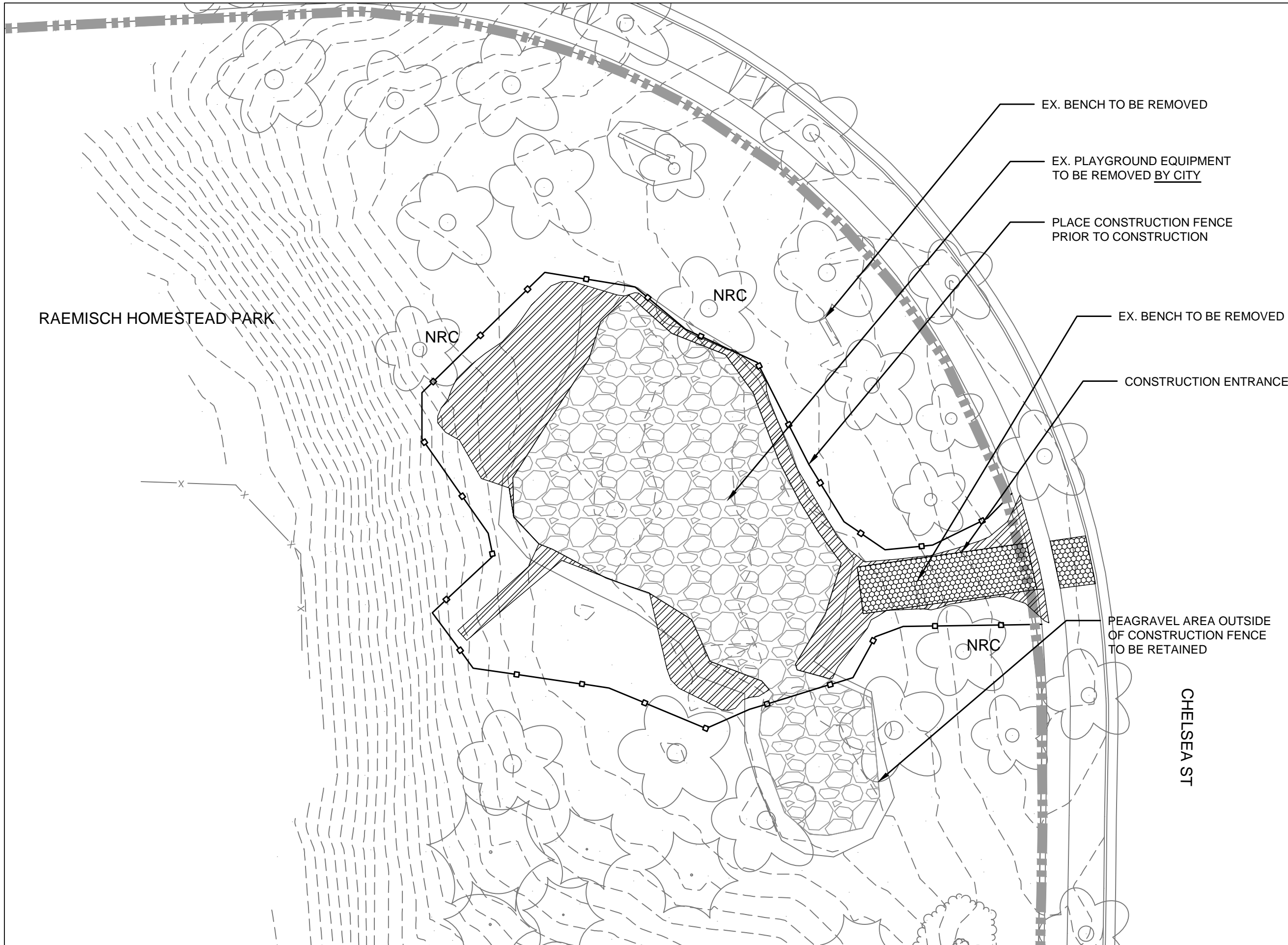
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PUBLIC WORKS PROJECT #:
9298

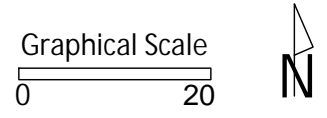
SHEET TITLE:
*EXISTING
 CONDITIONS*

SHEET NUMBER:
3.2



City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715

play
MADISON
PARKS



PROJECT:
**2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**RAEMISCH HOMESTEAD PARK
 6909 CHELSEA ST
 MADISON, WI 53719**

