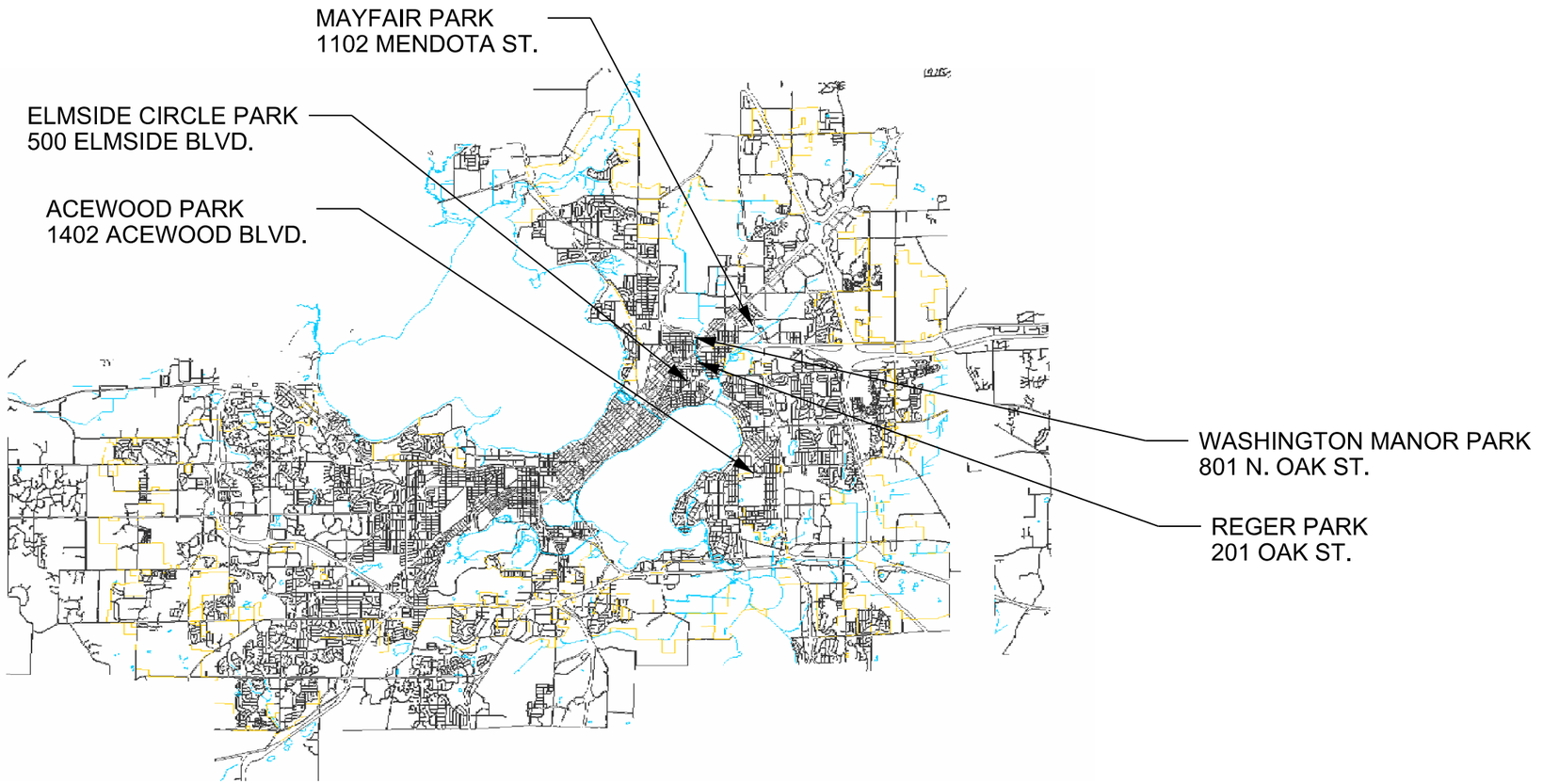
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

CONTRACT 8172

ACEWOOD PARK - MUNIS # 17370 -51 -130
ELMSIDE CIRCLE PARK - MUNIS # 17371 -51 -130
MAYFAIR PARK - MUNIS # 17373 -51 -130
REGER PARK - MUNIS # 17369 -51 -130
WASHINGTON MANOR PARK - MUNIS # 17506 -51 -130



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

N

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WISCONSIN
MICHAEL STURM
LA-580-14
MADISON
WIS.
LANDSCAPE ARCHITECT

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 by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:

SHEET NUMBER:

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2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2
CONTRACT 8172

SHEET INDEX:

1.1	Acewood Park-	Project Location and Site Access	4.1	Reger Park-	Project Location and Site Access
1.2	Acewood Park-	Demolition and Protection Plan	4.2	Reger Park-	Demolition and Protection Plan
1.3	Acewood Park-	Site Plan	4.3	Reger Park-	Site Plan
1.4	Acewood Park-	Grading and Erosion Control Plan	4.4	Reger Park-	Grading and Erosion Control Plan
1.5	Acewood Park-	Drain Tile Schedules	4.5	Reger Park-	Drain Tile Schedules
1.6	Acewood Park-	Design Computations	4.6	Reger Park-	Design Computations
2.1	Elmside Circle Park-	Project Location and Site Access	5.1	Washington Manor Park-	Project Location and Site Access
2.2	Elmside Circle Park-	Demolition and Protection Plan	5.2	Washington Manor Park-	Demolition and Protection Plan
2.3	Elmside Circle Park-	Site Plan	5.3	Washington Manor Park-	Site Plan
2.4	Elmside Circle Park-	Grading and Erosion Control Plar	5.4	Washington Manor Park-	Grading and Erosion Control Plan
2.5	Elmside Circle Park-	Drain Tile Schedules	5.5	Washington Manor Park-	Drain Tile Schedules
2.6	Elmside Circle Park-	Design Computations	5.6	Washington Manor Park-	Design Computations
3.1	Mayfair Park-	Project Location and Site Access	6.1	Typical Playground Surfacing with Underdrain	
3.2	Mayfair Park-	Demolition and Protection Plan	6.2	Pavement Edge at Playground	
3.3	Mayfair Park-	Site Plan	6.3	Ornamental Metal Fencing	
3.4	Mayfair Park-	Grading and Erosion Control Plan			
3.5	Mayfair Park-	Drain Tile Schedules			
3.6	Mayfair Park-	Design Computations			

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N

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:

SHEET NUMBER:

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ACEWOOD PARK

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

DRAINTILE OUTFALL, SEE SHEETS 1.4 AND 1.5

EX. SHELTER

CONSTRUCTION ACCESS IS FROM ACEWOOD BLVD. THE CONTRACTOR SHALL PROTECT EXISTING SURFACES (ASPHALT, CURB, LAWN, SIDEWALK, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

EX. BASKETBALL COURTS

ACEWOOD BLVD.

M:\Maps\parks\Acewood\Playground\Acewood Playground 2018.dgn

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play MADISON PARKS

Graphical Scale
0 30 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ACEWOOD PARK
1402 ACEWOOD BLVD.
MADISON, WI 53716

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:

8172

SHEET TITLE:

PROJECT LOCATION AND SITE ACCESS

SHEET NUMBER:

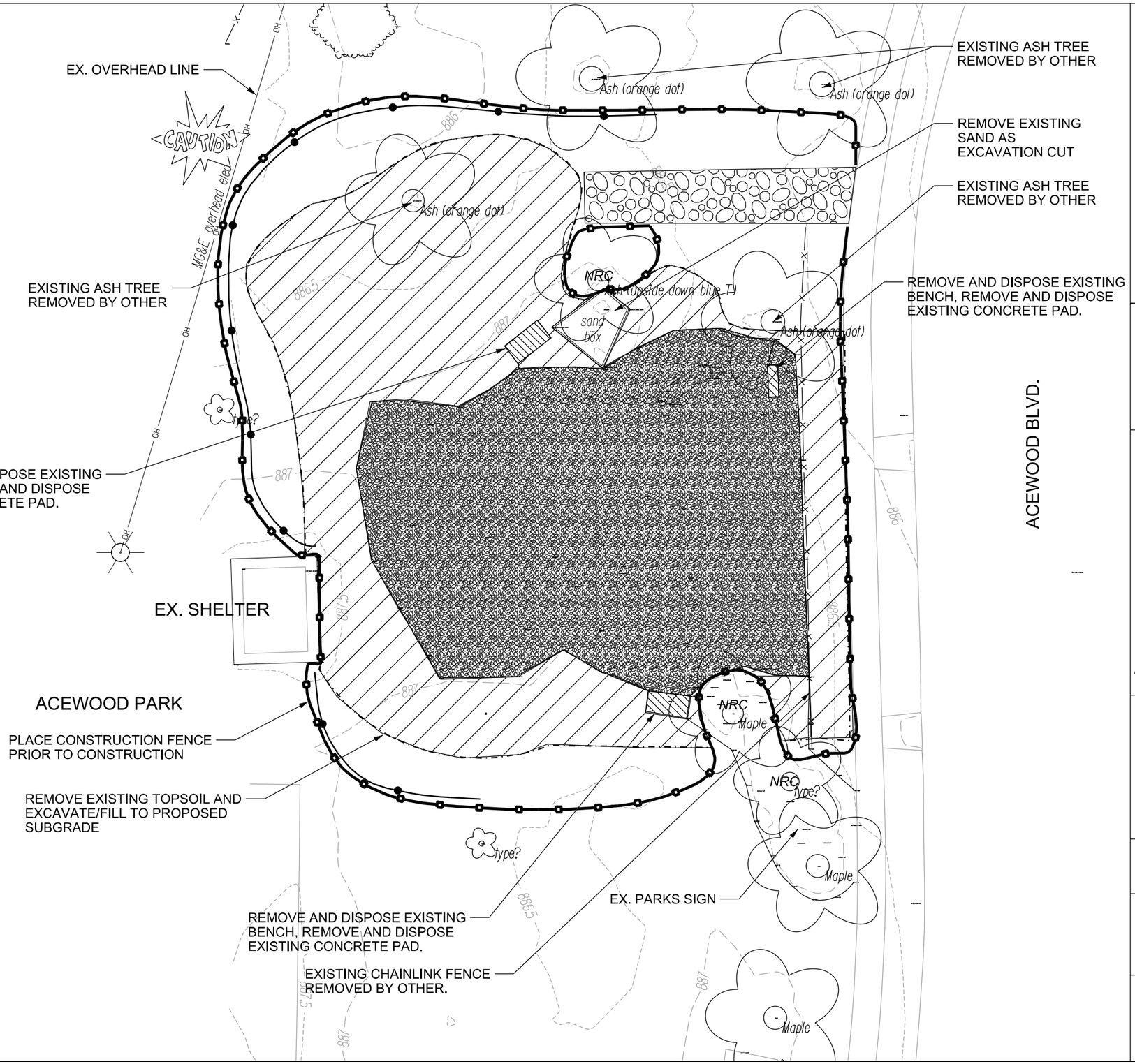
1.1

LEGEND

- REMOVE EX. LAWN
- REMOVE EX. PEA GRAVEL
- REMOVE EX. CONCRETE
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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Madison, WI 53703

play MADISON PARKS

Graphical Scale

0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ACEWOOD PARK
1204 ACEWOOD BLVD.
MADISON, WI 53716

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:

8172

SHEET TITLE:

DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:

1.2

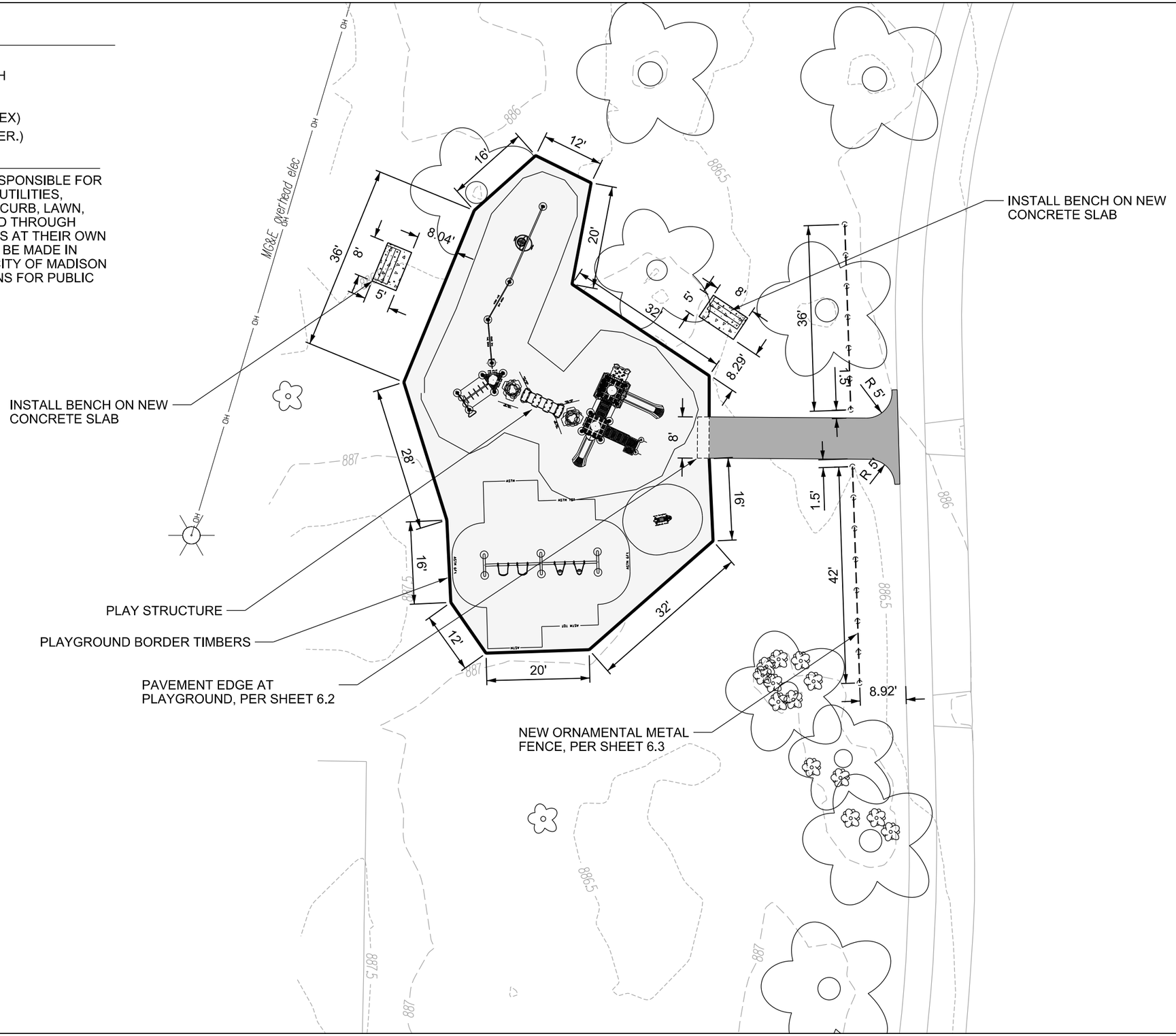
M:\Maps\parks\Acewood\Playground\Acewood Playground 2018.dgn

LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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play **MADISON PARKS**

Graphical Scale
0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ACEWOOD PARK
1204 ACEWOOD BLVD.
MADISON, WI 53716

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ITEM	DATE
Advertised by: MS	*05-08-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
1.3

M:\Maps\parks\Acewood\Playground\Acewood Playground 2018.dgn

LEGEND

- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- ST — PRO. DRAINTILE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

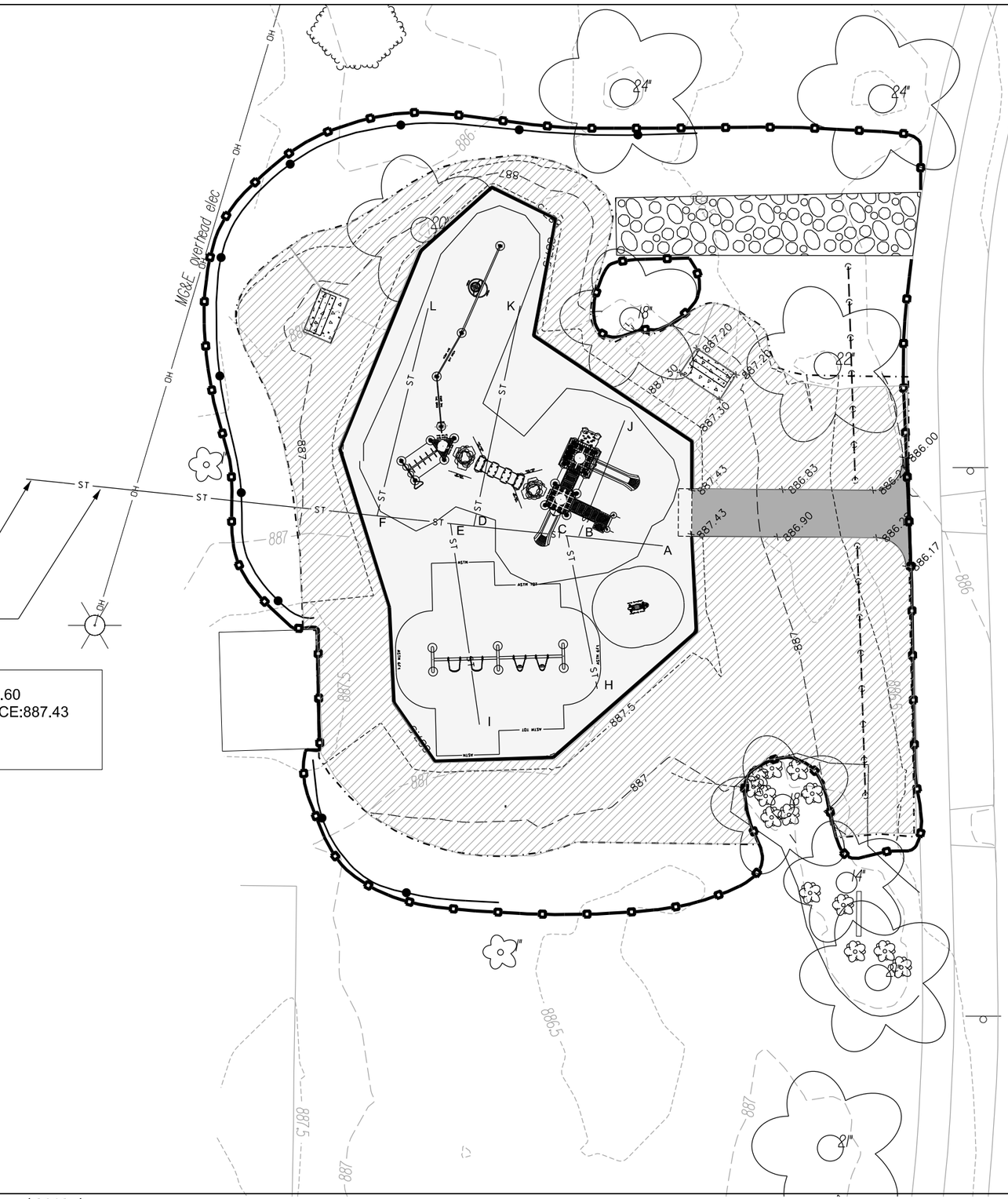
NOTES

1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

DRAIN TILE SYSTEM,
EXTENDS 250 FT TO WEST. SEE SHEET 1.1.

DRAIN TILE SYSTEM,
SEE SHEET 1.5 FOR INVERTS, PIPE LENGTHS AND SLOPES.

EDGE OF PLAYGROUND BORDER TIMBERS: 887.60
ELEVATION OF FINISHED PLAYGROUND SURFACE:887.43
PLAYGROUND SUBGRADE ELEVATION: 886.43
ASPHALT AT PLAYGROUND ELEVATION: 887.43



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PARKS DIVISION

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play MADISON PARKS

Graphical Scale
0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ACEWOOD PARK
1204 ACEWOOD BLVD.
MADISON, WI 53716

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
1.4

M:\Maps\parks\Acewood\Playground\Acewood Playground 2018.dgn

Acewood Park Playground				
Drain Tile Invert (Flowline) Elevations				
Point	Invert (ft)	Distance from top of timbers 887.43 (INCHES)	Ahead length	
A	885.84	19.1	14.2	
B	885.75	20.2	2.0	
C	885.74	20.3	15.7	
D	885.64	21.5	3.9	
E	885.61	21.8	12.4	
F	885.53	22.8	243.1	
G	883.00	53.2	0.0	
H	885.84	19.1	26.2	
I	885.84	19.1	34.1	
J	885.84	19.1	20.9	
K	885.84	19.1	37.8	
L	885.84	19.1	35.9	

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	14.2	-0.63	Underdrain
B	C	2.0	-0.50	Underdrain
C	D	15.7	-0.64	Underdrain
D	E	3.9	-0.77	Underdrain
E	F	12.4	-0.64	Underdrain
F	G	253.0	-1.00	Underdrain
H	C	26.2	-0.38	Underdrain
I	E	34.1	-0.67	Underdrain
J	B	20.9	-0.43	Underdrain
K	D	37.8	-0.53	Underdrain
L	F	35.9	-0.86	Underdrain
	Total	456.1		

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PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ACEWOOD PARK
1204 ACEWOOD BLVD.
MADISON, WI 53716

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
1.5

M:\Maps\parks\Acewood\Playground\Acewood Playground 2018.dgn

Acewood Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 5/3/2018

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)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
		Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3680	0.50	1840	68.1	0%	68.1
		Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	3680	varies	25	0.9	0%	0.9
		Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	3680	varies	-1072	-39.7	0%	-39.7
		Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	3680	-0.50	-1840	-68.1	0%	-68.1
		Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1971	1.42	2792	103.4	0%	103.4
		Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1971	varies	-2549	-94.4	0%	-94.4
		Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1971	-0.50	-985	-36.5	0%	-36.5
		Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2508	1.42	3553	131.6	0%	131.6
		Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	2508	varies	0	0.0	0%	0.0
		Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2508	varies	-1967	-72.8	0%	-72.8
		Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	2508	-1.00	-2508	-92.9	0%	-756.0
		Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	46	1.42	65	2.4	0%	2.4
		Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	46	varies	0	0.0	0%	0.0
		Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	46	varies	-42	-1.6	0%	-1.6
		Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	46	-1.00	-46	-1.7	0%	-23.4
		Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	104	0.50	52	1.9	0%	1.9
		Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	104	varies	54	2.0	0%	2.0
		Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	104	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	104	-0.75	-78	-2.9	0%	-2.9
		Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	104	-0.25	-26	-1.0	0%	-1.0
		Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	0	-0.25	0	0.0	0%	0.0
		Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	44	0.50	22	0.8	0%	0.8
		Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	44	varies	2	0.1	0%	0.1
		Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	44	varies	-14	-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	44	-1.00	-44	-1.6	0%	-1.6
		Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	251	1.42	356	13.2	0%	13.2
		Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17n	Pro-12in	251	varies	0	0.0	0%	0.0
		Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	251	varies	-211	-7.8	0%	-7.8
		Play Surface to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	251	-0.75	-189	-7.0	0%	-7.0
		Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	251	-0.25	-63	-2.3	0%	-2.3
		Play Surface to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	0	-0.25	0	0.0	0%	0.0
		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	1153	0.50	577	21.4	0%	21.4
		Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1153	varies	40	1.5	0%	1.5
		Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1153	varies	-258	-9.6	0%	-9.6
		Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1153	-1.00	-1153	-42.7	0%	-42.7

Acewood Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 5/3/2018

Dervied 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 Unfac-tored volume (cu yd)
Asphalt Place	-3.3
Border Timbers Place (placeholder volume)	-3.3
Gravel (for Pavement) Place	-9.9
Play Surface Excavate	250.6
Play Surface Place	-135.6
Subsoil Excavate	3.9
Subsoil Place	-225.9
Topsoil Excavate	92.2
Topsoil Place	-104.6
Asphalt Excavate	0.0
Grand Total	**-135.9**

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
		CY	
20101 Excavation Cut	343	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel	251	CY	= Play Surface Excavate
20201 Fill	222	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	627	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	19.8	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	6.7	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	152	CY	= Play Surface Place*1.10

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Department of Public Works
PARKS DIVISION

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PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ACEWOOD PARK
1204 ACEWOOD BLVD.
MADISON, WI 53716

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6

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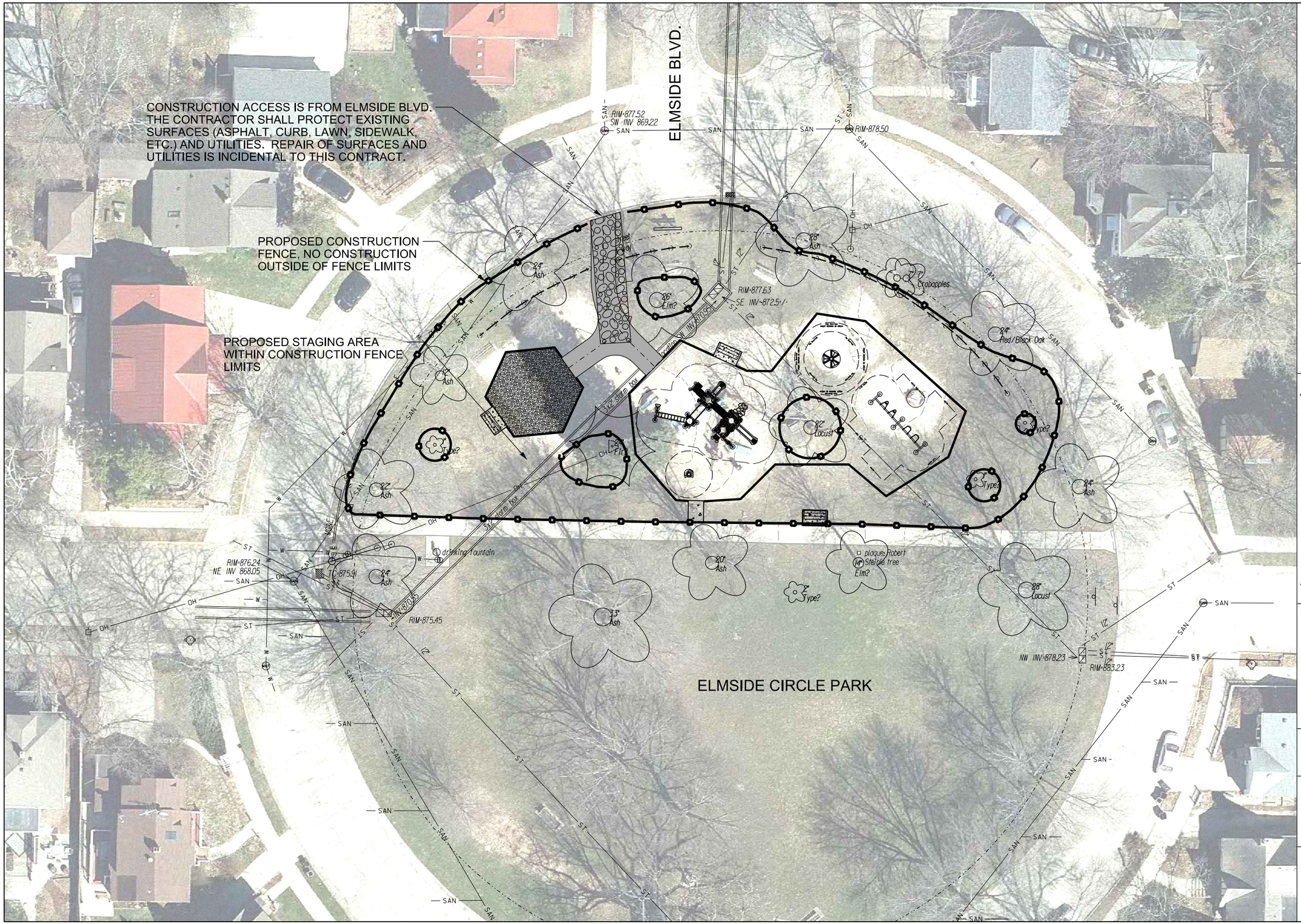

City of Madison
Department of Public Works
PARKS DIVISION

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play MADISON PARKS

Graphical Scale
0 30 ft
N

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ELMSIDE CIRCLE PARK
500 ELMSIDE BLVD.
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 by: MS	*05-03-18*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
PROJECT LOCATION AND SITE ACCESS

SHEET NUMBER:
2.1

M:\Maps\parks\Elmside\Playground\Elmside Circle Playground 2018.dgn

LEGEND

- REMOVE EX. LAWN
- REMOVE EX. PEA GRAVEL
- REMOVE EX. ASPHALT
- REMOVE EX. CONCRETE
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

RIM=877.52
SW INV 869.22

RIM=878.50

REMOVE AND DISPOSE EXISTING BENCH, REMOVE AND DISPOSE EXISTING CONCRETE PAD

REMOVE AND DISPOSE EXISTING BENCH, REMOVE AND DISPOSE EXISTING CONCRETE PAD

EXISTING ASH TREE REMOVED BY OTHER

EXISTING ASH TREE REMOVED BY OTHER

CAUTION EXISTING STORM SEWER LINES - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

EXISTING ASH TREE REMOVED BY OTHER

EXISTING ASH TREE REMOVED BY OTHER

CAUTION EXISTING OVERHEAD UTILITY LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

NO EXCAVATION IN EXISTING TREE ROOT ZONE.

