






























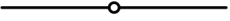




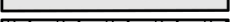

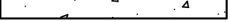

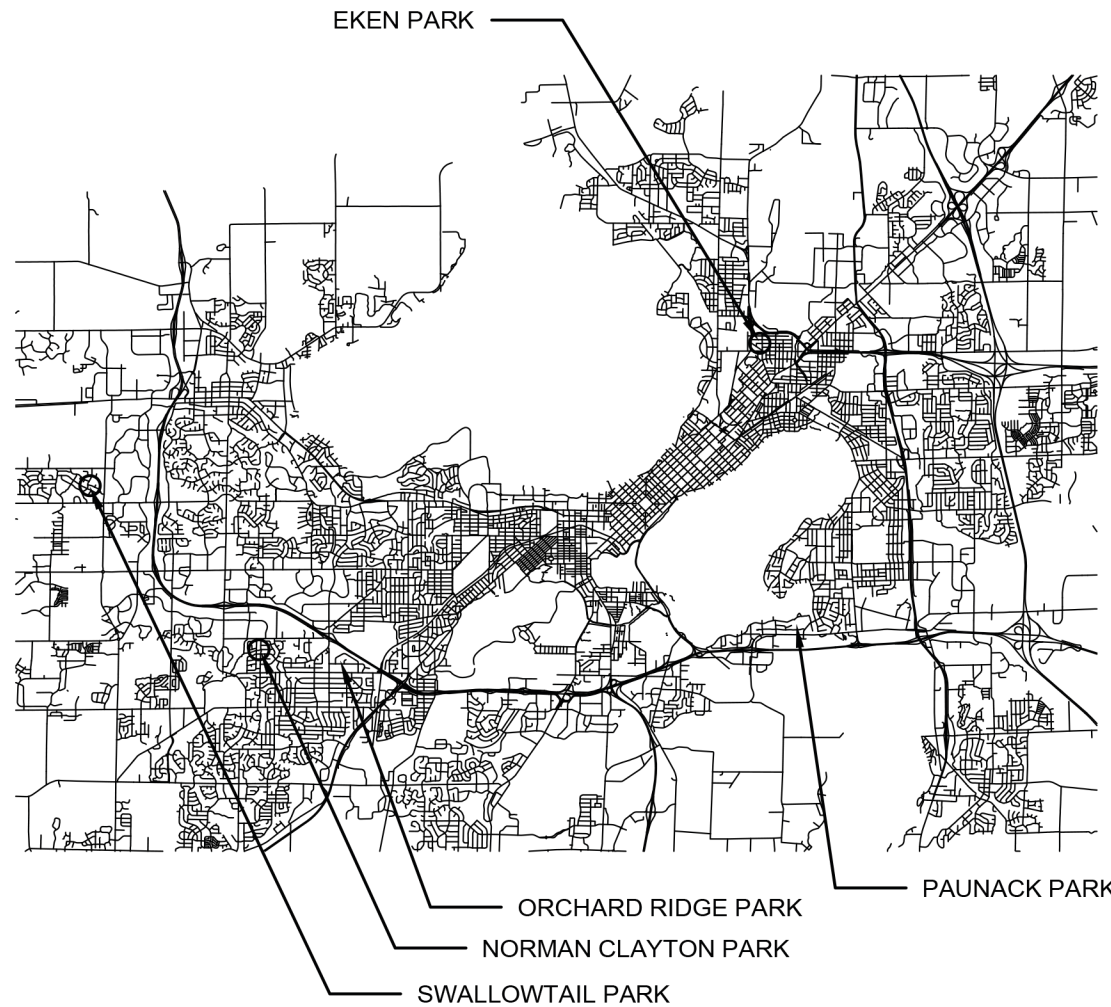


LEGEND

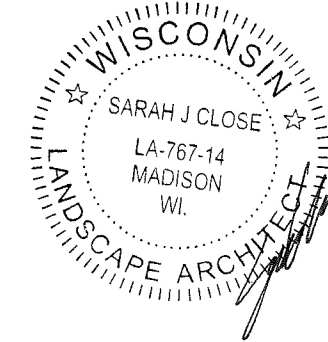
-  EX. ELECTRICAL HAND HOLE
-  EX. ELECTRICAL PEDESTAL
-  EX. TELEPHONE PEDESTAL
-  EX. TREE
-  EX. WATER HYDRANT
-  EX. WATER VALVE
-  EX. PROPERTY LINE
-  EX. EASEMENT
-  EX. FENCE LINE
-  EX. TREE LINE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. ABANDONED UTILITY
-  EX. ELECTRIC
-  EX. FIBER 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. WOOD MULCH
-  PRO. PEA GRAVEL
-  PRO. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. BOULDER RETAINING WALL
-  REMOVE EX. ASPHALT
-  REMOVE EX. TOPSOIL

2021 PLAYGROUND IMPROVEMENTS

MUNIS NOs. 13450-51-130, 13451-51-130, & 13452-51-130



DESIGNED BY:



City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703



SHEET SCHEDULE

- 1 EKEN 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 NORMAN CLAYTON 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 ORCHARD RIDGE 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
 - 3.7 Design Computations
- 4 PAUNACK PARK**
 - 4.4 Site Plan
- 5 SWALLOWTAIL PARK**
 - 5.1 Project Location and Site Access
 - 5.2 Existing Conditions
 - 5.3 Demolition and Site Plan
 - 5.4 Site Plan
 - 5.5 Grading and Erosion Control Plan
 - 5.6 Design Computations
 - 5.7 Design Computations
- 6 DETAILS**
 - 6.1 Details- Playground and Pavement Edge

PROJECT:

2021 PLAYGROUND IMPROVEMENTS

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: SC	05/14/2021

PUBLIC WORKS PROJECT #:

9026

SHEET TITLE:

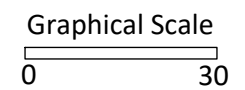
COVER SHEET

SHEET NUMBER:



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
**MADISON
 PARKS**



PROJECT:

*2021 PLAYGROUND
 IMPROVEMENTS*

PROJECT ADDRESS:

*EKEN PARK
 2407 COOLIDGE ST.
 MADISON, WI 5304*

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ITEM	DATE
ADVERTISED TO BID	2021-05-14

PUBLIC WORKS PROJECT #:

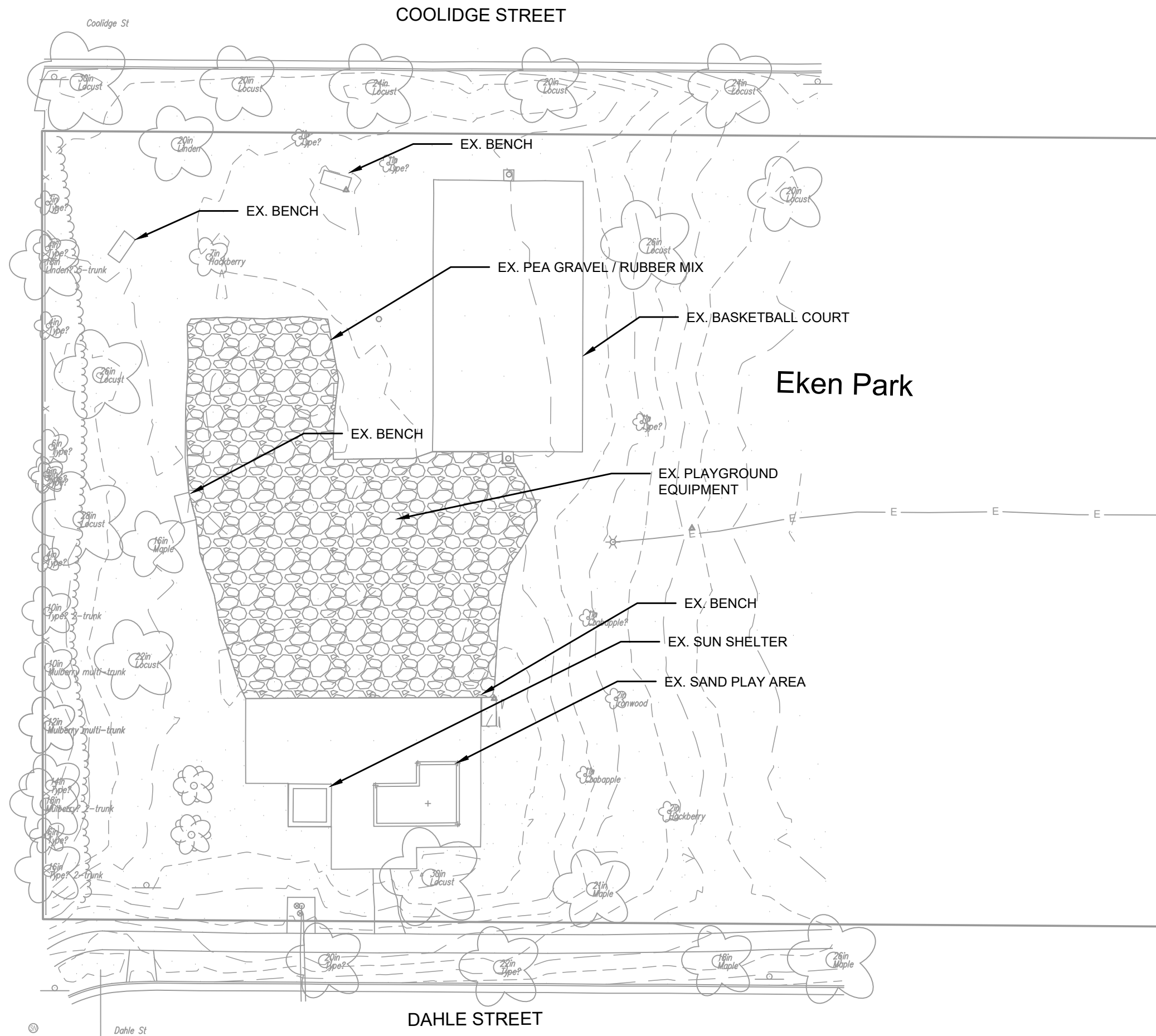
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SHEET TITLE:

*PROJECT LOCATION
 AND SITE ACCESS*

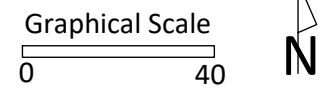
SHEET NUMBER:

1.1



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
MADISON
PARKS



PROJECT:

2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

EKEN PARK
2407 COOLIDGE ST.
MADISON, WI 5304

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ITEM	DATE
ADVERTISED TO BID	2021-05-14

PUBLIC WORKS PROJECT #:

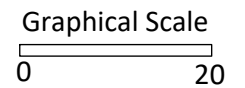
9026

SHEET TITLE:

EXISTING CONDITIONS

SHEET NUMBER:

1.2



PROJECT:

2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

EKEN PARK
2407 COOLIDGE ST.
MADISON, WI 5304

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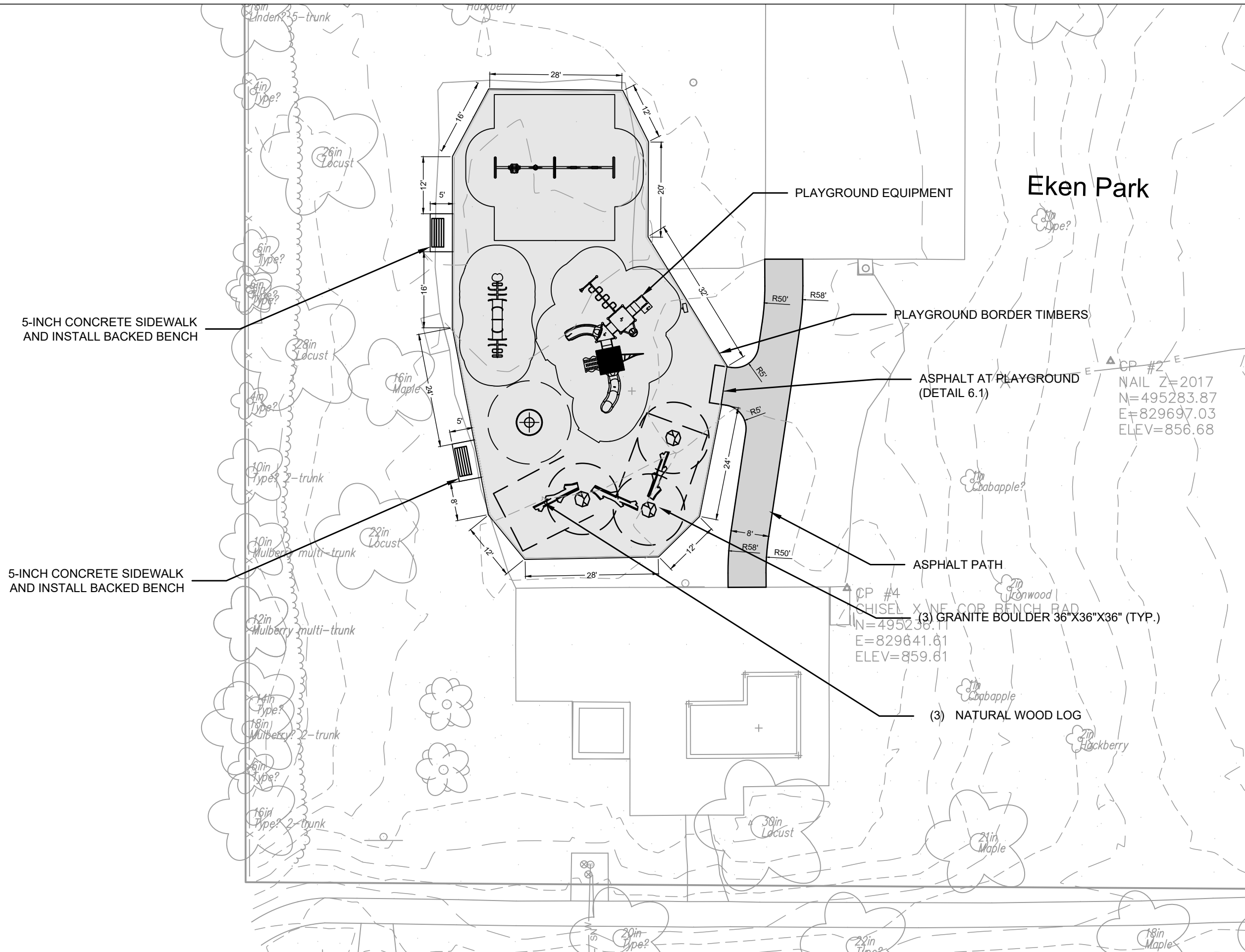
ITEM	DATE
ADVERTISED TO BID	2021-05-14

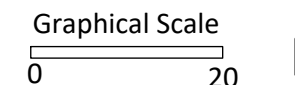
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
1.4

Eken Park





PROJECT:
**2021 PLAYGROUND
 IMPROVEMENTS**

PROJECT ADDRESS:
**EKEN PARK
 2407 COOLIDGE ST.
 MADISON, WI 5304**

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ITEM	DATE
ADVERTISED TO BID	2021-05-14

PUBLIC WORKS PROJECT #:
9026

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

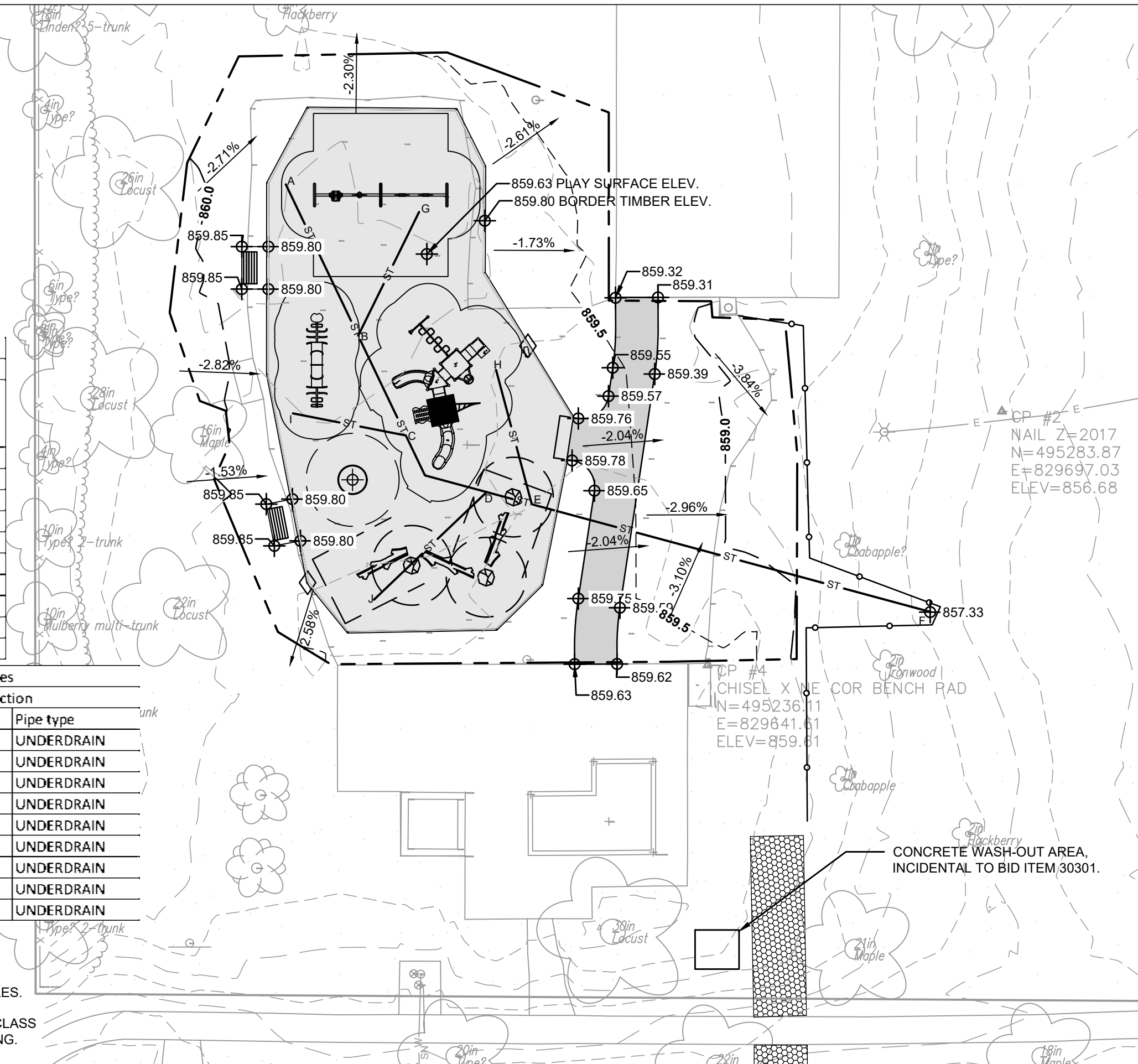
SHEET NUMBER:
1.5

Eken Park

Drain Tile Invert (Flowline) Elevations		
Point	Invert(ft)	Distance from top of timbers 859.80 (INCHES)
A	858.04	-21.12
B	857.89	-22.92
C	857.80	-24.00
D	857.72	-25.01
E	857.67	-25.56
F	857.33	-29.64
G	858.04	-21.12
H	858.04	-21.12
I	858.04	-21.12
J	858.04	-21.12

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	31.57	-0.48%	UNDERDRAIN
B	C	20.8	-0.43%	UNDERDRAIN
C	D	20.37	-0.41%	UNDERDRAIN
D	E	8.79	-0.52%	UNDERDRAIN
E	F	77.78	-0.50%	UNDERDRAIN
G	B	25.96	-0.58%	UNDERDRAIN
I	C	21.67	-1.11%	UNDERDRAIN
J	D	29.33	-1.10%	UNDERDRAIN
H	E	26.25	-1.41%	UNDERDRAIN

- NOTES**
- SEE SHEET 1.6 FOR DRAIN TILE SCHEDULES.
 - ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING.



Eken Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 4/21/2021

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
Proposed
Proposed

Sort	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 Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3762	0.50	1881	69.7	0%	69.7
	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	3762	varies	173	6.4	0%	6.4
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	3762	varies	-222	-8.2	0%	-8.2
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	3762	-0.50	-1881	-69.7	0%	-69.7
	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2380	1.42	3372	124.9	0%	124.9
	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	2380	varies	-2246	-83.2	0%	-83.2
	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	2380	-0.50	-1190	-44.1	0%	-44.1
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	4255	1.42	6028	223.3	0%	223.3
	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	4255	varies	44	1.6	0%	1.6
	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	4255	varies	-1146	-42.4	0%	-42.4
	Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	4255	-1.00	-4255	-157.6	0%	-157.6
	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	56	1.42	79	2.9	0%	2.9
	Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	56	varies	0	0.0	0%	0.0
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	56	varies	-35	-1.3	0%	-1.3
	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	56	-1.00	-56	-2.1	0%	-2.1
n/a	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a		0.50	0	0.0	0%	0.0
n/a	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in		varies		0.0	0%	0.0
n/a	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in		varies		0.0	0%	0.0
n/a	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a		-0.75	0	0.0	0%	0.0
n/a	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a		-0.25	0	0.0	0%	0.0

	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a		0.50	0	0.0	0%	0.0
	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in		varies		0.0	0%	0.0
	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in		varies		8	0.3	0%
	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a		-1.00	-12	-0.5	0%	-0.5
	Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	872	32.3	0%	32.3
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0	0.0	0%
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		-333	-12.3	0%
	Play Surface to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a		-0.75	-462	-17.1	0%	-17.1
	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a		-0.25	-154	-5.7	0%	-5.7
	Asphalt to Grass	Asphalt Excavate	Excavate 12in asphalt	n/a	n/a		1.00	0	0.0	0%	0.0
	Asphalt to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0.0
	Asphalt to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0.0
	Asphalt to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a		-0.50	0	0.0	0%	0.0
	Grass to Playsurface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a		0.50	43	1.6	0%	1.6
	Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in		varies		74	2.7	0%
	Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in		varies		0	0.0	0%
	Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a		-1.00	-86	-3.2	0%	-3.2
	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a		0.50	21	0.8	0%	0.8
	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in		varies		19	0.7	0%
	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in		varies		0	0.0	0%
	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base	n/a	n/a		-0.50	-21	-0.8	0%	-0.8
	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a		-0.42	-18	-0.7	0%	-0.7
	Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	53	2.0	0%	2.0
	Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-11in		varies		0	0.0	0%
	Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-11in		varies		-15	-0.6	0%
	Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base	n/a	n/a		-0.50	-19	-0.7	0%	-0.7
	Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a		-0.42	-16	-0.6	0%	-0.6
	Play Surface to Asphalt	Asphalt Excavate	Remove existing asphalt, estimated depth 12in	n/a	n/a		1.00	0	0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-12in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-12in	Pro-12in		varies		0.0	0%	0.0
	Asphalt to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a		-0.75	0	0.0	0%	0.0
	Asphalt to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a		-0.25	0	0.0	0%	0.0

Bid Item	Quantity	CY	Relation to Table Above
20101 Excavation Cut	84	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel/Rubber Mix	385	CY	= Play Surface Excavate
20202 Fill Borrow	136	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	681	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2	37.2	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	12.3	TONS	= Asphalt Place * 2.16 ton/cubic yard
90004 - Playground Surfacing - Wood Mulch	177	CY	= Play Surface Place*1.10

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
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Madison, WI 53703



PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:
**EKEN PARK
2407 COOLIDGE ST.
MADISON, WI 5304**

