

SHEET SCHEDULE

- 1.1 NAKOMA PARK - PROJECT LOCATION AND SITE ACCESS
- 1.2 NAKOMA PARK - DEMOLITION AND PROTECTION PLAN
- 1.3 NAKOMA PARK - SITE PLAN
- 1.4 NAKOMA PARK - GRADING, DRAINAGE & EROSION CONTROL PLAN
- 1.5 NAKOMA PARK - DESIGN COMPUTATIONS
  
- 2.1 RESERVOIR PARK - PROJECT LOCATION AND SITE ACCESS
- 2.2 RESERVOIR PARK - DEMOLITION AND PROTECTION PLAN
- 2.3 RESERVOIR PARK - SITE PLAN
- 2.4 RESERVOIR PARK - GRADING, DRAINAGE AND EROSION CONTROL PLAN
- 2.5 RESERVOIR PARK - DESIGN COMPUTATIONS
  
- 3.1 REYNOLDS PARK - PROJECT LOCATION AND SITE ACCESS
- 3.2 REYNOLDS PARK - DEMOLITION AND PROTECTION PLAN
- 3.3 REYNOLDS PARK - SITE PLAN
- 3.4 REYNOLDS PARK - GRADING AND EROSION CONTROL PLAN
- 3.5 REYNOLDS PARK - DESIGN COMPUTATIONS

SHEET SCHEDULE (CONTINUED)

- 4.1 WORTHINGTON PARK - PROJECT LOCATION AND SITE ACCESS
- 4.2 WORTHINGTON PARK - DEMOLITION AND PROTECTION PLAN - PLAYGROUND
- 4.3 WORTHINGTON PARK - DEMOLITION AND PROTECTION PLAN - PATH
- 4.4 WORTHINGTON PARK - SITE PLAN - PLAYGROUND
- 4.5 WORTHINGTON PARK - SITE PLAN - PATH
- 4.6 WORTHINGTON PARK - GRADING, DRAINAGE & EROSION CONTROL PLAN - PLAYGROUND
- 4.7 WORTHINGTON PARK - GRADING, DRAINAGE & EROSION CONTROL PLAN - PATH
- 4.8 WORTHINGTON PARK - DESIGN COMPUTATIONS
  
- 5.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 5.2 ASPHALT EDGE AT PLAYGROUND

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

*City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 PO Box 2987  
 Madison, WI 53701-2987*

*play*  
**MADISON  
 PARKS**



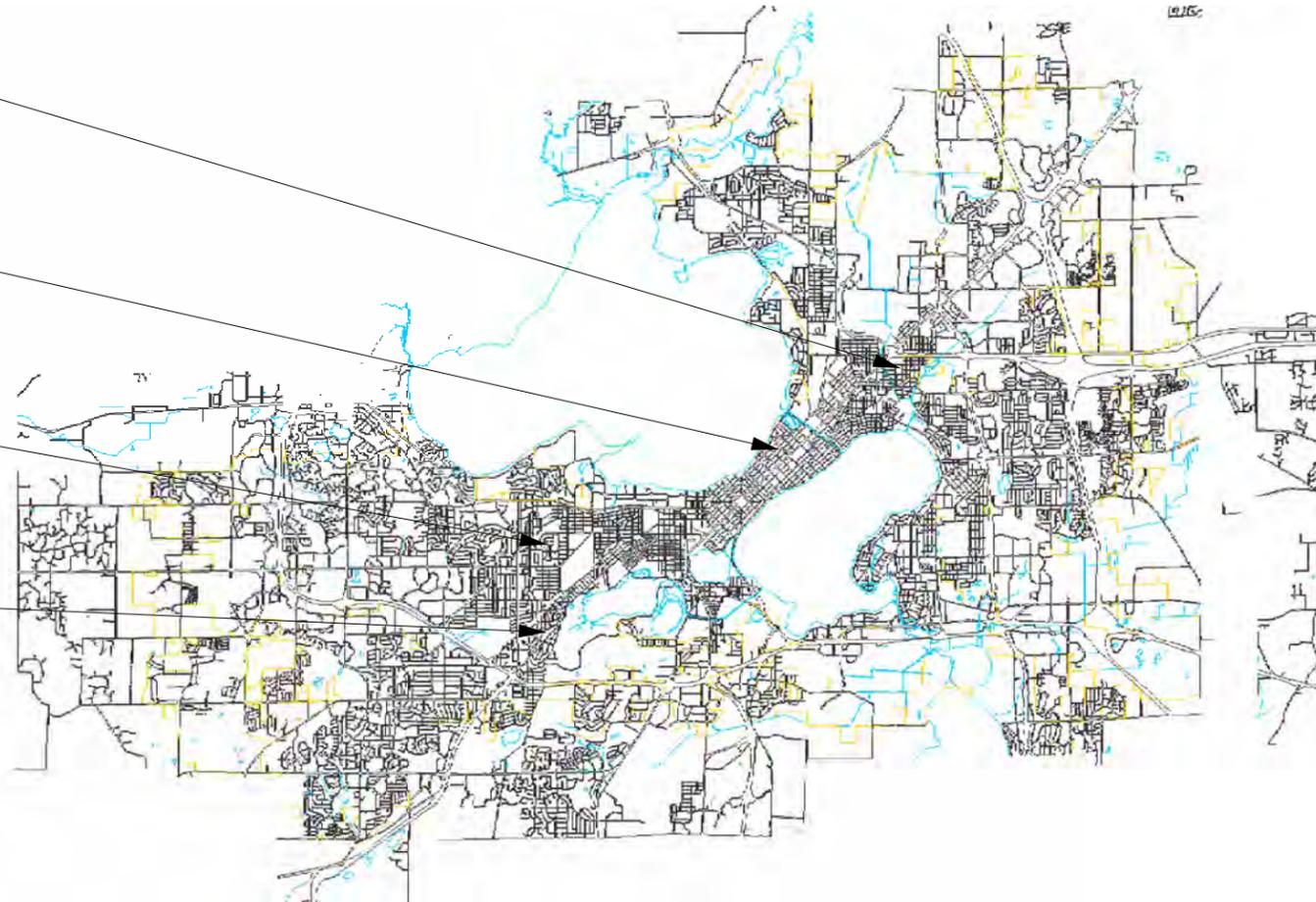
## 2013 PARK PLAYGROUND IMPROVEMENTS CONTRACT 7130

WORTHINGTON PARK  
 3102 WORTHINGTON AVENUE  
 MADISON, WI 53714

REYNOLDS PARK  
 810 EAST MIFFLIN STREET  
 MADISON, WI 53703

RESERVOIR PARK  
 126 GLENWAY STREET  
 MADISON, WI 53705

NAKOMA PARK  
 3801 CHEROKEE DRIVE  
 MADISON, WI 53711



PROJECT:

*2013 PARK  
 PLAYGROUND  
 IMPROVEMENTS*

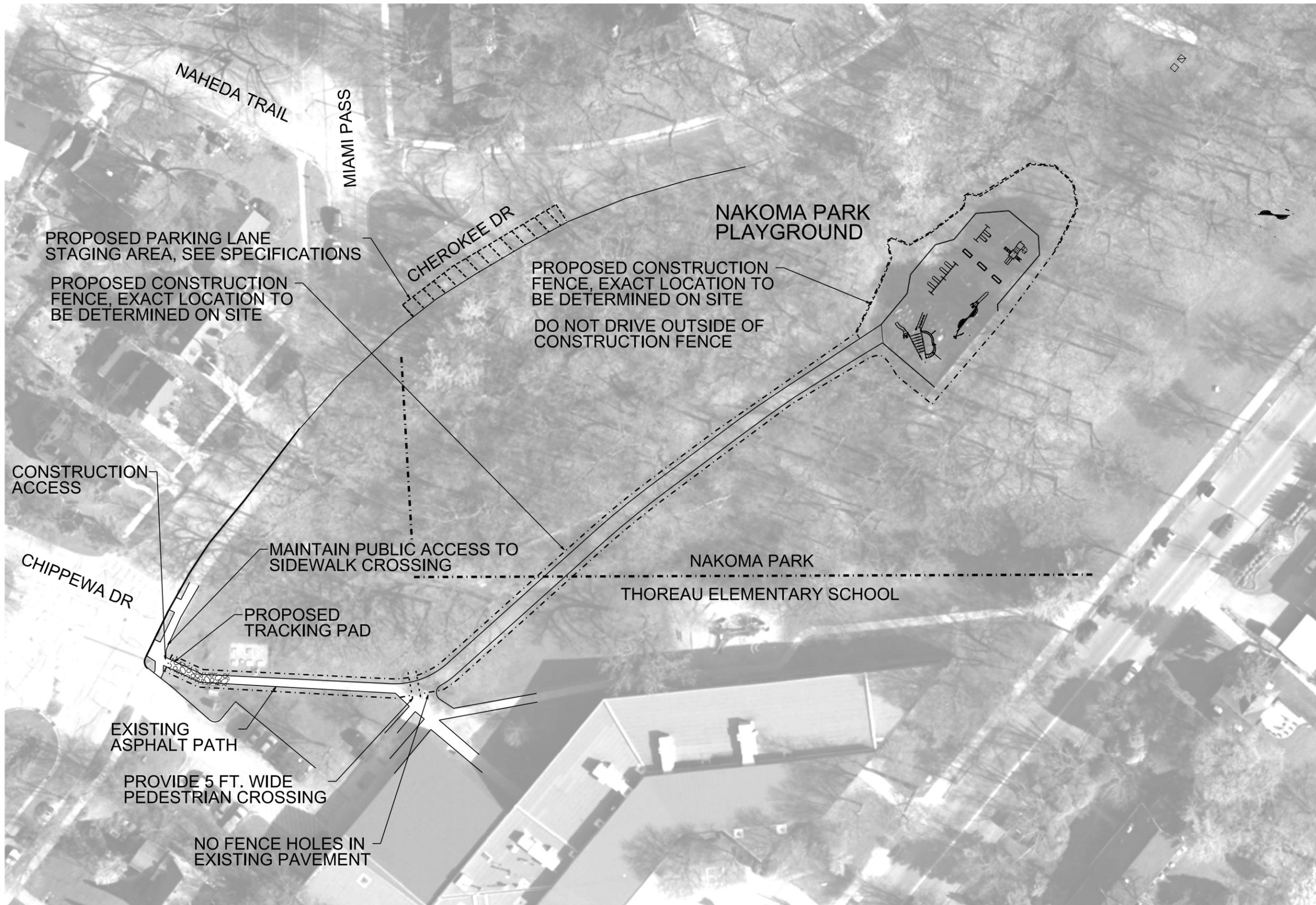
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: SCL/MS	06-27-2013
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:

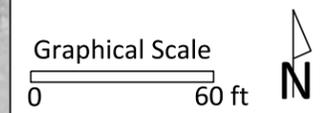
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PROJECT:

*NAKOMA PARK  
PLAYGROUND*

*NAKOMA PARK  
3801 CHEROKEE DR.  
MADISON, WI*

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Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
*PROJECT LOCATION  
AND SITE ACCESS*

SHEET NUMBER:  
**1.1**

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

Graphical Scale

0 20 ft



PROJECT:

**NAKOMA PARK**  
**PLAYGROUND**

**NAKOMA PARK**  
 3801 CHEROKEE DR.  
 MADISON, WI

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.