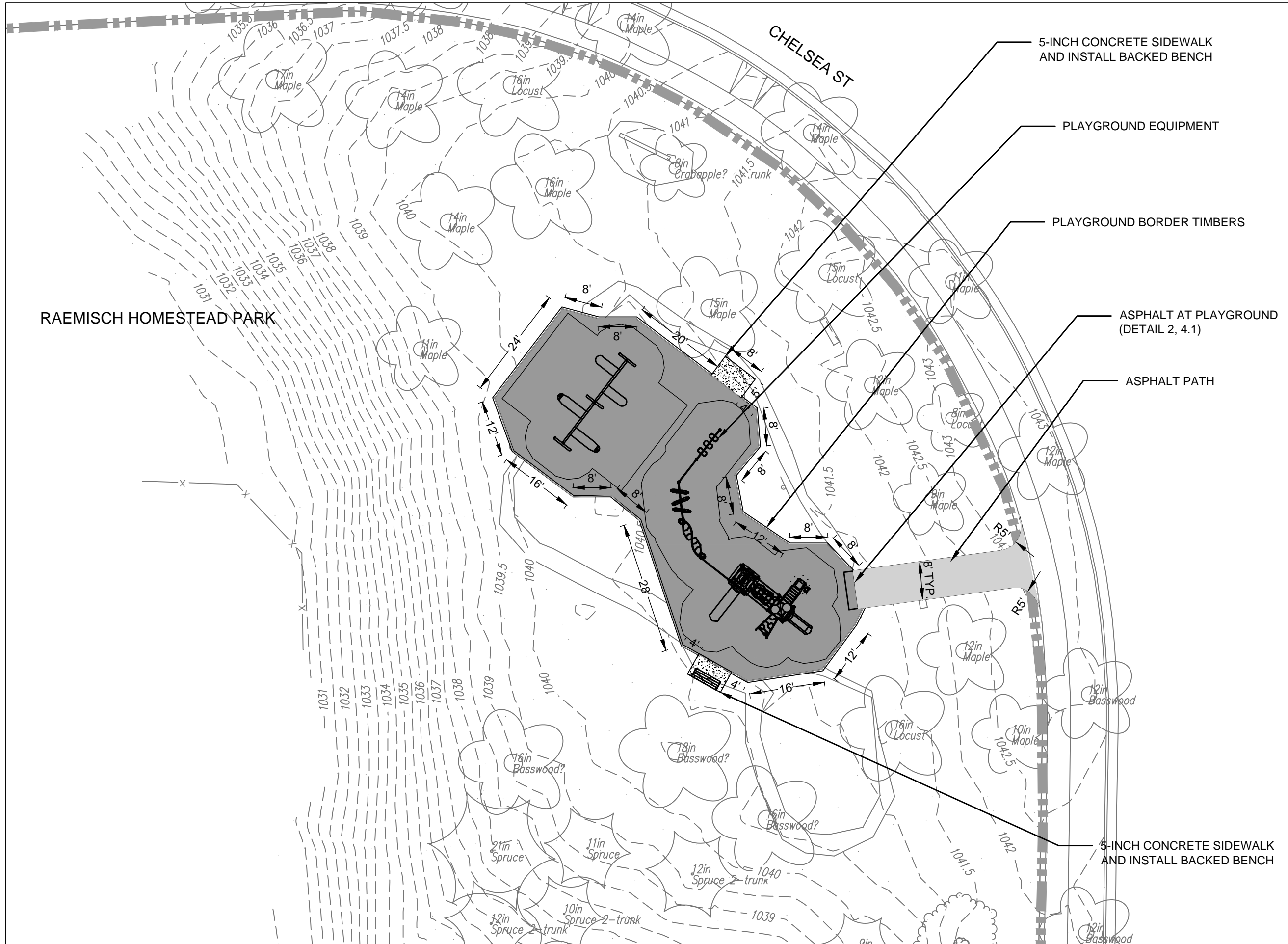
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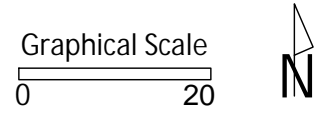
PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
3.3