REMOVE AND DISPOSE EXISTING BENCH, REMOVE AND DISPOSE EXISTING CONCRETE PAD

RIM=875.45

NW INV=878.23

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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 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ELMSIDE CIRCLE PARK
500 ELMSIDE BLVD.
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 by: MS	05-03-2018

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:

DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:

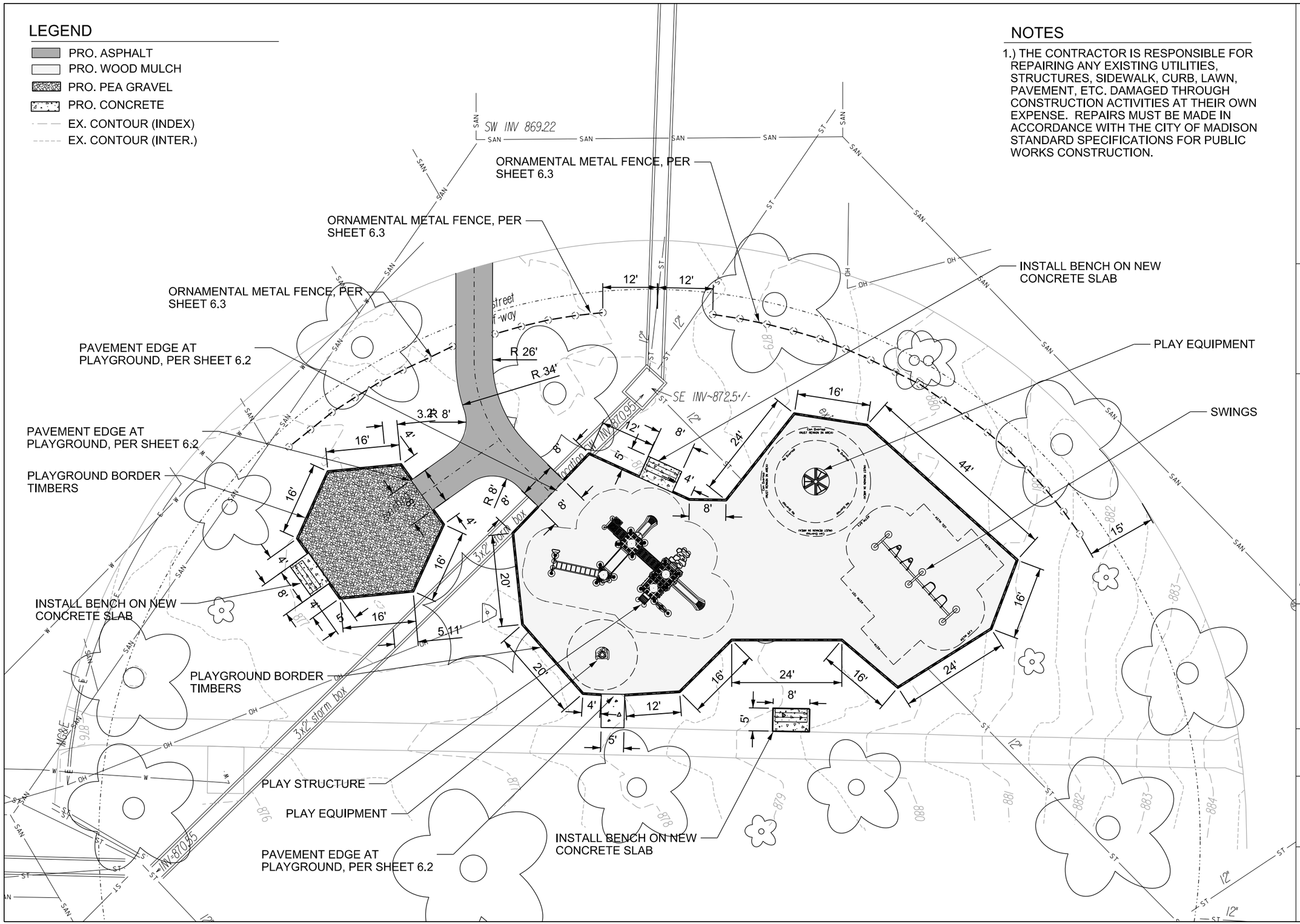
2.2

LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. PEA GRAVEL
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



City of Madison

Department of Public Works

PARKS DIVISION

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Madison, WI 53703

play MADISON PARKS

Graphical Scale
0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ELMSIDE CIRCLE PARK
500 ELMSIDE BLVD.
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.3

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LEGEND

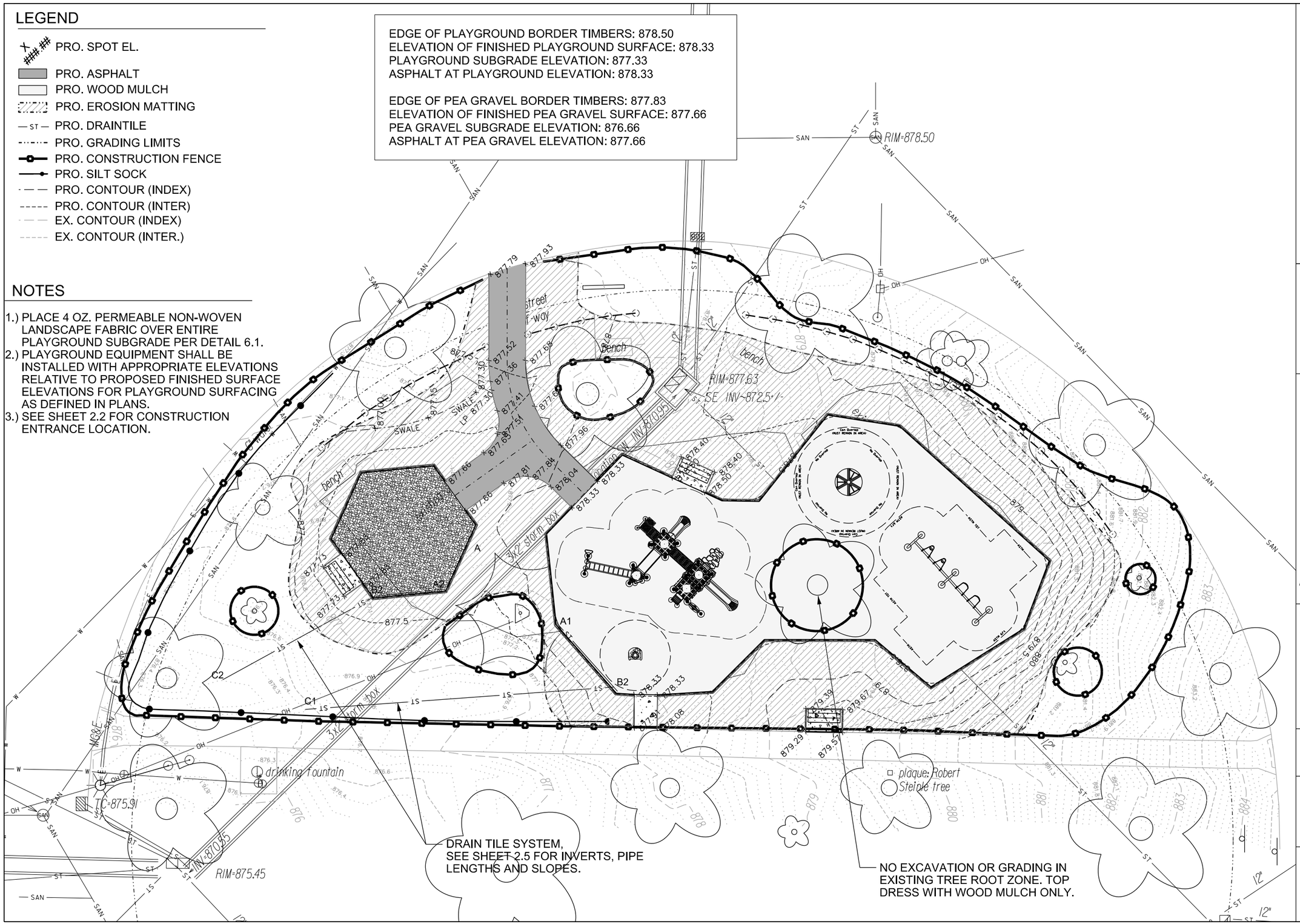
- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. EROSION MATTING
- PRO. DRAINTILE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.
3.) SEE SHEET 2.2 FOR CONSTRUCTION ENTRANCE LOCATION.

EDGE OF PLAYGROUND BORDER TIMBERS: 878.50
ELEVATION OF FINISHED PLAYGROUND SURFACE: 878.33
PLAYGROUND SUBGRADE ELEVATION: 877.33
ASPHALT AT PLAYGROUND ELEVATION: 878.33

EDGE OF PEA GRAVEL BORDER TIMBERS: 877.83
ELEVATION OF FINISHED PEA GRAVEL SURFACE: 877.66
PEA GRAVEL SUBGRADE ELEVATION: 876.66
ASPHALT AT PEA GRAVEL ELEVATION: 877.66



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Department of Public Works

PARKS DIVISION

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Madison, WI 53703

play MADISON PARKS

Graphical Scale
0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ELMSIDE CIRCLE PARK
500 ELMSIDE BLVD.
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
2.4

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Elmside Park Playground			
Drain Tile Invert (Flowline) Elevations			
Point	Invert (ft)	Distance from top of timbers 878.50(INCHES)	Ahead length
A1	877.00	18.0	18.5
B1	876.87	19.6	67.5
C1	876.40	25.2	0.0
Point	Invert (ft)	Distance from top of timbers 877.83(INCHES)	Ahead length
A2	876.32	18.1	15.0
B2	876.29	26.5	37.9
C2	876.40	25.2	0.0

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A1	B1	18.5	-0.70	Underdrain
B1	C1	67.5	-0.70	Underdrain
	Total	86.0		

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A2	B2	15.0	-0.20	Underdrain
B2	C2	37.9	0.29	Underdrain
	Total	52.9		

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PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ELMSIDE CIRCLE PARK
500 ELMSIDE BLVD.
MADISON, WI 53704

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
2.5

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Elmside Circle Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 4/3/2018

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)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	4923	0.50	2462	91.2	0%	91.2
	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	4923	varies	1228	45.5	0%	45.5
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	4923	varies	-591	-21.9	0%	-21.9
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	4923	-0.50	-2462	-91.2	0%	-91.2
	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1564	1.42	2216	82.1	0%	82.1
	Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	1564	varies	11	0.4	0%	0.4
	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1564	varies	-1907	-70.6	0%	-70.6
	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1564	-0.50	-782	-29.0	0%	-29.0
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2672	1.42	3785	140.2	0%	140.2
	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	2672	varies	780	28.9	0%	28.9
	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2672	varies	-1914	-70.9	0%	-70.9
	Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	2672	-1.00	-2672	-99.0	0%	-99.0
	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	67	1.42	95	3.5	0%	3.5
	Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	67	varies	14	0.5	0%	0.5
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	67	varies	-49	-1.8	0%	-1.8
	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	67	-1.00	-67	-2.5	0%	-2.5
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	297	0.50	148	5.5	0%	5.5
	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	297	varies	151	5.6	0%	5.6
	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	297	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	297	-0.75	-223	-8.2	0%	-8.2
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	297	-0.25	-74	-2.7	0%	-2.7
	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	55	0.50	28	1.0	0%	1.0
	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	55	varies	76	2.8	0%	2.8
	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	55	varies	-3	-0.1	0%	-0.1
	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	55	-1.00	-55	-2.0	0%	-2.0
	Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	297	1.42	421	15.6	0%	15.6
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	297	varies	0	0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	297	varies	-279	-10.3	0%	-10.3
	Play Surface to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	297	-0.75	-223	-8.3	0%	-8.3
	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	297	-0.25	-74	-2.8	0%	-2.8
	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	1657	0.50	829	30.7	0%	30.7
	Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1657	varies	2596	96.1	0%	96.1
	Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1657	varies	-3	-0.1	0%	-0.1
	Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1657	-1.00	-1657	-61.4	0%	-61.4
	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1774	0.50	887	32.9	0%	32.9
	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1774	varies	2609	96.6	0%	96.6
	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1774	varies	-13	-0.5	0%	-0.5
	Grass to Concrete	Gravel (for Pavement) Place	Place 7in gravel base	n/a	n/a	1774	-0.58	-1029	-38.1	0%	-38.1
	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	1774	-0.42	-738	-27.3	0%	-27.3
	Concrete to Grass	Concrete Excavate	Excavate 12in concrete	n/a	n/a	100	1.00	100	3.7	0%	3.7
	Concrete to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-12in	Pro-6in	100	varies	0	0.0	0%	0.0
	Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-12in	Pro-6in	100	varies	-73	-2.7	0%	-2.7
	Concrete to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	100	-0.50	-50	-1.9	0%	-1.9
	Play Surface to Pea Gravel	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	557	1.42	789	29.2	0%	29.2
	Play Surface to Pea Gravel	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	557	varies		0.0	0%	0.0
	Play Surface to Pea Gravel	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	557	varies	-541	-20.0	0%	-20.0
	Play Surface to Pea Gravel	New Pea Gravel Place	Place 12in Pea gravel	n/a	n/a	557	-1.00	-557	-20.6	0%	-20.6
	Grass to Pea Gravel	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	92	0.50	46	1.7	0%	1.7
	Grass to Pea Gravel	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	92	varies	5	0.2	0%	0.2
	Grass to Pea Gravel	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	92	varies	2	0.1	0%	0.1
	Grass to Pea Gravel	New Pea Gravel Place	Place 12in Pea gravel	n/a	n/a	92	-1.00	-92	-3.4	0%	-3.4