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Approved by:	xx-xx-xxxx

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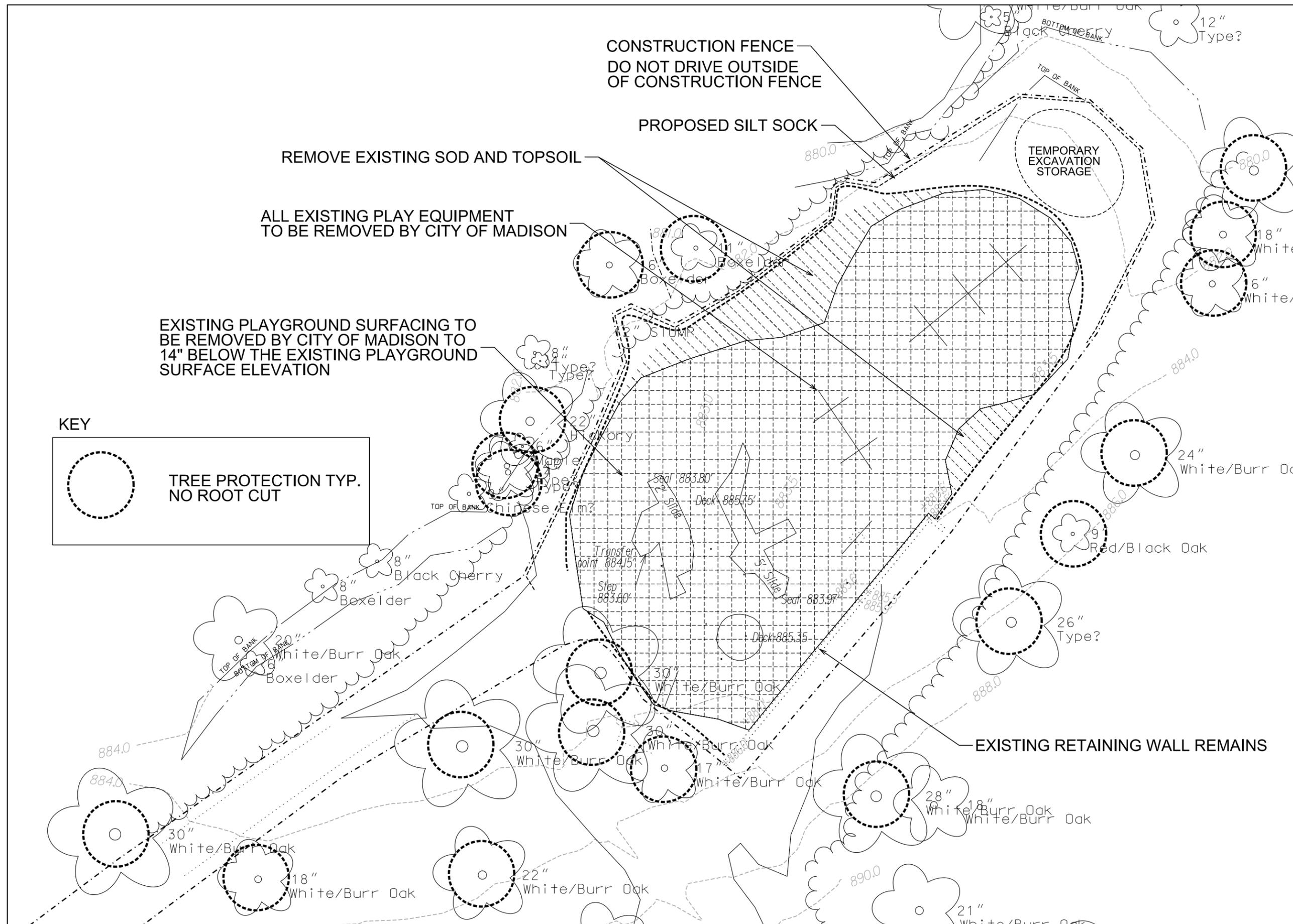
**7130**

SHEET TITLE:

**DEMOLITION AND**  
**PROTECTION PLAN**

SHEET NUMBER:

**1.2**







PROJECT:

**NAKOMA PARK  
PLAYGROUND**

**NAKOMA PARK  
3801 CHEROKEE DR.  
MADISON, WI**

Nakoma Park Playground 2013 Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Note
A1	882.14	
A2	881.86	
A3	881.82	
A4	881.69	OUTFALL
A5	881.97	
A6	882.14	
A7	882.14	
A8	882.14	
A9	882.00	
A10	881.91	
B1	882.14	
B2	882.00	
B3	881.96	
B4	881.88	OUTFALL
B5	882.14	
B6	882.14	

EDGE OF TUFF TIMBERS: 883.65  
ELEVATION OF PLAYGROUND  
SURFACING (BY OTHERS): 883.48

**NOTE:**

- 1.) 4 OZ, PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE SUBGRADE AND DRAIN TILE SYSTEM PER DETAIL 5.0 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN.
- 2.) CONTRACTOR TO INSTALL DRAIN TILE SYSTEM, LANDSCAPE FABRIC, AND TO GRADE AREA FOR PLAYGROUND SURFACING TO PROPOSED SUBGRADES.
- 3.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

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 \_\_\_\_\_  
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Approved by: \_\_\_\_\_ xx-xx-xxxx

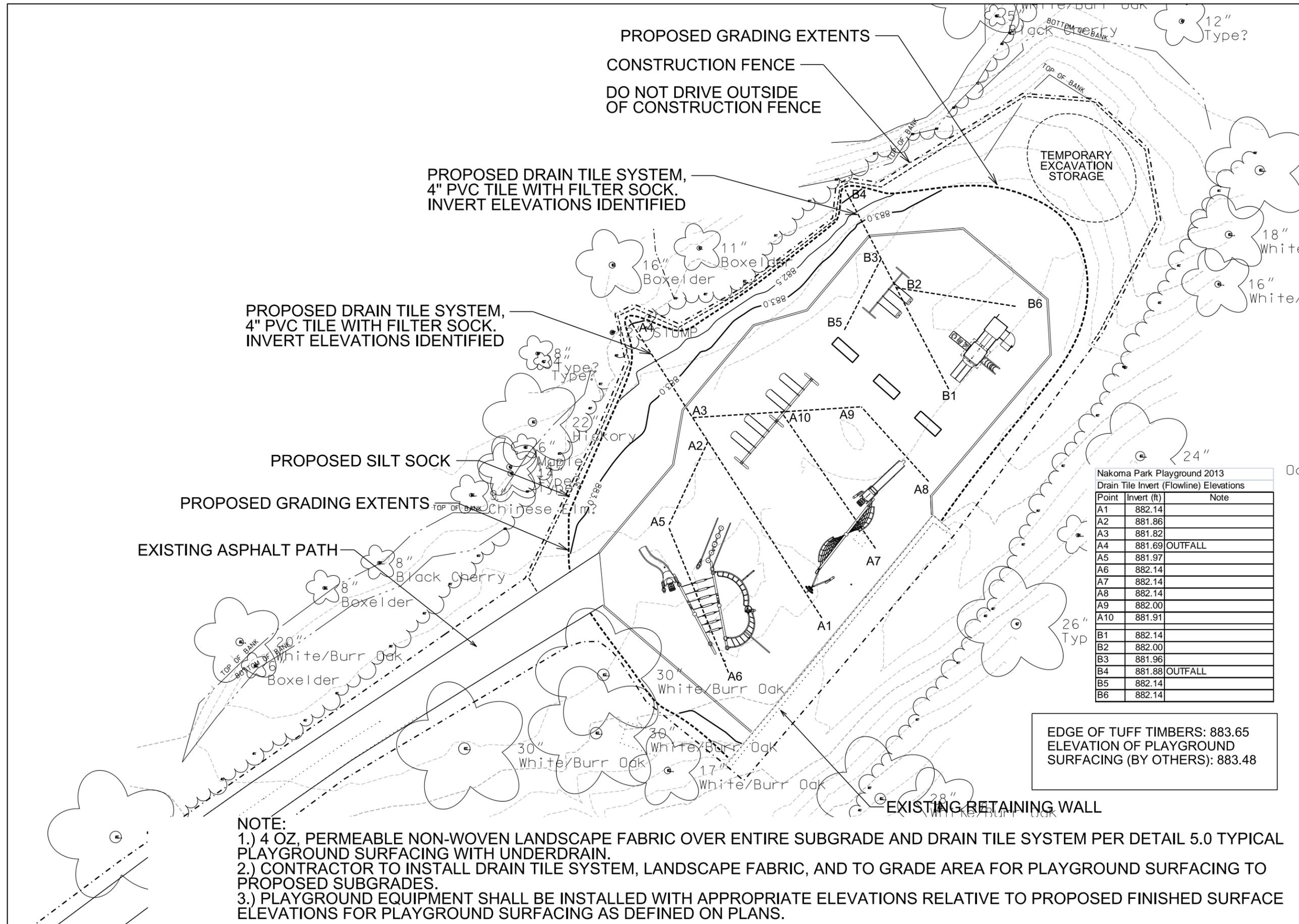
PUBLIC WORKS PROJECT #:

**7130**

SHEET TITLE:  
**GRADING, DRAINAGE &  
EROSION CONTROL  
PLAN**

SHEET NUMBER:

**1.4**



Nakoma Park Playground Improvements										
City of Madison, WI Public Works Contract #7130										
Date Revised: 6/25/2013										
<b>Notes:</b>										
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.										
<b>Area ID# groups</b>										
CO	Turf to Concrete	CO								
GR	Turf to Gravel	GR								
AS	Asphalt	AS								
PP	Playground to Playground	PP								
PT	Playground to Turf	PT								
TP	Turf to Playground	TP								
TT	Turf to Turf	TT								
TB	Turf to Border Timbers	TB								
PB	Playground to Border Timbers	PB								
WA	Wall	WA								
PP	Play Material Excavate	Excavate 14" of playground surfacing			5321	1.17	6210	230.0	0%	230.0
PP	Subsoil Place	Place subsoil to within 12" of proposed grade	Ex-14inches	Pro1-12inches		varies	-896	-33.2	0%	-33.2
PP	Subsoil Excavate	Excavate subsoil to within 12" of proposed grade	Ex-14inches	Pro1-12inches		varies	278	10.3	0%	10.3
PP	Play Material Place	Place 12" of shredded wood surfacing			5321	-1.00	-5321	-197.1	0%	-197.1
PT	Play Material Excavate	Excavate 14" of playground surfacing			1409.1	1.17	1644	60.9	0%	60.9
PT	Subsoil Place	Place subsoil to within 6" of pro grade	Ex-14inches	Pro2-6inches		varies	-1119	-41.5	0%	-41.5
PT	Topsoil Place	Place 6" topsoil			1409.1	-0.50	-705	-26.1	0%	-26.1
TP	Topsoil Excavate	Excavate 4" of topsoil			147.8	0.33	49	1.8	0%	1.8
TP	Subsoil Excavate	Excavate subsoil to within 12" of proposed grades	Ex-4inches	Pro1-12inches		varies	75	2.8	0%	2.8
TP	Subsoil Place	Place subsoil to within 12" of proposed grade	Ex-4inches	Pro2-9inches		varies	-3	-0.1	0%	-0.1
TP	Play Material Place	Place 12" of shredded wood surfacing			147.8	-1.00	-148	-5.5	0%	-5.5
TT	Topsoil Excavate	Remove 4" of topsoil			790	0.33	261	9.7	0%	9.7
TT	Subsoil Place	Place subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches		varies	-135	-5.0	0%	-5.0
TT	Subsoil Excavate	Excavate subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches		varies	85	3.1	0%	3.1
TT	Topsoil Place	Place 6" of topsoil			790	-0.50	-395	-14.6	0%	-14.6
TB	Topsoil Excavate	Excavate 4" of topsoil			79.5	0.33	26	1.0	0%	1.0
TB	Subsoil Excavate	Excavate subsoil to within 1' of proposed grade	Ex-4inches	Pro2-1foot		varies	41	1.5	0%	1.5
TB	Subsoil Place	Place subsoil to within 1' of proposed grade	Ex-4inches	Pro2-1foot		varies	1	0.1	0%	0.1
TB	Place Border	Place Border			79.5	-1.00	-80	-2.9	0%	-2.9
PB	Play Material Excavate	Excavate 14" of playground surfacing				1.17	76	2.8	0%	2.8
PB	Subsoil Place	Place subsoil to within 1' of proposed grade	Ex-14inches	Pro2-1foot		varies	-29	-1.1	0%	-1.1

### Nakoma Park Playground

City of Madison, WI Public Works Contract #7130

Date Revised: 6/25/2013

Summary of stone (gravel) and soil quantities in the Bid Table.  
Derived from more detailed spreadsheet available from Parks Div

#### Preliminary Computation Summary

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

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Play Material Excavate	293.7
Play Material Place	-202.5
Subsoil Excavate	17.7
Subsoil Place	-80.8
Topsoil Excavate	12.4
Topsoil Place	-40.7
<b>Grand Total</b>	<b>-3.1</b>

#### Reorganized into Bid Table Items:

Bid Item #20101	
Excavation Cut	Subsoil Excavate + Topsoil Excavate
Bid Item #20201 Fill	Subsoil Place + Subsoil Excavate
Bid Item #20221	
Topsoil	= Topsoil Place
Bid Item #40201	= Asphalt
Bid Item #40102	= Gravel Place
Play material Excavate	By others, not included in this contract.
Play material Place	By others, not included in this contract.

## City of Madison Department of Public Works PARKS DIVISION

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**MADISON  
PARKS**

PROJECT:

*NAKOMA PARK  
PLAYGROUND*

*NAKOMA PARK  
3801 CHEROKEE DR.  
MADISON, WI*

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 \_\_\_\_\_  
Drawn by: \_\_\_\_\_ xx-xx-xxxx  
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PUBLIC WORKS PROJECT #:

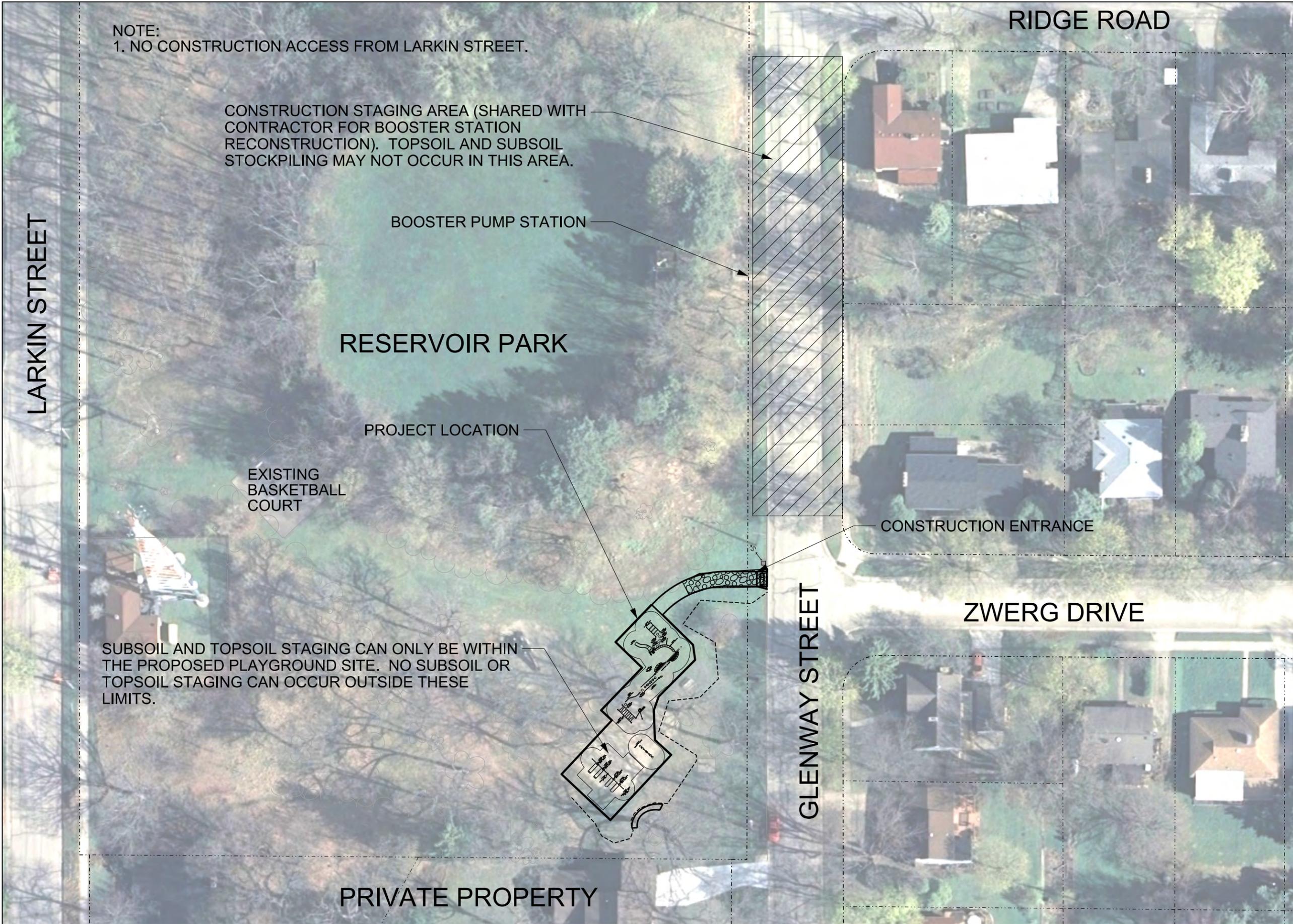
*7130*

SHEET TITLE:

*DESIGN  
COMPUTATIONS*

SHEET NUMBER:

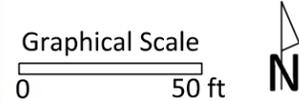
*1.5*



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PROJECT:  
*2013 PARK  
PLAYGROUND  
IMPROVEMENTS*

*RESERVOIR PARK  
126 GLENWAY STREET  
MADISON, WI 53705*

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Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
*PROJECT LOCATION  
AND SITE ACCESS*

SHEET NUMBER:  
**2.1**

NOTE:  
1.) ALL EXISTING EQUIPMENT & PLAYGROUND SURFACING TO BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION.

NOTE:  
PROTECT ALL EXISTING UTILITIES

PROTECT STORM OVERFLOW STRUCTURE

PLACE CONSTRUCTION FENCE AT GRADING EXTENTS  
PRIOR TO CONSTRUCTION

REMOVE CONCRETE  
CURB AND GUTTER

PROTECT EX. TREE (NO ROOT CUT)

PROTECT EXISTING TREE (NO ROOT CUT)

EXISTING  
EXCAVATED  
PLAYGROUND  
SURFACING  
(RESTORED  
BY OTHERS)

CONTROL POINT  
DRILL HOLE N RIM OF 4 MGE MHS  
N=479357.69  
E=806563.75  
ELEV=1017.30

PROTECT EXISTING  
CONCRETE PAD AND  
DRINKING FOUNTAIN

REMOVE & RELOCATE  
EXISTING BENCH TO  
LOCATION SHOWN ON  
SHEET 2.3

EXISTING EXCAVATED  
PLAYGROUND SURFACING

PROTECT EXISTING TREE (NO ROOT CUT)

REMOVE EXISTING SOD &  
TOPSOIL

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**MADISON  
PARKS**

Graphical Scale

0 20 ft



PROJECT:

*2013 PARK  
PLAYGROUND  
IMPROVEMENTS*

*RESERVOIR PARK  
126 GLENWAY STREET  
MADISON, WI 53705*

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ITEM	DATE
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Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
**DEMOLITION AND  
PROTECTION PLAN**

