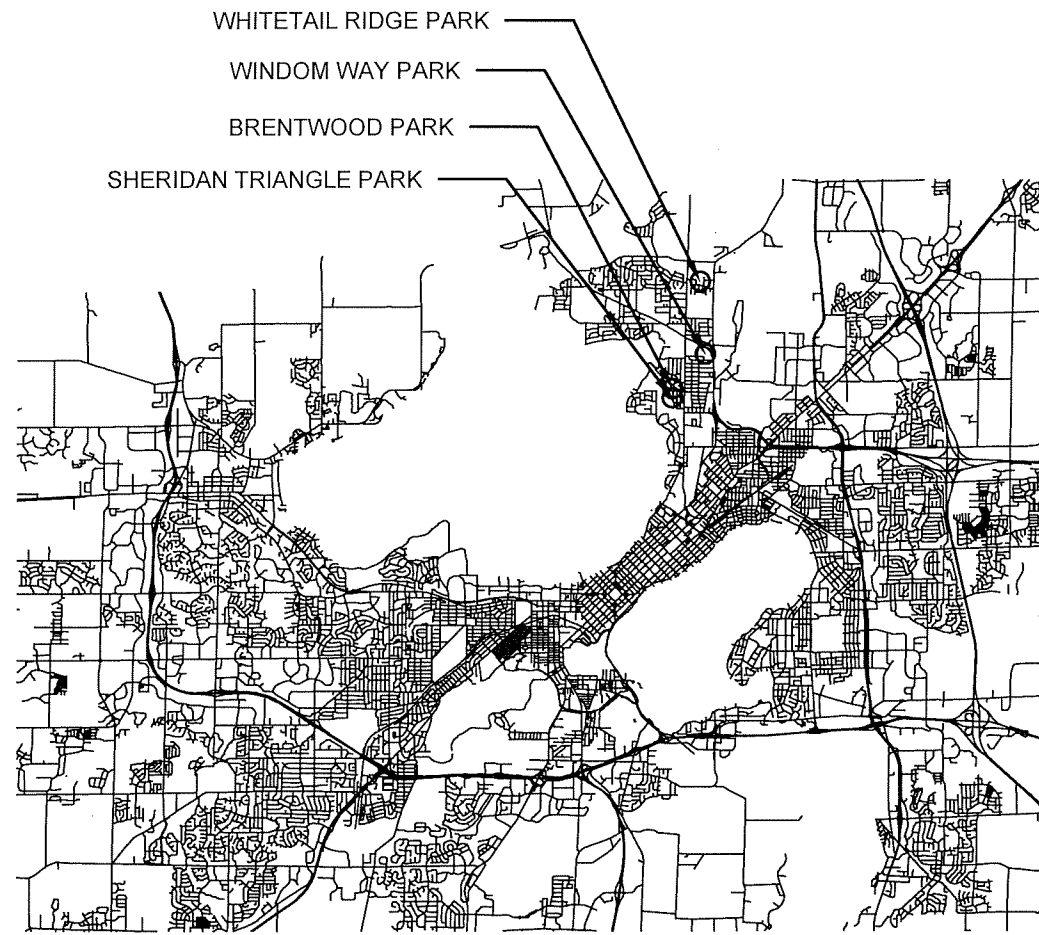


**LEGEND**

- ⊕ EX. ELECTRICAL HAND HOLE
- ⊕ EX. ELECTRICAL PEDESTAL
- ⊕ EX. TELEPHONE PEDESTAL
- ⊕ EX. TREE
- ⊕ EX. WATER HYDRANT
- ⊕ EX. WATER VALVE
- ⊕ EX. TURF INLET
- EX. PROPERTY LINE
- EX. EASEMENT
- X- EX. FENCE LINE
- ~ EX. TREE LINE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER)
- ..... EX. ABANDONED UTILITY
- E EX. ELECTRIC
- FO EX. FIBER OPTIC
- G EX. NATURAL GAS
- OH EX. OVERHEAD LINE
- SN EX. SANITARY SEWER
- ST EX. STORM SEWER
- TV EX. CABLE TV
- T EX. UNDERGROUND TELEPHONE
- W EX. WATER LINE
- ▨ EX. GRAVEL
- ▨ EX. CONCRETE
- ⊕###### PRO. SPOT ELEVATION
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- X- PRO. FENCE
- PRO. GRADING LIMITS
- PRO. SILT SOCK
- PRO. CONSTRUCTION FENCE
- ST 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

# 2020 PLAYGROUND IMPROVEMENTS - GROUP 2

## MUNIS NOS. 12678-51-130 & 12681-51-130



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 BRENTWOOD PARK**

- 1.1 Project Location and Site Access
- 1.2 Existing Conditions
- 1.3 Demolition and Protection Plan
- 1.4 Site Plan
- 1.5 Grading and Erosion Control Plan
- 1.6 Design Computations

**2 SHERIDAN TRIANGLE PARK**

- 2.1 Project Location and Site Access
- 2.2 Site Plan

**3 WHITETAIL RIDGE PARK**

- 3.1 Project Location and Site Access
- 3.2 Existing Conditions
- 3.3 Demolition and Protection Plan
- 3.4 Site Plan
- 3.5 Grading and Erosion Control Plan
- 3.6 Design Computations

**4 WINDOM WAY PARK**

- 4.1 Project Location and Site Access
- 4.2 Existing Conditions
- 4.3 Demolition and Protection Plan
- 4.4 Site Plan
- 4.5 Grading and Erosion Control Plan
- 4.6 Design Computations

**5 DETAILS**

- 5.1 Details - Playground & Pavement Edge
- 5.2 Details - Ornamental Metal Fencing

PROJECT:

**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

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	05/07/2020

PUBLIC WORKS PROJECT #:

**8538**

SHEET TITLE:

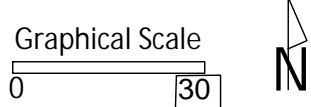
**COVER SHEET**

SHEET NUMBER:



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**PARKS DIVISION**  
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 Madison, WI 53703

**play**  
**MADISON**  
**PARKS**



PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**BRENTWOOD PARK  
 1402 MAC PHERSON ST  
 MADISON, WI 53704**

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ITEM	DATE
ADVERTISED TO BID	2020-05-07

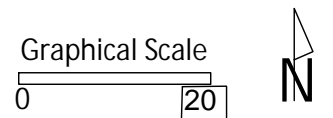
PUBLIC WORKS PROJECT #:  
**8538**

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

SHEET NUMBER:  
**1.1**

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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
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 1402 MAC PHERSON ST  
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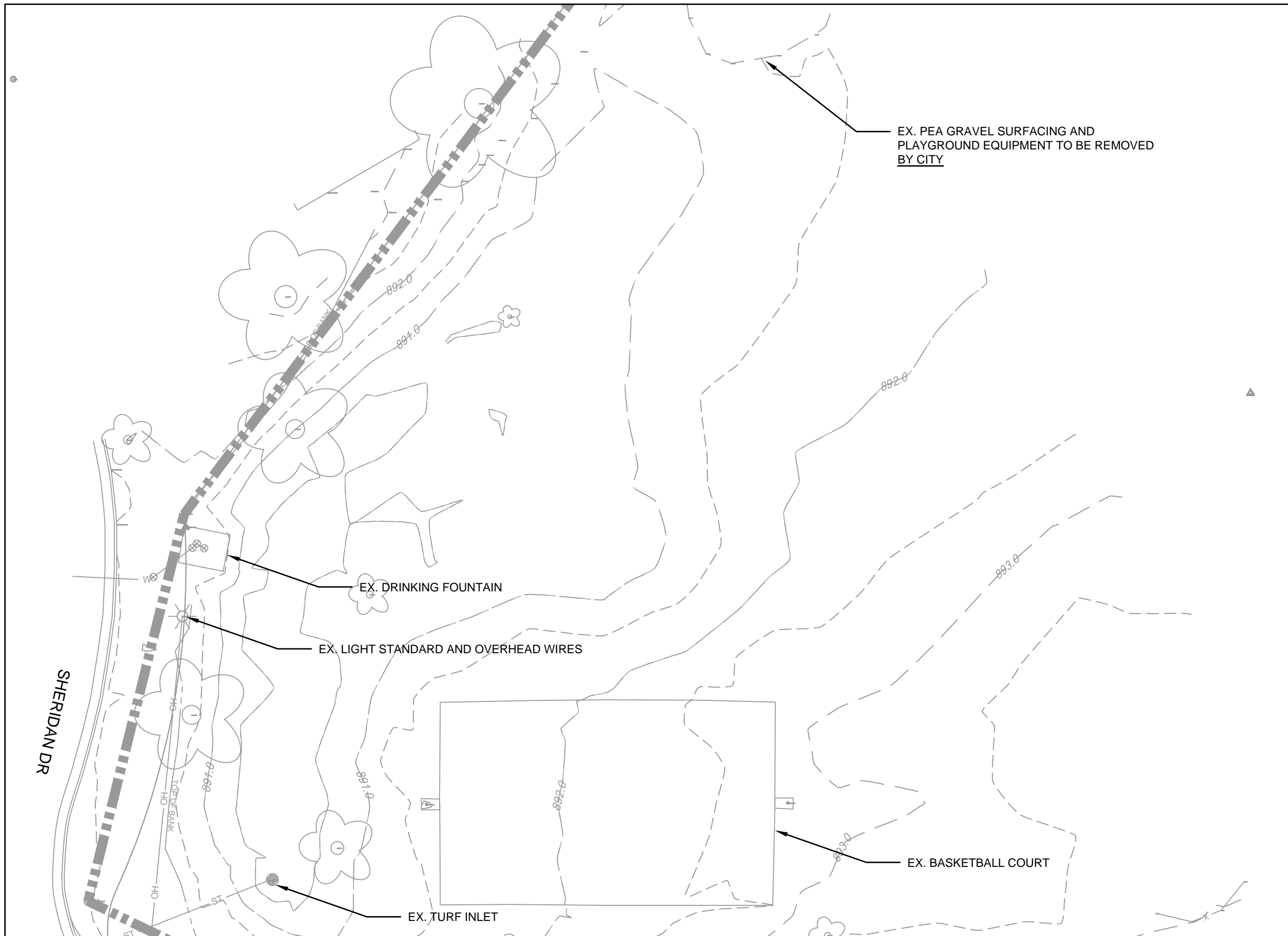
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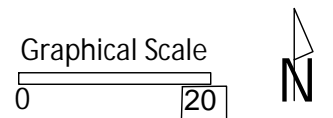
PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**EXISTING CONDITIONS**

SHEET NUMBER:  
**1.2**



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**PARKS DIVISION**  
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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**BRENTWOOD PARK  
 1402 MAC PHERSON ST  
 MADISON, WI 53704**