Elmside Circle Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 5/3/2018

Dervied 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 Unfac-tored volume (cu yd)
Asphalt Place	-5.5
Border Timbers Place (placeholder volume)	-4.5
Gravel (for Pavement) Place	-54.6
Play Surface Excavate	270.6
Play Surface Place	-160.3
Subsoil Excavate	273.8
Subsoil Place	-196.0
Topsoil Excavate	162.9
Topsoil Place	-122.0
Asphalt Excavate	0.0
Concrete Excavate	3.7
New Pea Gravel Place	-24.0
Concrete Place	-27.3
Grand Total	**116.7**

		Units	Relation to Table Above
20101 Excavation Cut	434	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel	271	CY	= Play Surface Excavate
20201 Fill	-78	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	731	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	109.2	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	11.9	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	176	CY	= Play Surface Place*1.10
90010 - Playground Surfacing - Pea Gravel	26	CY	= New Pea Gravel Place*1.10

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play MADISON PARKS

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

ELMSIDE CIRCLE PARK
500 ELMSIDE BLVD.
MADISON, WI 53704

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
2.6

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Department of Public Works

PARKS DIVISION

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play MADISON PARKS

Graphical Scale
0 30 ft
N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

MAYFAIR PARK
1102 MENDOTA ST.
MADISON, WI 53714

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ITEM	DATE
Advertised by: MS	*05-03-18*

PUBLIC WORKS PROJECT #:

8172

SHEET TITLE:

PROJECT LOCATION AND SITE ACCESS

SHEET NUMBER:

3.1

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LEGEND

- REMOVE EX. LAWN
- REMOVE EX. PEA GRAVEL
- REMOVE EX. ASPHALT
- REMOVE EX. CONCRETE
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

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EXISTING TREE REMOVED BY OTHER

REMOVE EXISTING PEA GRAVEL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

EXISTING TREE REMOVED BY OTHER

REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

REMOVE EXISTING PEA GRAVEL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

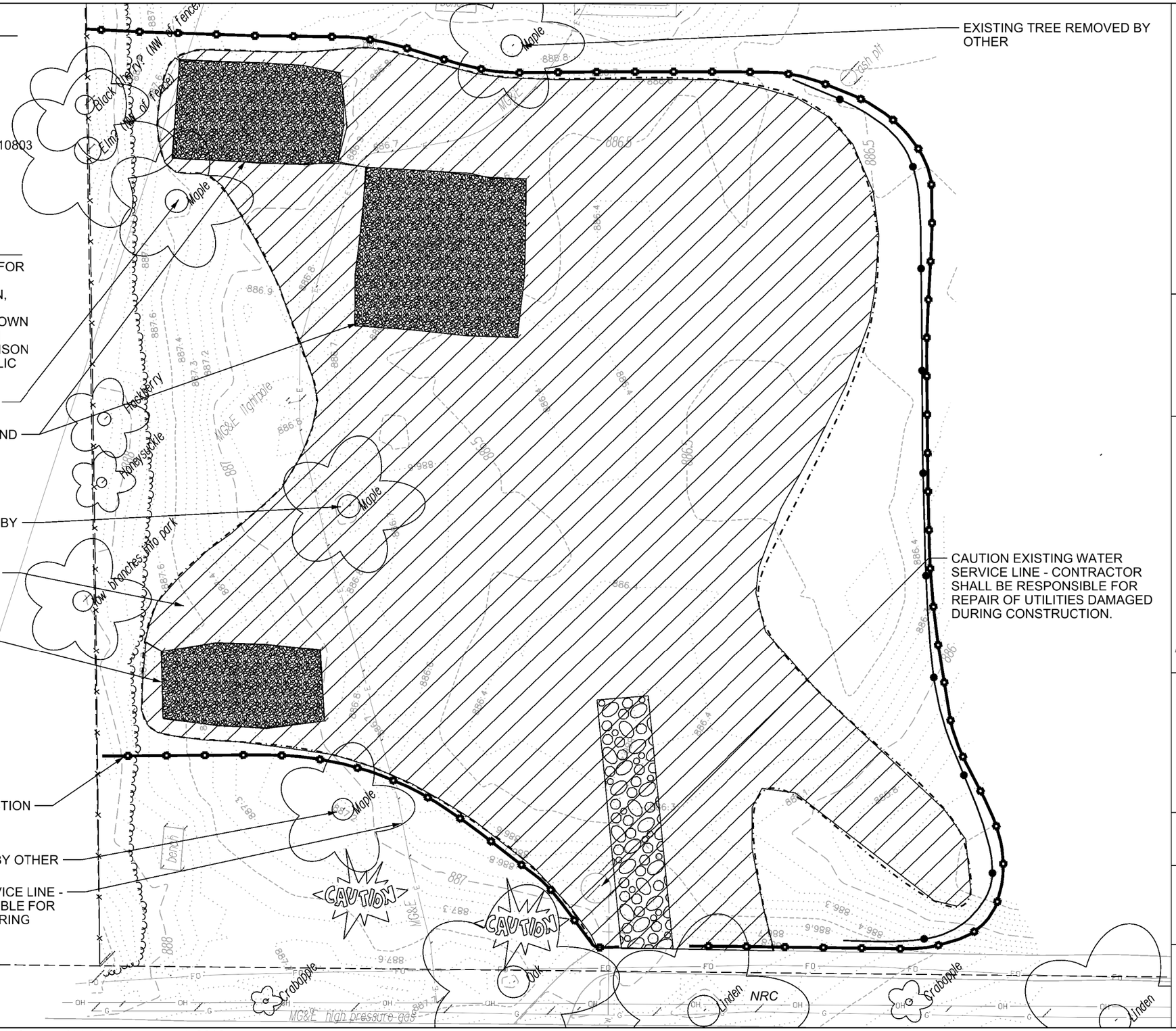
PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

EXISTING TREE REMOVED BY OTHER

CAUTION EXISTING ELECTRIC SERVICE LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

EXISTING TREE REMOVED BY OTHER

CAUTION EXISTING WATER SERVICE LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.



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Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
3.2

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LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
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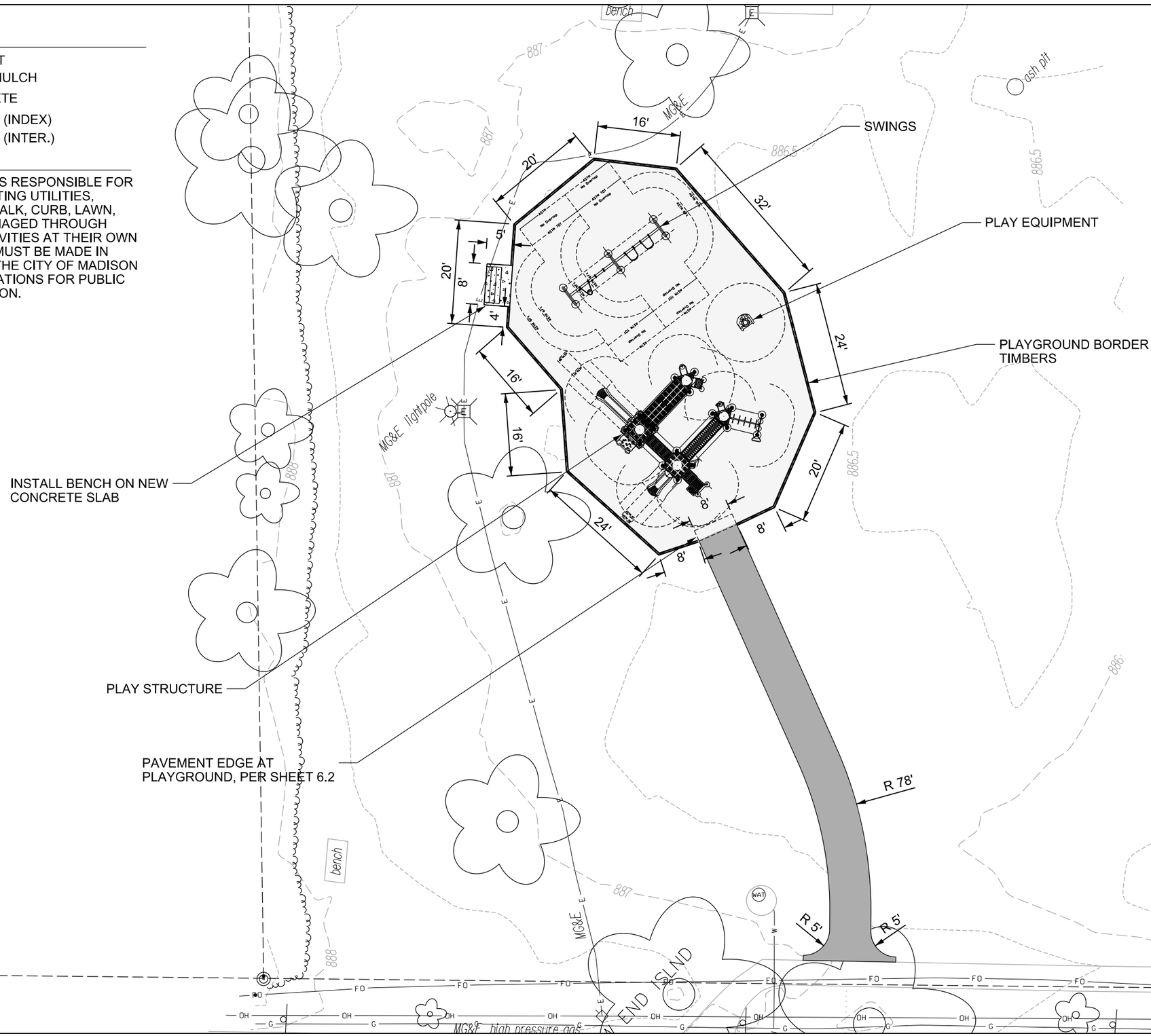

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PROJECT:

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
3.3

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LEGEND

- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- — ST — PRO. DRAINTILE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

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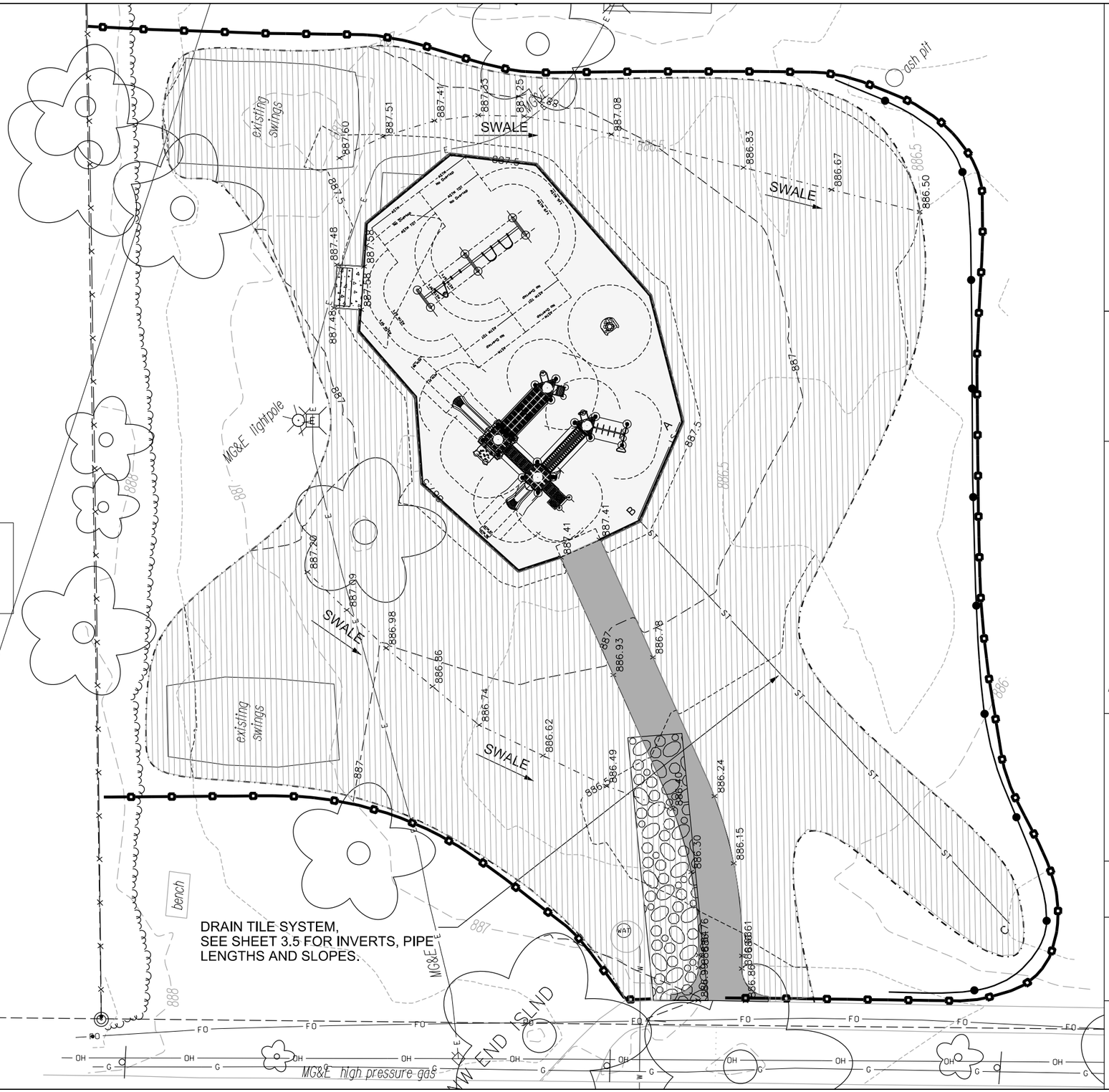
2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

EDGE OF PLAYGROUND BORDER TIMBERS: 887.58
ELEVATION OF FINISHED PLAYGROUND SURFACE: 887.41
PLAYGROUND SUBGRADE ELEVATION: 886.41
ASPHALT AT PLAYGROUND ELEVATION: 887.41



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MAYFAIR PARK
1102 MENDOTA ST.
MADISON, WI 53714

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 by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
3.4

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Mayfair Park Playground				
Drain Tile Invert (Flowline) Elevations				
Point	Invert (ft)	Distance from top of timbers 887.58 (INCHES)	Ahead length	
A	885.82	21.1	19.5	
B	885.77	21.7	101.2	
C	885.50	25.0	0.0	