City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715



PROJECT:
**2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**RAEMISCH HOMESTEAD PARK
 6909 CHELSEA ST
 MADISON, WI 53719**

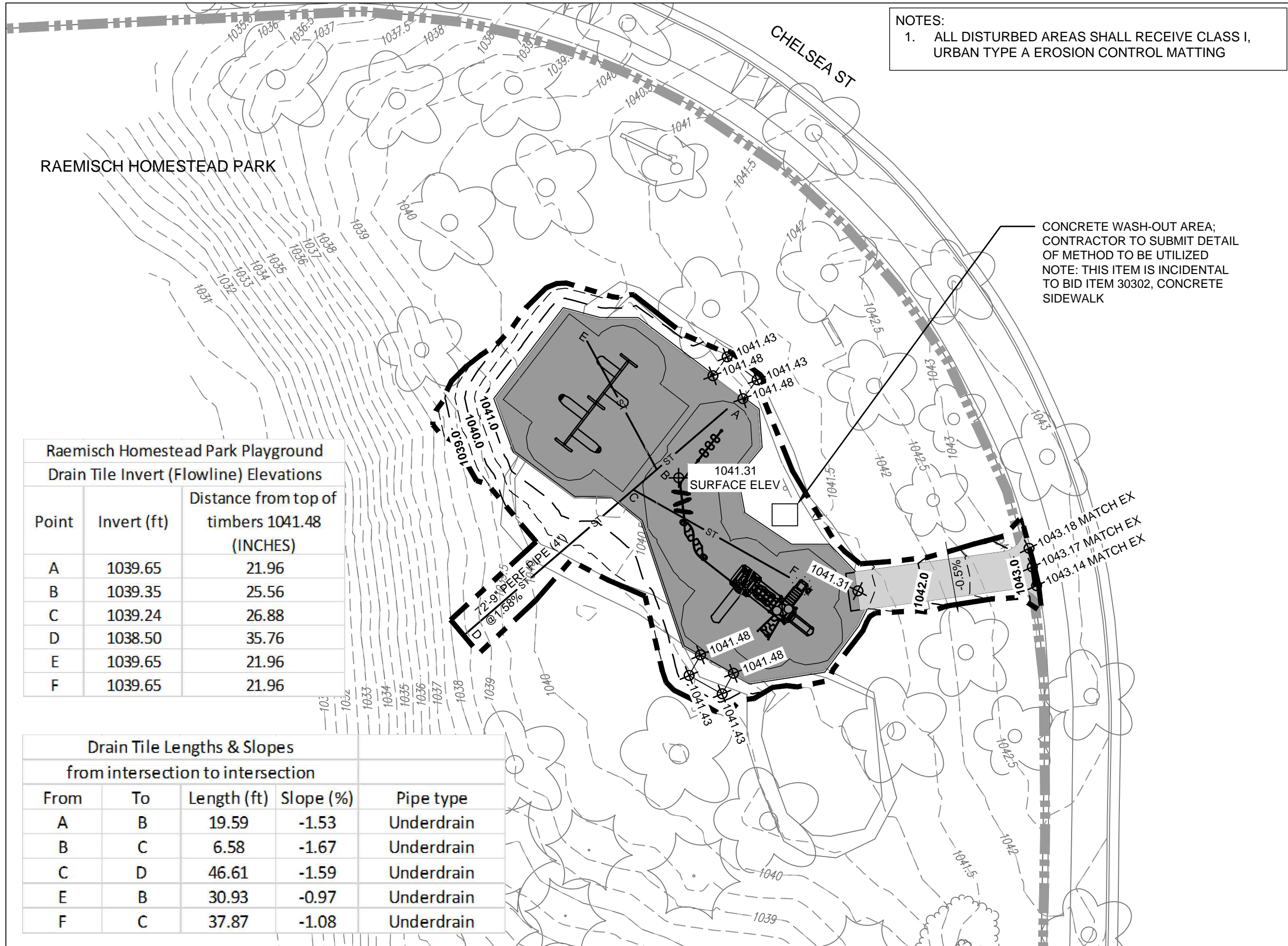
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ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
3.4