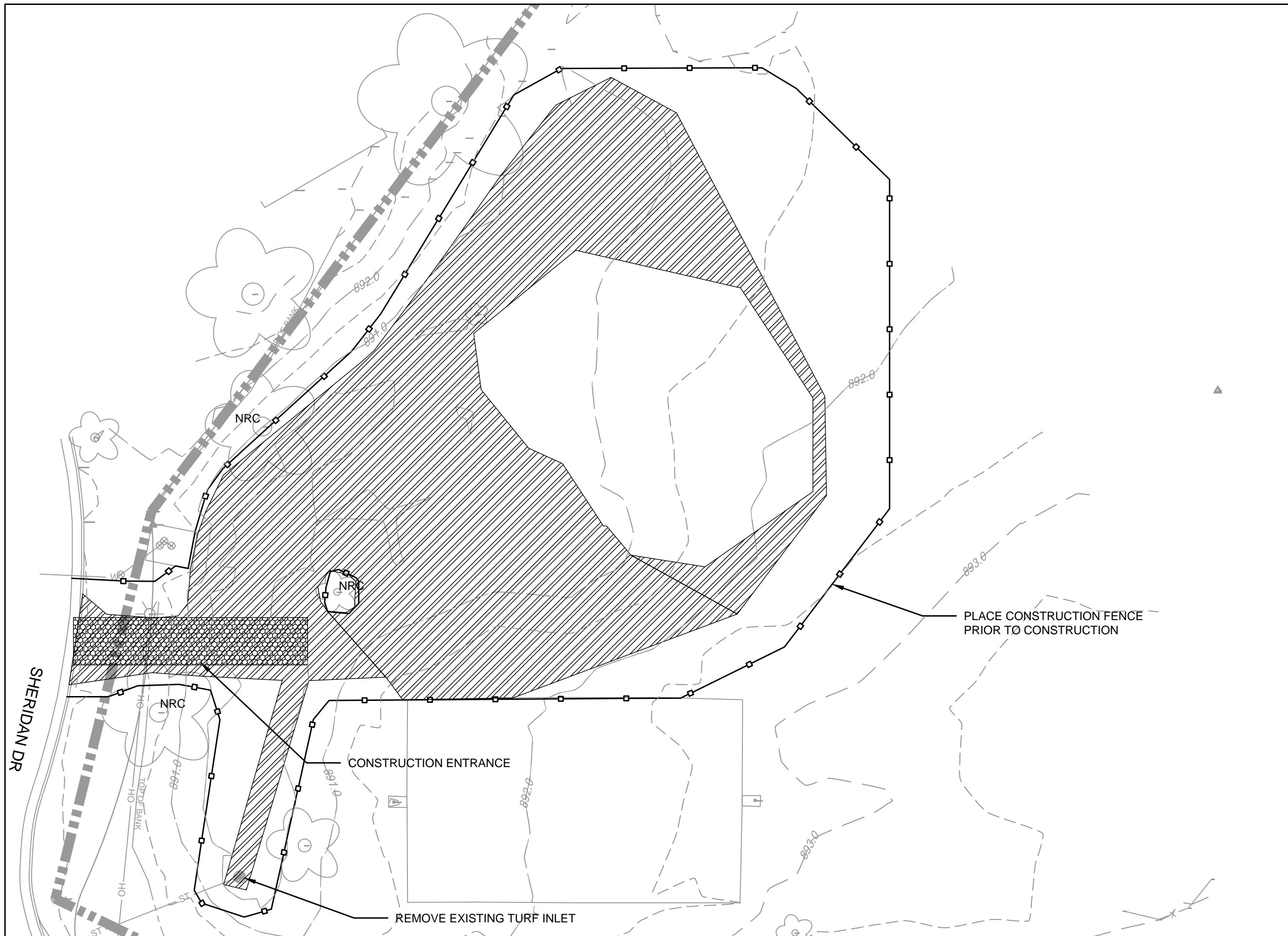
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PUBLIC WORKS PROJECT #:  
**8538**

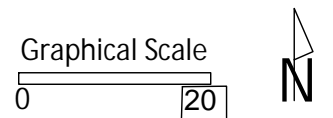
SHEET TITLE:  
**DEMOLITION AND  
 PROTECTION PLAN**

SHEET NUMBER:  
**1.3**



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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**BRENTWOOD PARK  
 1402 MAC PHERSON ST  
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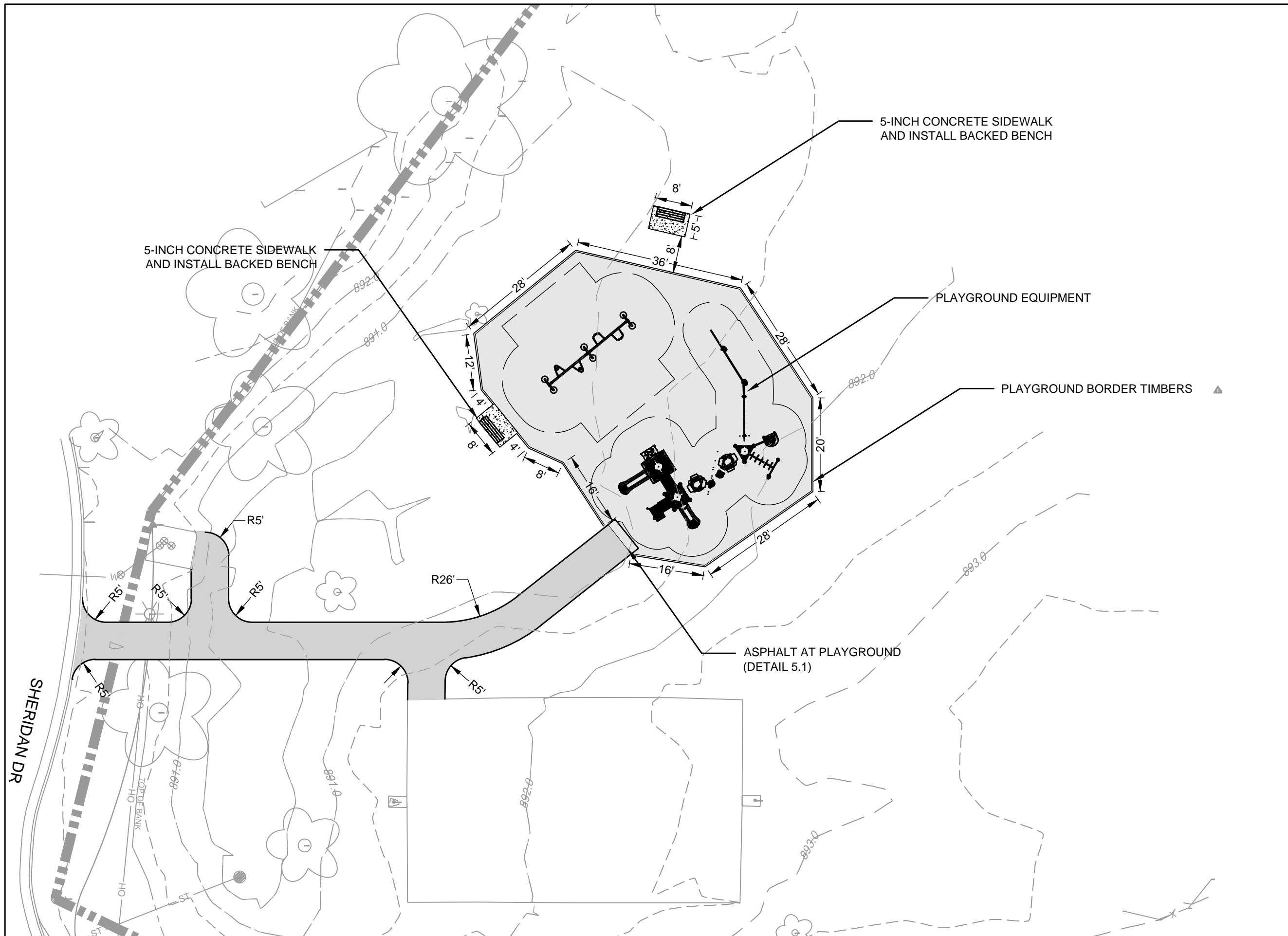
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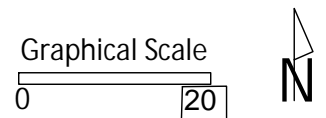
ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**1.4**





PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**BRENTWOOD PARK  
 1402 MAC PHERSON ST  
 MADISON, WI 53704**

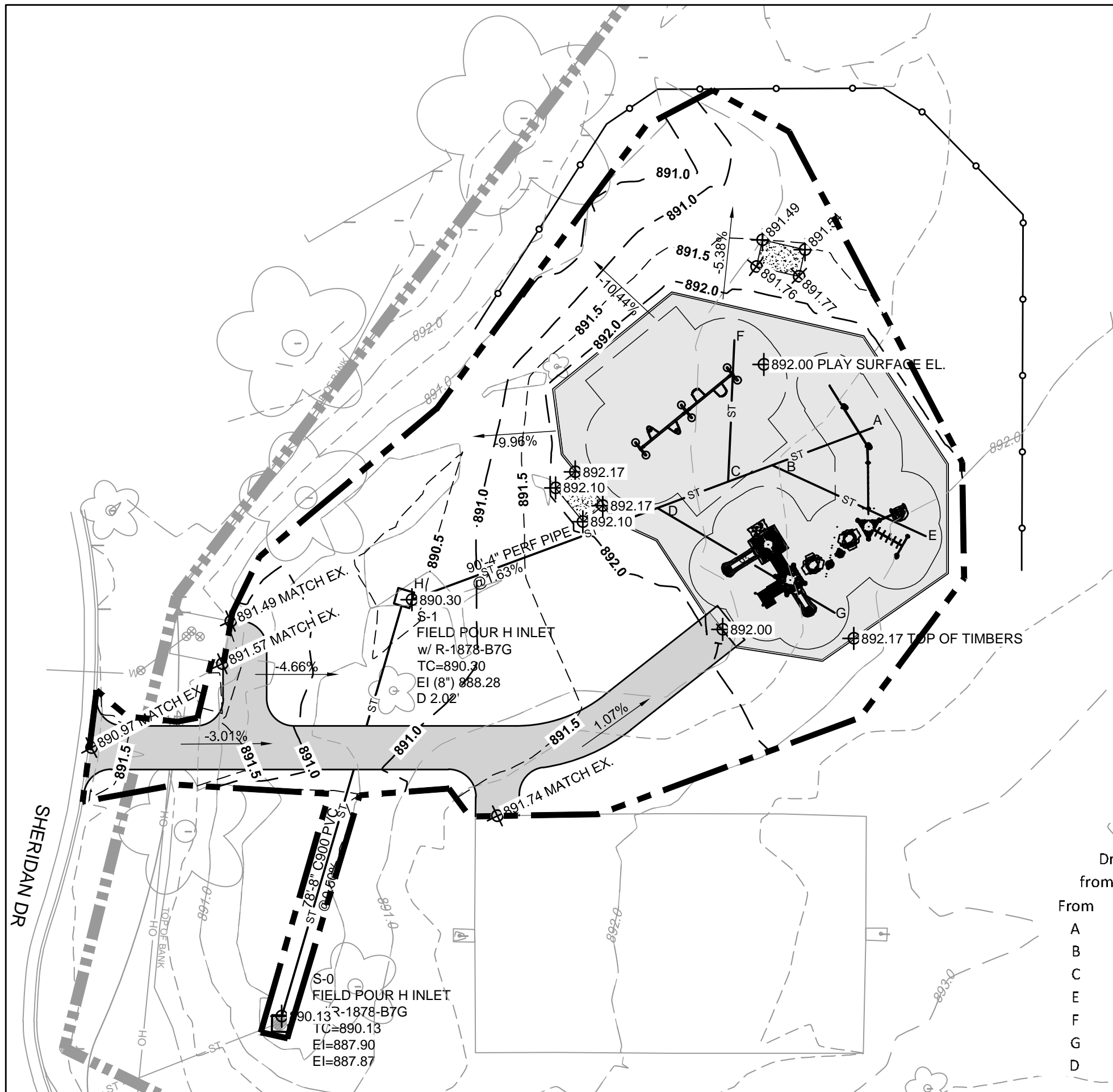
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ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

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

SHEET NUMBER:  
**1.5**



Brentwood Park Playground  
 Drain Tile Invert (Flowline) Elevations  
 Distance from top of  
 timbers 892.17  
 (INCHES)

Point	Invert (ft)	Distance from top of timbers 892.17 (INCHES)
A	890.47	-20.40
B	890.15	-24.24
C	889.78	-28.68
D	889.56	-31.32
E	890.47	-20.40
F	890.47	-20.40
G	890.47	-20.40
H	889.00	-38.04

Drain Tile Lengths & Slopes  
 from intersection to intersection

From	To	Length (ft)	Slope (%)	Pipe type
A	B	19.71	-1.6235	Underdrain
B	C	8.61	-4.30	Underdrain
C	D	13.83	-1.59	Underdrain
E	B	31.04	-1.03	Underdrain
F	C	25.95	-2.66	Underdrain
G	D	37.76	-2.41	Underdrain
D	H	48.05	-1.17	Underdrain