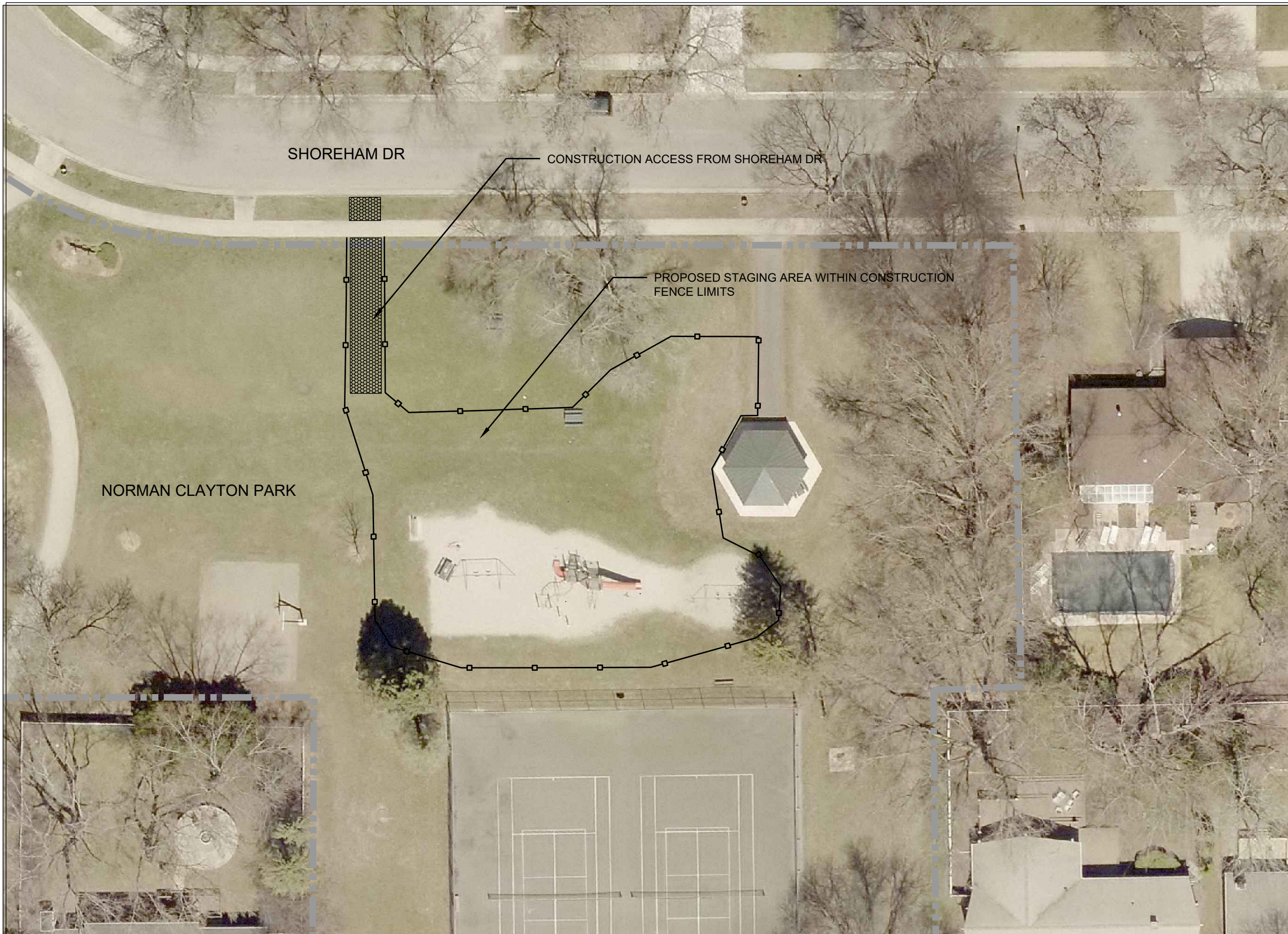
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ITEM DATE
ADVERTISED TO BID 2021-05-14

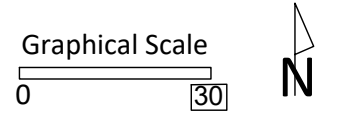
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703



PROJECT:
*2021 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:
*NORMAN CLAYTON PARK
 6401 SHOREHAM DR
 MADISON, WI 53711*

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ITEM	DATE
ADVERTISED TO BID:	05-14-2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
*PROJECT LOCATION
 AND SITE ACCESS*

SHEET NUMBER:
2.1

SHOREHAM DR

EX.LIGHT STANDARD
AND OVERHEAD WIRES

EX.TURF INLET

EX.SHELTER

EX. PLAYGROUND EQUIPMENT TO BE REMOVED
BY CITY

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale
0 20



PROJECT:

*2021 PLAYGROUND
REPLACEMENTS*

PROJECT ADDRESS:

*NORMAN CLAYTON PARK
6401 SHOREHAM DR
MADISON, WI 53711*

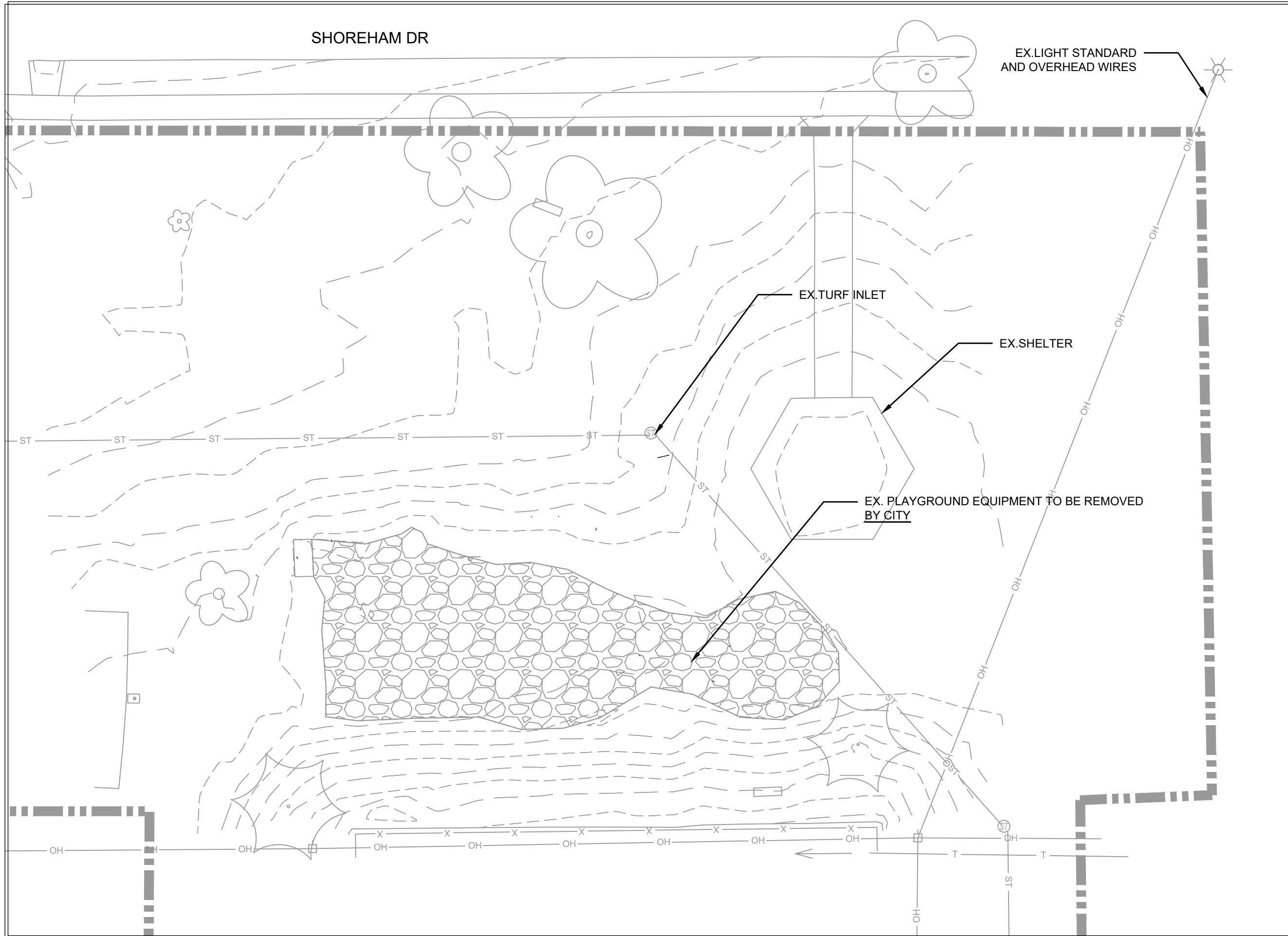
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ITEM DATE
ADVERTISED TO BID: 05-14-2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
2.2



SHOREHAM DR

CONSTRUCTION ENTRANCE

PLACE CONSTRUCTION FENCE
PRIOR TO CONSTRUCTION

EX. BENCH TO BE REMOVED

NRC

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale
0 20



PROJECT:

*2021 PLAYGROUND
REPLACEMENTS*

PROJECT ADDRESS:

*NORMAN CLAYTON PARK
6401 SHOREHAM DR
MADISON, WI 53711*

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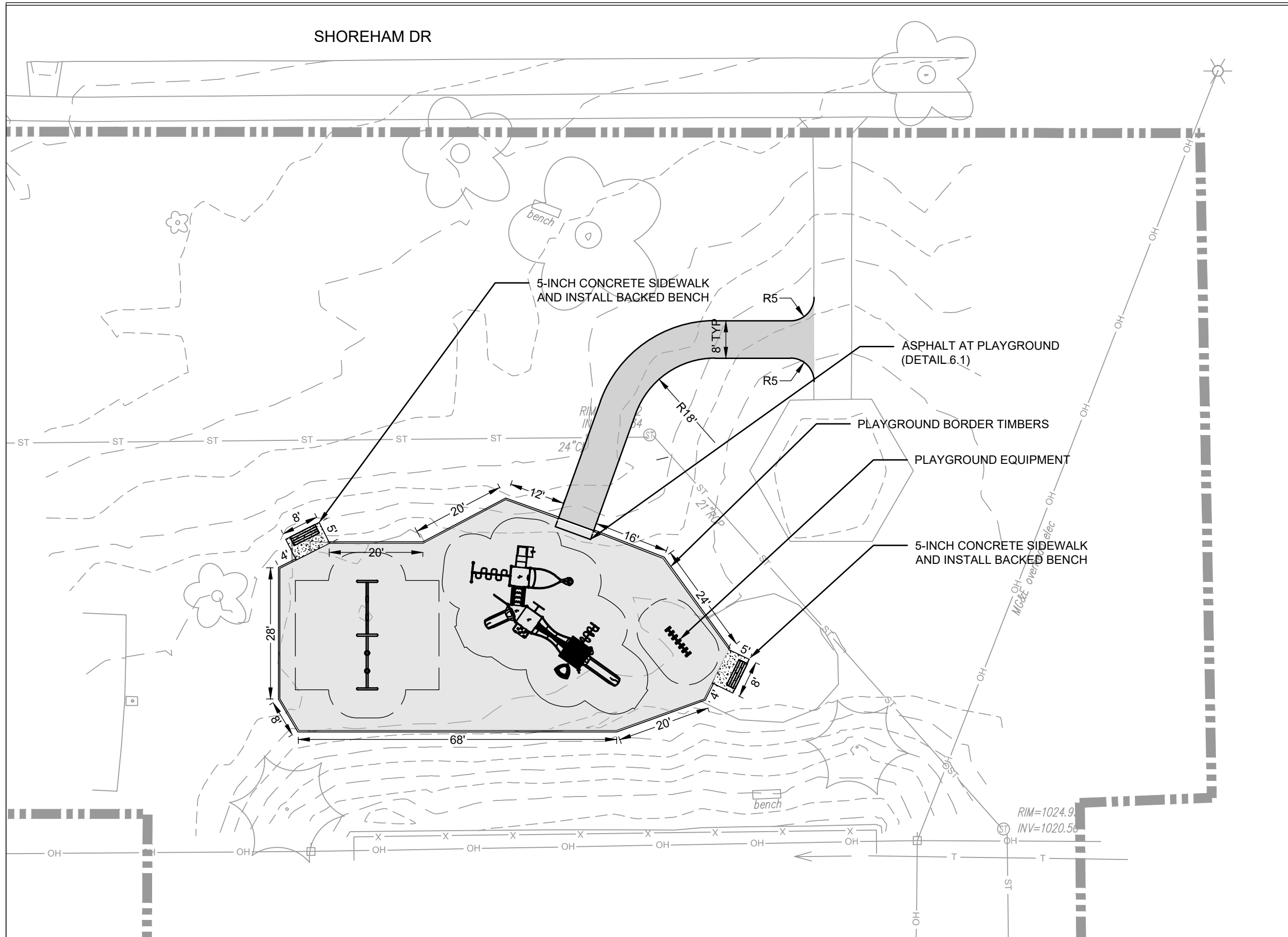
ITEM	DATE
ADVERTISED TO BID:	05-14-2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
*DEMOLITION AND
PROTECTION PLAN*

SHEET NUMBER:
2.3

SHOREHAM DR



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
**MADISON
 PARKS**

Graphical Scale
 0 20



PROJECT:

*2021 PLAYGROUND
 REPLACEMENTS*

PROJECT ADDRESS:

*NORMAN CLAYTON PARK
 6401 SHOREHAM DR
 MADISON, WI 53711*

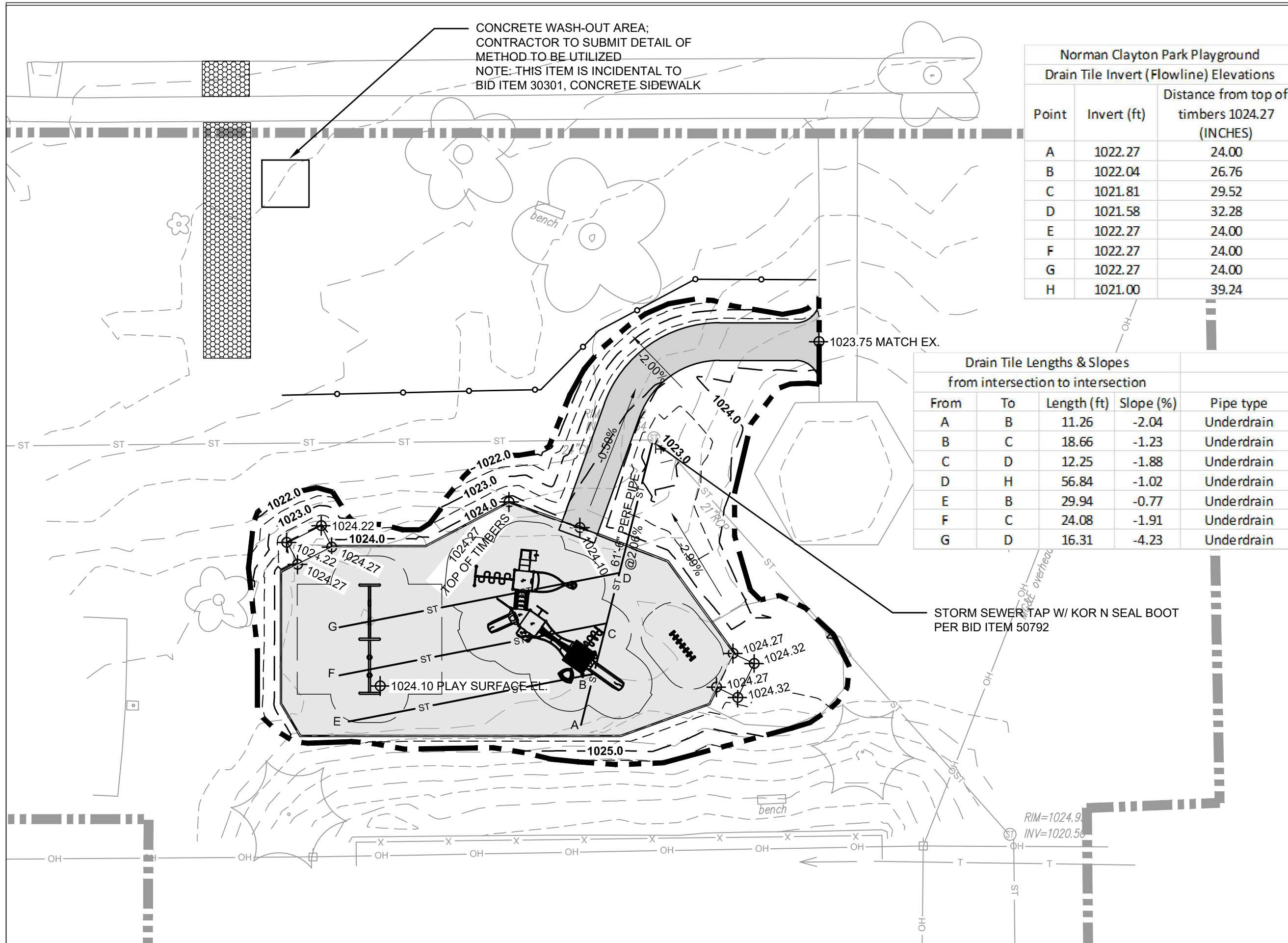
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ITEM	DATE
ADVERTISED TO BID:	05-14-2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.4

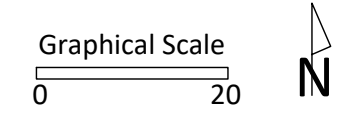


CONCRETE WASH-OUT AREA;
 CONTRACTOR TO SUBMIT DETAIL OF
 METHOD TO BE UTILIZED
 NOTE: THIS ITEM IS INCIDENTAL TO
 BID ITEM 30301, CONCRETE SIDEWALK

Norman Clayton Park Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1024.27 (INCHES)
A	1022.27	24.00
B	1022.04	26.76
C	1021.81	29.52
D	1021.58	32.28
E	1022.27	24.00
F	1022.27	24.00
G	1022.27	24.00
H	1021.00	39.24

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	11.26	-2.04	Underdrain
B	C	18.66	-1.23	Underdrain
C	D	12.25	-1.88	Underdrain
D	H	56.84	-1.02	Underdrain
E	B	29.94	-0.77	Underdrain
F	C	24.08	-1.91	Underdrain
G	D	16.31	-4.23	Underdrain

City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703



PROJECT:
**2021 PLAYGROUND
 REPLACEMENTS**

PROJECT ADDRESS:
**NORMAN CLAYTON PARK
 6401 SHOREHAM 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: 05-14-2021

PUBLIC WORKS PROJECT #:
9026

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

SHEET NUMBER:
2.5

Norman Clayton Park Playground - Earthwork Quantities										
City of Madison, WI Public Works Contract										
Date Revised: 5-8-2021										
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	NormanClayton_Survey2020-11-03.dwg									
Proposed	2021 NormanClayton_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)
Concrete to Concrete	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	13	0.42	6	0.2	0%	0.2
Concrete to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-5in	Pro-11in	13	varies	0	0.0	0%	0.0
Concrete to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-5in	Pro-11in	13	varies	-2	-0.1	0%	-0.1
Concrete to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	13	-0.50	-7	-0.2	0%	-0.2
Concrete to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	13	-0.42	-5	-0.2	0%	-0.2
Concrete to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	0	-0.42	0	0.0	0%	0.0
Concrete to Play Surface	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	18	0.42	7	0.3	0%	0.3
Concrete to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-5in	Pro-12in	18	varies	0	0.0	0%	0.0
Concrete to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-5in	Pro-12in	18	varies	-21	-0.8	0%	-0.8
Concrete to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	18	-1.00	-18	-0.7	0%	-0.7
Concrete to Timbers	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	2	0.50	1	0.0	0%	0.0
Concrete to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-5in	Pro-12in	2	varies	0	0.0	0%	0.0
Concrete to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-5in	Pro-12in	2	varies	-4	-0.2	0%	-0.2
Concrete to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	2	-1.00	-2	-0.1	0%	-0.1
Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	667	0.50	334	12.4	0%	12.4
Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	667	varies	42	1.6	0%	1.6
Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	667	varies	-472	-17.5	0%	-17.5
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	667	-0.75	-500	-18.5	0%	-18.5
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	667	-0.25	-167	-6.2	0%	-6.2
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	30	0.50	15	0.6	0%	0.6
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	30	varies	0	0.0	0%	0.0
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	30	varies	-9	-0.3	0%	-0.3
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	30	-0.50	-15	-0.6	0%	-0.6
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	22	-0.42	-9	-0.3	0%	-0.3
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	8	-0.42	-4	-0.1	0%	-0.1
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2813	0.50	1407	52.1	0%	52.1
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	2813	varies	52	1.9	0%	1.9
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	2813	varies	-337	-12.5	0%	-12.5
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	2813	-0.50	-1407	-52.1	0%	-52.1

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 Playsurface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1043	0.50	521	19.3	0%	19.3
Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1043	varies	2	0.1	0%	0.1
Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1043	varies	-1049	-38.8	0%	-38.8
Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1043	-1.00	-1043	-38.6	0%	-38.6
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	64	0.50	32	1.2	0%	1.2
Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	64	varies	20	0.7	0%	0.7
Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	64	varies	-13	-0.5	0%	-0.5
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	64	-1.00	-64	-2.4	0%	-2.4
Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	59	1.42	84	3.1	0%	3.1
Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	59	varies	0	0.0	0%	0.0
Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	59	varies	-46	-1.7	0%	-1.7
Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	59	-0.50	-30	-1.1	0%	-1.1
Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	45	-0.42	-19	-0.7	0%	-0.7
Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	14	-0.42	-6	-0.2	0%	-0.2
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	544	1.42	771	28.5	0%	28.5
Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	544	varies	0	0.0	0%	0.0
Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	544	varies	-547	-20.2	0%	-20.2
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	544	-0.50	-272	-10.1	0%	-10.1
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2602	1.42	3686	136.5	0%	136.5
Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	2602	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2602	varies	-4922	-182.3	0%	-182.3
Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	2602	-1.00	-2602	-96.4	0%	-96.4
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	7	1.42	10	0.4	0%	0.4
Play Surface to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	7	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	7	varies	-6	-0.2	0%	-0.2
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	7	-1.00	-7	-0.3	0%	-0.3

Norman Clayton Park Playground - Earthwork Quantities										
City of Madison, WI Public Works Contract 9026										
Date Revised: 5/8/2021										
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	-6.2									
Border Timbers Place (placeholder volume)	-2.7									
Gravel (for Pavement) Place	-20.4									
Play Surface Excavate	168.6									
Play Surface Place	-135.7									
Subsoil Excavate	2.7									
Subsoil Place	-273.5									
Topsoil Excavate	85.5									
Topsoil Place	-62.5									
Concrete Place	-1.2									
Concrete Excavate	0.5									
Grand Total	-244.9									

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	88	CY	Topsoil Excavate+Asphalt
20103 Excavation Cut - Pea Gravel	169	CY	= Play Surface Excavate
20202 Fill Borrow	271	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	374	SY	= (Topsoil Place)*-167
40102 Crushed Aggregate Base Course Gradation No. 2	41	tons	= (Gravel for Pavement Place)* -2 ton/cubic
40202 HMA Pavement 4 LT 58-28 S	13	tons	= Asphalt Place * -2.16 ton/cubic yard
90004 Playground Surfacing - Wood Mulch	149	CY	= Play Surface Place * -1.10

City of Madison
Department of Public Works
PARKS DIVISION
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Madison, WI 53703



PROJECT:

2021 PLAYGROUND REPLACEMENTS

PROJECT ADDRESS:

**NORMAN CLAYTON PARK
6401 SHOREHAM DR
MADISON, WI 53711**

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ITEM DATE
ADVERTISED TO BID: 05-14-2021

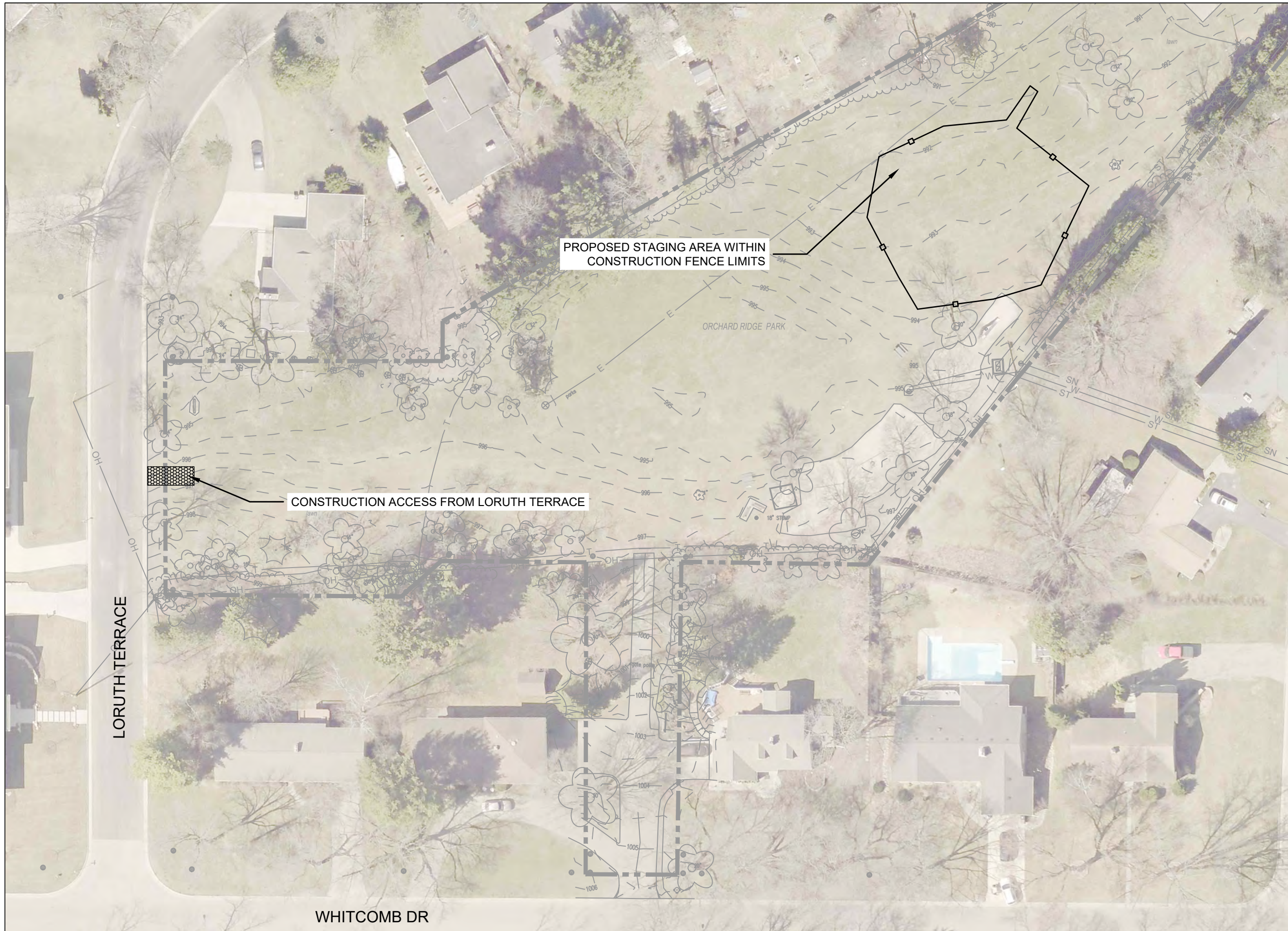
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:

DESIGN COMPUTATIONS

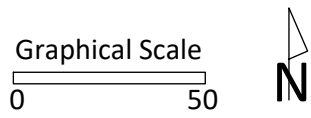
SHEET NUMBER:

2.6



City of Madison
 Department of Public Works
PARKS DIVISION
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 Madison, WI 53703

play
**MADISON
 PARKS**



PROJECT:
**2021 PLAYGROUND
 IMPROVEMENTS**

PROJECT ADDRESS:
**ORCHARD RIDGE
 PARK
 5214 WHITCOMB DR.
 MADISON, WI 53711**

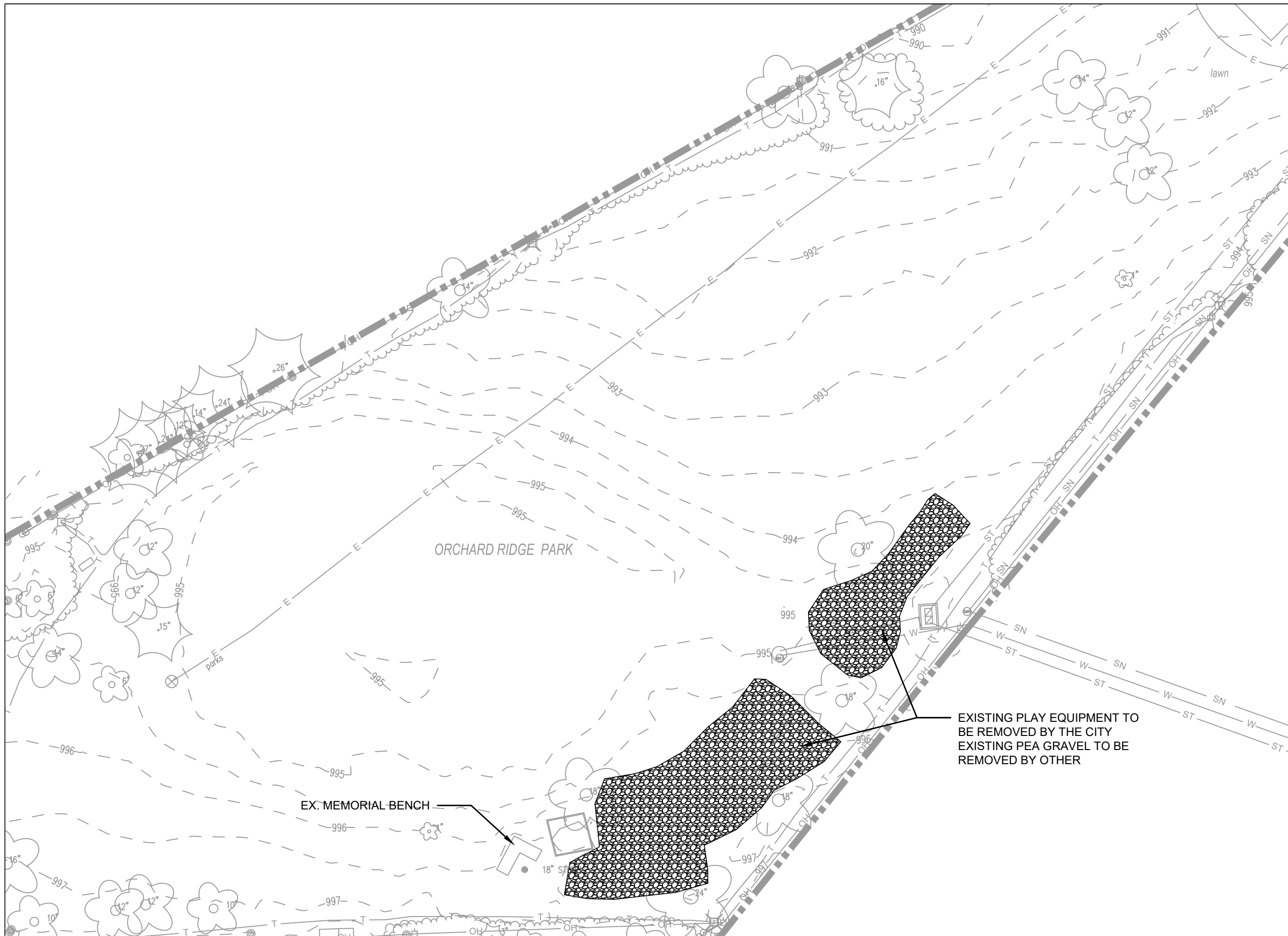
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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

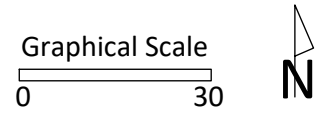
SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

SHEET NUMBER:
3.1



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



PROJECT:
**2021 PLAYGROUND
 IMPROVEMENTS**

PROJECT ADDRESS:
**ORCHARD RIDGE
 PARK
 5214 WHITCOMB DR.
 MADISON, WI 53711**

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ITEM	DATE
ADVERTISED TO BID	05/14/2021

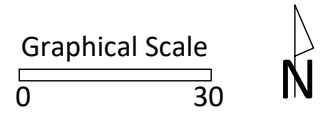
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
3.2



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
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 Madison, WI 53703



PROJECT:
**2021 PLAYGROUND
 IMPROVEMENTS**

PROJECT ADDRESS:
**ORCHARD RIDGE
 PARK
 5214 WHITCOMB DR.
 MADISON, WI 53711**

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ITEM	DATE
ADVERTISED TO BID	06/03/2021

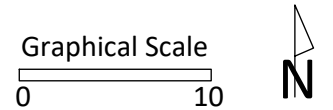
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
3.3

City of Madison
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PARKS DIVISION
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PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:
ORCHARD RIDGE PARK
5214 WHITCOMB DR.
MADISON, WI 53711

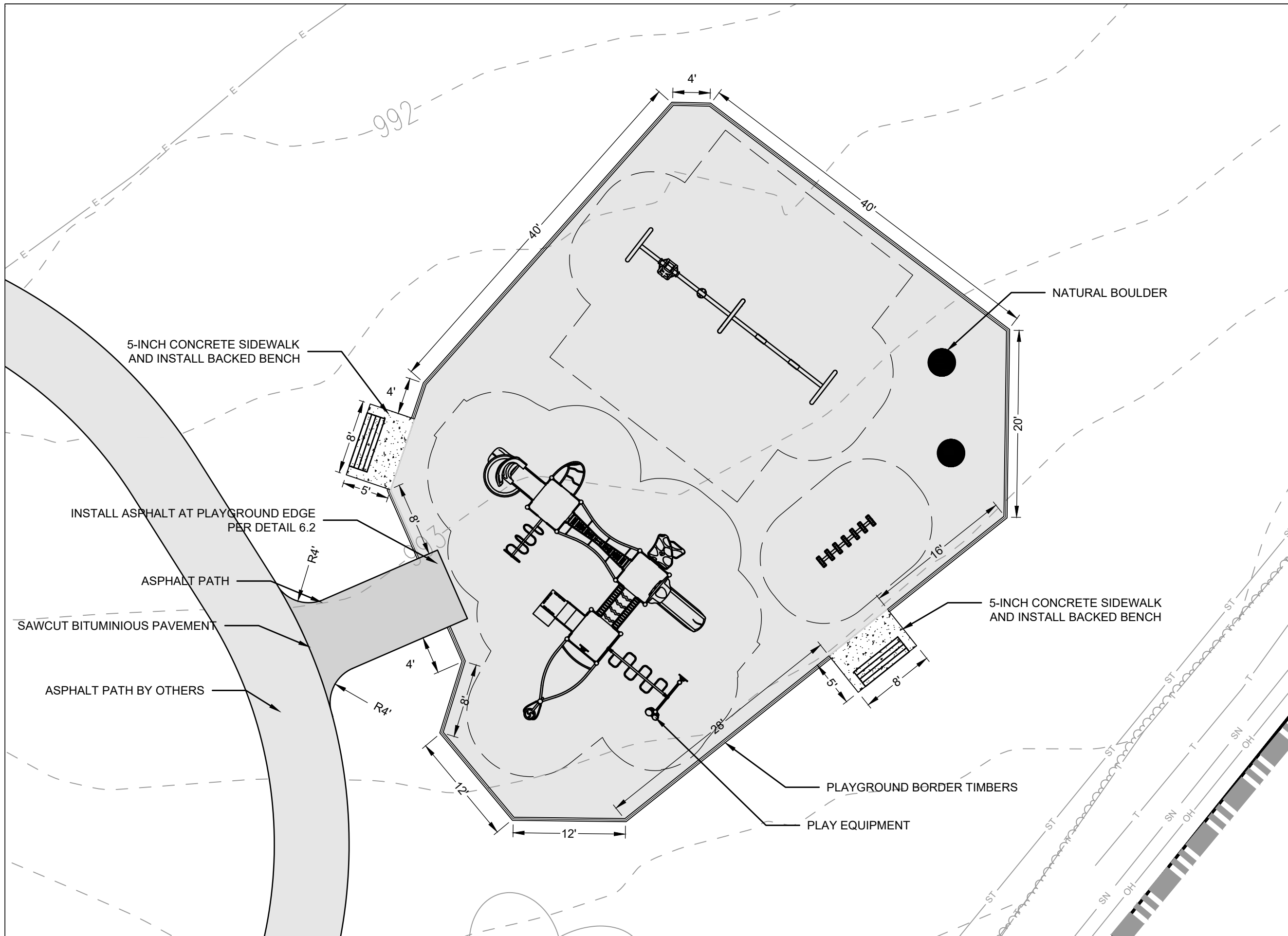
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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

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 TO
BID ITEM 30301, CONCRETE SIDEWALK

ASPHALT PATH BY OTHERS

Orchard Ridge Park		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 993.90' (INCHES)
A	992.15	-21.00
B	992.08	-21.89
C	991.95	-23.46
D	991.64	-27.12
E	991.50	-28.80
F	992.15	-21.00
G	992.15	-21.00
H	992.15	-21.00

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	14.12	-0.52%	UNDERDRAIN
B	C	14.69	-0.89%	UNDERDRAIN
C	D	17.41	-1.75%	UNDERDRAIN
D	E	40.43	-0.35%	UNDERDRAIN
B	F	39.29	-0.19%	UNDERDRAIN
C	G	39.98	-0.51%	UNDERDRAIN
D	H	40.66	-1.25%	UNDERDRAIN
Total		206.58		

City of Madison
Department of Public Works
PARKS DIVISION
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Madison, WI 53703

play
MADISON
PARKS

Graphical Scale
0 20



PROJECT:

**2021 PLAYGROUND
IMPROVEMENTS**

PROJECT ADDRESS:

**ORCHARD RIDGE
PARK
5214 WHITCOMB DR.
MADISON, WI 53711**

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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