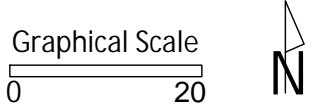


NOTES:
 1. ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING

CONCRETE WASH-OUT AREA;
 CONTRACTOR TO SUBMIT DETAIL
 OF METHOD TO BE UTILIZED
 NOTE: THIS ITEM IS INCIDENTAL
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PARKS DIVISION
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 Madison, WI 53715

play
MADISON
PARKS



PROJECT:
**2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**RAEMISCH HOMESTEAD PARK
 6909 CHELSEA ST
 MADISON, WI 53719**

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ITEM DATE
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PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
**GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
3.5

Raemisch Homestead Park Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1041.48 (INCHES)
A	1039.65	21.96
B	1039.35	25.56
C	1039.24	26.88
D	1038.50	35.76
E	1039.65	21.96
F	1039.65	21.96

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	19.59	-1.53	Underdrain
B	C	6.58	-1.67	Underdrain
C	D	46.61	-1.59	Underdrain
E	B	30.93	-0.97	Underdrain
F	C	37.87	-1.08	Underdrain

Raemisch Homestead Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 4-12-2023

Notes

Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

Existing Raemisch_Survey2022-07-14.dwg
Proposed 2023 Raemisch Homestead PG_Volume.dwg

Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	361	0.50	181	6.7	0%	6.7
Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	361	varies	119	4.4	0%	4.4
Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	361	varies	0	0.0	0%	0.0
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	361	-0.75	-271	-10.0	0%	-10.0
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	304	-0.25	-76	-2.8	0%	-2.8
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	63	0.50	31	1.2	0%	1.2
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	63	varies	1	0.0	0%	0.0
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	63	varies	-13	-0.5	0%	-0.5
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	63	-0.50	-31	-1.2	0%	-1.2
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	46	-0.42	-19	-0.7	0%	-0.7
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	17	-0.25	-4	-0.2	0%	-0.2
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	890	0.50	445	16.5	0%	16.5
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	890	varies	15	0.6	0%	0.6
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	890	varies	-429	-15.9	0%	-15.9
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	890	-0.50	-445	-16.5	0%	-16.5
Grass to Playsurface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	516	0.50	258	9.6	0%	9.6
Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	516	varies	66	2.5	0%	2.5
Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	516	varies	-222	-8.2	0%	-8.2
Grass to Playsurface	Play Surface Place	Place 12in rubber mulch play surface	n/a	n/a	516	-1.00	-516	-19.1	0%	-19.1
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	32	0.50	16	0.6	0%	0.6
Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	32	varies	3	0.1	0%	0.1
Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	32	varies	-17	-0.6	0%	-0.6
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	32	-1.00	-32	-1.2	0%	-1.2

Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	41	1.42	58	2.2	0%	2.2
Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	41	varies	0	0.0	0%	0.0
Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	41	varies	-33	-1.2	0%	-1.2
Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	41	-0.50	-21	-0.8	0%	-0.8
Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	33	-0.42	-14	-0.5	0%	-0.5
Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	8	-0.42	-3	-0.1	0%	-0.1
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	739	1.42	1047	38.8	0%	38.8
Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	739	varies	0	0.0	0%	0.0
Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	739	varies	-1050	-38.9	0%	-38.9
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	739	-0.50	-370	-13.7	0%	-13.7
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2343	1.42	3319	122.9	0%	122.9
Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	2343	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2343	varies	-2411	-89.3	0%	-89.3
Play Surface to Play Surface	Play Surface Place	Place 12in rubber mulch play surface	n/a	n/a	2343	-1.00	-2343	-86.8	0%	-86.8
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	45	1.42	64	2.4	0%	2.4
Play Surface to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	45	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	45	varies	-53	-2.0	0%	-2.0
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	45	-1.00	-45	-1.7	0%	-1.7

Raemisch Homestead Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 9298
Date Revised: 4/12/2023

Derived from more detailed spreadsheet available from Parks Div

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-2.8
Border Timbers Place (placeholder volume)	-2.9
Gravel (for Pavement) Place	-12.0
Play Surface Excavate	166.3
Play Surface Place	-105.9
Subsoil Excavate	5.5
Subsoil Place	-154.6
Topsoil Excavate	34.5
Topsoil Place	-30.4
Concrete Place	-1.2
Subsoil Excavate	0.1
Grand Total	-103.5