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	19.5	-0.26	Underdrain
B	C	101.2	-0.27	Underdrain
	Total	120.7		

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

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

MAYFAIR PARK
1102 MENDOTA ST.
MADISON, WI 53714

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
3.5

M:\Maps\parks\Mayfair\Playground 2018\BPW Contract\Mayfair Playground_2018.dgn

Mayfair Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 4/3/2018

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)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	13260	0.50	6630	245.6	0%	245.6
	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	13260	varies	45	1.7	0%	1.7
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	13260	varies	-3871	-143.4	0%	-143.4
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	13260	-0.50	-6630	-245.6	0%	-245.6
	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1121	1.42	1588	58.8	0%	58.8
	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1121	varies	-1133	-42.0	0%	-42.0
	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1121	-0.50	-560	-20.8	0%	-20.8
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	977	1.42	1384	51.3	0%	51.3
	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	977	varies	0	0.0	0%	0.0
	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	977	varies	-1420	-52.6	0%	-52.6
	Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	977	-1.00	-977	-36.2	0%	-36.2
	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	4	1.42	6	0.2	0%	0.2
	Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	4	varies	0	0.0	0%	0.0
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	4	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	4	-1.00	-4	-0.2	0%	-0.2
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	731	0.50	365	13.5	0%	13.5
	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	731	varies	108	4.0	0%	4.0
	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	731	varies	-55	-2.0	0%	-2.0
	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	731	-0.75	-548	-20.3	0%	-20.3
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	731	-0.25	-183	-6.8	0%	-6.8
	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	0	-0.25	0	0.0	0%	0.0
	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	63	0.50	31	1.2	0%	1.2
	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	63	varies	0	0.0	0%	0.0
	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	63	varies	-29	-1.1	0%	-1.1
	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	63	-1.00	-63	-2.3	0%	-2.3
	Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a		-0.75	0	0.0	0%	0.0
	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a		-0.25	0	0.0	0%	0.0
	Play Surface to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a		-0.25	0	0.0	0%	0.0
	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	2101	0.50	1051	38.9	0%	38.9
	Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	2101	varies	0	0.0	0%	0.0
	Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	2101	varies	-938	-34.7	0%	-34.7
	Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	2101	-1.00	-2101	-77.8	0%	-77.8

Mayfair Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 5/3/2018

Dervied 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 Unfac-tored volume (cu yd)
Asphalt Place	-6.8
Border Timbers Place (placeholder volume)	-2.5
Gravel (for Pavement) Place	-20.3
Play Surface Excavate	110.3
Play Surface Place	-114.0
Subsoil Excavate	4.6
Subsoil Place	-274.9
Topsoil Excavate	299.2
Topsoil Place	-266.3
Asphalt Excavate	0.0
Grand Total	**-270.7**

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	409	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea gravel	110	CY	= Play Surface Excavate
20201 Fill	270	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	1595	SY	= Topsoil Place/ 167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	40.6	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	14.6	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	125	CY	= Play Surface Place*1.10

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PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

MAYFAIR PARK
1102 MENDOTA ST.
MADISON, WI 53714

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ITEM	DATE
Advertised by: MR	05-03-2018

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
3.6

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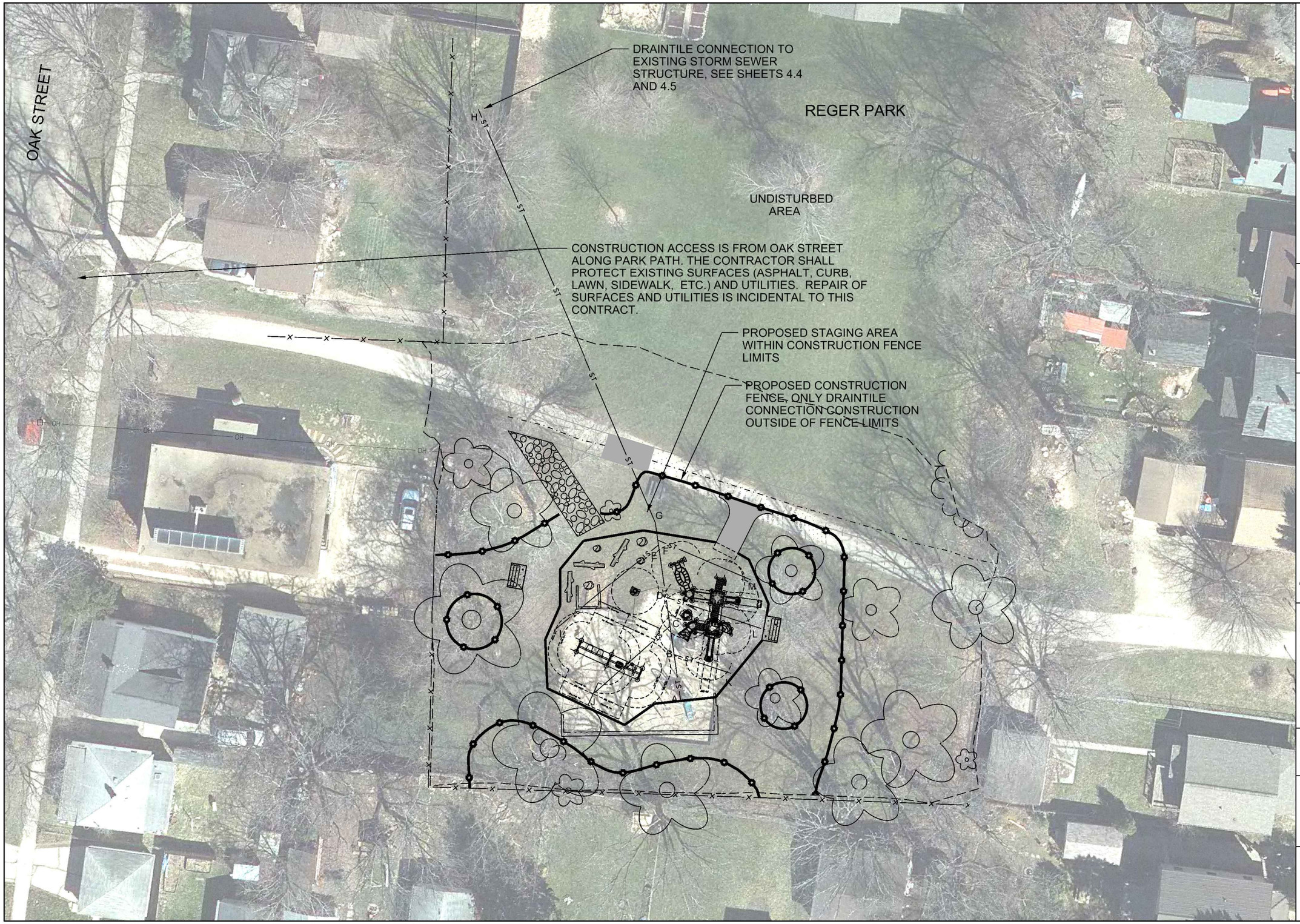

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City of Madison
Department of Public Works
PARKS DIVISION

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play MADISON PARKS

Graphical Scale
0 30 ft
N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK
201 OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-18*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
PROJECT LOCATION AND SITE ACCESS

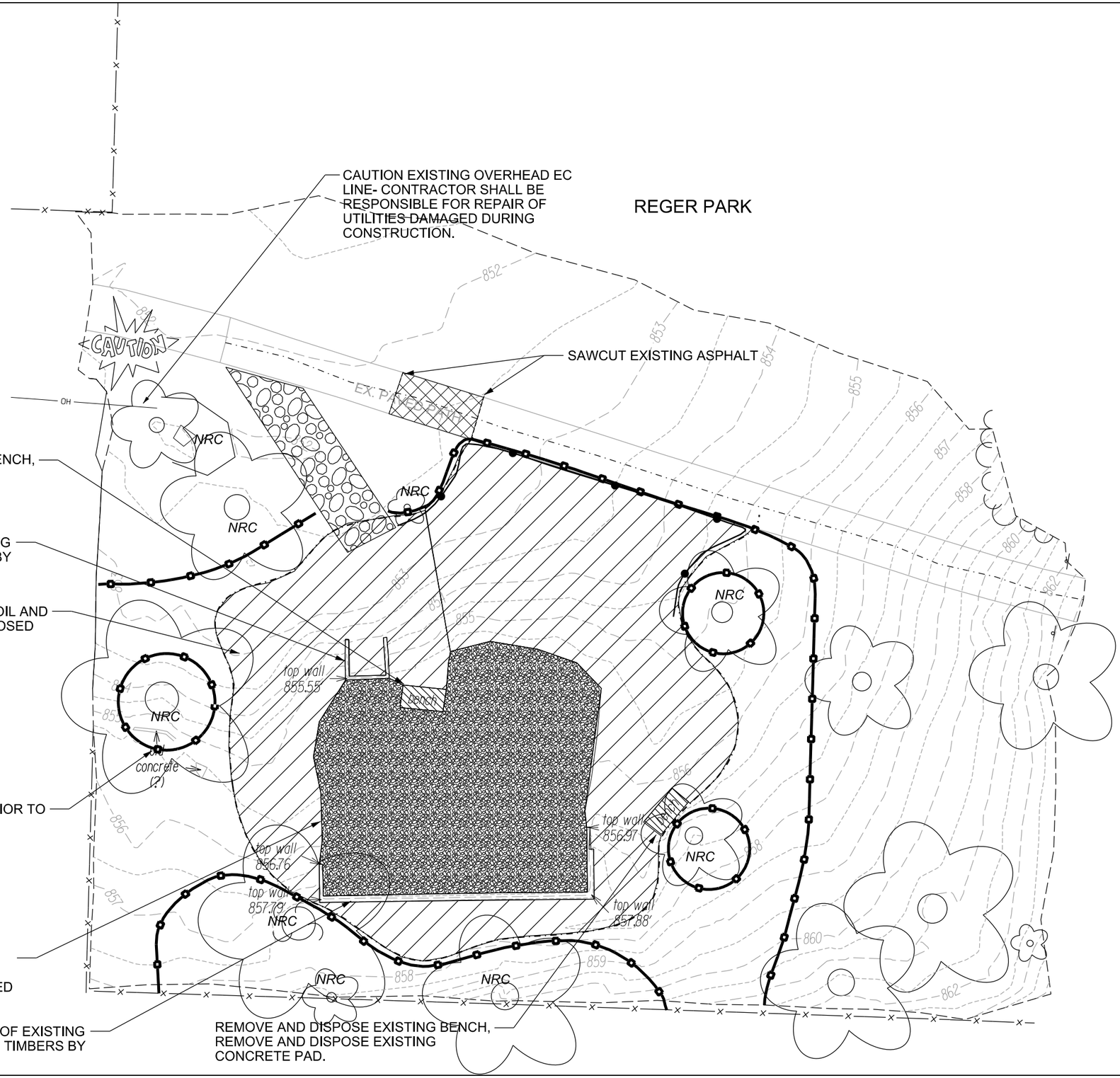
SHEET NUMBER:
4.1

LEGEND

- REMOVE EX. LAWN
- REMOVE EX. PEA GRAVEL
- REMOVE EX. ASPHALT
- REMOVE EX. CONCRETE
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



City of Madison

Department of Public Works

PARKS DIVISION

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play MADISON PARKS

Graphical Scale
0 20 ft
N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK
201 OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:

DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:

4.2

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LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

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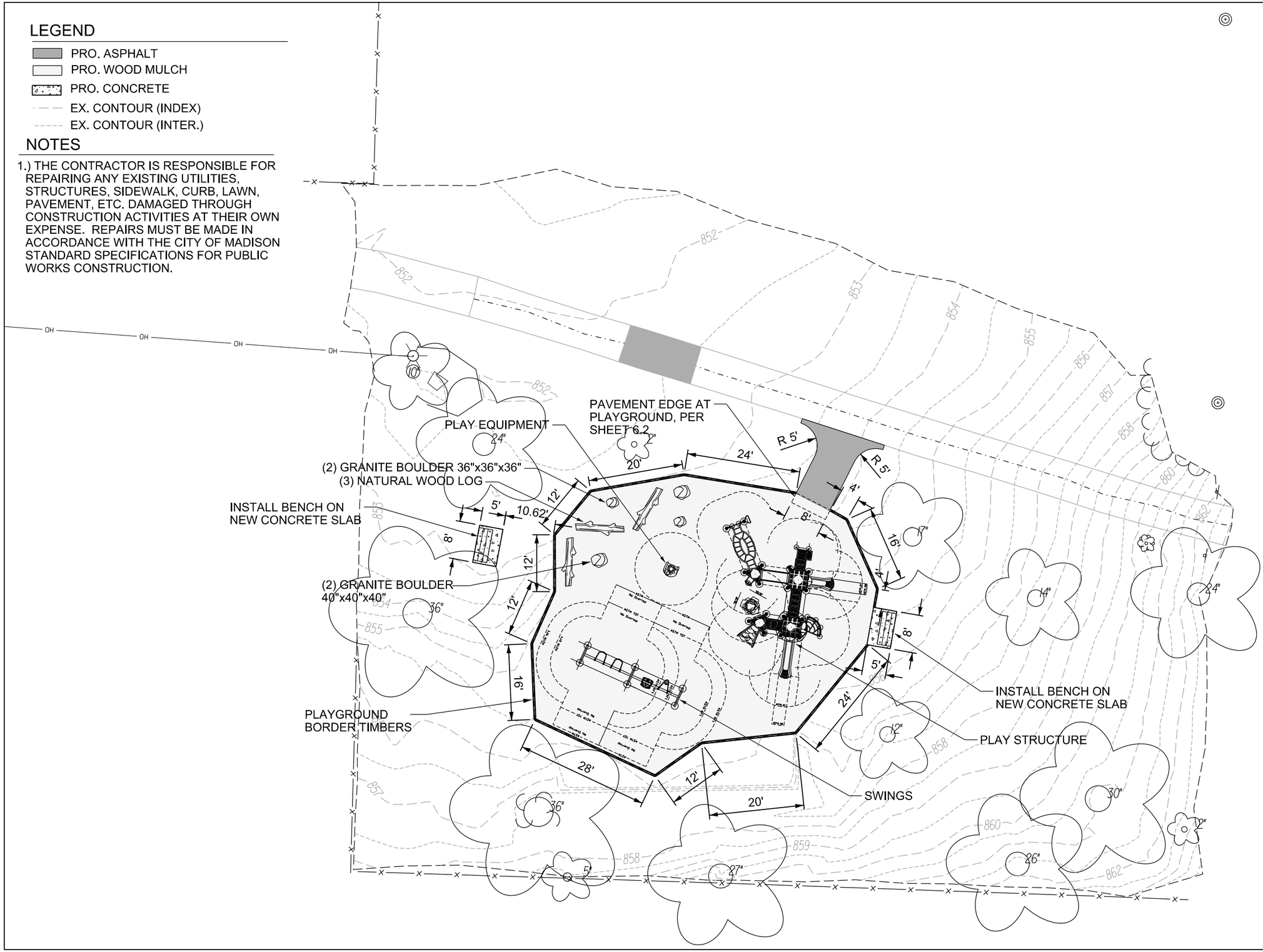