**Brentwood Park Playground - Earthwork Quantities**

City of Madison, WI Public Works Contract  
Date Revised: 4-6-2020

**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      Brentwood\_Survey2019-10-15.dwg  
Proposed      2020 BrentwoodPG\_Volumes.dwg  
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)
1.1	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1367	0.50	683	25.3	0%	25.3
1.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1367	varies	40	1.5	0%	1.5
1.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1367	varies	-557	-20.6	0%	-20.6
1.3	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	1367	-0.75	-1025	-38.0	0%	-38.0
1.4	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	1226	-0.25	-306	-11.4	0%	-11.4
1.5	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	141	-0.25	-35	-1.3	0%	-1.3
2.1	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	101	0.50	50	1.9	0%	1.9
2.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	101	varies	0	0.0	0%	0.0
2.3	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	101	varies	-61	-2.2	0%	-2.2
2.4	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	101	-0.50	-50	-1.9	0%	-1.9
2.5	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	80	-0.42	-33	-1.2	0%	-1.2
2.6	Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	21	-0.42	-9	-0.3	0%	-0.3
3.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	7146	0.50	3573	132.3	0%	132.3
3.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	7146	varies	38	1.4	0%	1.4
3.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	7146	varies	-2888	-107.0	0%	-107.0
3.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	7146	-0.50	-3573	-132.3	0%	-132.3
4.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3226	0.50	1613	59.7	0%	59.7
4.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	3226	varies	336	12.5	0%	12.5
4.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	3226	varies	-1017	-37.7	0%	-37.7
4.4	Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	3226	-1.00	-3226	-119.5	0%	-119.5
5.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	68	0.50	34	1.3	0%	1.3
5.2	Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	68	varies	6	0.2	0%	0.2
5.3	Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	68	varies	-33	-1.2	0%	-1.2
5.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	68	-1.00	-68	-2.5	0%	-2.5

**Computation Summary**

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

**Row Labels**

Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-11.4
Border Timbers Place (placeholder volume)	-2.5
Gravel (for Pavement) Place	-39.8
Play Surface Place	-119.5
Subsoil Excavate	14.1
Subsoil Place	-167.3
Topsoil Excavate	220.5
Topsoil Place	-134.0
Concrete Place	-1.2
<b>Grand Total</b>	<b>-241.0</b>

**Reorganized into bid table items**

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	235	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill Borrow	153	CY	= Subsoil Excavate + Subsoil Place
40102 Crushed Aggregate Base Course Gradation No. 2	80	TONS	= (Gravel for Pavement Place) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	25	TONS	= Asphalt Place * -2.16 ton/cubic yard
20221 Topsoil	802	SY	= (Topsoil Place)/-.167
90003 Playground Surfacing - Wood Fiber Mulch	131	CY	= Play Surface Place * -1.10

City of Madison  
Department of Public Works  
**PARKS DIVISION**

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Madison, WI 53703



PROJECT:

**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:

**BRENTWOOD PARK  
1402 MAC PHERSON ST  
MADISON, WI 53704**

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ITEM DATE  
*ADVERTISED TO BID* *2020-05-07*

PUBLIC WORKS PROJECT #:  
**8538**

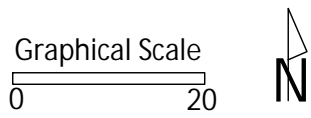
SHEET TITLE:  
**DESIGN COMPUTATIONS**

SHEET NUMBER:  
**1.6**



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**PARKS**



PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:  
**SHERIDAN TRIANGLE  
 PARK  
 1301 FARRAGUT ST  
 MADISON, WI 53704**

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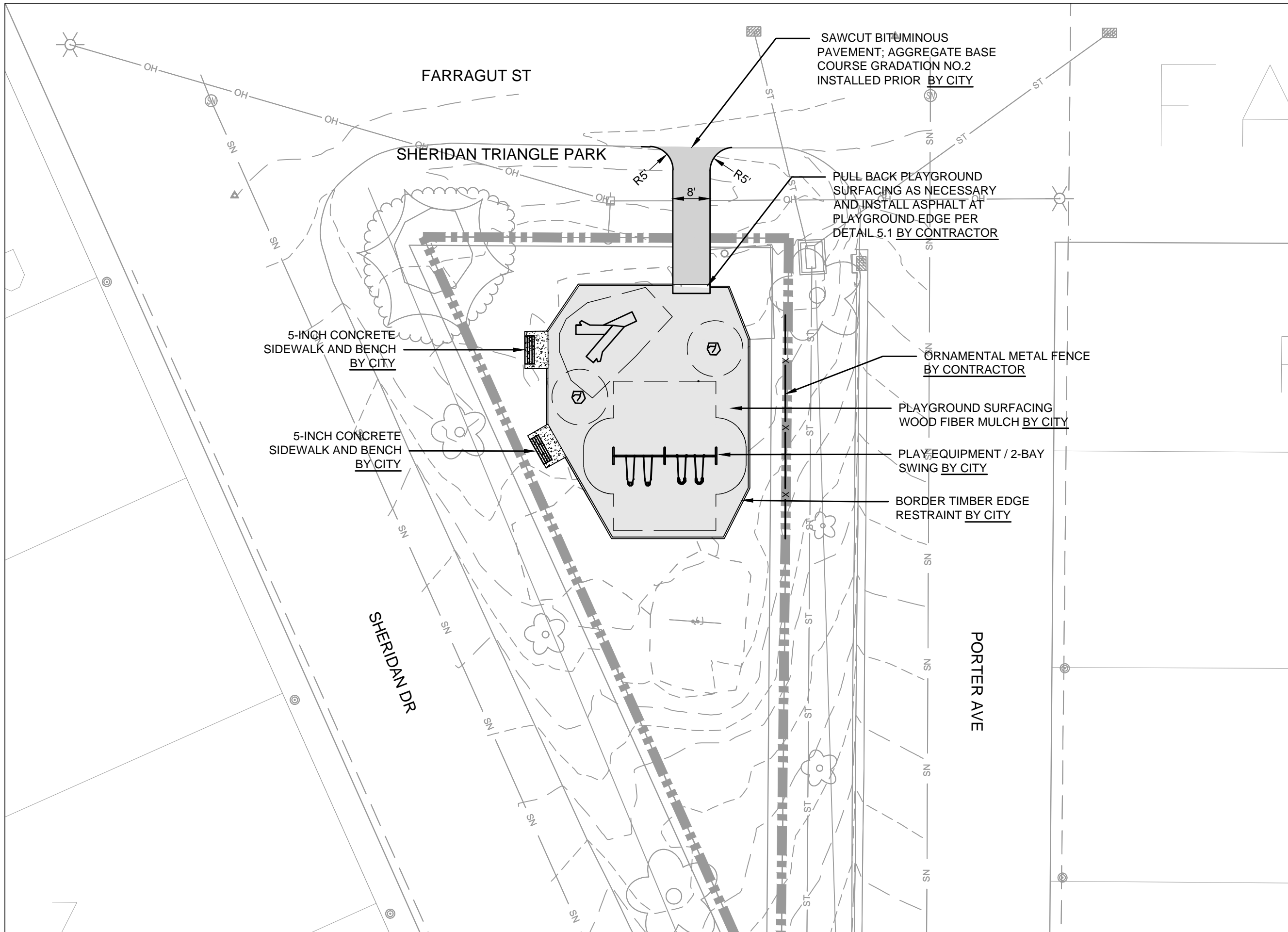
ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

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

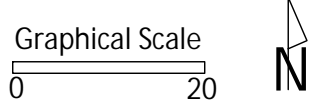
SHEET NUMBER:  
**2.1**





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PROJECT:  
**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:  
**SHERIDAN TRIANGLE PARK**  
**1301 FARRAGUT ST**  
**MADISON, WI 53704**

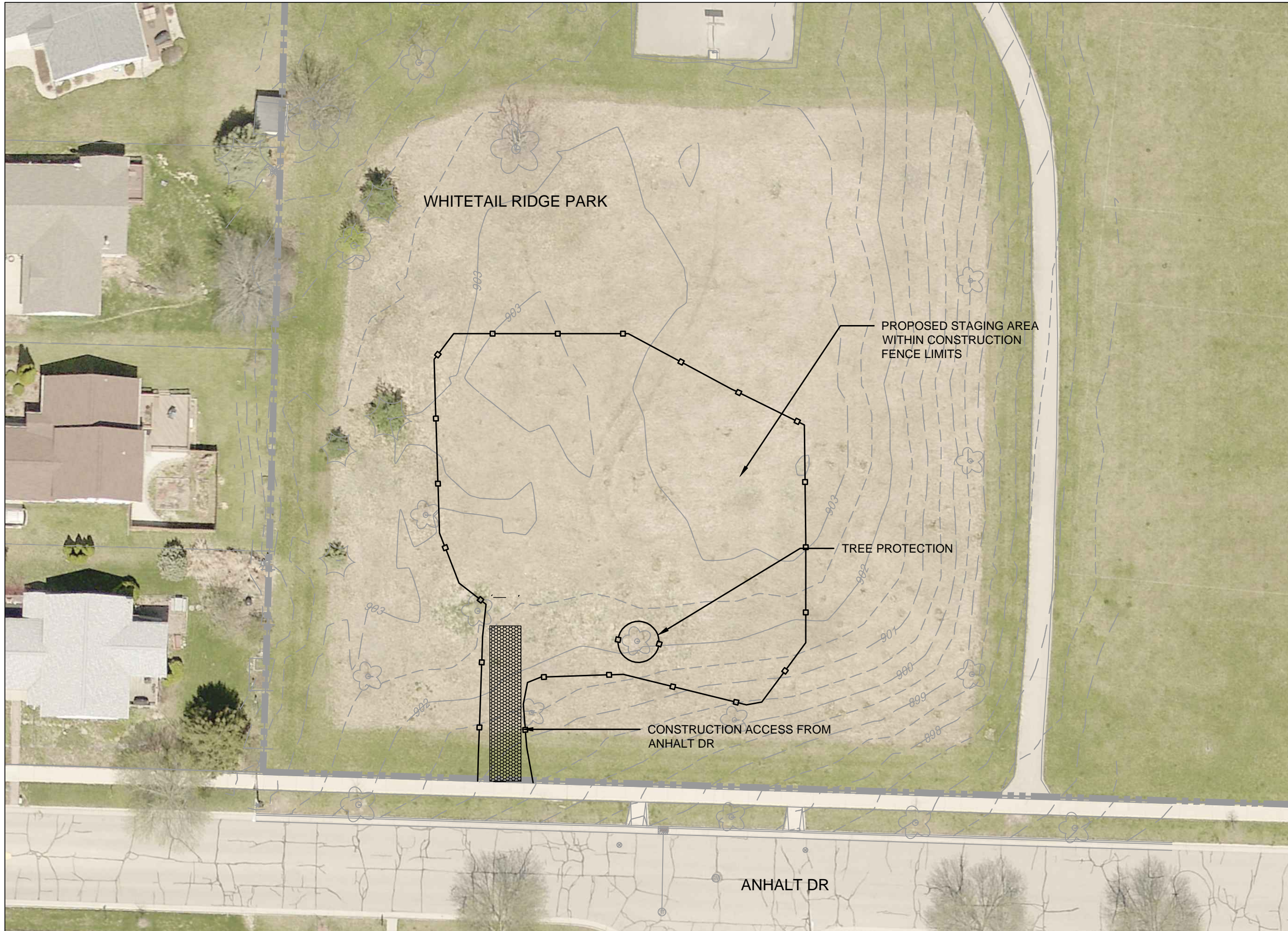
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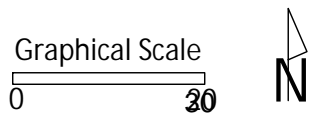
SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**2.2**



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**PARKS DIVISION**  
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**MADISON**  
**PARKS**



PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 2**

PROJECT ADDRESS:  
**WHITETAIL RIDGE PARK  
 1818 ANHALT DR  
 MADISON, WI 53704**

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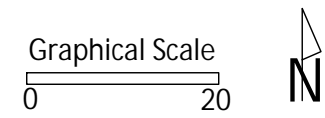
PUBLIC WORKS PROJECT #:  
**8538**

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

SHEET NUMBER:  
**3.1**

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**PARKS DIVISION**  
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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 2**

PROJECT ADDRESS:  
**WHITETAIL RIDGE PARK  
 1818 ANHALT DR  
 MADISON, WI 53704**

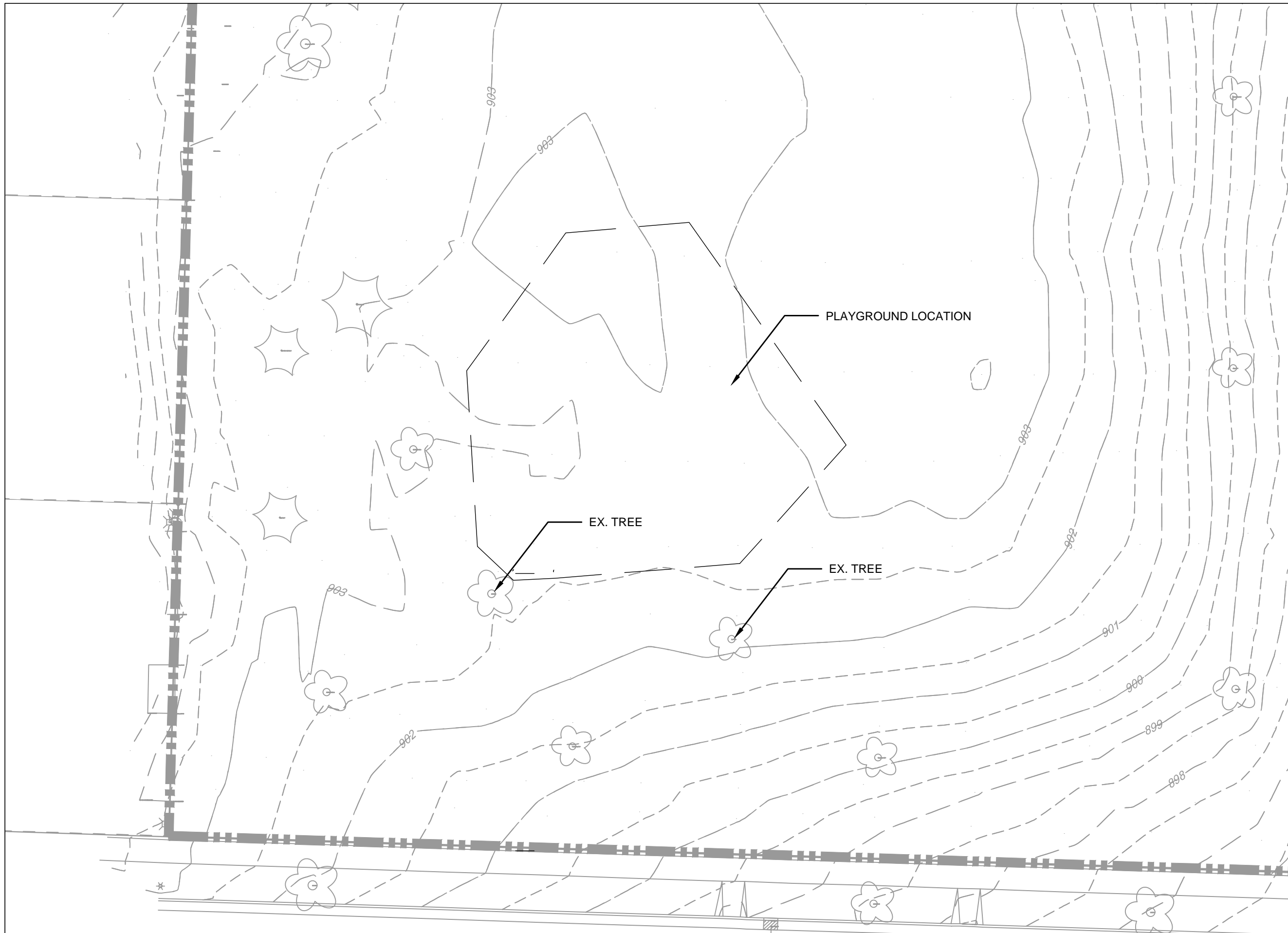
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**8538**

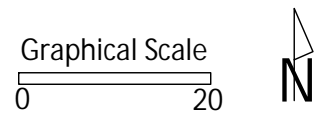
SHEET TITLE:  
**EXISTING CONDITIONS**

SHEET NUMBER:  
**3.2**



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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS  
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PROJECT ADDRESS:  
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**8538**

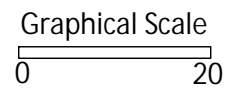
SHEET TITLE:  
**DEMOLITION AND  
 PROTECTION PLAN**

SHEET NUMBER:  
**3.3**



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PROJECT:

**2020 PLAYGROUND  
 IMPROVEMENTS  
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 1818 ANHALT DR  
 MADISON, WI 53704**

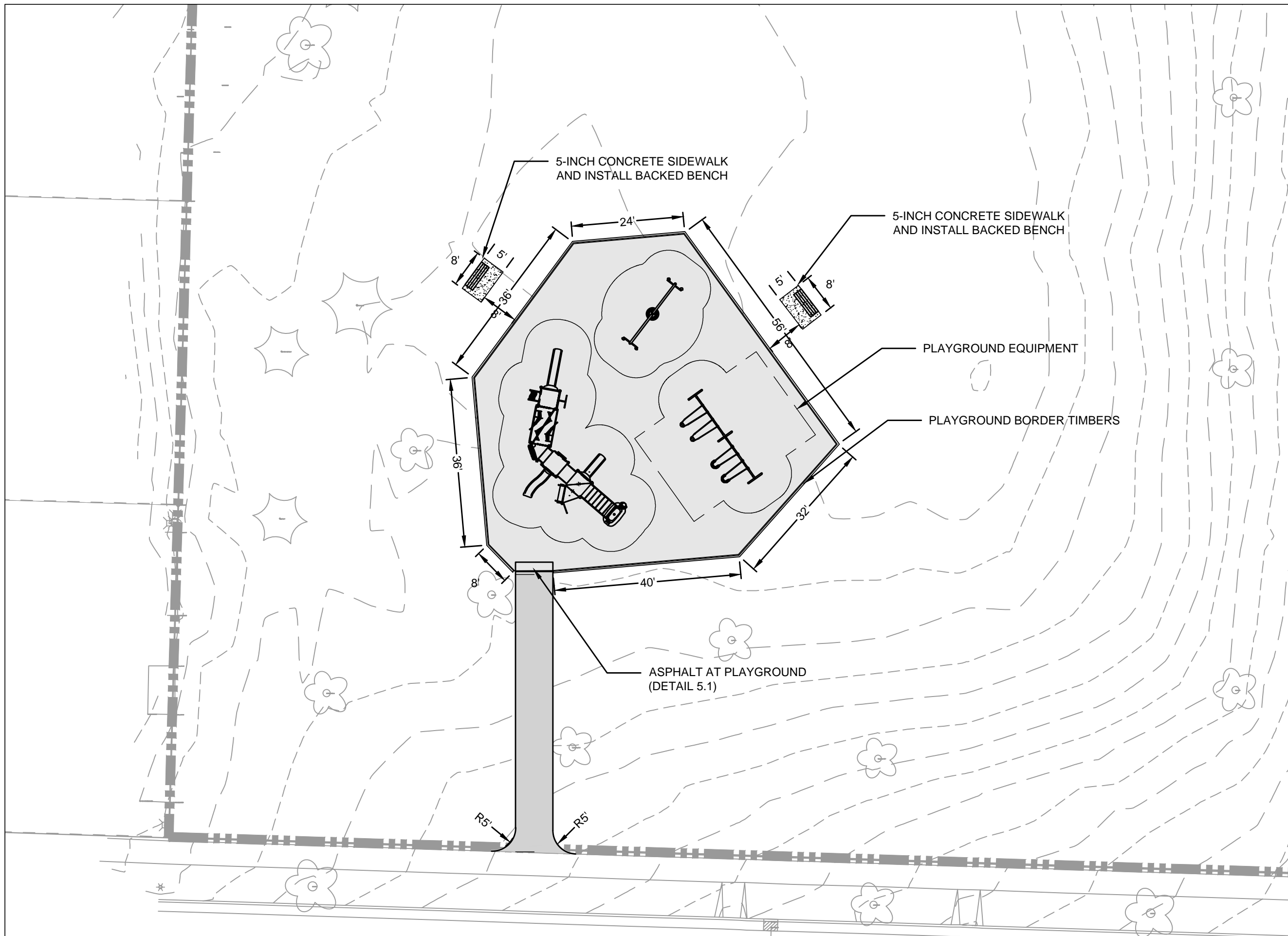
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PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**3.4**



**NOTES**

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

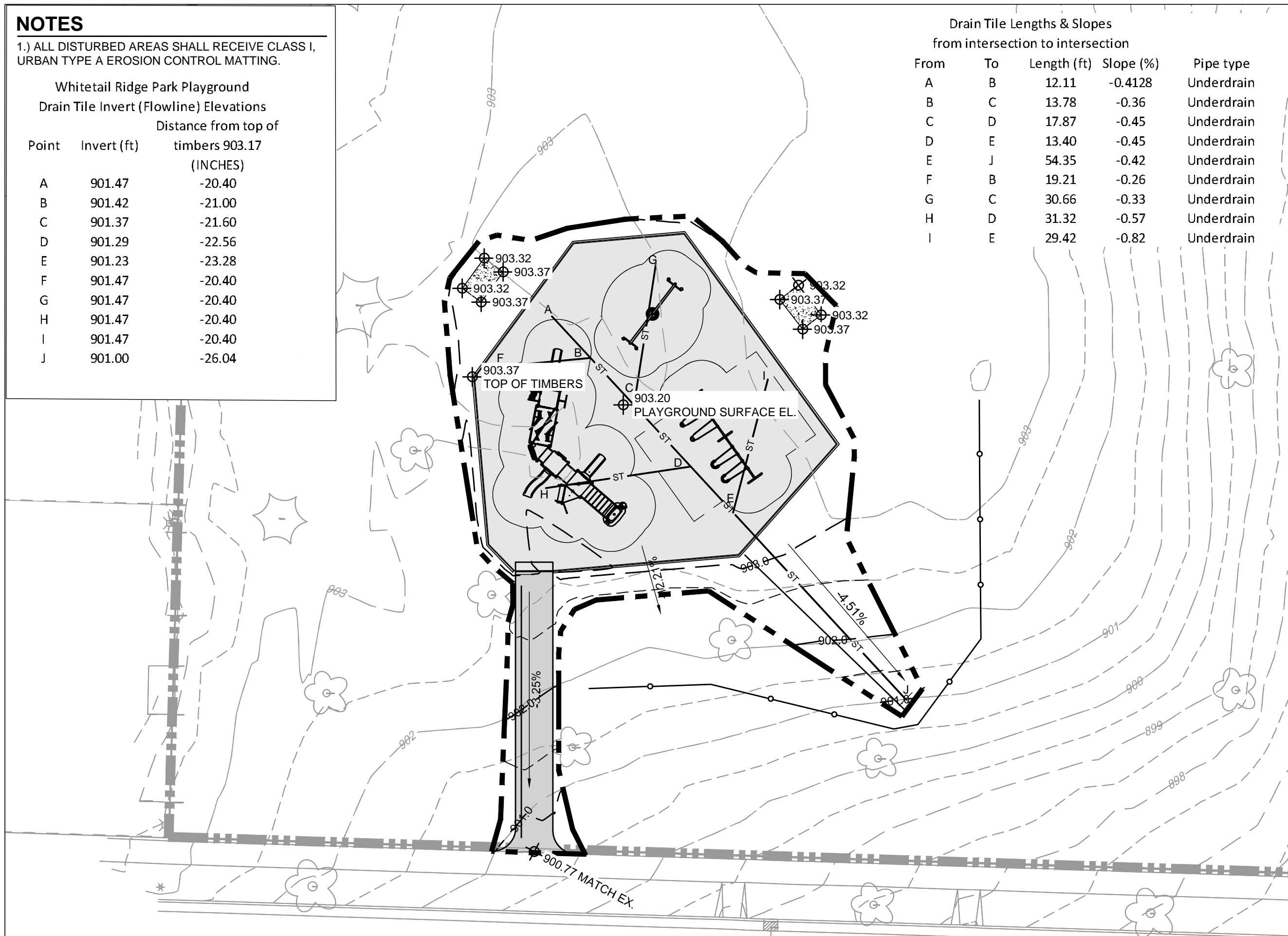
**Whitetail Ridge Park Playground**

**Drain Tile Invert (Flowline) Elevations**

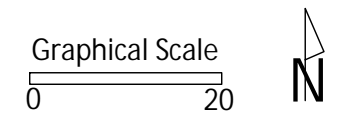
Point	Invert (ft)	Distance from top of timbers 903.17 (INCHES)
A	901.47	-20.40
B	901.42	-21.00
C	901.37	-21.60
D	901.29	-22.56
E	901.23	-23.28
F	901.47	-20.40
G	901.47	-20.40
H	901.47	-20.40
I	901.47	-20.40
J	901.00	-26.04