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

SHEET NUMBER:
3.5

Sort	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)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	3758.48	0.50	1879.24	69.6	0%	69.6
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	3758.48	varies	0.14	0.0	0%	0.0
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	3758.48	varies	-1801.29	-66.7	0%	-66.7
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	3758.48	-0.50	-1879.24	-69.6	0%	-69.6
2.1	Grass to play surface	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	3181.83	0.50	1590.92	58.9	0%	58.9
2.2	Grass to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-14 inch	3181.83	varies	370.21	13.7	0%	13.7
2.3	Grass to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-14 inch	3181.83	varies	-446.13	-16.5	0%	-16.5
2.4	Grass to play surface	Play Surface Place (Wood Mulch)	Place 14" of rubber mulch	n/a	n/a	3181.83	-1.17	-3712.14	-137.5	0%	-137.5
3.1	Grass to Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	481.41	0.50	240.71	8.9	0%	8.9
3.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	134.69	varies	0.00	0.0	0%	0.0
3.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	134.69	varies	-17.67	-0.7	0%	-0.7
3.4	Grass to Asphalt	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	134.69	-0.75	-101.02	-3.7	0%	-3.7
3.5	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	134.69	-0.25	-33.67	-1.2	0%	-1.2
4.1	Grass to Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	98.43	0.50	49.22	1.8	0%	1.8
4.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	98.43	varies	7.61	0.3	0%	0.3
4.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	98.43	varies	-38.42	-1.4	0%	-1.4
4.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	na	98.43	-1.00	-98.43	-3.6	0%	-3.6
5.1	Grass to 5-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	80.00	0.50	40.00	1.5	0%	1.5
5.2	Grass to 5-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-8inch	80.00	varies	0.00	0.0	0%	0.0
5.3	Grass to 5-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-8inch	80.00	varies	-37.75	-1.4	0%	-1.4
5.4	Grass to 5-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	80.00	-0.41	-32.80	-1.2	0%	-1.2
5.5	Grass to 5-inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	80.00	-0.25	-20.00	-0.7	0%	-0.7
6	Adjust	Play Surface Place (Wood Mulch)	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in)	n/a	n/a	31	-0.29	-9	-0.3	0%	-0.3

City of Madison
Department of Public Works
PARKS DIVISION
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PROJECT:

2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

ORCHARD RIDGE PARK
5214 WHITCOMB 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	06/03/2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
3.6

Computation Summary

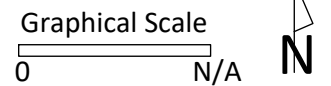
Positive volumes are cuts (material available), negative volumes

Row Labels	Sum of Factored (Uncom-pacted) Volume (cu yd)
Asphalt Place	-1.25
Border Timbers Place (placeholder volume)	-3.65
Concrete Place	-1.21
Gravel Place (Concrete)	-0.74
Gravel Place (pavement)	-3.74
Play Surface Place (Wood Mulch)	-137.82
Subsoil Excavate	14.00
Subsoil Place	-86.71
Topsoil Excavate	140.74
Topsoil Place	-69.60
Grand Total	-149.98

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	155	CY	= Subsoil Excavate + Topsoil Excavate + Pavement Excavate + Concrete Excavate
20202 Fill - Borrow	73	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	417	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	7	tons	= ((Gravel Place) pavement) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	2.7	tons	= Asphalt Place * -2.16 ton/cubic yard
90005 Playground Surfacing - Rubber Mulch	165.4	CY	= Play Surface Place (Wood Mulch * -1.2)

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 Department of Public Works
PARKS DIVISION
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 Madison, WI 53703



PROJECT:

2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

*ORCHARD RIDGE PARK
 5214 WHITCOMB 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.

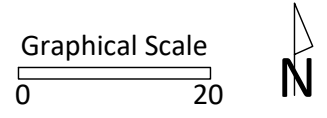
ITEM	DATE
ADVERTISED TO BID	06/03/2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
3.7

City of Madison
 Department of Public Works
PARKS DIVISION
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 Madison, WI 53703



PROJECT:
**2021 PAUNACK PARK
 PLAYGROUND
 IMPROVEMENTS**

PROJECT ADDRESS:
**PAUNACK (A.O.) PARK
 6399 BRIDGE RD
 MADISON, WI 53713**

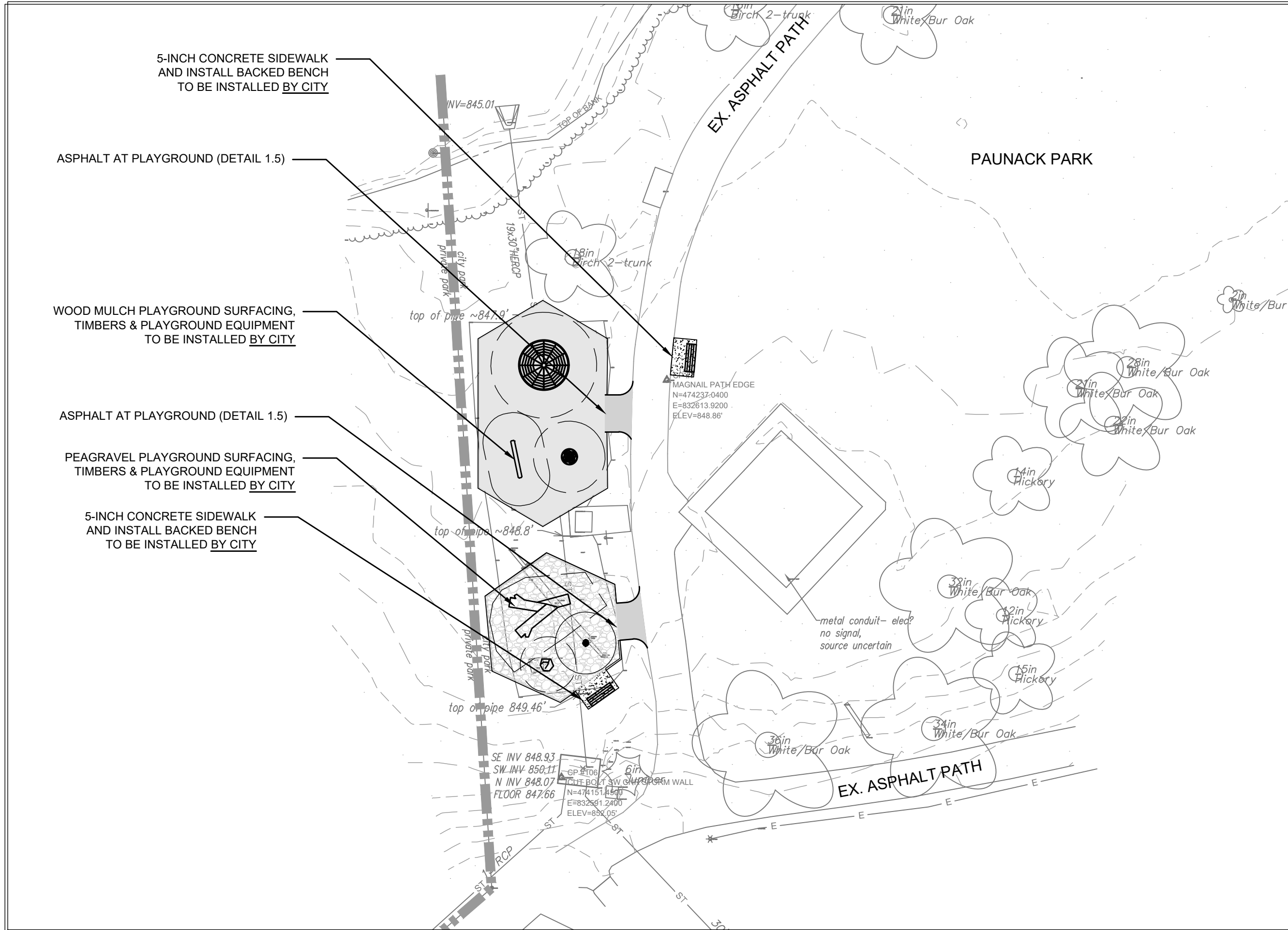
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ITEM	DATE

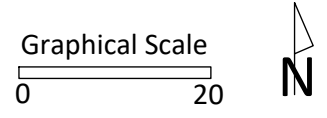
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.4



City of Madison
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PARKS DIVISION
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 Madison, WI 53703



PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:
**SWALLOWTAIL PARK
 901 SWALLOWTAIL DR
 MADISON, WI 53717**

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	05/14/2021

PUBLIC WORKS PROJECT #:
9026

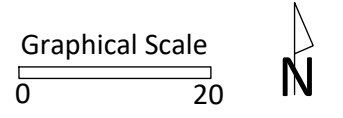
SHEET TITLE:
PROJECT LOCATION AND SITE ACCESS

SHEET NUMBER:
5.1



City of Madison
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PARKS DIVISION
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play
**MADISON
 PARKS**



PROJECT:
**2021 PLAYGROUND
 IMPROVEMENTS**

PROJECT ADDRESS:
**SWALLOWTAIL PARK
 901 SWALLOWTAIL
 DR
 MADISON, WI 53717**

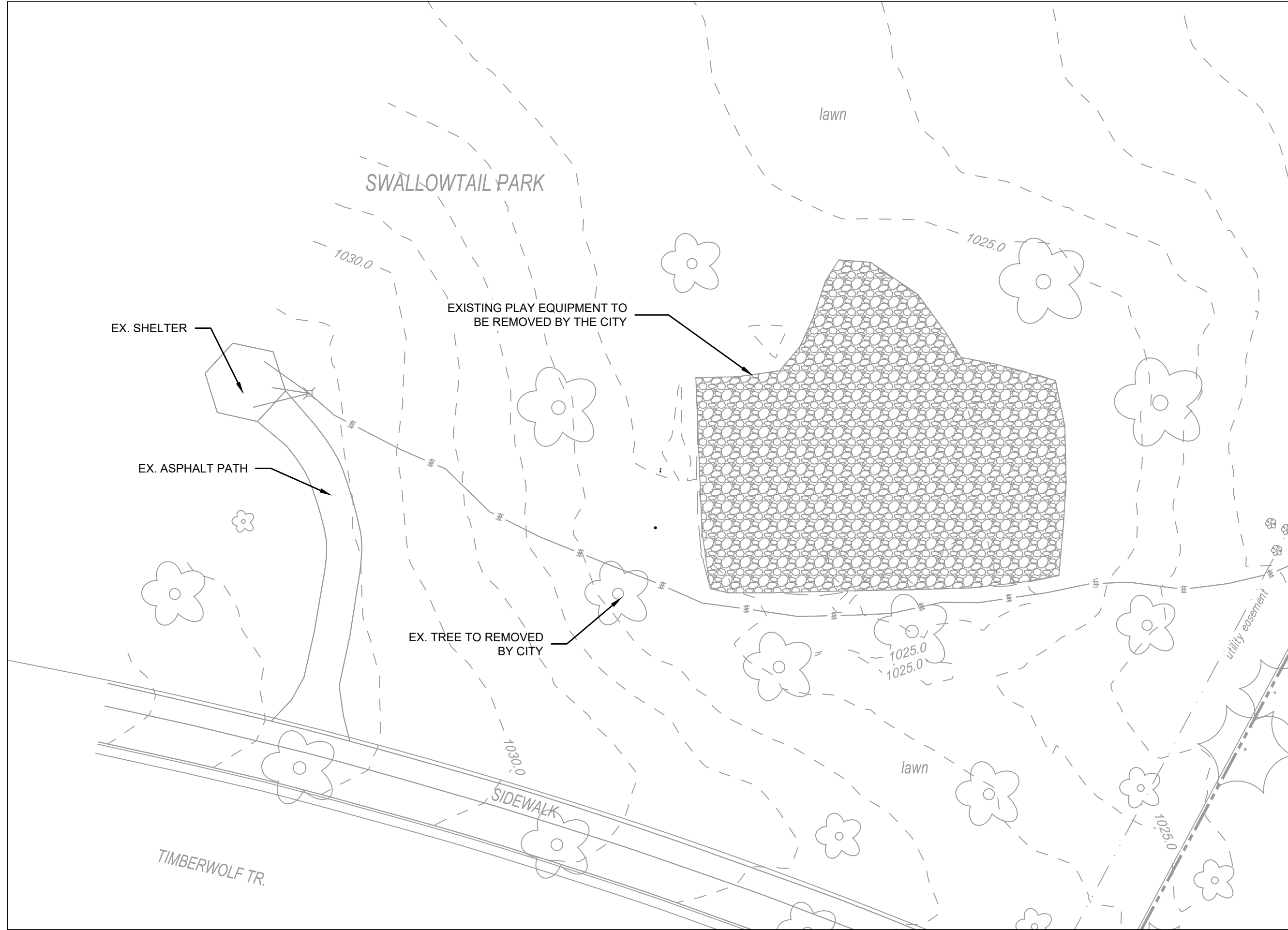
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ITEM	DATE
ADVERTISED TO BID	05/14/2021

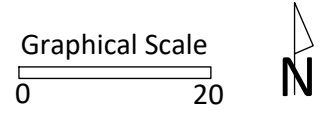
PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
5.2



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PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:
**SWALLOWTAIL PARK
 901 SWALLOWTAIL DR
 MADISON, WI 53717**