SHEET NUMBER:  
**2.2**

PROPOSED 3" DEPTH ASPHALT PATH. EXTEND GRAVEL BASE .5 FEET BEYOND EDGE OF ASPHALT, TOP WITH TOPSOIL, SEED AND MULCH

SEE DETAIL 5.2 PAVEMENT AT PLAYGROUND EDGE

TAPER ASPHALT WITHIN HATCHED AREA TO ENSURE ASPHALT ELEVATION IS AT 1020.34

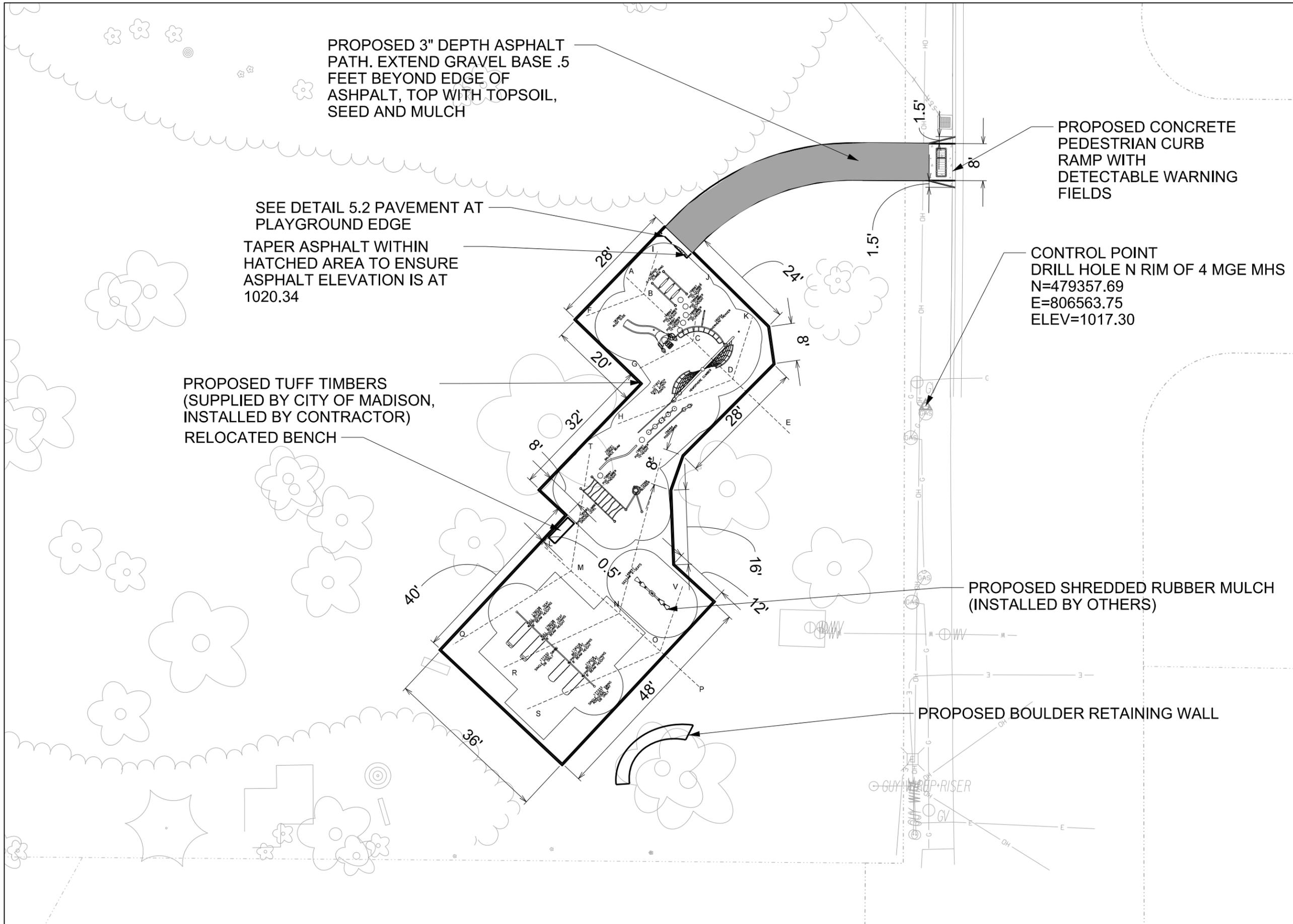
PROPOSED TUFF TIMBERS (SUPPLIED BY CITY OF MADISON, INSTALLED BY CONTRACTOR) RELOCATED BENCH

PROPOSED CONCRETE PEDESTRIAN CURB RAMP WITH DETECTABLE WARNING FIELDS

CONTROL POINT DRILL HOLE N RIM OF 4 MGE MHS  
 N=479357.69  
 E=806563.75  
 ELEV=1017.30

PROPOSED SHREDDED RUBBER MULCH (INSTALLED BY OTHERS)

PROPOSED BOULDER RETAINING WALL



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0 20 ft



PROJECT:

*2013 PARK  
 PLAYGROUND  
 IMPROVEMENTS*

*RESERVOIR PARK  
 126 GLENWAY STREET  
 MADISON, WI 53705*

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ITEM DATE

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PUBLIC WORKS PROJECT #:

**7130**

SHEET TITLE:

**SITE PLAN**

SHEET NUMBER:

**2.3**

Drain Tile Lengths & Slopes from intersection to intersection			
From	To	Length (ft)	Slope (%)
A	B	5.18	-1.35
B	C	14.82	-0.74
C	D	11.87	-1.02
D	E	17.31	-0.7
F	B	13.32	-0.53
B	I	9.73	0.72
G	C	13.02	-0.54
C	J	12.69	0.5
H	D	26.7	-0.5
D	K	14.14	0.5
L	M	7.81	-1.92
M	N	13.85	-0.94
N	O	11.76	-0.71
O	P	11.76	-0.71
Q	M	30.24	-0.5
M	T	25.59	0.59
R	N	27.6	-0.5
N	U	34.8	0.5
S	O	31.38	-0.5
O	V	15.17	0.5

Reservoir Park Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Note
A	1019.26	
B	1019.19	
C	1019.08	
D	1018.96	
E	1018.84	OUTFALL
F	1019.26	
G	1019.15	
H	1019.09	
I	1019.26	
J	1019.14	
K	1019.03	
L	1019.26	
M	1019.11	
N	1018.98	
O	1018.9	
P	1018.84	OUTFALL
Q	1019.26	
R	1019.12	
S	1019.06	
T	1019.26	
U	1019.15	
V	1018.98	

TAPER ASPHALT WITHIN HATCHED AREA TO ENSURE ASPHALT ELEVATION IS AT 1020.34

DETAIL 5.2 ASPHALT AT PAVEMENT EDGE

CONTROL POINT  
DRILL HOLE N RIM OF 4 MGE MHS  
N=479357.69  
E=806563.75  
ELEV=1017.3

EDGE OF TUFF TIMBERS: 1021.10  
ELEVATION OF FINISHED PLAYGROUND SURFACING (BY OTHERS): 1020.93  
SUBGRADE DEPTH: 1020.34

GRADING EXTENTS

NEW DRAIN TILE SYSTEM. 4" PVS TILE WITH FILTER SOCK. INVERT ELEVATIONS AND MINIMUM SLOPES IDENTIFIED.

PROPOSED SILT SOCK

- NOTE:
- 1.) 4 OZ, PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE SUBGRADE AND DRAIN TILE SYSTEM PER DETAIL 5.0 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN.
  - 2.) MAT ALL SLOPES GREATER THAN 5:1 WITH EROSION CONTROL MATTING, CLASS I URBAN TYPE A.
  - 3.) CONTRACTOR TO INSTALL DRAIN TILE SYSTEM, LANDSCAPE FABRIC, AND TO GRADE AREA FOR PLAYGROUND SURFACING TO PROPOSED SUBGRADES.
  - 4.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

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**MADISON  
PARKS**

Graphical Scale  
0 20 ft



PROJECT:  
*2013 PARK  
PLAYGROUND  
IMPROVEMENTS*

*RESERVOIR PARK  
126 GLENWAY STREET  
MADISON, WI 53705*

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PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
*GRADING, DRAINAGE  
& EROSION CONTROL  
PLAN*

SHEET NUMBER:  
**2.4**

**Reservoir Park Playground Improvements**  
 City of Madison, WI Public Works Contract #7130  
 Date Revised: 6/25/2013

**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.

**Area ID# groups**

CO	Turf to Concrete	CO
GR	Turf to Gravel	GR
AS	Asphalt	AS
PP	Playground to Playground	PP
PT	Playground to Turf	PT
TP	Turf to Playground	TP
TT	Turf to Turf	TT
TB	Turf to Border Timbers	TB
PB	Playground to Border Timber	PB
WA	Wall	WA