**Drain Tile Lengths & Slopes**  
from intersection to intersection

From	To	Length (ft)	Slope (%)	Pipe type
A	B	12.11	-0.4128	Underdrain
B	C	13.78	-0.36	Underdrain
C	D	17.87	-0.45	Underdrain
D	E	13.40	-0.45	Underdrain
E	J	54.35	-0.42	Underdrain
F	B	19.21	-0.26	Underdrain
G	C	30.66	-0.33	Underdrain
H	D	31.32	-0.57	Underdrain
I	E	29.42	-0.82	Underdrain



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**PARKS DIVISION**  
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210 Martin Luther King, Jr. Blvd.  
Madison, WI 53703



PROJECT:  
**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:  
**WHITETAIL RIDGE PARK  
1818 ANHALT DR  
MADISON, WI 53704**

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	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

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

SHEET NUMBER:  
**3.5**

**Whitetail Ridge Park Playground - Earthwork Quantities**

City of Madison, WI Public Works Contract  
Date Revised: 3-16-2020

**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 WhitetailRidge\_Survey2019-11-04.dwg  
Proposed 2020 WhitetailPG\_Volumes.dwg  
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)
1.1	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	543	0.50	271	10.0	0%	10.0
1.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	543	varies	1	0.0	0%	0.0
1.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	543	varies	-53	-2.0	0%	-2.0
1.3	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	543	-0.75	-407	-15.1	0%	-15.1
1.4	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	482	-0.25	-121	-4.5	0%	-4.5
1.5	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	61	-0.25	-15	-0.6	0%	-0.6
2.1	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	108	0.50	54	2.0	0%	2.0
2.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	108	varies	33	1.2	0%	1.2
2.3	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	108	varies	0	0.0	0%	0.0
2.4	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	108	-0.50	-54	-2.0	0%	-2.0
2.5	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	80	-0.42	-33	-1.2	0%	-1.2
2.6	Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	28	-0.42	-12	-0.4	0%	-0.4
3.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2649	0.50	1324	49.1	0%	49.1
3.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	2649	varies	8	0.3	0%	0.3
3.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	2649	varies	-327	-12.1	0%	-12.1
3.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	2649	-0.50	-1324	-49.1	0%	-49.1
4.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3995	0.50	1997	74.0	0%	74.0
4.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	3995	varies	1061	39.3	0%	39.3
4.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	3995	varies	0	0.0	0%	0.0
4.4	Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	3995	-1.00	-3995	-148.0	0%	-148.0
5.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	79	0.50	39	1.5	0%	1.5
5.2	Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	79	varies	20	0.7	0%	0.7
5.3	Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	79	varies	0	0.0	0%	0.0
5.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	79	-1.00	-79	-2.9	0%	-2.9

**Computation Summary**

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

**Row Labels**

Sum of Unfactored volume (cu yd)

Asphalt Place	-4.5
Border Timbers Place (placeholder volume)	-2.9
Gravel (for Pavement) Place	-17.1
Play Surface Place	-148.0
Subsoil Excavate	40.8
Subsoil Place	-13.4
Topsoil Excavate	136.5
Topsoil Place	-50.1
Concrete Place	-1.2
<b>Grand Total</b>	<b>-59.7</b>

**Reorganized into bid table items**

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	177	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill Borrow	27	CY	= Subsoil Excavate + Subsoil Place
40102 Crushed Aggregate Base Course Gradation No. 2	34	TONS	= (Gravel for Pavement Place) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	10	TONS	= Asphalt Place * -2.16 ton/cubic yard
20221 Topsoil	300	SY	= (Topsoil Place)/-.167
90003 Playground Surfacing - Wood Fiber Mulch	163	CY	= Play Surface Place * -1.10

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Department of Public Works  
**PARKS DIVISION**

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PROJECT:

**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:

**WHITETAIL RIDGE PARK  
1818 ANHALT DR  
MADISON, WI 53704**

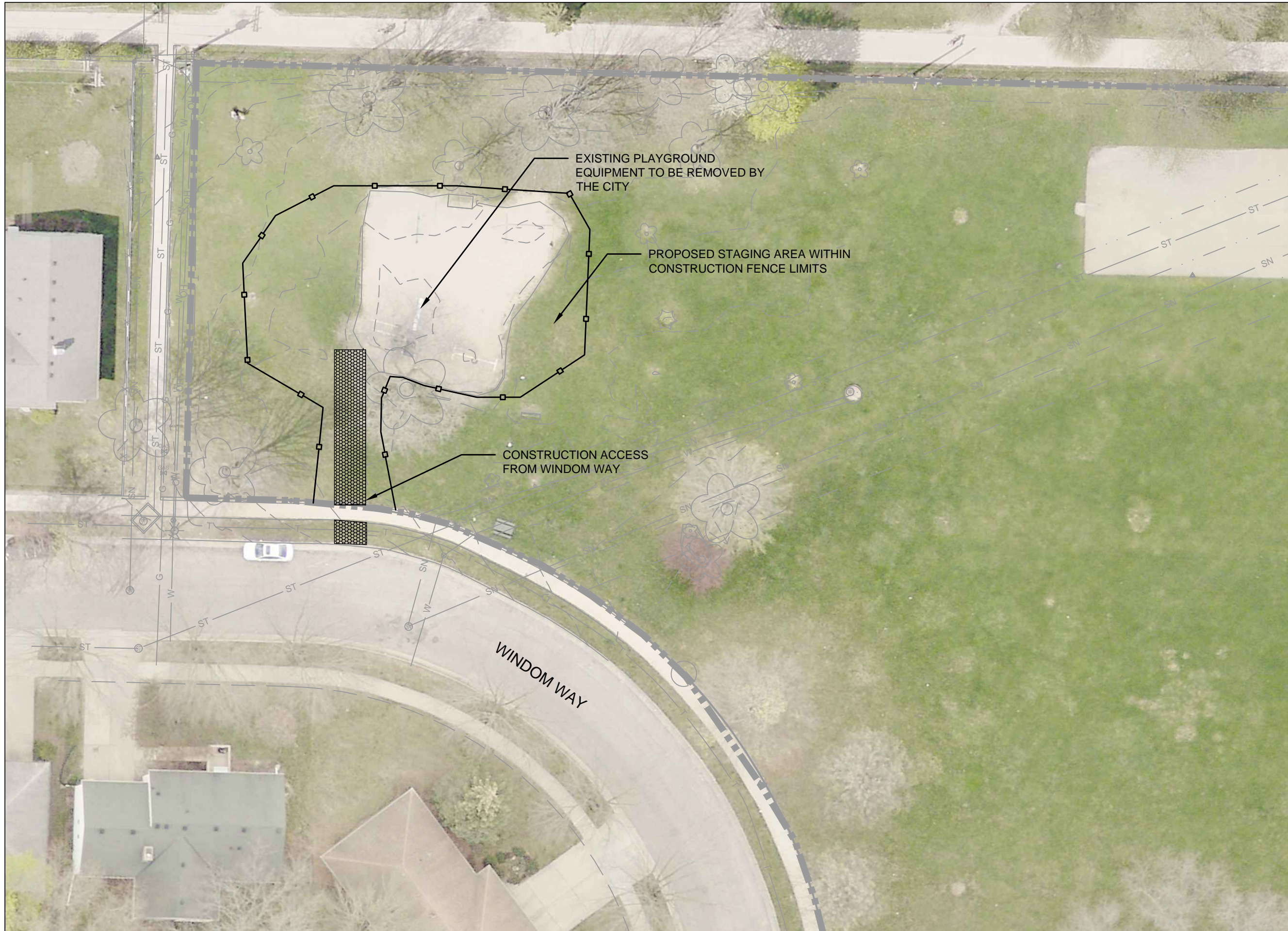
*Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.*

ITEM DATE  
**ADVERTISED TO BID 2020-05-07**

PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**DESIGN COMPUTATIONS**

SHEET NUMBER:  
**3.6**



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**play**  
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**PARKS**

Graphical Scale  
 0 20



PROJECT:

**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:

**WINDOM WAY PARK  
 1920 WINDOM WAY  
 MADISON, WI 53704**

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.

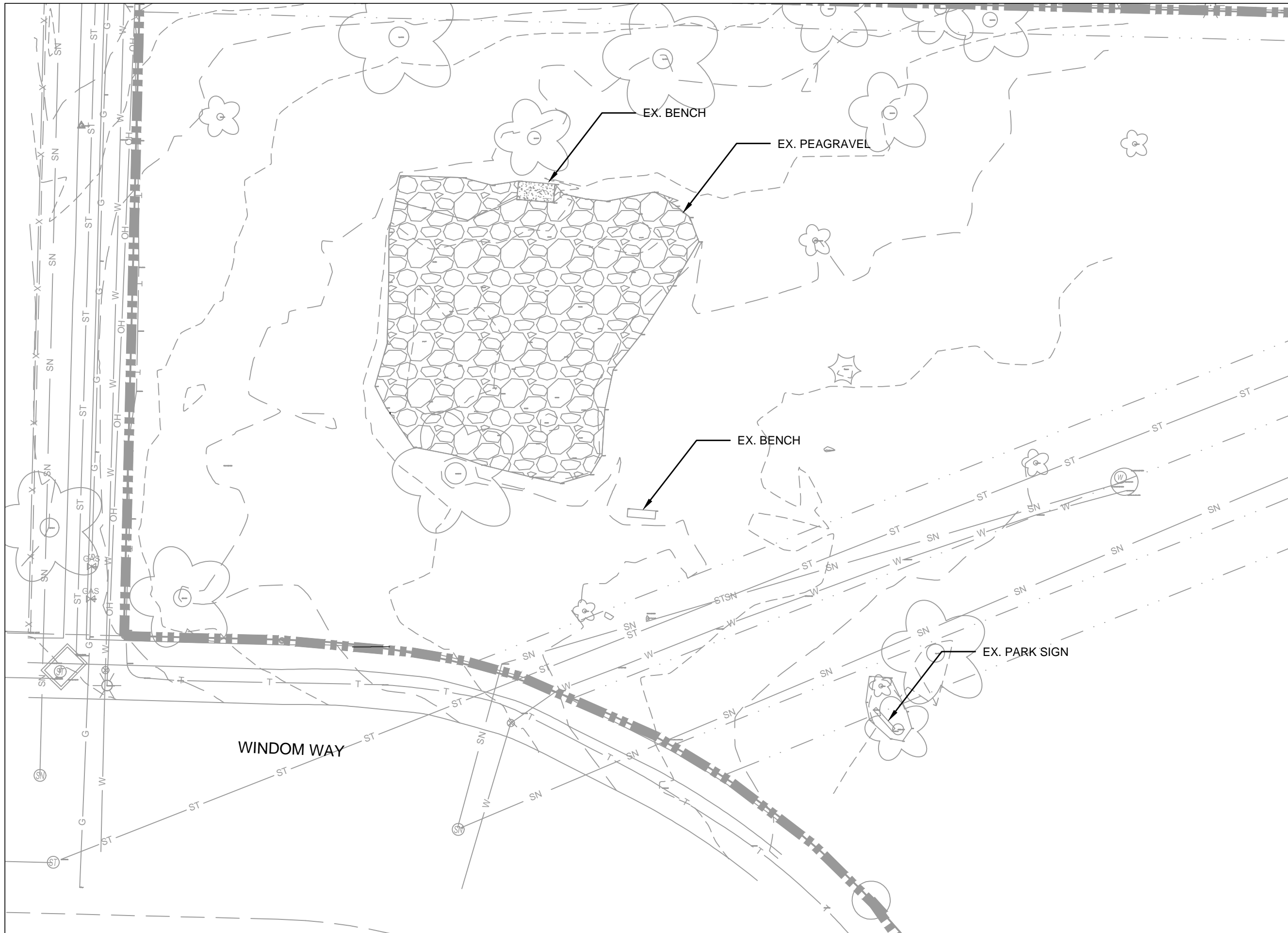
ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