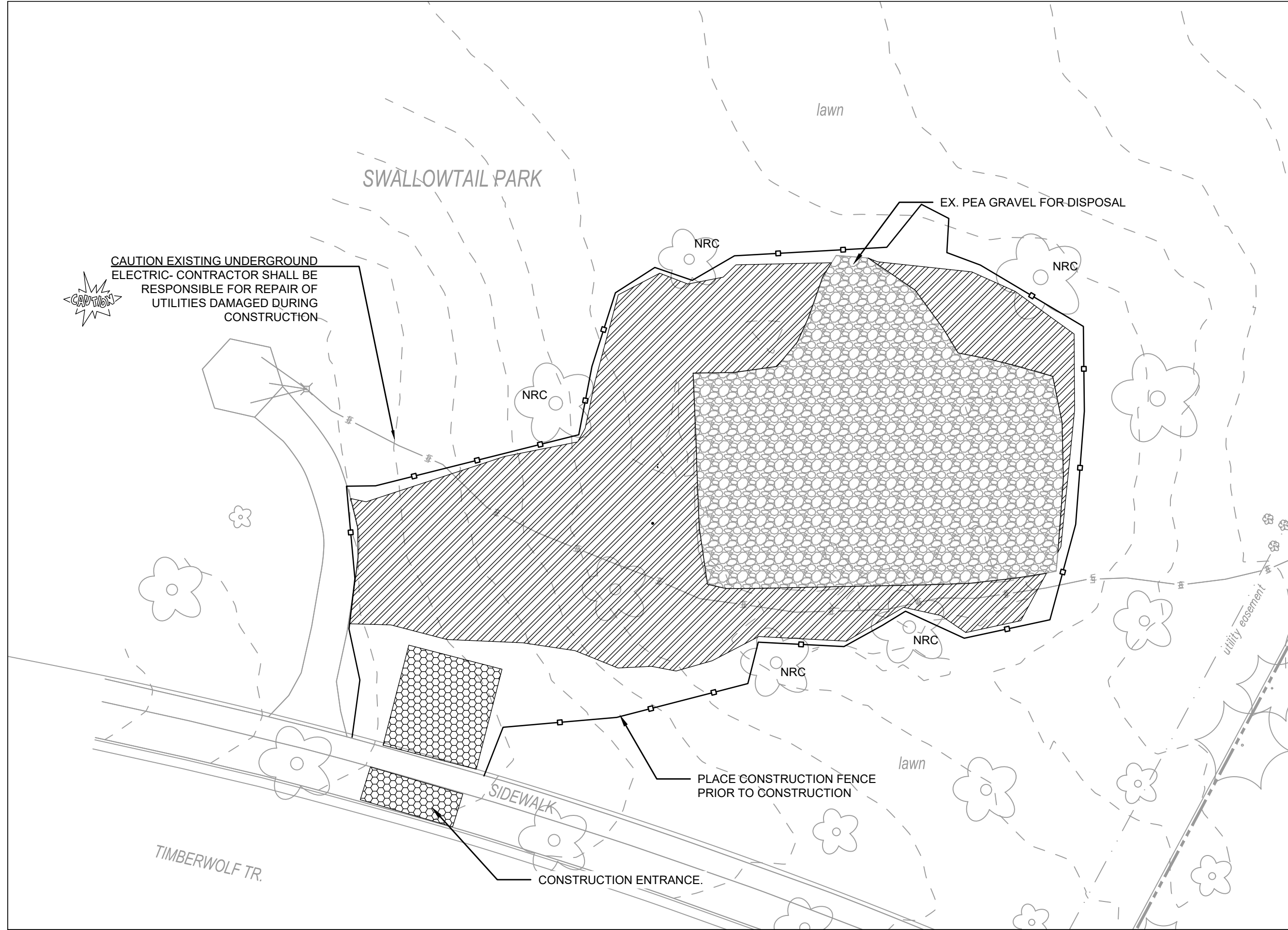
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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

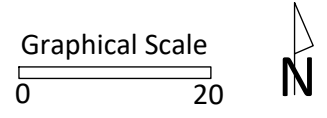
SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
5.3



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MADISON
PARKS



PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:
SWALLOWTAIL PARK
901 SWALLOWTAIL
DR
MADISON, WI 53717

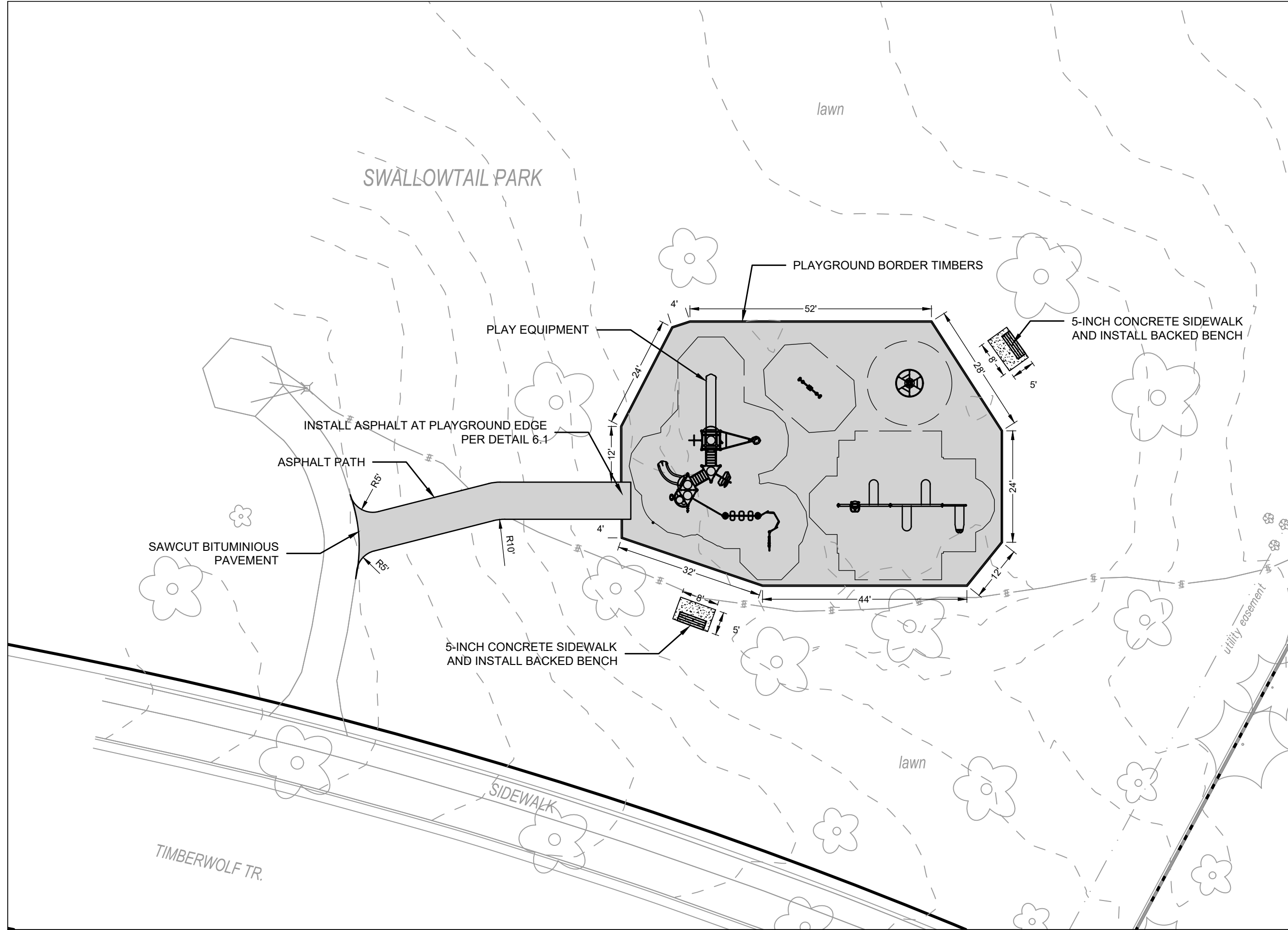
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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
5.4



NOTES

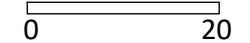
1.) ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING.

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703



Graphical Scale



PROJECT:

2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

**SWALLOWTAIL PARK
901 SWALLOWTAIL
DR
MADISON, WI 53717**

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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

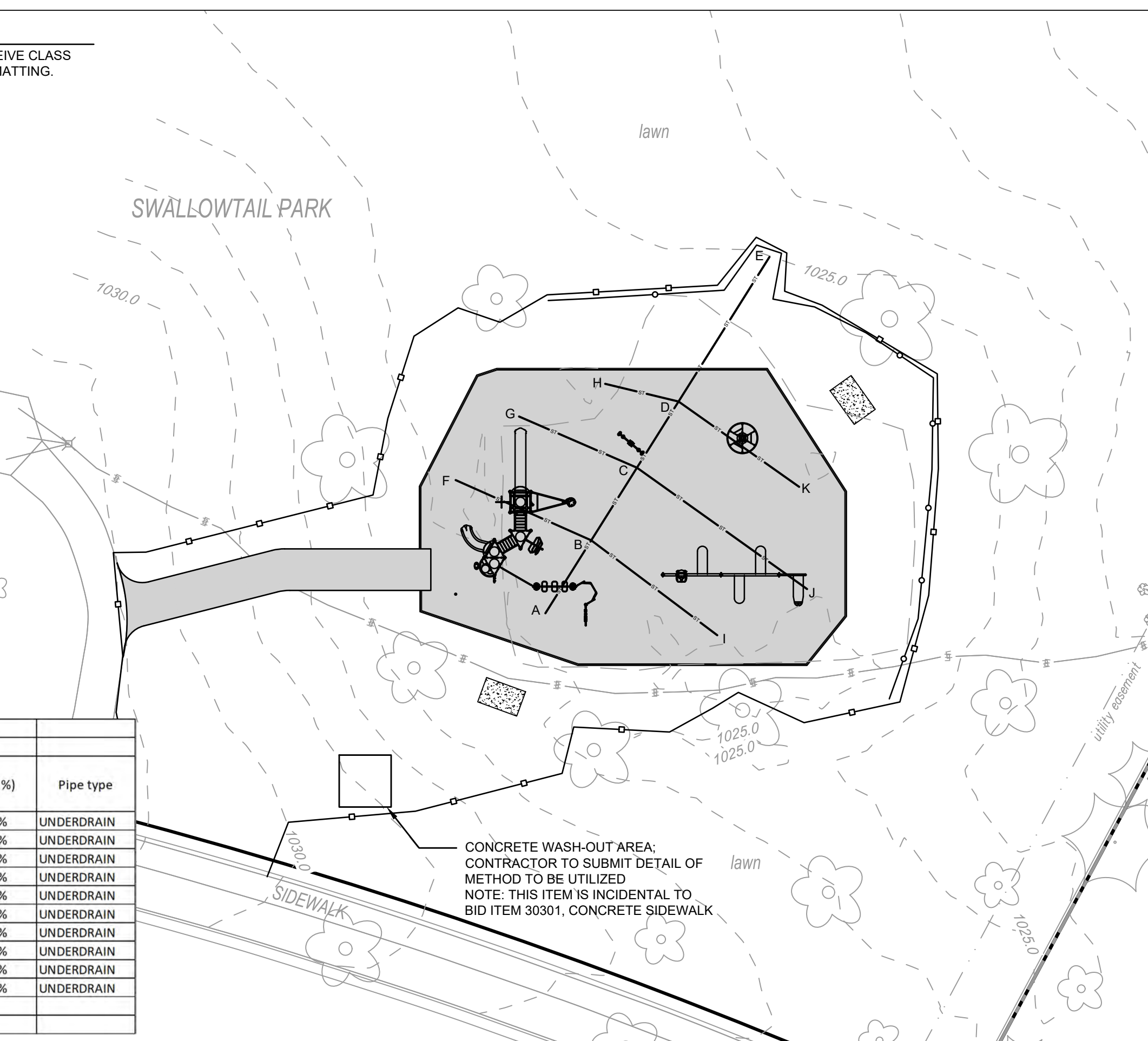
SHEET TITLE:
**GRADING AND
EROSION CONTROL
PLAN**

SHEET NUMBER:

5.5

Swallowtail Park Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1028.32' (INCHES)
A	1026.32	-24.00
B	1026.05	-27.24
C	1025.78	-30.48
D	1025.53	-33.48
E	1025.00	-39.84
F	1026.32	-24.00
G	1026.32	-24.00
H	1026.32	-24.00
I	1026.32	-24.00
J	1026.32	-24.00
K	1026.32	-24.00