Grp	ID#	Material	Rem	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)
CO		Topsoil Excavate	Remove top 4" of topsoil			50	0.34	17	0.6	0%	0.6
CO		Subsoil Excavate	Remove subsoil to within 13" of proposed grade	Ex-13inches	Pro-13inches	50	varies	6.5	0.2	0%	0.2
CO		Subsoil Fill	Place subsoil to within 13" of proposed grade	Ex-13inches	Pro-13inches	50	varies	0.2	0.0	0%	0.0
CO		Gravel Place	Place 6" of compacted crushed aggregate base course			50	-0.50	-25	-0.9	0%	-0.9
CO		Concrete Place	Place 7" of concrete sidewalk			50	-0.58	-29.15	-1.1	0%	-1.1
GR		Topsoil Excavate	Remove top 4" of topsoil			87	0.34	29.58	1.1	0%	1.1
GR		Subsoil Excavate	Remove subsoil to within 9" of proposed grade	Ex-4inches	Pro-9inches	87	varies	55.7	2.1	0%	2.1
GR		Gravel Place	Place 6" depth of gravel			87	-0.50	-43.5	-1.6	0%	-1.6
GR		Topsoil Place	Place 3" of topsoil over gravel base			87	-0.25	-21.75	-0.8	0%	-0.8
AS		Topsoil Excavate	Remove top 4" of topsoil			466	0.34	158.44	5.9	0%	5.9
AS		Subsoil Excavate	Remove subsoil to within 9" of proposed grade	Ex-4inches	Pro-9inches	466	varies	344.8	12.8	0%	12.8
AS		Gravel Place	Place 6" depth of gravel			466	-0.50	-233	-8.6	0%	-8.6
AS		Asphalt Place	Place 3" depth of asphalt for bike path construction			466	-0.25	-116.5	-4.3	0%	-4.3
PP		Play Material Excavate	Excavate 14" of playground surfacing			1527	1.17	1782	66.0	0%	66.0
PP		Subsoil Place	Place subsoil to within 9" of proposed grade	Ex-14inches	Pro-9inches	1527	varies	-1713	-63.4	0%	-63.4
PP		Play Material Place	Place 9" of rubber surfacing			1527	-0.75	-1145	-42.4	0%	-42.4
PT		Play Material Excavate	Excavate 14" of playground surfacing			321	1.17	375	13.9	0%	13.9
PT		Subsoil Place	Place subsoil to within 6" of pro grade	Ex-14inches	Pro-6inches	321	varies	-134	-5.0	0%	-5.0
PT		Topsoil Place	Place 6" topsoil			321	-0.50	-161	-5.9	0%	-5.9
TP		Topsoil Excavate	Excavate 4" of topsoil			1819	0.33	600	22.2	0%	22.2
TP		Subsoil Excavate	Excavate subsoil to within 9" of proposed grades	Ex-4inches	Pro-9inches	1819	varies	633	23.4	0%	23.4
TP		Subsoil Place	Place subsoil to within 9" of proposed grade	Ex-4inches	Pro-9inches	1819	varies	-638	-23.6	0%	-23.6
TP		Play Material Place	Place 9" of rubber surfacing			1819	-0.75	-1364	-50.5	0%	-50.5
TT		Topsoil Excavate	Remove 4" of topsoil			2427	0.33	801	29.7	0%	29.7
TT		Subsoil Place	Place subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches	2427	varies	-1362	-50.1	0%	-50.1
TT		Subsoil Excavate	Excavate subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches	2427	varies	428	15.9	0%	15.9
TT		Topsoil Place	Place 6" of topsoil			2427	-0.50	-1214	-44.9	0%	-44.9
TB		Topsoil Excavate	Excavate 4" of topsoil			92	0.33	30	1.1	0%	1.1
TB		Subsoil Excavate	Excavate subsoil to within 1" of proposed grade	Ex-4inches	Pro-1foot	92	varies	42	1.6	0%	1.6
TB		Subsoil Place	Place subsoil to within 1" of proposed grade	Ex-4inches	Pro-1foot	92	varies	-41	-1.5	0%	-1.5
TB		Place Border	Place Border			92	-1.00	-92	-3.4	0%	-3.4
PB		Play Material Excavate	Excavate 14" of playground surfacing			11	1.17	13	0.5	0%	0.5
PB		Subsoil Place	Place subsoil to within 1" of proposed grade	Ex-14inches	Pro-1foot	11	varies	-6	-0.2	0%	-0.2
PB		Place Border	Place Border			11	-1.00	-11	-0.4	0%	-0.4
WA		Topsoil Excavate	Excavate 4" of topsoil			70	0.33	23	0.9	0%	0.9
WA		Subsoil Excavate	Excavate Material for Wall			70	1.00	70	2.6	0%	2.6
WA		Wall Place	Place Wall			70	-1.00	-70	-2.6	0%	-2.6

**Reservoir Park Playground**

City of Madison, WI Public Works Contract #7130

Date Revised: 6/25/2013

Summary of stone (gravel) and soil quantities in the Bid Table.

Derived from more detailed spreadsheet available from Parks Div

**Preliminary Computation Summary**

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

Row Labels	Sum of Factored (Uncom-pacted) Volume (cu yd)
Gravel Place	-11
Subsoil Excavate	54
Subsoil Place	-142
Topsoil Excavate	59
Topsoil Place	-52
Play Material Excavate	80
Play Material Place	-93
Subsoil Fill	0
Concrete Place	-1
Asphalt Place	-4
<b>Grand Total</b>	<b>-110</b>

**Reorganized into Bid Table Items:**

Bid Item #20101	Excavation Cut	Subsoil Excavate + Topsoil Excavate
Bid Item #20201	Fill	Subsoil Place + Subsoil Excavate
Bid Item #20221	Topsoil	= Topsoil Place
Bid Item #40201		= Asphalt
Bid Item #40102		= Gravel Place
Play material Excavate		By others, not included in this contract.
Play material Place		By others, not included in this contract.

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

City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 PO Box 2987  
 Madison, WI 53701-2987



Graphical Scale  
 0 20 ft



PROJECT:

*2013 PARK  
 PLAYGROUND  
 IMPROVEMENTS*

*RESERVOIR PARK  
 126 GLENWAY STREET  
 MADISON, WI 53705*

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  
 Drawn by: SCL 06-27-2013

Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**2.5**



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

City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 PO Box 2987  
 Madison, WI 53701-2987

*play*  
**MADISON  
 PARKS**

Graphical Scale   
 0 50 ft

PROJECT:  
**2013 PARK  
 PLAYGROUND  
 IMPROVEMENTS**

**REYNOLDS PARK  
 810 E MIFFLIN ST  
 MADISON, WI 53703**

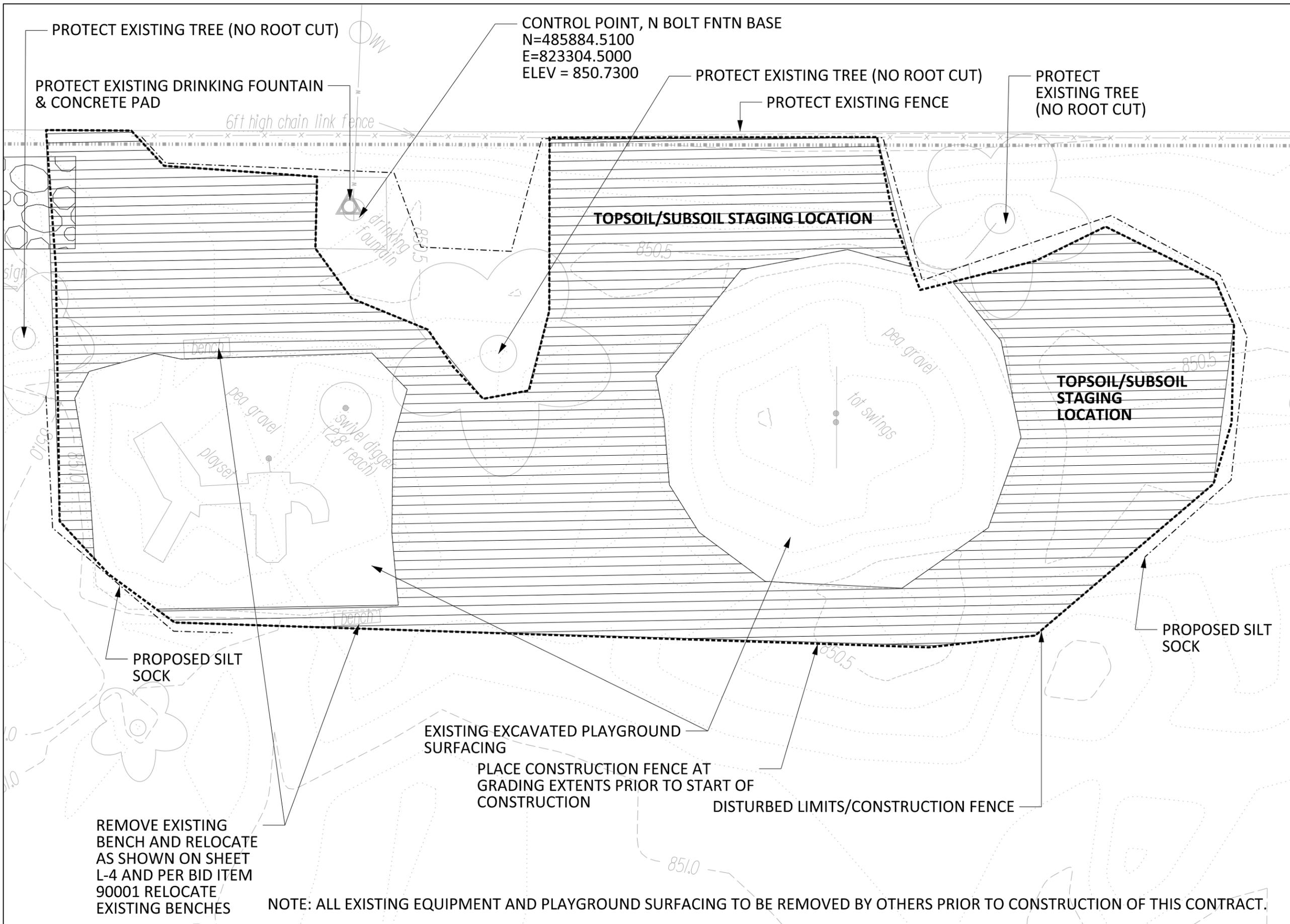
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: SCL	06-27-2013
Approved by:	XX-XX-XXXX

PUBLIC WORKS PROJECT #:  
**7130**

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

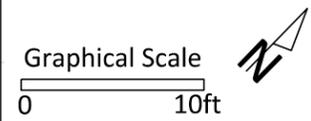
SHEET NUMBER:  
**3.1**



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

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 PO Box 2987  
 Madison, WI 53701-2987

**play  
 MADISON  
 PARKS**



PROJECT:  
**2013 PARK  
 PLAYGROUND  
 IMPROVEMENTS**

**REYNOLDS PARK  
 810 E MIFFLIN ST  
 MADISON, WI 53703**

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
Drawn by: SCL	06-27-2013
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

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

SHEET NUMBER:  
**3.2**

NOTE: ALL EXISTING EQUIPMENT AND PLAYGROUND SURFACING TO BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION OF THIS CONTRACT.