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

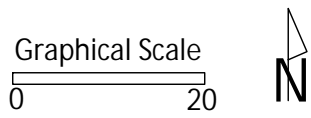
SHEET NUMBER:  
**4.1**





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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**WINDOM WAY PARK  
 1920 WINDOM WAY  
 MADISON, WI 53704**

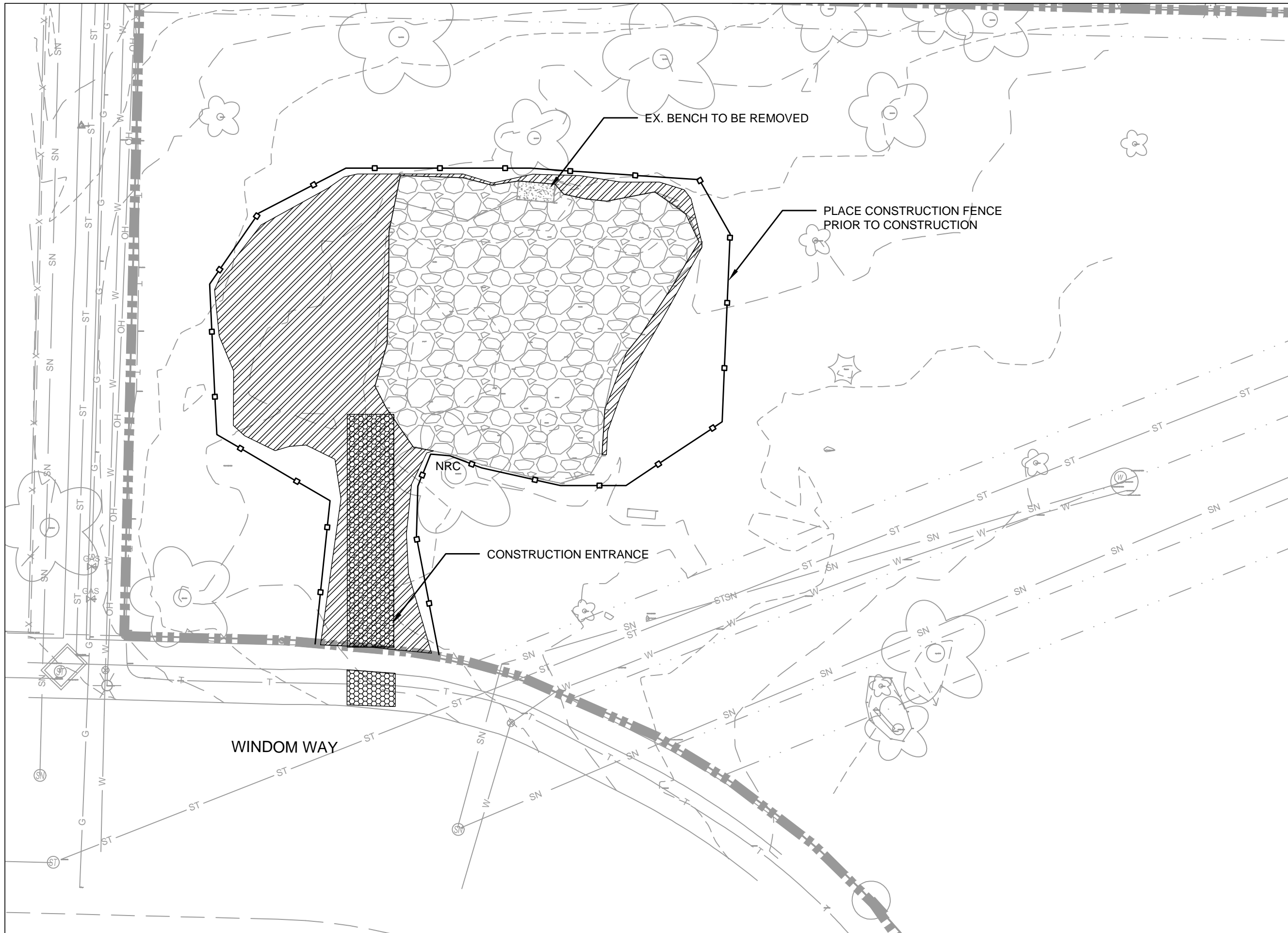
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ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

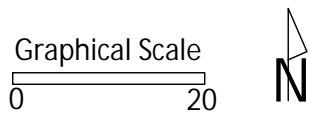
SHEET TITLE:  
**EXISTING  
 CONDITIONS**

SHEET NUMBER:  
**4.2**



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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**WINDOM WAY PARK  
 1920 WINDOM WAY  
 MADISON, WI 53704**

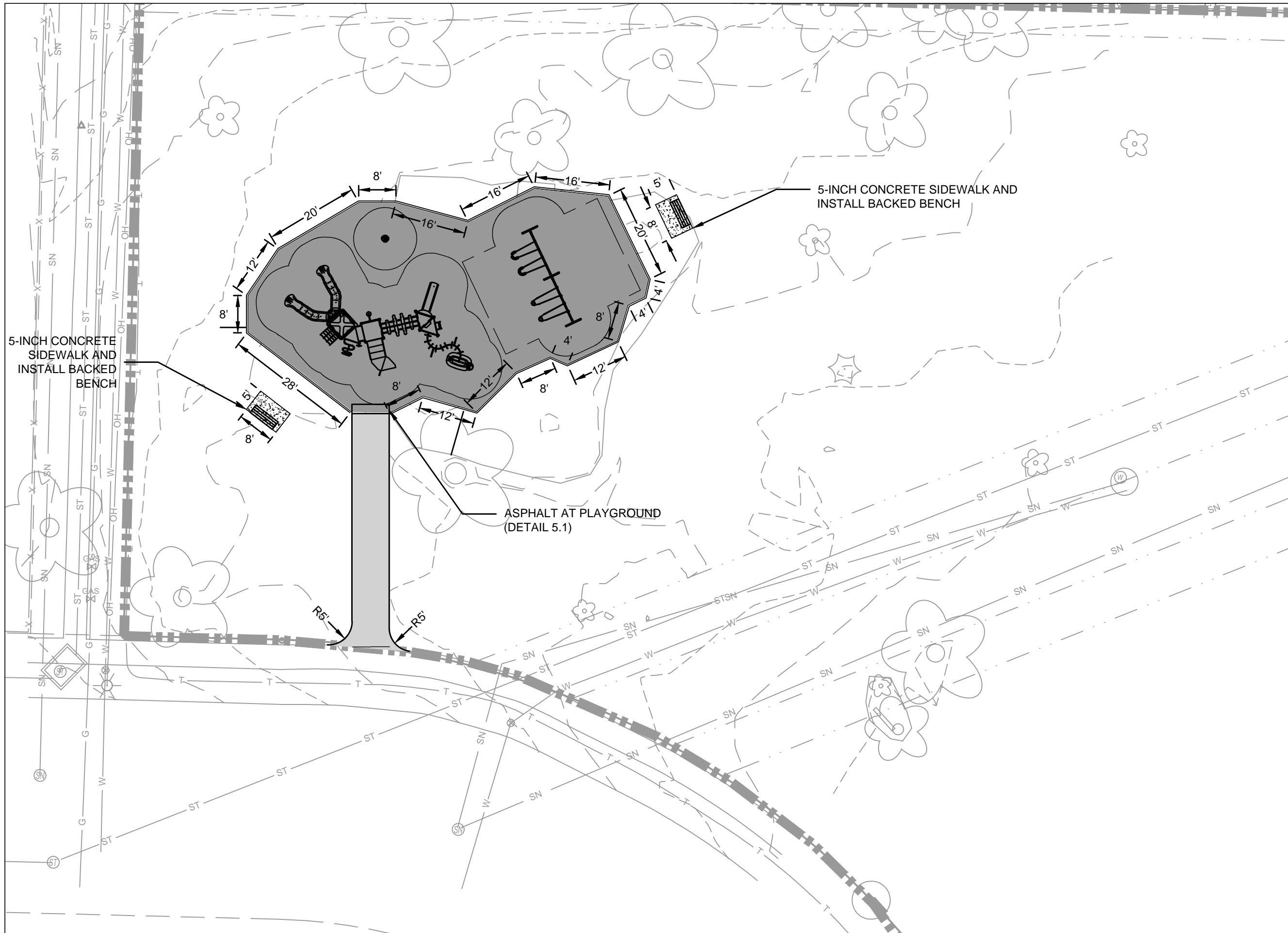
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ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**DEMOLITION AND  
 PROTECTION PLAN**

SHEET NUMBER:  
**4.3**



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PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS -  
 GROUP 2**