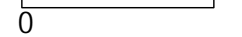
Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	40	CY	= Subsoil Excavate + Topsoil Excavate + Asphalt Excavate
20103 Excavation Cut - Pea Gravel	166	CY	= Play Surface Excavate
20202 Fill Borrow	149	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	182	SY	= (Topsoil Place) - 167
40102 Crushed Aggregate Base Course Gradation No. 2	24	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard
40202 HMA Pavement 4LT58-28 S	6	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Rubber Mulch	116	CY	= Play Surface Place * -1.10

City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715



Graphical Scale



PROJECT:

**2023 WEST PARKS
PLAYGROUND
REPLACEMENTS**

PROJECT ADDRESS:

**RAEMISCH HOMESTEAD PARK
6909 CHELSEA ST
MADISON, WI 53719**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM DATE
ADVERTISED TO BID: KK 2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:

3.6

PROJECT:

*2023 WEST PARKS
 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
ADVERTISED TO BID: KK	2023-04-20

PUBLIC WORKS PROJECT #:
9298

SHEET TITLE:
*DETAILS -
 PLAYGROUND &
 PAVEMENT EDGE*

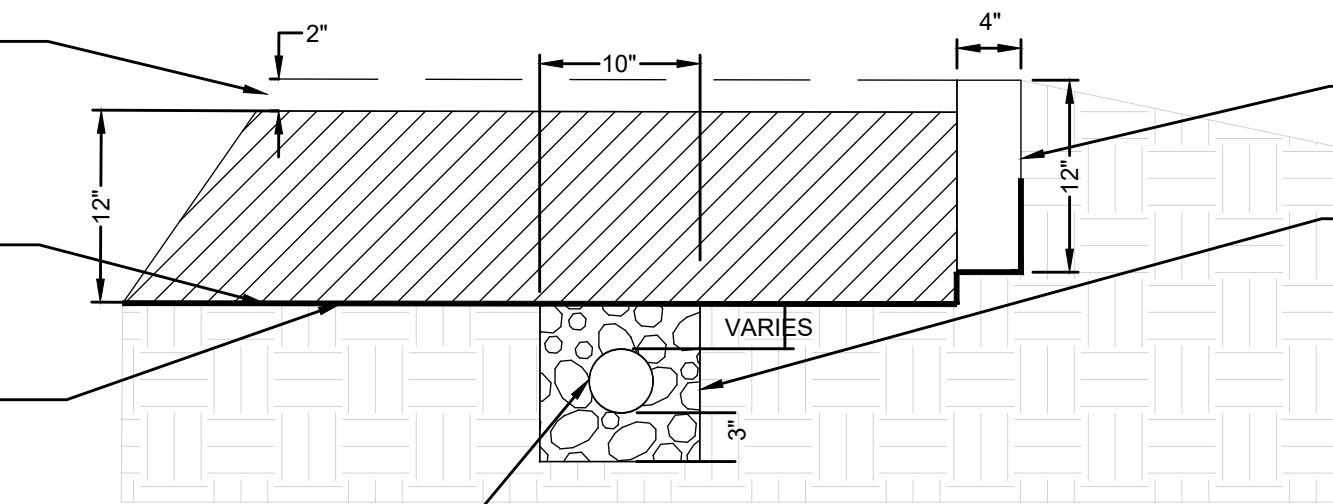
SHEET NUMBER:

4.1

PLAYGROUND SURFACING INSTALLED AT PLAYGROUND TIMBER HEIGHT TO ACCOMMODATE COMPACTION. FINAL PLAYGROUND SURFACE SHOULD BE SET AT 2" BELOW TIMBER HEIGHT.