PROJECT:

*2013 PARK  
PLAYGROUND  
IMPROVEMENTS*

*REYNOLDS PARK  
810 E MIFFLIN ST  
MADISON, WI 53703*

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  
Drawn by: SCL 06-27-2013

Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:

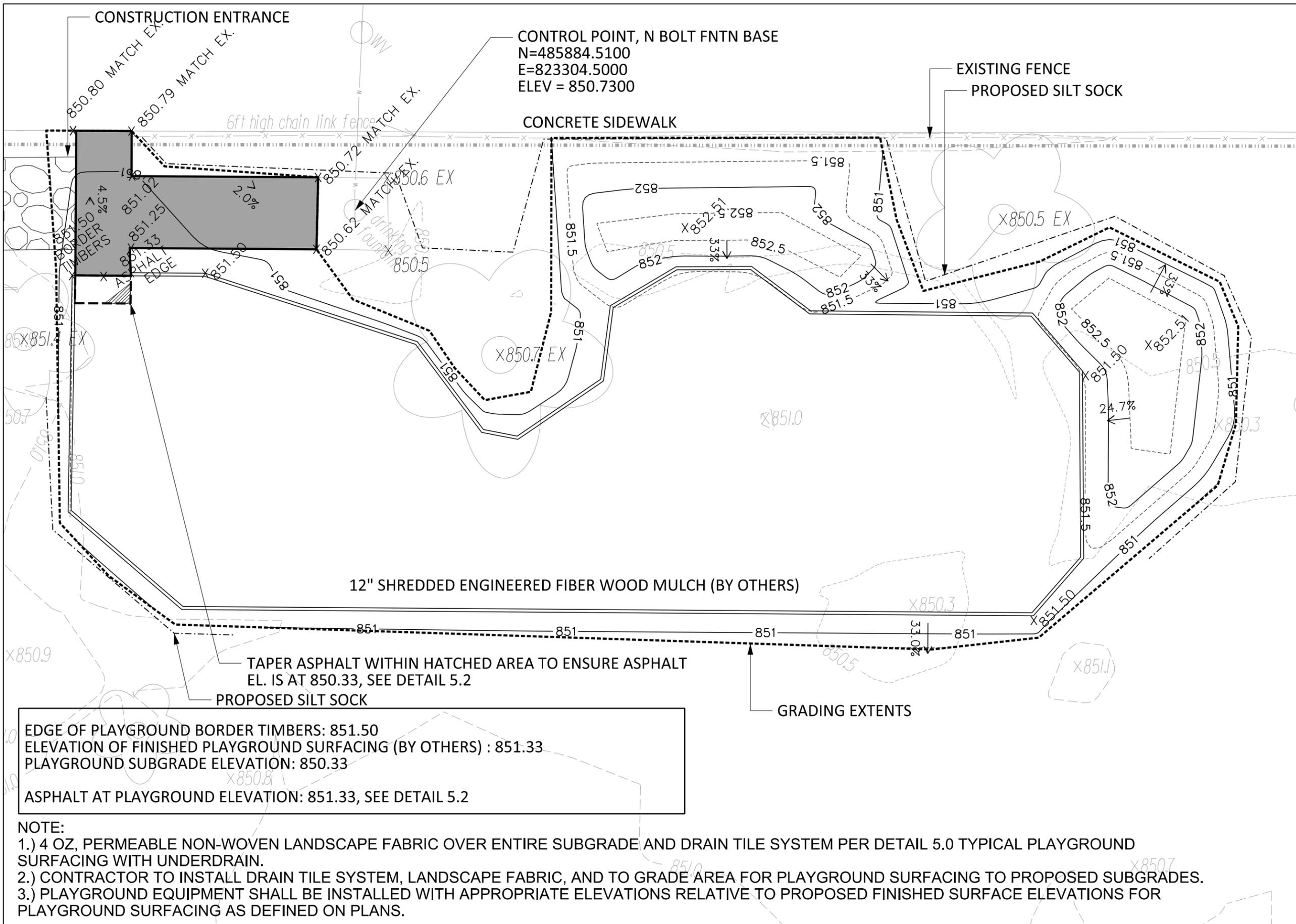
*7130*

SHEET TITLE:

*GRADING AND  
EROSION  
CONTROL PLAN*

SHEET NUMBER:

**3.4**



EDGE OF PLAYGROUND BORDER TIMBERS: 851.50  
ELEVATION OF FINISHED PLAYGROUND SURFACING (BY OTHERS) : 851.33  
PLAYGROUND SUBGRADE ELEVATION: 850.33  
ASPHALT AT PLAYGROUND ELEVATION: 851.33, SEE DETAIL 5.2

- NOTE:
- 1.) 4 OZ, PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE SUBGRADE AND DRAIN TILE SYSTEM PER DETAIL 5.0 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN.
  - 2.) CONTRACTOR TO INSTALL DRAIN TILE SYSTEM, LANDSCAPE FABRIC, AND TO GRADE AREA FOR PLAYGROUND SURFACING TO PROPOSED SUBGRADES.
  - 3.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

Grp	ID#	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)
GR		Topsoil Excavate	Remove top 4" of topsoil			343	0.34	116.62	4.3	0%	4.3
GR		Subsoil Excavate	Remove subsoil to within 9" of proposed grade	Ex-4inches	Pro-9inches	343	varies	54.1	2.0	0%	2.0
GR		Subsoil Place	Place subsoil to within 9" of proposed grade	Ex-4inches	Pro-9inches	343	varies	-15.4	-0.6	0%	-0.6
GR		Gravel Place	Place 6" depth of gravel			343	-0.50	-171.5	-6.4	0%	-6.4
GR		Topsoil Place	Place 3" topsoil over gravel			81	-0.25	-20.25	-0.8	0%	-0.8
AS		Asphalt	Place 3" depth of asphalt for bike path construction			248	-0.25	-62	-2.3	0%	-2.3
PP		Play Material Excavate	Remove 14" of playground surfacing			1822	1.17	2126	78.7	0%	78.7
PP		Subsoil Place	Place subsoil to within 1 foot of proposed grade	Ex-14inches	Pro-1foot	1822	varies	-1733	-64.2	0%	-64.2
PP		Play Material Place	Place 1' of woodchips			1822	-1.00	-1822	-67.5	0%	-67.5
PT		Play Material Excavate	Excavate 14" of playground surfacing			150	1.17	175	6.5	0%	6.5
PT		Subsoil Place	Place subsoil to within 6" of pro grade	Ex-14inches	Pro-6inches	150	varies	-157	-5.8	0%	-5.8
PT		Topsoil Place	Place 6" topsoil			150	-0.50	-75	-2.8	0%	-2.8
TP		Topsoil Excavate	Excavate 4" of topsoil			1446	0.33	477	17.7	0%	17.7
TP		Subsoil Excavate	Excavate subsoil to within 12" of proposed grade	Ex-4inches	Pro-1foot	1446	varies	5	0.2	0%	0.2
TP		Subsoil Place	Place subsoil to within 14" of proposed grade	Ex-4inches	Pro-14inches	1446	varies	-212	-7.9	0%	-7.9
TP		Play Material Place	Place 1' of woodchips			1446	-1.00	-1446	-53.6	0%	-53.6
TT		Topsoil Excavate	Remove 4" of topsoil			1625	0.33	536	19.9	0%	19.9
TT		Subsoil Place	Place subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches	1625	varies	-1301	-48.2	0%	-48.2
TT		Subsoil Excavate	Excavate subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches	1625	varies	14	0.5	0%	0.5
TT		Topsoil Place	Place 6" of topsoil			1625	-0.50	-813	-30.1	0%	-30.1
TB		Topsoil Excavate	Excavate 4" of topsoil			75	0.33	25	0.9	0%	0.9
TB		Subsoil Place	Place subsoil to within 1' of proposed grade	Ex-4inches	Pro-1'	75	varies	-14	-0.5	0%	-0.5
TB		Place Border	Place Border			75	-1.00	-75	-2.8	0%	-2.8
PB		Play Material Excavate	Excavate 14" of playground surfacing			19	1.17	22	0.8	0%	0.8
PB		Subsoil Place	Place subsoil to within 1' of proposed grade	Ex-14inches	Pro-1'	19	varies	-17	-0.6	0%	-0.6
PB		Place Border	Place Border			19	-1.00	-19	-0.7	0%	-0.7

**Reynolds Park Playground Improvements**

City of Madison, WI Public Works Contract #7130  
Date Revised: 6/12/2013

**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.

**Area ID# groups**

GR	Turf to Gravel	GR
AS	Asphalt	AS
PP	Playground to Playground	PP
PT	Playground to Turf	PT
TP	Turf to Playground	TP
TT	Turf to Turf	TT
TB	Turf to Border Timbers	TB
PB	Playground to Border Timbers	PB

**Reynolds Park Playground**

City of Madison, WI Public Works Contract #7130  
Date Revised: 6/25/2013

Summary of stone (gravel) and soil quantities in the Bid Table.  
Derived from more detailed spreadsheet available from Parks Div

**Preliminary Computation Summary**

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

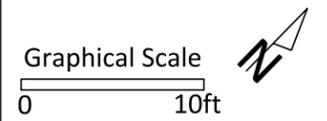
Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Gravel Place	-6
Subsoil Excavate	3
Subsoil Place	-127
Topsoil Excavate	42
Topsoil Place	-34
Asphalt	-2
Play Material Excavate	85
Play Material Place	-121
<b>Grand Total</b>	<b>-160</b>

**Reorganized into Bid Table Items:**

Bid Item #20101	Excavation Cut	Subsoil Excavate + Topsoil Excavate
Bid Item #20201	Fill	Subsoil Place + Subsoil Excavate
Bid Item #20221	Topsoil	= Topsoil Place
Bid Item #40201		= Asphalt
Bid Item #40102		= Gravel Place
Play material Excavate	By others, not included in this contract.	
Play material Place	By others, not included in this contract.	

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

City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
PO Box 2987  
Madison, WI 53701-2987



PROJECT:  
**2013 PARK PLAYGROUND IMPROVEMENTS**

**REYNOLDS PARK**  
810 E MIFFLIN ST  
MADISON, WI 53703

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
Drawn by: SCL	xx-xx-xxxx06-27-2013
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:

SHEET TITLE:  
**DESIGN COMPUTATIONS**

SHEET NUMBER:  
**3.5**

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

City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
PO Box 2987  
Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**

Graphical Scale

0 40 ft



PROJECT:

**WORTHINGTON PARK  
PLAYGROUND  
IMPROVEMENTS**

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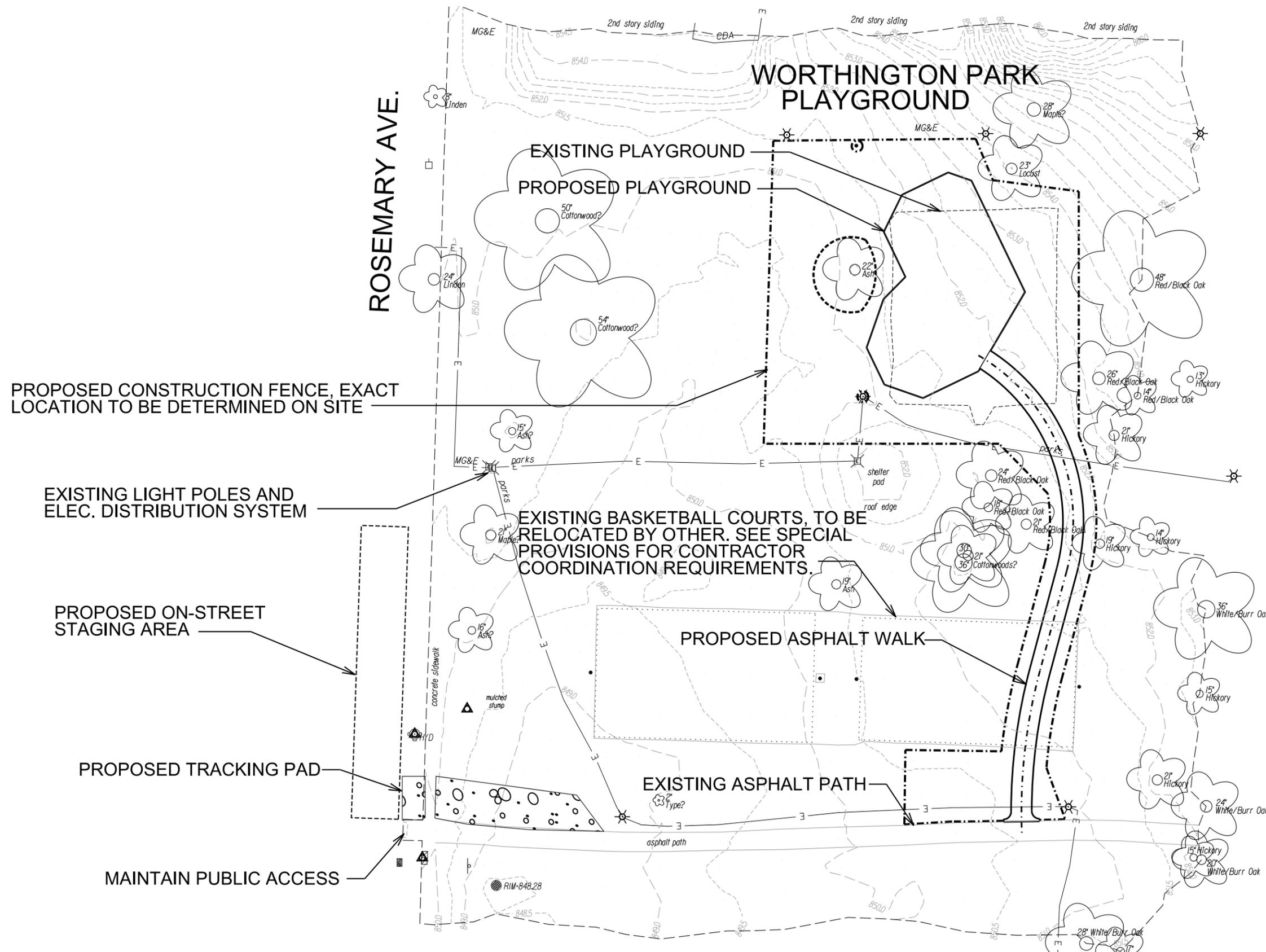
ITEM	DATE
Drawn by: MRS	06-21-13
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

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

SHEET NUMBER:

**4.1**



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

City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
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Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**

Graphical Scale

0 20 ft



PROJECT:

**WORTHINGTON PARK  
PLAYGROUND  
IMPROVEMENTS**

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

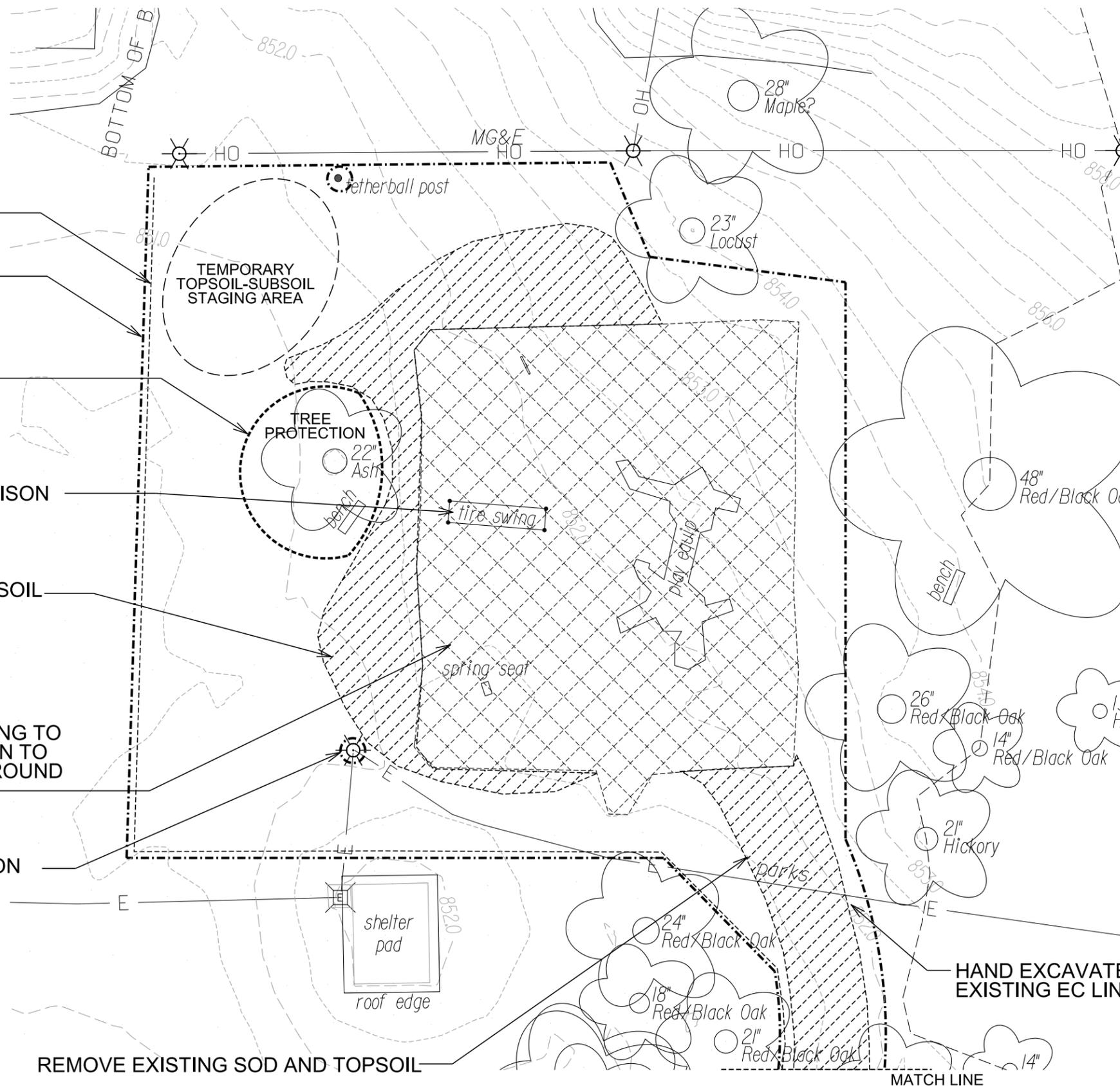
ITEM	DATE
Drawn by: MRS	06-21-13
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
**DEMOLITION AND  
PROTECTION PLAN**

SHEET NUMBER:

**4.2**



PROPOSED SILT SOCK

CONSTRUCTION FENCE  
(PLASTIC)

TREE PROTECTION  
(NO ROOT CUT) TYP.

ALL EXISTING PLAY EQUIPMENT  
TO BE REMOVED BY CITY OF MADISON

REMOVE EXISTING SOD AND TOPSOIL

EXISTING PLAYGROUND SURFACING TO  
BE REMOVED BY CITY OF MADISON TO  
12" BELOW THE EXISTING PLAYGROUND  
SURFACE ELEVATION

EXISTING LIGHT POLE PROTECTION

REMOVE EXISTING SOD AND TOPSOIL

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

City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 PO Box 2987  
 Madison, WI 53701-2987

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

Graphical Scale

0 20 ft



PROJECT:

**WORTHINGTON PARK  
 PLAYGROUND  
 IMPROVEMENTS**

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

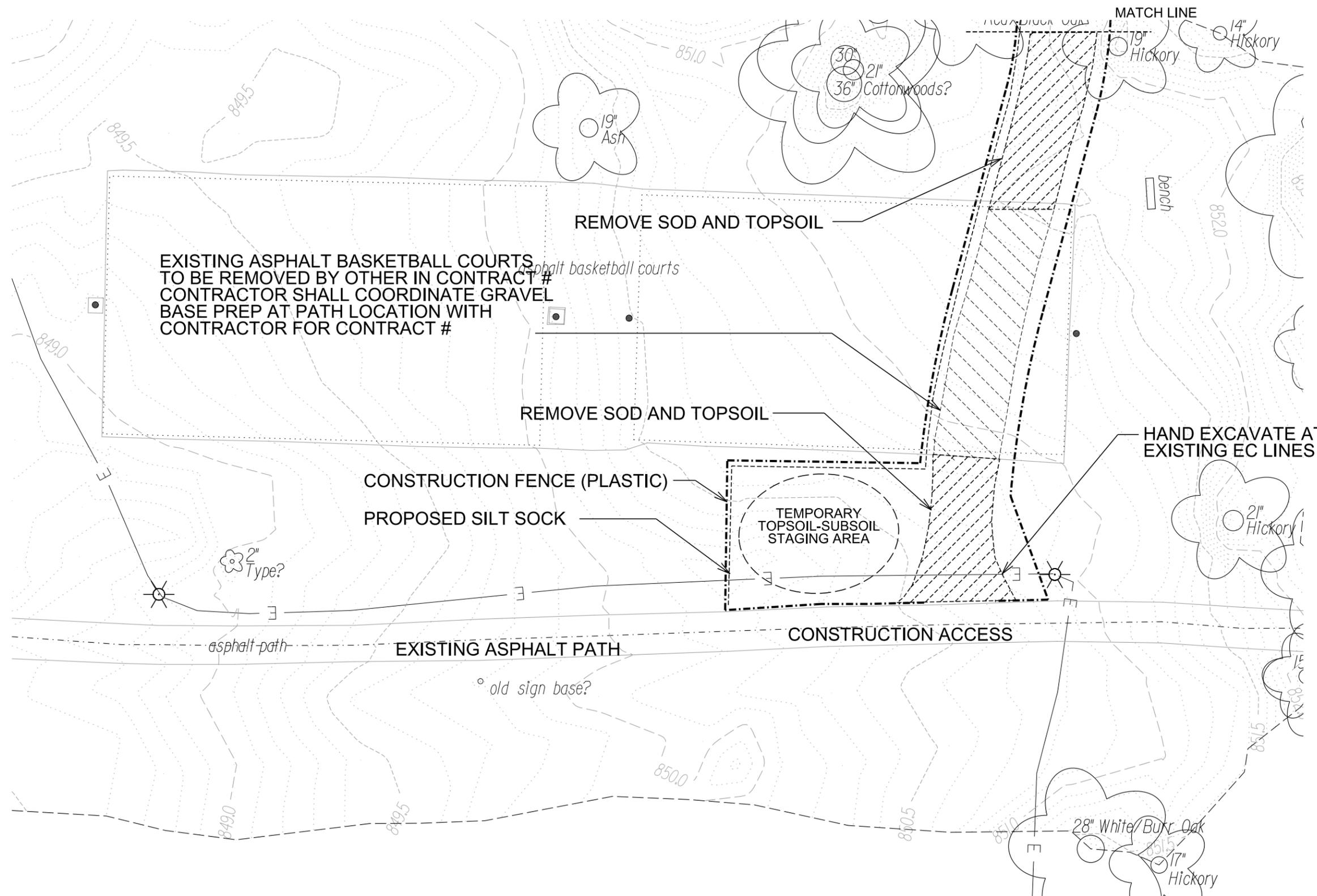
ITEM	DATE
Drawn by: MRS	06-21-13
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