PROJECT ADDRESS:  
**WINDOM WAY PARK  
 1920 WINDOM WAY  
 MADISON, WI 53704**

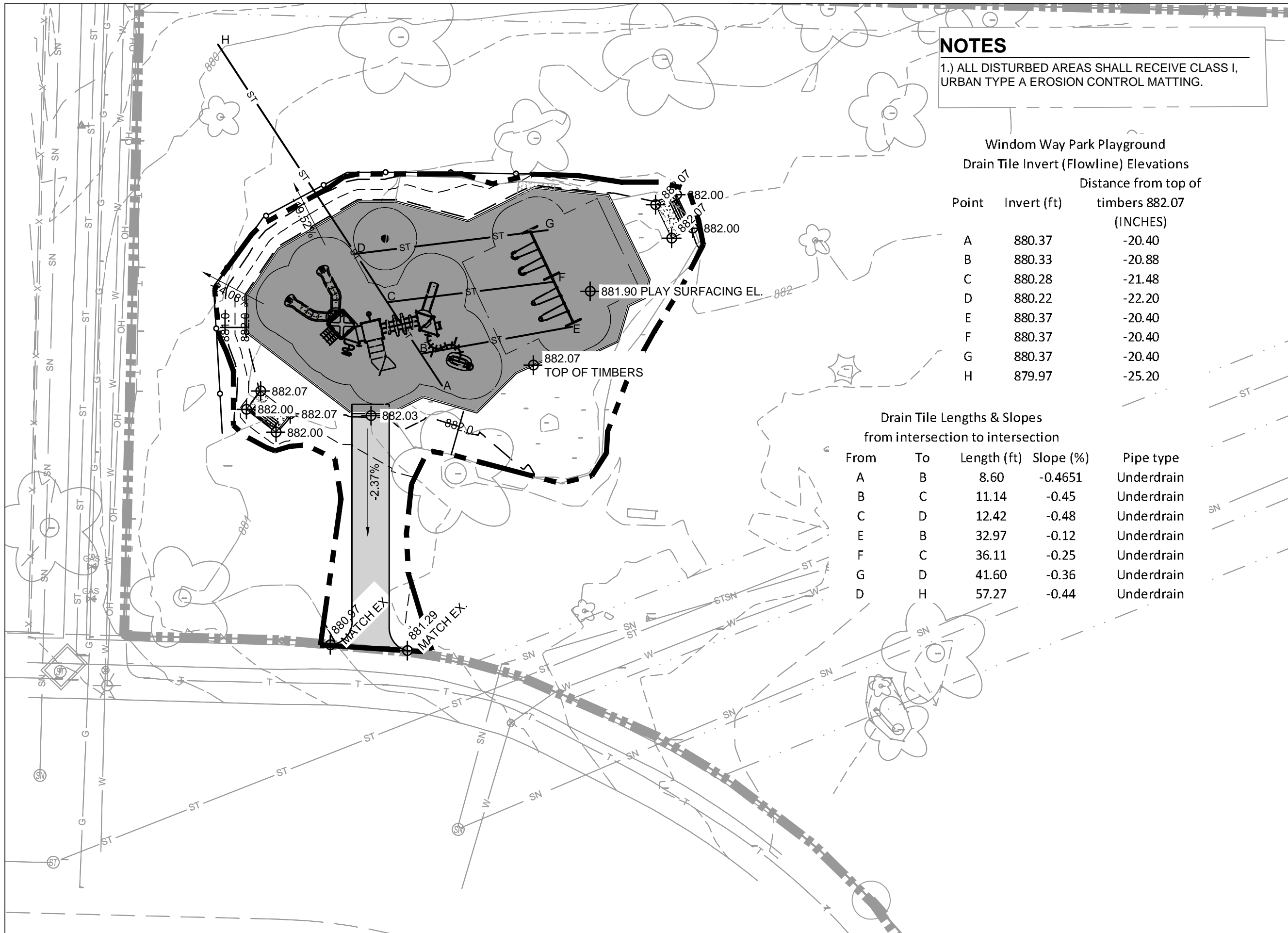
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ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**4.4**



**NOTES**

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

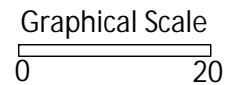
Windom Way Park Playground  
Drain Tile Invert (Flowline) Elevations  
Distance from top of timbers 882.07 (INCHES)

Point	Invert (ft)	Distance from top of timbers 882.07 (INCHES)
A	880.37	-20.40
B	880.33	-20.88
C	880.28	-21.48
D	880.22	-22.20
E	880.37	-20.40
F	880.37	-20.40
G	880.37	-20.40
H	879.97	-25.20

Drain Tile Lengths & Slopes  
from intersection to intersection

From	To	Length (ft)	Slope (%)	Pipe type
A	B	8.60	-0.4651	Underdrain
B	C	11.14	-0.45	Underdrain
C	D	12.42	-0.48	Underdrain
E	B	32.97	-0.12	Underdrain
F	C	36.11	-0.25	Underdrain
G	D	41.60	-0.36	Underdrain
D	H	57.27	-0.44	Underdrain

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PROJECT:

**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:

**WINDOM WAY PARK  
1920 WINDOM WAY  
MADISON, WI 53704**

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ITEM

DATE

ADVERTISED TO BID

2020-05-07

PUBLIC WORKS PROJECT #:

**8538**

SHEET TITLE:

**GRADING AND  
EROSION CONTROL  
PLAN**

SHEET NUMBER:

**4.5**

**Windom Way Park Playground - Earthwork Quantities**

City of Madison, WI Public Works Contract  
Date Revised: 3-16-2020

**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: WindomWay\_Existing2019-10-18.dwg  
Proposed: 2020 Windom Way PG\_Volumes.dwg

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	Concrete to Grass	Concrete Excavate	Remove existing concrete, estimated depth 6in	n/a	n/a	18	0.42	8	0.3	0%	0.3
1.2	Concrete to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	18	varies	0	0.0	0%	0.0
1.3	Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	18	varies	-9	-0.3	0%	-0.3
1.4	Concrete to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	18	-0.50	-9	-0.3	0%	-0.3
2.1	Concrete to Play Surface	Concrete Excavate	Remove existing concrete, estimated depth 6in	n/a	n/a	22	0.42	9	0.3	0%	0.3
2.2	Concrete to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	22	varies	0	0.0	0%	0.0
2.3	Concrete to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	22	varies	-6	-0.2	0%	-0.2
2.4	Concrete to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	22	-1.00	-22	-0.8	0%	-0.8
3.1	Concrete to Timbers	Concrete Excavate	Remove existing concrete, estimated depth 6in	n/a	n/a	3	0.50	2	0.1	0%	0.1
3.2	Concrete to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	3	varies	0	0.0	0%	0.0
3.3	Concrete to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	3	varies	-1	0.0	0%	0.0
3.4	Concrete to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	3	-1.00	-3	-0.1	0%	-0.1
4.1	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	451	0.50	225	8.3	0%	8.3
4.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	451	varies	195	7.2	0%	7.2
4.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	451	varies	-1	0.0	0%	0.0
4.4	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	451	-0.75	-338	-12.5	0%	-12.5
4.5	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	400	-0.25	-100	-3.7	0%	-3.7
4.6	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	51	-0.25	-13	-0.5	0%	-0.5
5.1	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	63	0.50	32	1.2	0%	1.2
5.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	63	varies	2	0.1	0%	0.1
5.3	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	63	varies	-32	-1.2	0%	-1.2
5.4	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	63	-0.50	-32	-1.2	0%	-1.2
5.5	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	63	-0.42	-26	-1.0	0%	-1.0
5.6	Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	63	-0.42	-26	-1.0	0%	-1.0

**Computation Summary**

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

Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-3.7
Border Timbers Place (placeholder volume)	-2.7
Gravel (for Pavement) Place	-14.5
Play Surface Excavate	169.8
Play Surface Place	-108.1
Subsoil Excavate	5.7
Subsoil Place	-158.8
Topsoil Excavate	52.0
Topsoil Place	-48.6
Concrete Place	-1.5
Concrete Excavate	0.7
<b>Grand Total</b>	<b>-109.7</b>

6.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1312	0.50	656	24.3	0%	24.3
6.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1312	varies	6	0.2	0%	0.2
6.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1312	varies	-480	-17.8	0%	-17.8
6.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1312	-0.50	-656	-24.3	0%	-24.3
7.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	954	0.50	477	17.7	0%	17.7
7.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	954	varies	4	0.1	0%	0.1
7.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	954	varies	-430	-15.9	0%	-15.9
7.4	Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	954	-1.00	-954	-35.3	0%	-35.3
8.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	30	0.50	15	0.6	0%	0.6
8.2	Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	30	varies	0	0.0	0%	0.0
8.3	Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	30	varies	-16	-0.6	0%	-0.6
8.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	30	-1.00	-30	-1.1	0%	-1.1
9.1	Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	45	1.42	63	2.3	0%	2.3
9.2	Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	45	varies	0	0.0	0%	0.0
9.3	Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	45	varies	-36	-1.3	0%	-1.3
9.4	Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	45	-0.50	-22	-0.8	0%	-0.8
9.5	Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	34	-0.42	-14	-0.5	0%	-0.5
9.6	Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	11	-0.42	-5	-0.2	0%	-0.2
10.1	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1208	1.42	1711	63.4	0%	63.4
10.2	Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	1208	varies	0	0.0	0%	0.0
10.3	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1208	varies	-1509	-55.9	0%	-55.9
10.4	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1208	-0.50	-604	-22.4	0%	-22.4
11.1	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1944	1.42	2754	102.0	0%	102.0
11.2	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	1944	varies	0	0.0	0%	0.0
11.3	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	1944	varies	-1785	-66.1	0%	-66.1
11.4	Play Surface to Play Surface	Play Surface Place	Place 12in rubber mulch play surface	n/a	n/a	1944	-1.00	-1944	-72.0	0%	-72.0
12.1	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	40	1.42	57	2.1	0%	2.1
12.2	Play Surface to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	40	varies	0	0.0	0%	0.0
12.3	Play Surface to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	40	varies	-36	-1.3	0%	-1.3
12.4	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	40	-1.00	-40	-1.5	0%	-1.5

**Reorganized into bid table items**

Bid Item	Quantity	Units
20101 Excavation Cut	58	CY
20103 Excavation Cut - Pea Gravel	170	CY
20202 Fill Borrow	153	CY
20221 Topsoil	291	SY
40102 Crushed Aggregate Base Course Gradation No. 2	29	tons
40202 HMA Pavement 4 LT 58-28 S	8.0	tons
90004 Playground Surfacing - Rubber Mulch	119	CY

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210 Martin Luther King, Jr. Blvd.  
Madison, WI 53703

*play*  
**MADISON**  
**PARKS**

Graphical Scale  
0 20



PROJECT:

**2020 PLAYGROUND IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:

**WINDOM WAY PARK  
1920 WINDOM WAY  
MADISON, WI 53704**

*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 2020-05-07*

PUBLIC WORKS PROJECT #:  
**8538**

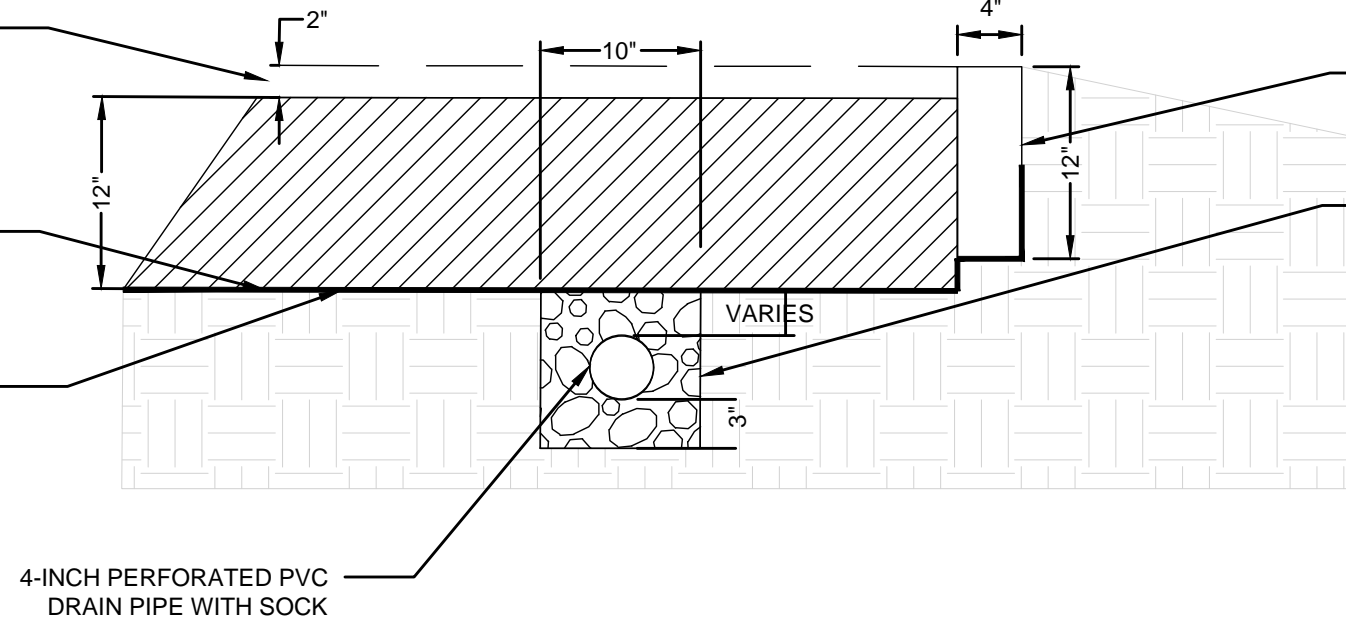
SHEET TITLE:  
**DESIGN COMPUTATIONS**

SHEET NUMBER:  
**4.6**

ENGINEERED WOOD FIBER 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)