City of Madison

Department of Public Works

PARKS DIVISION

City-County Building, Suite 104
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play MADISON PARKS

Graphical Scale
0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK
201 OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.3

M:\Maps\parks\Reger\2018 Playground\BPW files\Reger Park Playground_2018.dgn

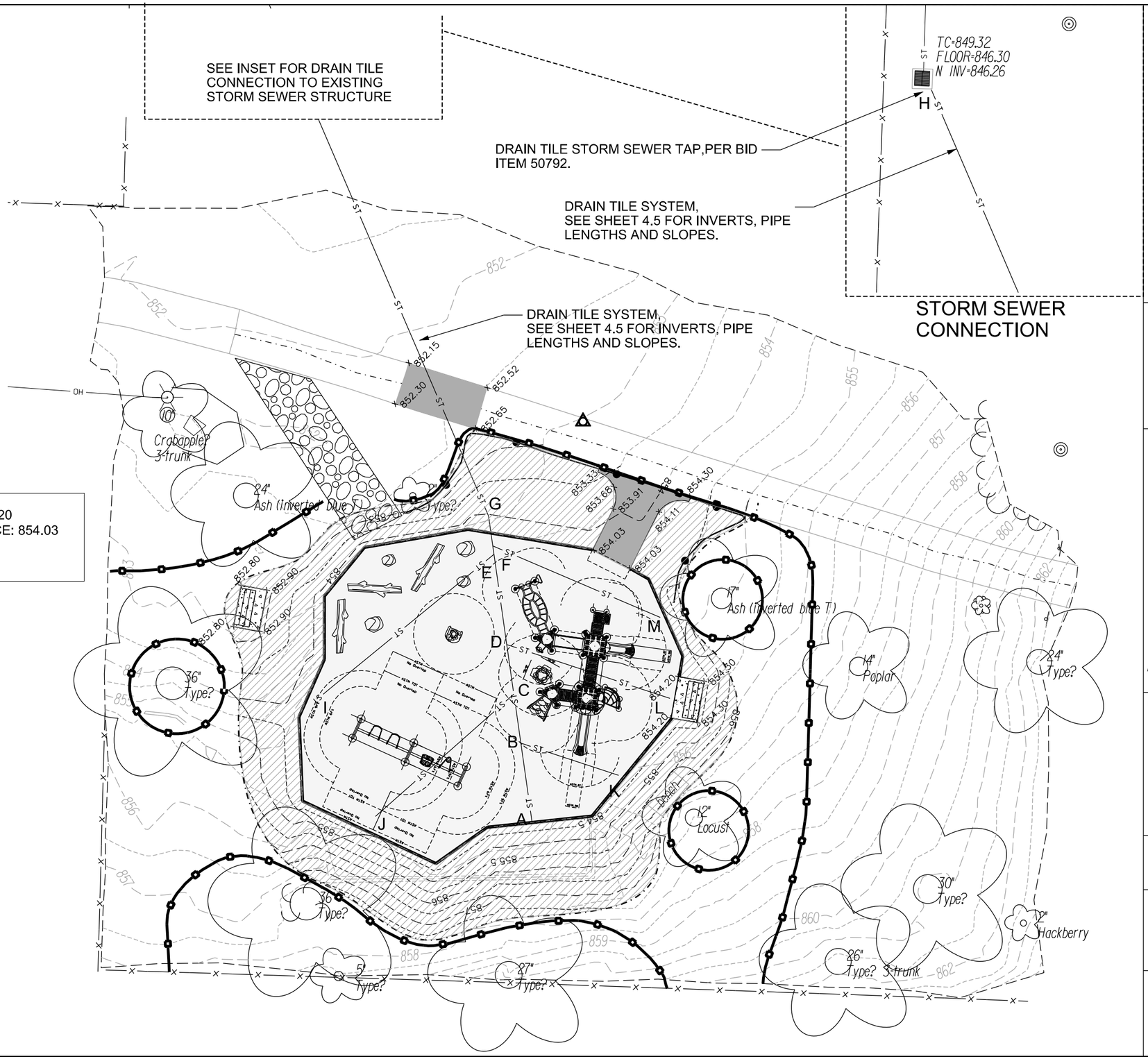
LEGEND

- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- ST — PRO. DRAINTILE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

EDGE OF PLAYGROUND BORDER TIMBERS: 854.20
ELEVATION OF FINISHED PLAYGROUND SURFACE: 854.03
PLAYGROUND SUBGRADE ELEVATION: 853.03
ASPHALT AT PLAYGROUND ELEVATION: 854.03



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Department of Public Works

PARKS DIVISION

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play MADISON PARKS

Graphical Scale
0 — 20 ft
N

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK
201 OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
4.4

M:\Maps\parks\Reger\2018 Playground\BPW files\Reger Park Playground_2018.dgn

Reger Park Playground				
Drain Tile Invert (Flowline) Elevations				
Point	Invert (ft)	Distance from top of timbers 854.2 (INCHES)	Ahead length	
A	852.44	21.1	15.0	
B	852.04	25.9	9.0	
C	851.79	28.9	9.5	
D	851.54	31.9	17.3	
E	851.08	37.4	1.6	
F	851.04	37.9	5.7	
G	850.89	39.7	146.9	
H	847.00	86.4	0.0	
I	852.44	21.1	44.2	
J	852.44	21.1	35.1	
K	852.44	21.1	19.6	
L	852.44	21.1	32.7	
M	852.44	21.1	34.6	

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	15.0	-2.67	Underdrain
B	C	9.0	-2.78	Underdrain
C	D	9.5	-2.63	Underdrain
D	E	17.3	-2.66	Underdrain
E	F	1.6	-2.50	Underdrain
F	G	5.7	-2.63	Underdrain
G	H	146.9	-2.65	Underdrain
I	E	44.2	1.61	Underdrain
J	C	35.1	-1.85	Underdrain
K	B	19.6	-2.04	Underdrain
L	D	32.7	-2.75	Underdrain
M	F	34.6	-4.05	Underdrain
	Total	371.20		

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PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK
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MADISON, WI 53704

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
4.5

M:\Maps\parks\Reger\2018 Playground\BPW files\Reger Park Playground_2018.dgn

Reger Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 4/3/2018

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)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2688	0.50	1344	49.8	0%	49.8
	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	2688	varies	1033	38.2	0%	38.2
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	2688	varies	-518	-19.2	0%	-19.2
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	2688	-0.50	-1344	-49.8	0%	-49.8
	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	380	1.42	538	19.9	0%	19.9
	Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	380	varies	95	3.5	0%	3.5
	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	380	varies	-66	-2.5	0%	-2.5
	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	380	-0.50	-190	-7.0	0%	-7.0
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1698	1.42	2406	89.1	0%	89.1
	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	1698	varies	2259	83.7	0%	83.7
	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	1698	varies	0	0.0	0%	0.0
	Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1698	-1.00	-1698	-62.9	0%	-62.9
	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	17	1.42	24	0.9	0%	0.9
	Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	17	varies	24	0.9	0%	0.9
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	17	varies		0.0	0%	0.0
	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	17	-1.00	-17	-0.6	0%	-0.6
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	150	0.50	75	2.8	0%	2.8
	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	150	varies	35	1.3	0%	1.3
	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	150	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	150	-0.75	-113	-4.2	0%	-4.2
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	150	-0.25	-38	-1.4	0%	-1.4
	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	48	0.50	24	0.9	0%	0.9
	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	48	varies	48	1.8	0%	1.8
	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	48	varies	-10	-0.4	0%	-0.4
	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	48	-1.00	-48	-1.8	0%	-1.8
	Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a		-0.75	0	0.0	0%	0.0
	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a		-0.25	0	0.0	0%	0.0
	Play Surface to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a		-0.25	0	0.0	0%	0.0
	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	1699	0.50	850	31.5	0%	31.5
	Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1699	varies	2015	74.6	0%	74.6
	Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1699	varies	-120	-4.4	0%	-4.4
	Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1699	-1.00	-1699	-62.9	0%	-62.9
	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	80	0.50	40	1.5	0%	1.5
	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	80	varies	89	3.3	0%	3.3
	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	80	varies	0	0.0	0%	0.0
	Grass to Concrete	Gravel (for Pavement) Place	Place 7in gravel base	n/a	n/a	80	-0.58	-46	-1.7	0%	-1.7
	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	80	-0.42	-33	-1.2	0%	-1.2
	Concrete to Playsurface	Concrete Excavate	Excavate 6in concrete	n/a	n/a	34	0.50	17	0.6	0%	0.6
	Concrete to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	34	varies	81	3.0	0%	3.0
	Concrete to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	34	varies	0	0.0	0%	0.0
	Concrete to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	34	-1.00	-34	-1.3	0%	-1.3

Reger Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 5/3/2018

Dervied 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 Unfac-tored volume (cu yd)
Asphalt Place	-1.4
Border Timbers Place (placeholder volume)	-2.4
Gravel (for Pavement) Place	-5.9
Play Surface Excavate	109.9
Play Surface Place	-127.1
Subsoil Excavate	208.2
Subsoil Place	-24.3
Topsoil Excavate	86.4
Topsoil Place	-56.8
Asphalt Excavate	0.0
Concrete Excavate	0.6
Concrete Place	-1.2
Grand Total	**186.0**

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	196	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel	110	CY	= Play Surface Excavate
20201 Fill	-184	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	340	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	11.8	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	3.3	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	140	CY	= Play Surface Place*1.10

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:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK
201 OAK STREET
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 by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
4.6

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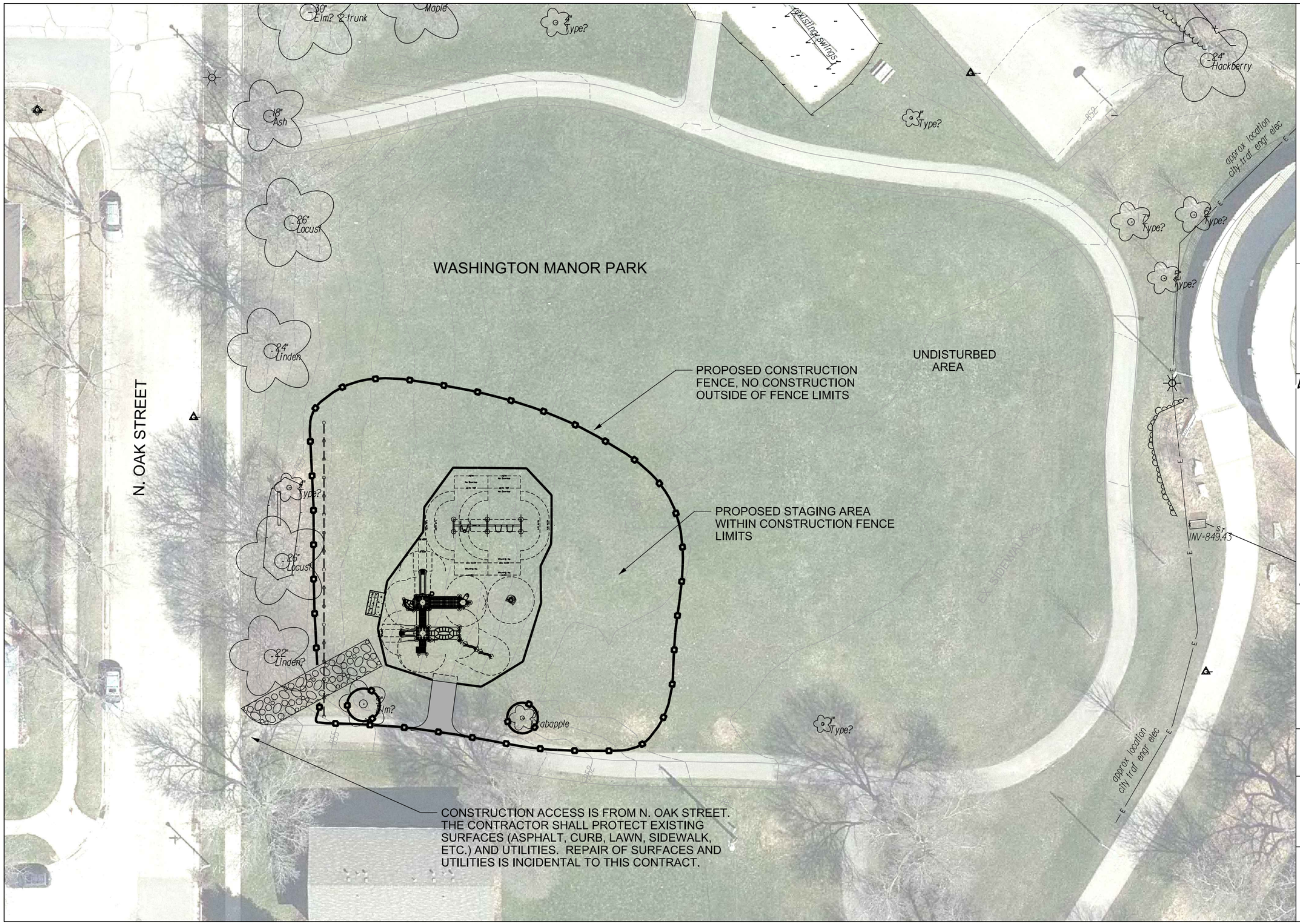

City of Madison
Department of Public Works
PARKS DIVISION

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

play MADISON PARKS

Graphical Scale
0 30 ft

N

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WASHINGTON MANOR PARK
810 N. OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-18*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
PROJECT LOCATION AND SITE ACCESS