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	16.59	-1.63%	UNDERDRAIN
B	C	16.52	-1.63%	UNDERDRAIN
C	D	15.05	-1.66%	UNDERDRAIN
D	E	32.87	-1.61%	UNDERDRAIN
B	I	30.37	-0.89%	UNDERDRAIN
B	F	28.57	-0.95%	UNDERDRAIN
C	G	24.75	-2.18%	UNDERDRAIN
C	J	40.22	-1.34%	UNDERDRAIN
D	K	28.44	-2.78%	UNDERDRAIN
D	H	14.54	-5.43%	UNDERDRAIN
	Total	247.92		



CONCRETE WASH-OUT AREA;
CONTRACTOR TO SUBMIT DETAIL OF
METHOD TO BE UTILIZED
NOTE: THIS ITEM IS INCIDENTAL TO
BID ITEM 30301, CONCRETE SIDEWALK

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	4023.35	0.50	2011.68	74.5	0%	74.5
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	4023.35	varies	0.01	0.0	0%	0.0
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	4023.35	varies	-3561.90	-131.9	0%	-131.9
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	4023.35	-0.50	-2011.68	-74.5	0%	-74.5
2.1	Grass to play surface	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	806.70	0.50	403.35	14.9	0%	14.9
2.2	Grass to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-14 inch	806.70	varies	0.00	0.0	0%	0.0
2.3	Grass to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-14 inch	806.70	varies	-1214.41	-45.0	0%	-45.0
2.4	Grass to play surface	Play Surface Place (Rubber Mulch)	Place 14" of rubber mulch	n/a	n/a	806.70	-1.17	-941.15	-34.9	0%	-34.9
3.1	Grass to Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	481.41	0.50	240.71	8.9	0%	8.9
3.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	481.41	varies	18.39	0.7	0%	0.7
3.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	481.41	varies	-250.44	-9.3	0%	-9.3
3.4	Grass to Asphalt	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	481.41	-0.75	-361.06	-13.4	0%	-13.4
3.5	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	481.41	-0.25	-120.35	-4.5	0%	-4.5
4.1	Grass to Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	45.37	0.50	22.69	0.8	0%	0.8
4.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	45.37	varies	0.00	0.0	0%	0.0
4.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	45.37	varies	-81.78	-3.0	0%	-3.0
4.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	na	45.37	-1.00	-45.37	-1.7	0%	-1.7
5.1	Grass to 5-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	77.21	0.50	38.61	1.4	0%	1.4
5.2	Grass to 5-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	77.21	varies	0.00	0.0	0%	0.0
5.3	Grass to 5-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	77.21	varies	-95.63	-3.5	0%	-3.5
5.4	Grass to 5-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	77.21	-0.41	-31.66	-1.2	0%	-1.2
5.5	Grass to 5-inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	77.21	-0.25	-19.30	-0.7	0%	-0.7
6.1	Play surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17 in	n/a	n/a	958.01	1.42	1357.18	50.3	0%	50.3
6.2	Play surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	958.01	varies	0.00	0.0	0%	0.0
6.3	Play surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	958.01	varies	-2390.38	-88.5	0%	-88.5
6.4	Play surface to Grass	Topsoil Place	Place 6" of topsoil	n/a	n/a	958.01	-0.50	-479.01	-17.7	0%	-17.7

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
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Madison, WI 53703



Graphical Scale
0 N/A



PROJECT:

2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

**SWALLOWTAIL PARK
901 SWALLOWTAIL DR
MADISON, WI 53717**

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ITEM DATE
ADVERTISED TO BID 05/14/2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
5.6

Sort	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)
7.1	Play surface to play surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	3231.08	1.42	4577.36	169.5	0%	169.5
7.2	Play surface to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-14 inch	3231.08	varies	0.00	0.0	0%	0.0
7.3	Play surface to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-14 inch	3231.08	varies	-8435.67	-312.4	0%	-312.4
7.4	Play surface to play surface	Play Surface Place (Rubber Mulch)	Place 14in rubber mulch play surface	n/a	n/a	3231.08	-1.17	-3780.36	-140.0	0%	-140.0
8.1	Play surface to timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	75.45	1.42	106.89	4.0	0%	4.0
8.2	Play surface to timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	75.45	varies	0.00	0.0	0%	0.0
8.3	Play surface to timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	75.45	varies	-215.15	-8.0	0%	-8.0
8.4	Play surface to timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	75.45	-1.00	-75.45	-2.8	0%	-2.8
9.1	Play surface to 5" Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17 in	n/a	n/a	2.64	1.42	3.74	0.1	0%	0.1
9.2	Play surface to 5" Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	2.64	varies	0	0.0	0%	0.0
9.3	Play surface to 5" Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	2.64	varies	-7.51	-0.3	0%	-0.3
9.4	Play surface to 5" Concrete	Concrete Place	Place 6" of concrete	n/a	n/a	2.64	-0.50	-1.32	0.0	0%	0.0
9.5	Play surface to 5" Concrete	Gravel Place (Concrete)	Place 2" of gravel base	n/a	n/a	2.64	-0.17	-0.44	0.0	0%	0.0
10	Adjust	Play Surface Place (Rubber Mulch)	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in)	n/a	n/a	31	-0.29	-9	-0.3	0%	-0.3

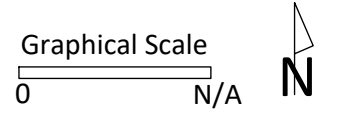
Computation Summary
Positive volumes are cuts (material available), negative volumes

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-4.46
Border Timbers Place (placeholder volume)	-4.47
Concrete Place	-1.22
Gravel Place (Concrete)	-0.73
Gravel Place (pavement)	-13.37
Play Surface Excavate	223.90
Play Surface Place (Rubber Mulch)	-175.20
Subsoil Excavate	0.68
Subsoil Place	-601.96
Topsoil Excavate	100.63
Topsoil Place	-92.25
Grand Total	-568.46

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	101	CY	= Subsoil Excavate + Topsoil Excavate + Pavement Excavate + Concrete Excavate
20202 Fill - Borrow	601	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	552	SY	= (Topsoil Place) - 167
40102 Crushed Aggregate Base Course Gradation No. 2	26	tons	= ((Gravel Place) pavement) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	9.6	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Rubber Mulch	210.2	CY	= Play Surface Place (Rubber Mulch * -1.2)

City of Madison
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PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:
**SWALLOWTAIL PARK
901 SWALLOWTAIL DR
MADISON, WI 53717**

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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

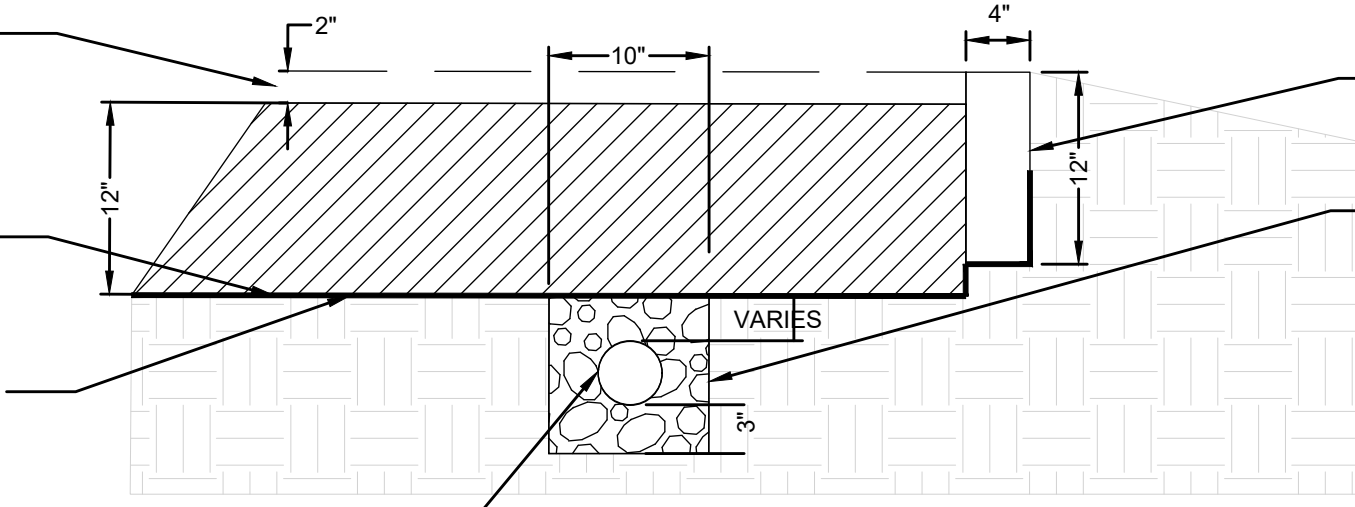
SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
5.7

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

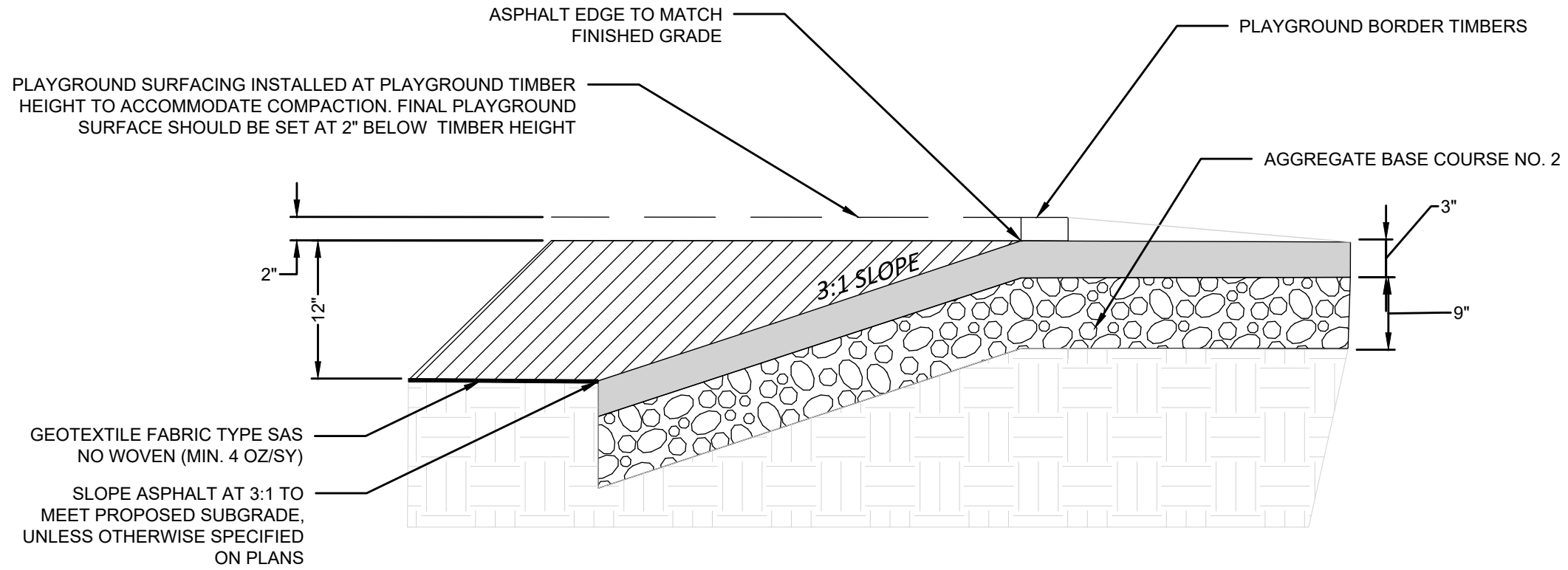


PLAYGROUND BORDER TIMBER

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
6.1
PLAYGROUND SURFACING WITH UNDERDRAIN
NOT TO SCALE



ASPHALT EDGE TO MATCH FINISHED GRADE

PLAYGROUND BORDER TIMBERS

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

AGGREGATE BASE COURSE NO. 2

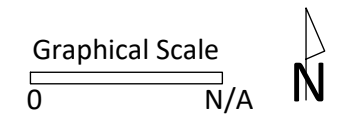
GEOTEXTILE FABRIC TYPE SAS NO WOVEN (MIN. 4 OZ/SY)

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

2
6.1
ASPHALT AT PLAYGROUND EDGE
NOT TO SCALE

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play
MADISON
PARKS



PROJECT:
2021 PLAYGROUND IMPROVEMENTS

PROJECT ADDRESS:

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ITEM	DATE
ADVERTISED TO BID	05/14/2021

PUBLIC WORKS PROJECT #:
9026

SHEET TITLE:
DETAILS - PLAYGROUND & PAVEMENT EDGE

SHEET NUMBER:
6.1