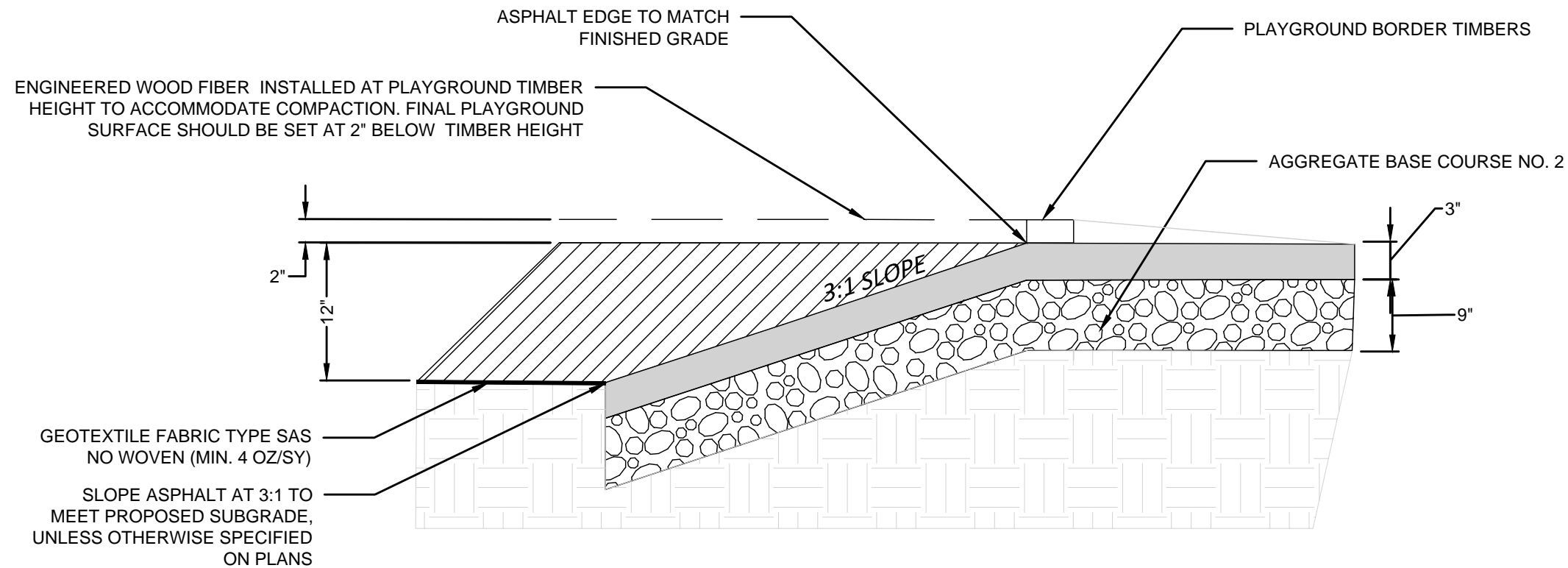
PLAYGROUND SUBGRADE - MIN. 12" FROM PLAYGROUND SURFACE FINISHED GRADE



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

1  
5.1  
PLAYGROUND SURFACING WITH UNDERDRAIN  
NOT TO SCALE



ASPHALT EDGE TO MATCH FINISHED GRADE

ENGINEERED WOOD FIBER 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)

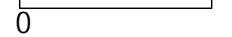
SLOPE ASPHALT AT 3:1 TO MEET PROPOSED SUBGRADE, UNLESS OTHERWISE SPECIFIED ON PLANS

2  
5.1  
ASPHALT AT PLAYGROUND EDGE  
NOT TO SCALE

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PARKS**

Graphical Scale



PROJECT:

**2020 PLAYGROUND  
IMPROVEMENTS -  
GROUP 2**

PROJECT ADDRESS:

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ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

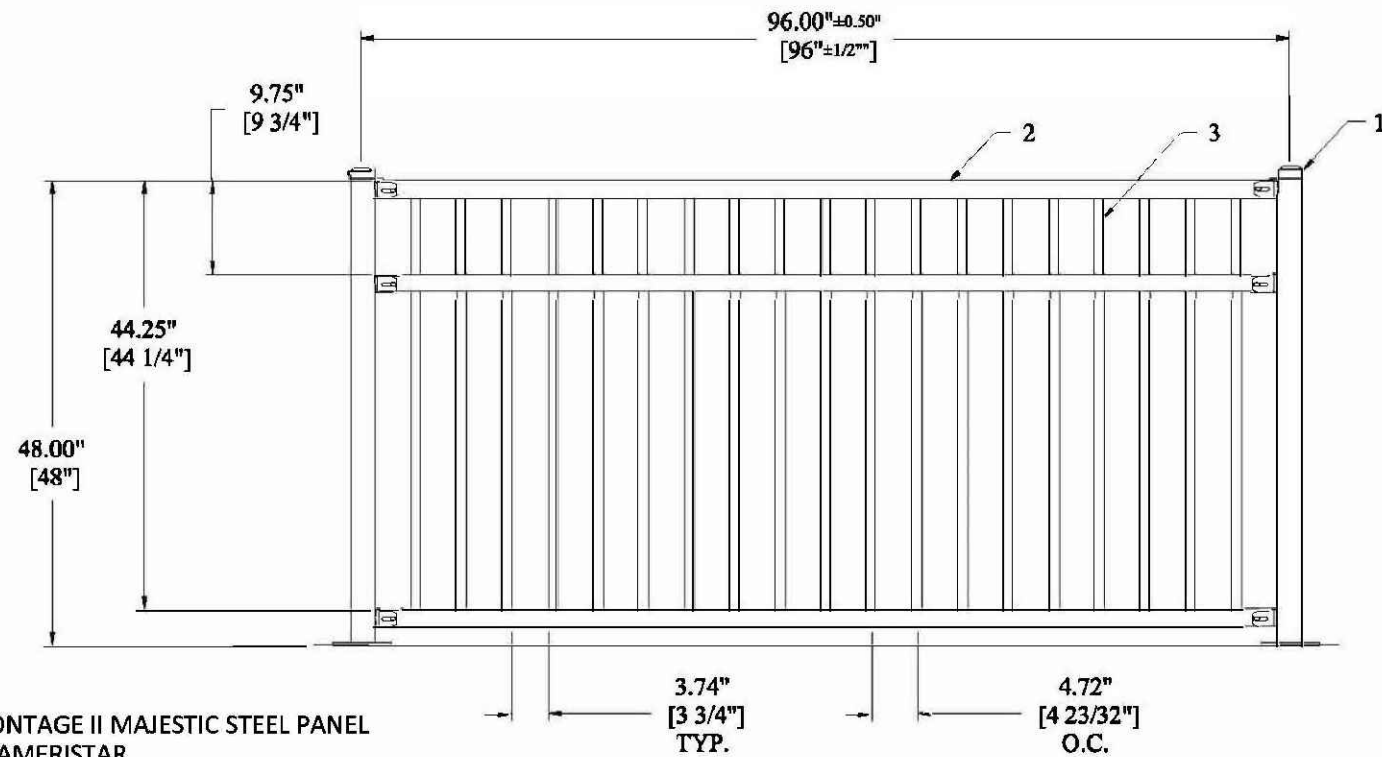
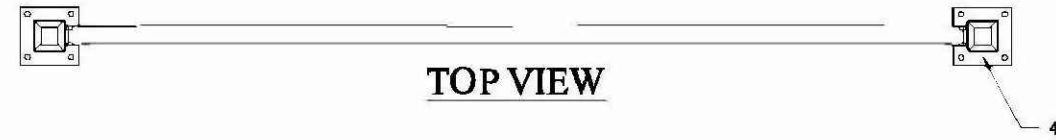
SHEET TITLE:  
**DETAILS -  
PLAYGROUND &  
PAVEMENT EDGE**

SHEET NUMBER:

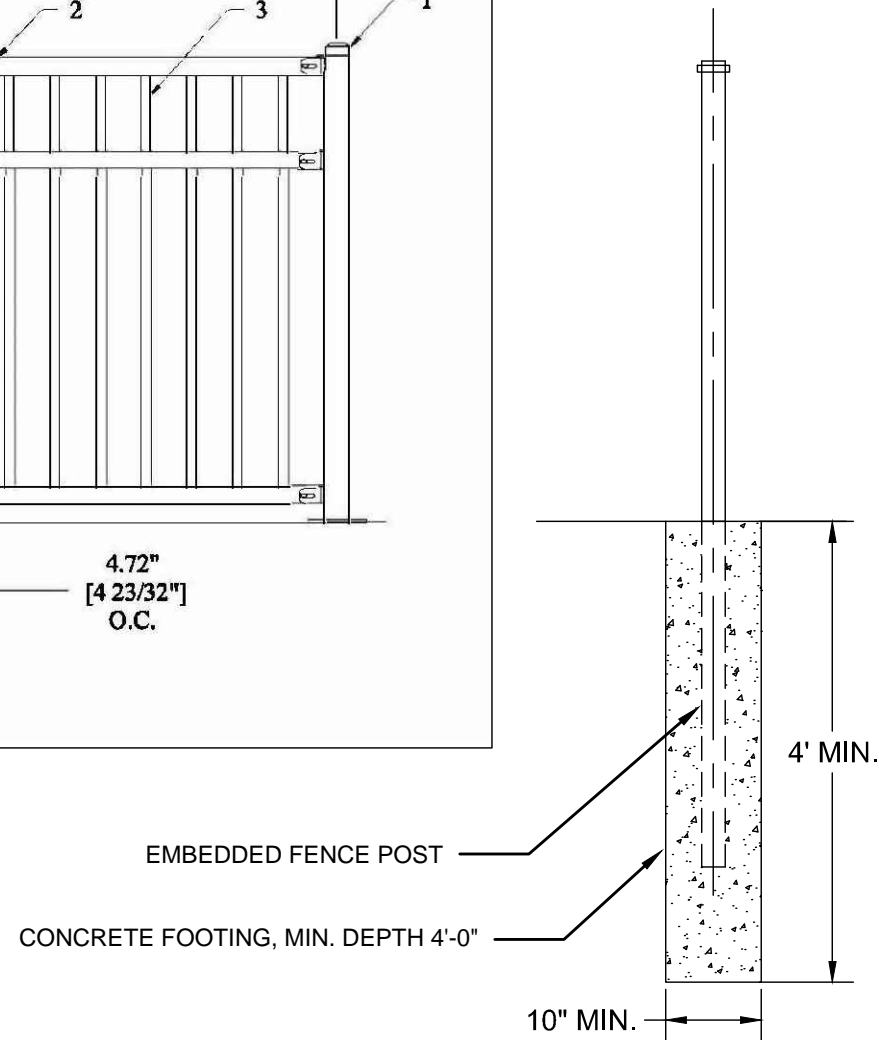
**5.1**

**DESCRIPTION:**

1. 2 1/2" SQ. POST
2. 1 3/4" SQ. X 12 GA. CHANNEL RAIL
3. 1" SQ. X 14GA. PICKET
4. BASE PLATE  
BX301 BRACKET

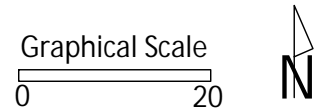


NOTE:  
 PRODUCT SHOWN IS MONTAGE II MAJESTIC STEEL PANEL  
 AS MANUFACTURED BY AMERISTAR  
 1555 N. MINGO  
 TULSA, OK 74116  
 WWW.AMERISTARFENCE.COM



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 Madison, WI 53703

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**PARKS**



PROJECT:  
**2020 PLAYGROUND  
 IMPROVEMENTS - GROUP 2**

PROJECT ADDRESS:  
**SHERIDAN TRIANGLE  
 PARK  
 1301 FARRAGUT ST  
 MADISON, WI 53704**

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ITEM	DATE
ADVERTISED TO BID	2020-05-07

PUBLIC WORKS PROJECT #:  
**8538**

SHEET TITLE:  
**DETAILS -  
 ORNAMENTAL METAL  
 FENCING**

SHEET NUMBER:  
**5.2**