SHEET NUMBER:
5.1

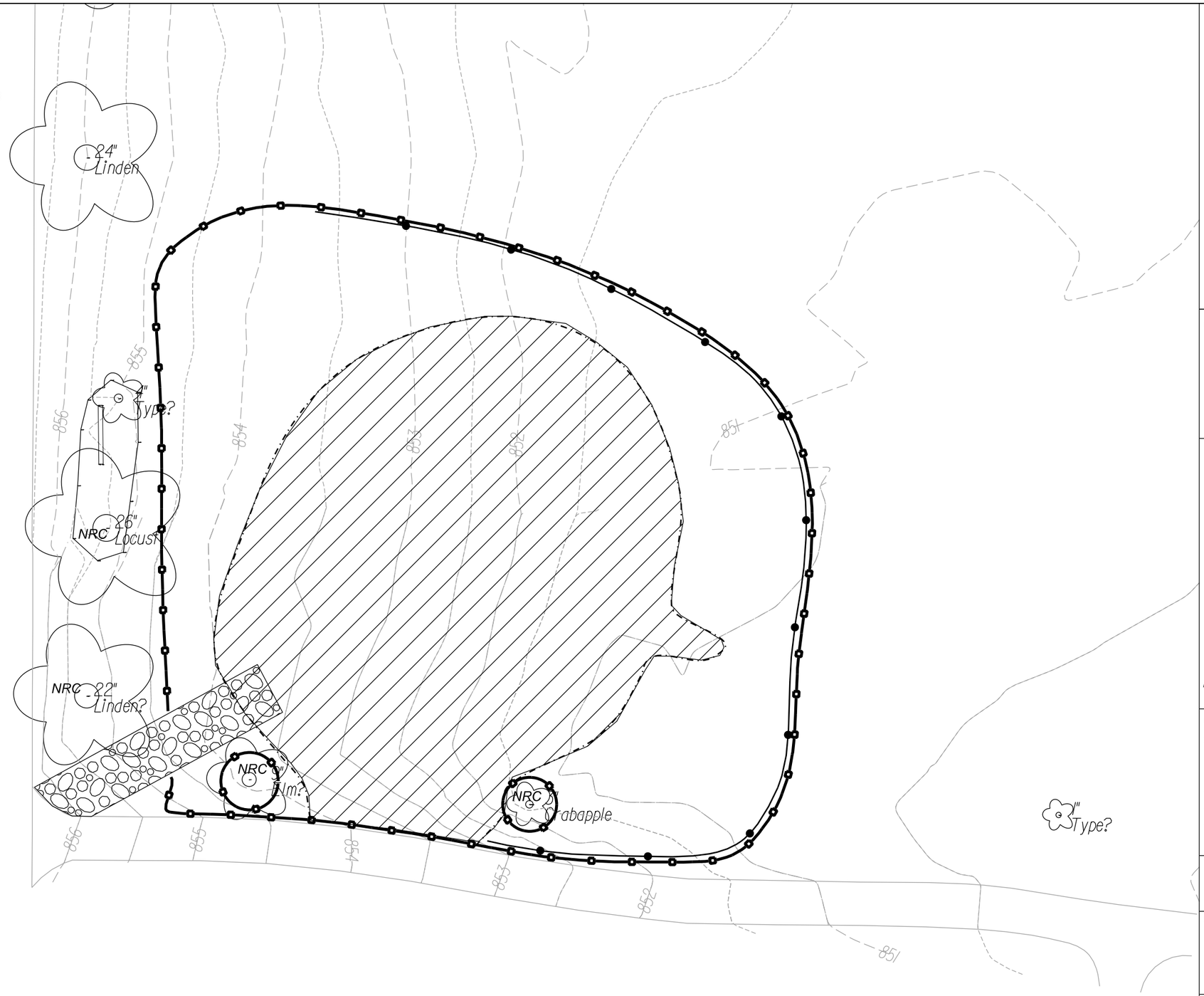
M:\Maps\parks\WashManor\Playground 2018\BPW files\Washington Manor Playground_2018.dgn

LEGEND

- REMOVE EX. LAWN
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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Department of Public Works
PARKS DIVISION

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Madison, WI 53703

play MADISON PARKS

Graphical Scale
0 20 ft

N

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WASHINGTON MANOR PARK
810 N. OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
5.2

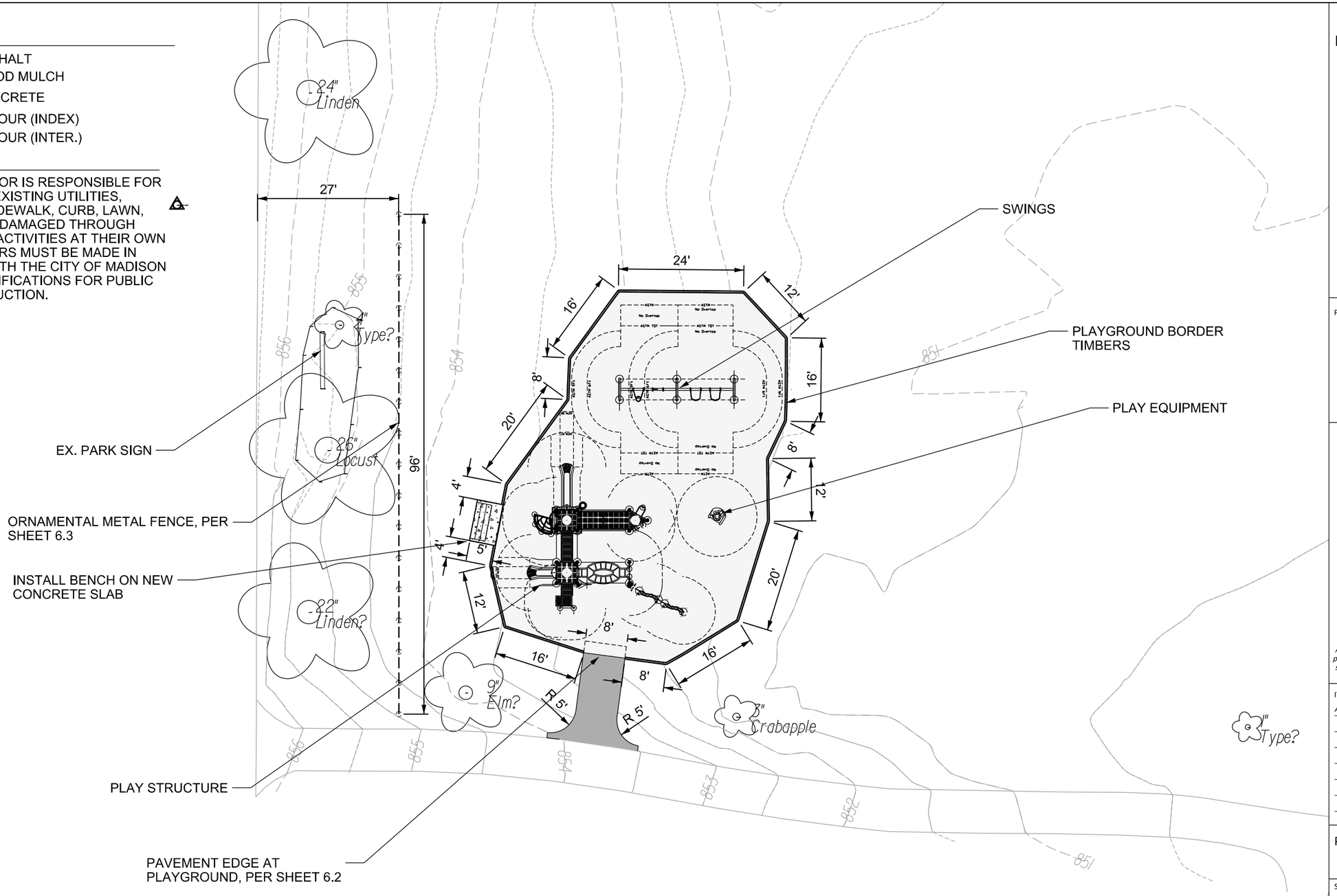
M:\Maps\parks\WashManor\Playground 2018\BPW files\Washington Manor Playground_2018.dgn

LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



City of Madison

Department of Public Works

PARKS DIVISION

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Madison, WI 53703

play MADISON PARKS

Graphical Scale
0 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WASHINGTON MANOR PARK
810 N. OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
5.3

M:\Maps\parks\WashManor\Playground 2018\BPW files\Washington Manor Playground_2018.dgn

LEGEND

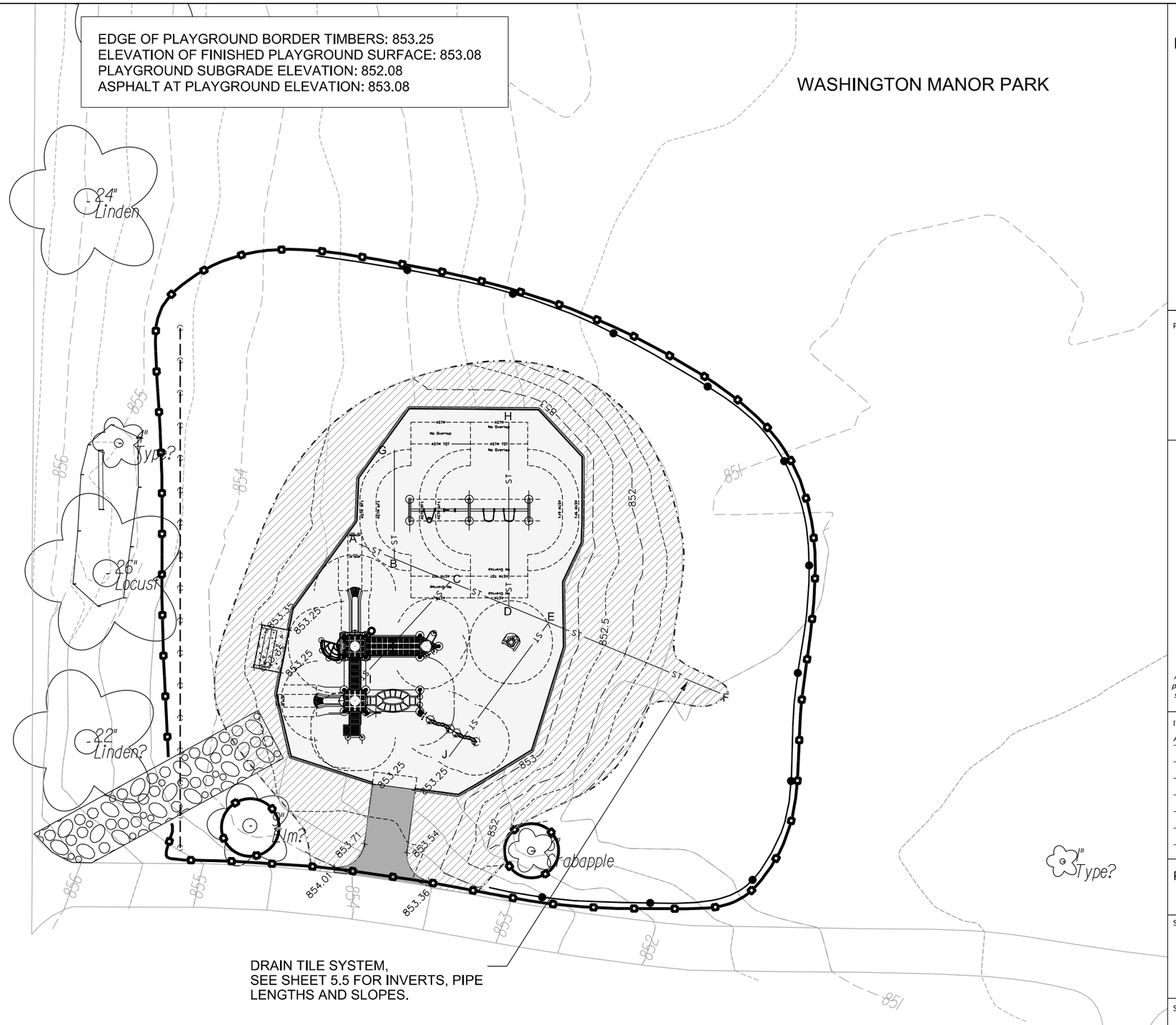
- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- ST — PRO. DRAINTILE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

EDGE OF PLAYGROUND BORDER TIMBERS: 853.25
ELEVATION OF FINISHED PLAYGROUND SURFACE: 853.08
PLAYGROUND SUBGRADE ELEVATION: 852.08
ASPHALT AT PLAYGROUND ELEVATION: 853.08

WASHINGTON MANOR PARK



DRAIN TILE SYSTEM,
SEE SHEET 5.5 FOR INVERTS, PIPE LENGTHS AND SLOPES.