GEOTEXTILE FABRIC TYPE SAS NON WOVEN (MIN. 4 OZ/SY)

PLAYGROUND SUBGRADE - MIN. 12" FROM PLAYGROUND SURFACE FINISHED GRADE



PLAYGROUND BORDER TIMBER

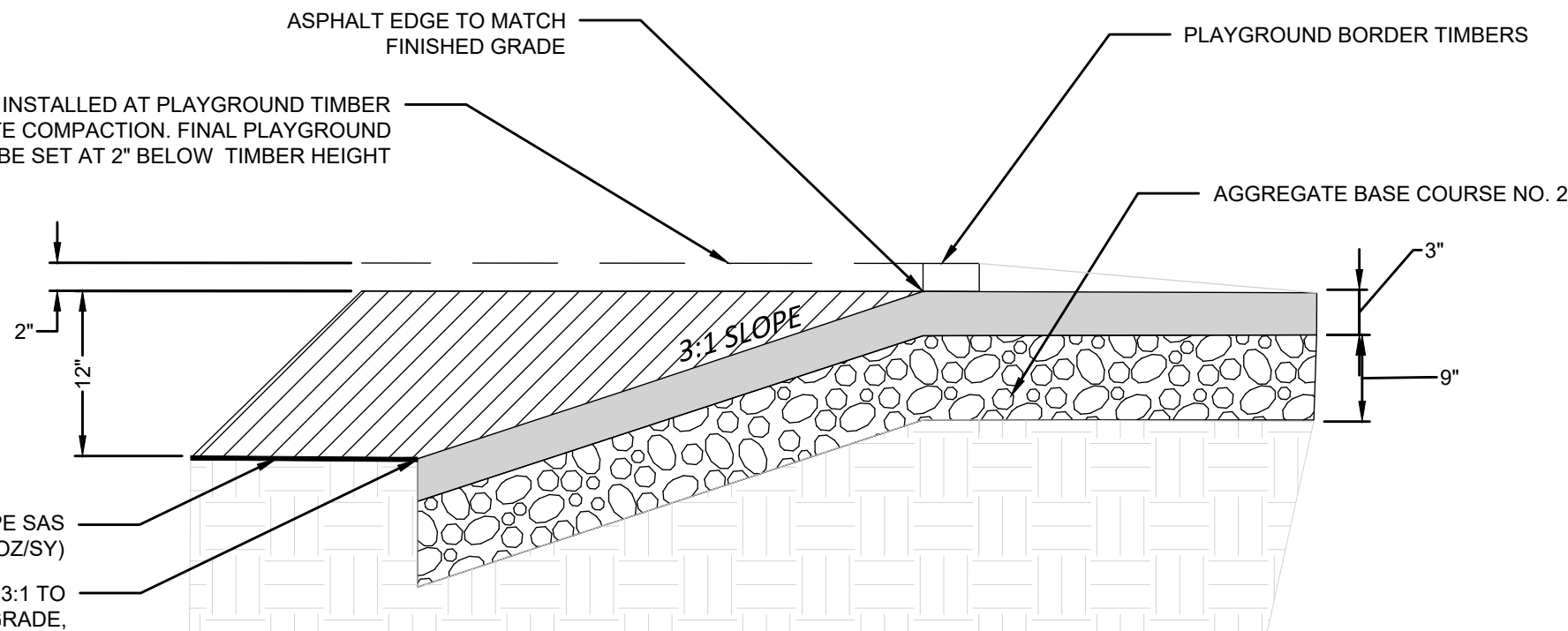
OPEN GRADED BASE COURSE WI DOT GRADATION NO. 2 AS SPECIFIED IN SECTION 501.2.5.4.4 OF WISCONSIN DOT STANDARD SPECIFICATIONS

4-INCH PERFORATED PVC DRAIN PIPE WITH SOCK

1
4.1 PLAYGROUND SURFACING WITH UNDERDRAIN
 NOT TO SCALE

ASPHALT EDGE TO MATCH FINISHED GRADE

PLAYGROUND SURFACING INSTALLED AT PLAYGROUND TIMBER HEIGHT TO ACCOMMODATE COMPACTION. FINAL PLAYGROUND SURFACE SHOULD BE SET AT 2" BELOW TIMBER HEIGHT



PLAYGROUND BORDER TIMBERS

AGGREGATE BASE COURSE NO. 2

GEOTEXTILE FABRIC TYPE SAS NO WOVEN (MIN. 4 OZ/SY)

SLOPE ASPHALT AT 3:1 TO MEET PROPOSED SUBGRADE, UNLESS OTHERWISE SPECIFIED ON PLANS

2
4.1 ASPHALT AT PLAYGROUND EDGE
 NOT TO SCALE