City of Madison

Department of Public Works

PARKS DIVISION

City-County Building, Suite 104
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play MADISON PARKS

Graphical Scale
0 — 20 ft

N

PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WASHINGTON MANOR PARK
810 N. OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
5.4

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Washington Manor Park Playground			
Drain Tile Invert (Flowline) Elevations			
Point	Invert (ft)	Distance from top of timbers 853.25 (INCHES)	Ahead length
A	851.49	21.1	7.0
B	851.43	21.8	11.2
C	851.34	22.9	11.7
D	851.25	24.0	8.0
E	851.18	24.8	34.3
F	850.90	28.2	0.0
G	851.49	21.1	20.1
H	851.49	21.1	33.9
I	851.49	21.1	25.5
J	851.49	21.1	30.8

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	7.0	-0.85	Underdrain
B	C	11.2	-0.81	Underdrain
C	D	11.7	-0.77	Underdrain
D	E	8.0	-0.88	Underdrain
E	F	34.3	-0.82	Underdrain
G	B	20.1	-0.30	Underdrain
H	D	34.0	-0.71	Underdrain
I	C	25.5	-0.59	Underdrain
J	E	30.8	-1.01	Underdrain
	Total	182.58		

City of Madison
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Madison, WI 53703

play MADISON PARKS

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WASHINGTON MANOR PARK
810 N. OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MR	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
DRAIN TILE SCHEDULES

SHEET NUMBER:
5.5

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Washington Manor Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 4/3/2018

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)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3051	0.50	1526	56.5	0%	56.5
	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	3051	varies	100	3.7	0%	3.7
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	3051	varies	-1555	-57.6	0%	-57.6
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	3051	-0.50	-1526	-56.5	0%	-56.5
	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0
	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in		varies		0.0	0%	0.0
	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a		-0.50	0	0.0	0%	0.0
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0
	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in		varies	0	0.0	0%	0.0
	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a		-1.00	0	0.0	0%	0.0
	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0
	Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a		-1.00	0	0.0	0%	0.0
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	182	0.50	81	3.0	0%	3.0
	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	182	varies	23	0.8	0%	0.8
	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	182	varies	-14	-0.5	0%	-0.5
	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	182	-0.75	-122	-4.5	0%	-4.5
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	182	-0.25	-41	-1.5	0%	-1.5
	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a		-0.25	0	0.0	0%	0.0
	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	80	0.50	30	1.1	0%	1.1
	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	80	varies	20	0.8	0%	0.8
	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	80	varies	-31	-1.2	0%	-1.2
	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	80	-1.00	-60	-2.2	0%	-2.2
	Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17n	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0
	Play Surface to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a		-0.75	0	0.0	0%	0.0
	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a		-0.25	0	0.0	0%	0.0
	Play Surface to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a		-0.25	0	0.0	0%	0.0
	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	3009	0.50	1505	55.7	0%	55.7
	Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	3009	varies	760	28.2	0%	28.2
	Grass to Playsurface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	3009	varies	-808	-29.9	0%	-29.9
	Grass to Playsurface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	3009	-1.00	-3009	-111.5	0%	-111.5
	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	40	0.50	20	0.7	0%	0.7
	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	40	varies	36	1.3	0%	1.3
	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	40	varies	0	0.0	0%	0.0
	Grass to Concrete	Gravel (for Pavement) Place	Place 7in gravel base	n/a	n/a	40	-0.58	-23	-0.9	0%	-0.9
	Grass to Concrete	Asphalt Place	Place 5in concrete	n/a	n/a	40	-0.42	-17	-0.6	0%	-0.6

Washington Manor Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 5/3/2018

Dervied 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 Unfac-tored volume (cu yd)
Asphalt Place	-2.1
Border Timbers Place (placeholder volume)	-2.2
Gravel (for Pavement) Place	-5.4
Play Surface Excavate	0.0
Play Surface Place	-111.5
Subsoil Excavate	32.9
Subsoil Place	-87.3
Topsoil Excavate	117.1
Topsoil Place	-56.5
Asphalt Excavate	0.0
Grand Total	**-115.0**

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	117	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel	0	CY	= Play Surface Excavate
20201 Fill	54	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	338	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	10.7	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	4.6	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	123	CY	= Play Surface Place*1.10

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:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

WASHINGTON MANOR PARK
810 N. OAK STREET
MADISON, WI 53704

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ITEM	DATE
Advertised by: MR	*04-12-2018*

PUBLIC WORKS PROJECT #:

8172

SHEET TITLE:

DESIGN COMPUTATIONS

SHEET NUMBER:

5.6

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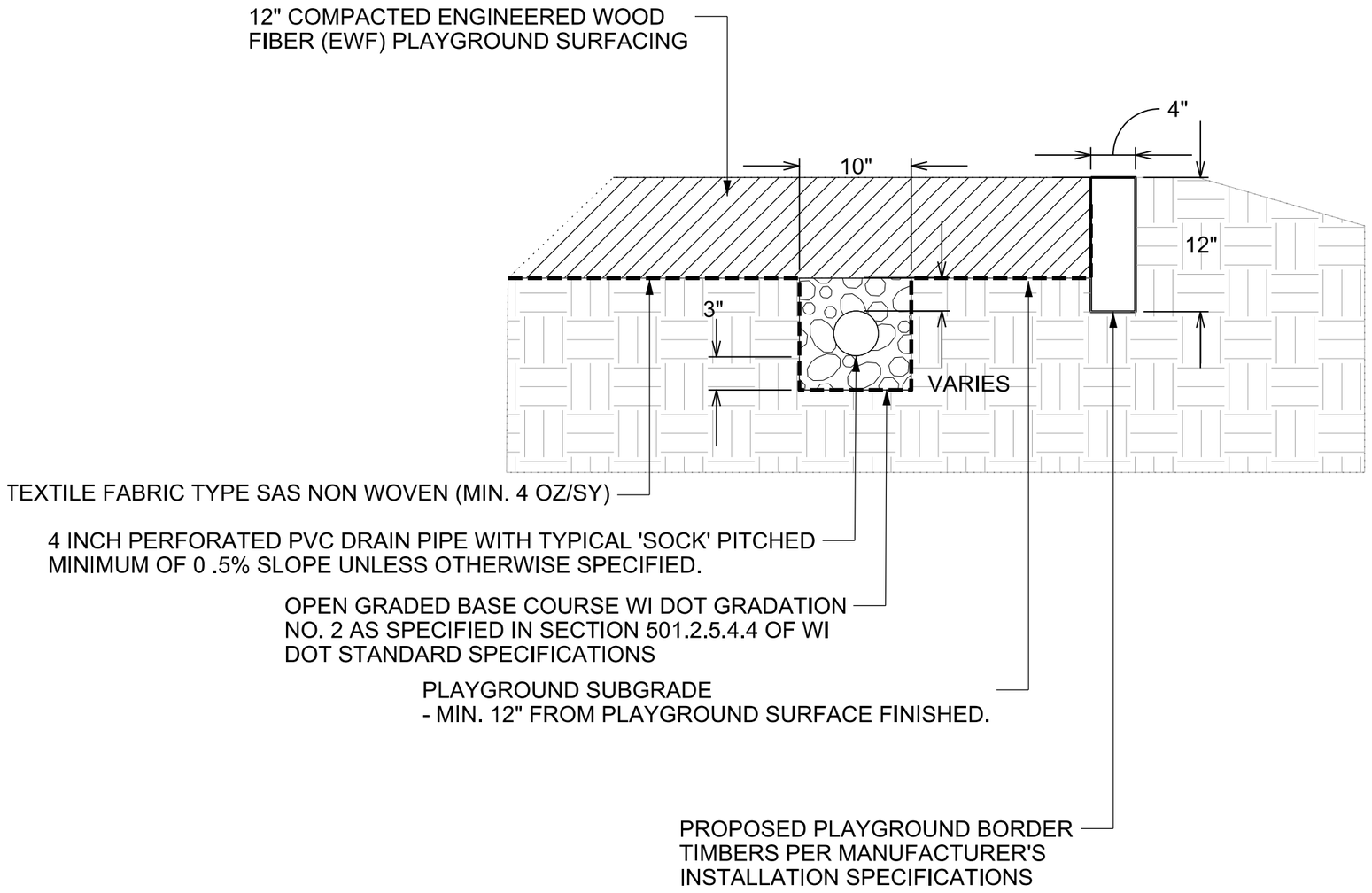

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

play MADISON PARKS

PROJECT:
2018 PARK PLAYGROUND IMPROVEMENTS- GROUP 2

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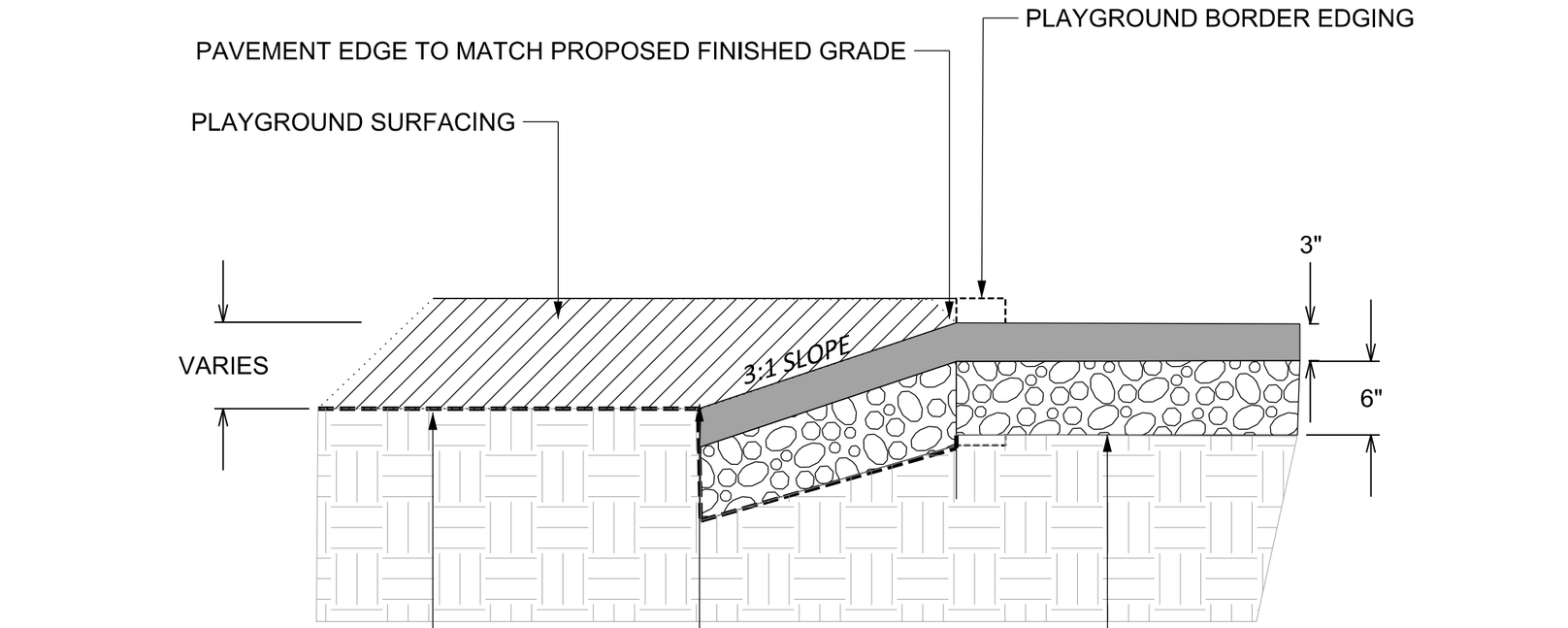
ITEM	DATE
Advertised by: MS	*05-03-2018*

PUBLIC WORKS PROJECT #:
8172

SHEET TITLE:
TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN

SHEET NUMBER:
6.1



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:
2018 PARK PLAYGROUND IMPROVEMENTS-GROUP 2

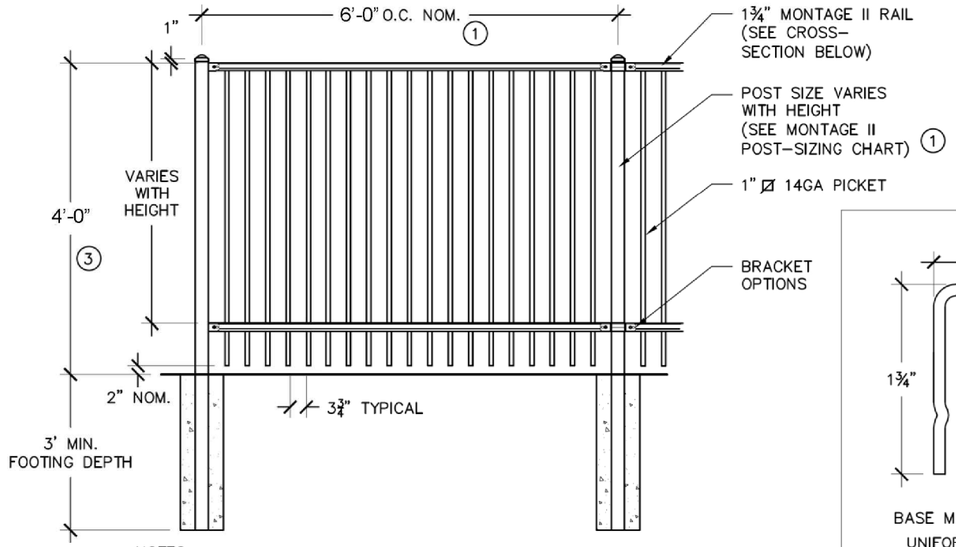
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Advertised by: MS	*05-03-2018*

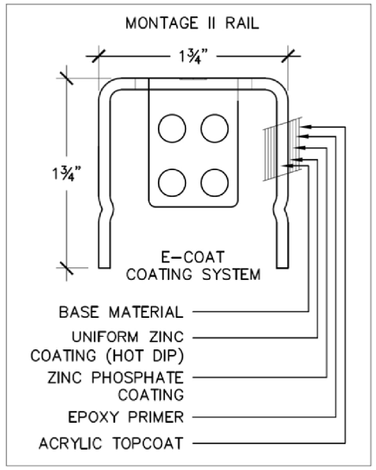
PUBLIC WORKS PROJECT #:
8172

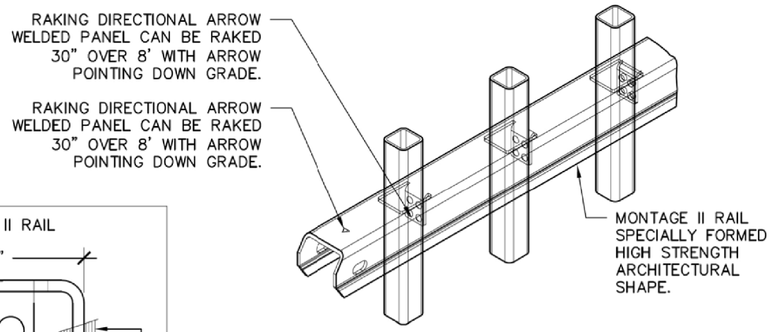
SHEET TITLE:
PAVEMENT EDGE AT PLAYGROUND

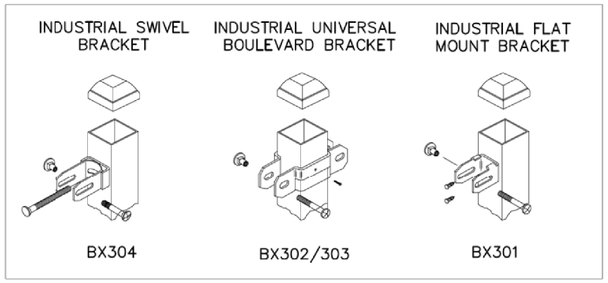
SHEET NUMBER:
6.2



NOTES:
1.) POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE II SPECIFICATIONS FOR POST SIZING CHART AND DIMENSIONS.
2.) AVAILABLE IN FLUSH BOTTOM.
3.) VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.







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8172

SHEET TITLE:
ORNAMENTAL METAL FENCING

SHEET NUMBER:
6.3

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