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

SHEET NUMBER:

**4.3**





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

City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
PO Box 2987  
Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**

Graphical Scale

0 20 ft



PROJECT:

**WORTHINGTON PARK  
PLAYGROUND  
IMPROVEMENTS**

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

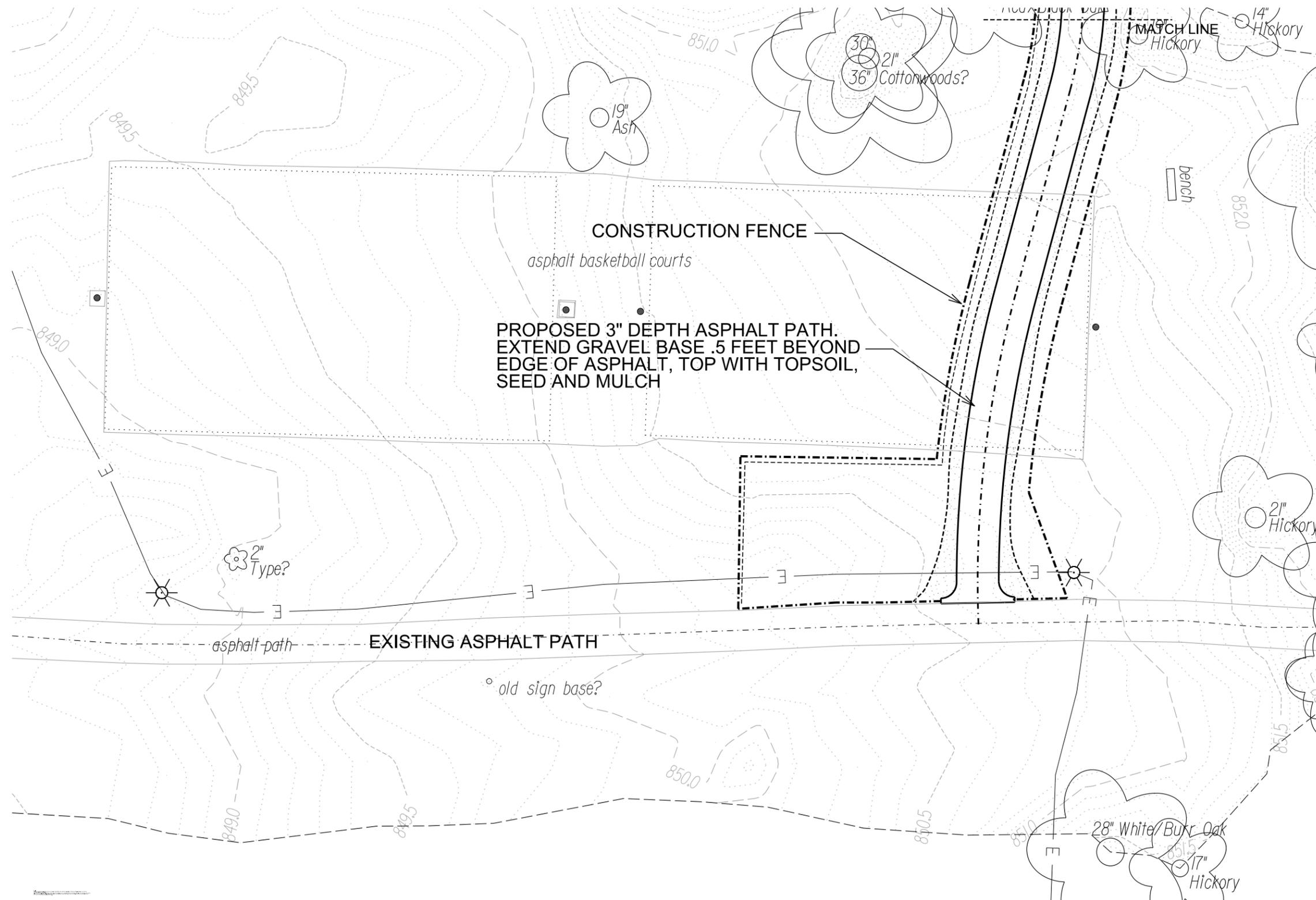
ITEM	DATE
Drawn by: MRS	06-21-13
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
**SITE PLAN- PATH**

SHEET NUMBER:

**4.5**



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

City-County Building, Suite 104  
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PO Box 2987  
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*play*  
**MADISON  
PARKS**

Graphical Scale

0 20 ft



PROJECT:

**WORTHINGTON PARK  
PLAYGROUND  
IMPROVEMENTS**

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

ITEM	DATE
Drawn by: MRS	06-21-13
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

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

SHEET NUMBER:

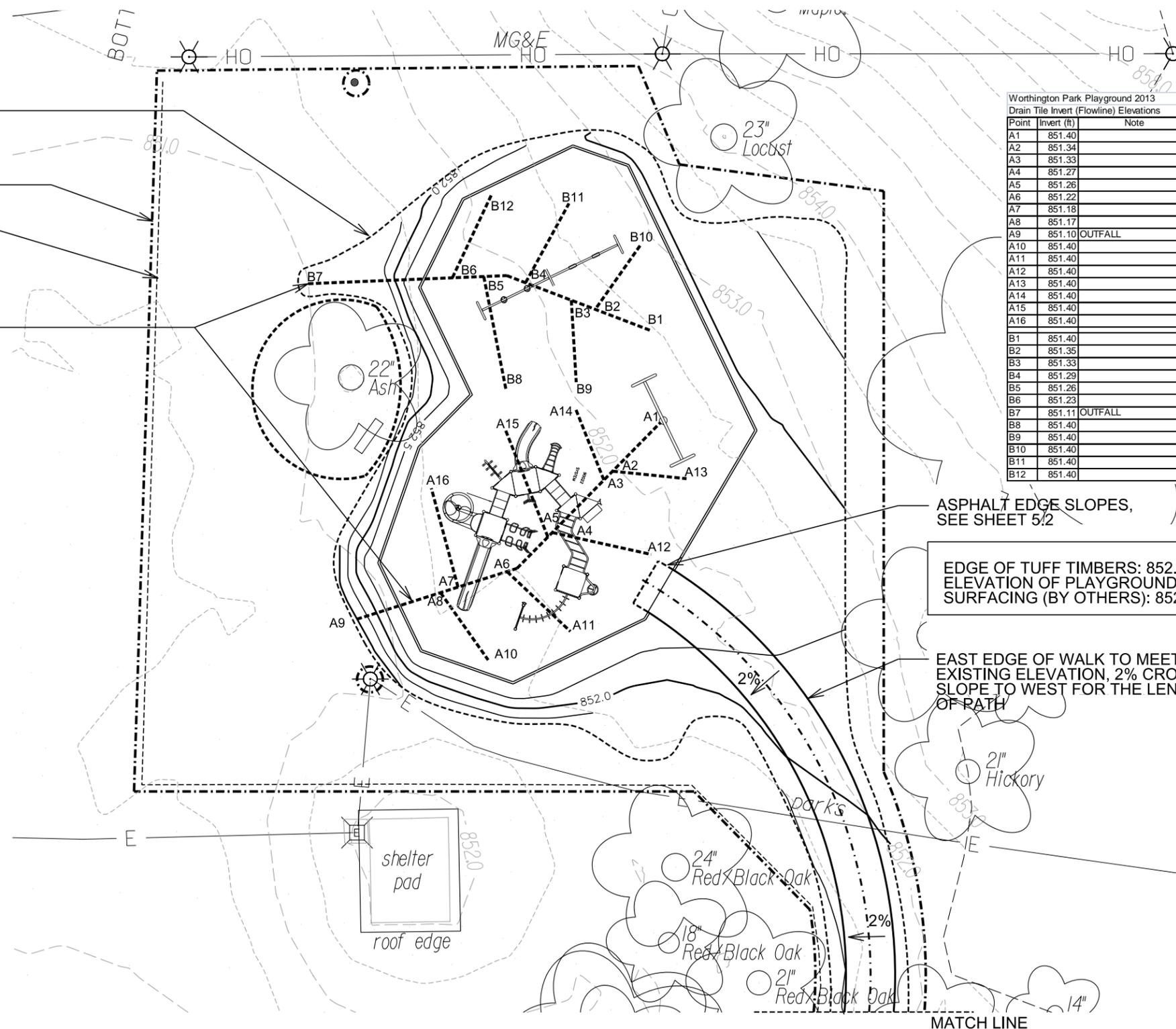
**4.6**

PROPOSED GRADING EXTENTS

CONSTRUCTION FENCE (PLASTIC)

PROPOSES SILT SOCK

PROPOSED DRAIN TILE SYSTEM, 4" PVC TILE WITH FILTER SOCK. INVERT ELEVATIONS IDENTIFIED



Worthington Park Playground 2013		
Point	Invert (ft)	Note
A1	851.40	
A2	851.34	
A3	851.33	
A4	851.27	
A5	851.26	
A6	851.22	
A7	851.18	
A8	851.17	
A9	851.10	OUTFALL
A10	851.40	
A11	851.40	
A12	851.40	
A13	851.40	
A14	851.40	
A15	851.40	
A16	851.40	
B1	851.40	
B2	851.35	
B3	851.33	
B4	851.29	
B5	851.26	
B6	851.23	
B7	851.11	OUTFALL
B8	851.40	
B9	851.40	
B10	851.40	
B11	851.40	
B12	851.40	

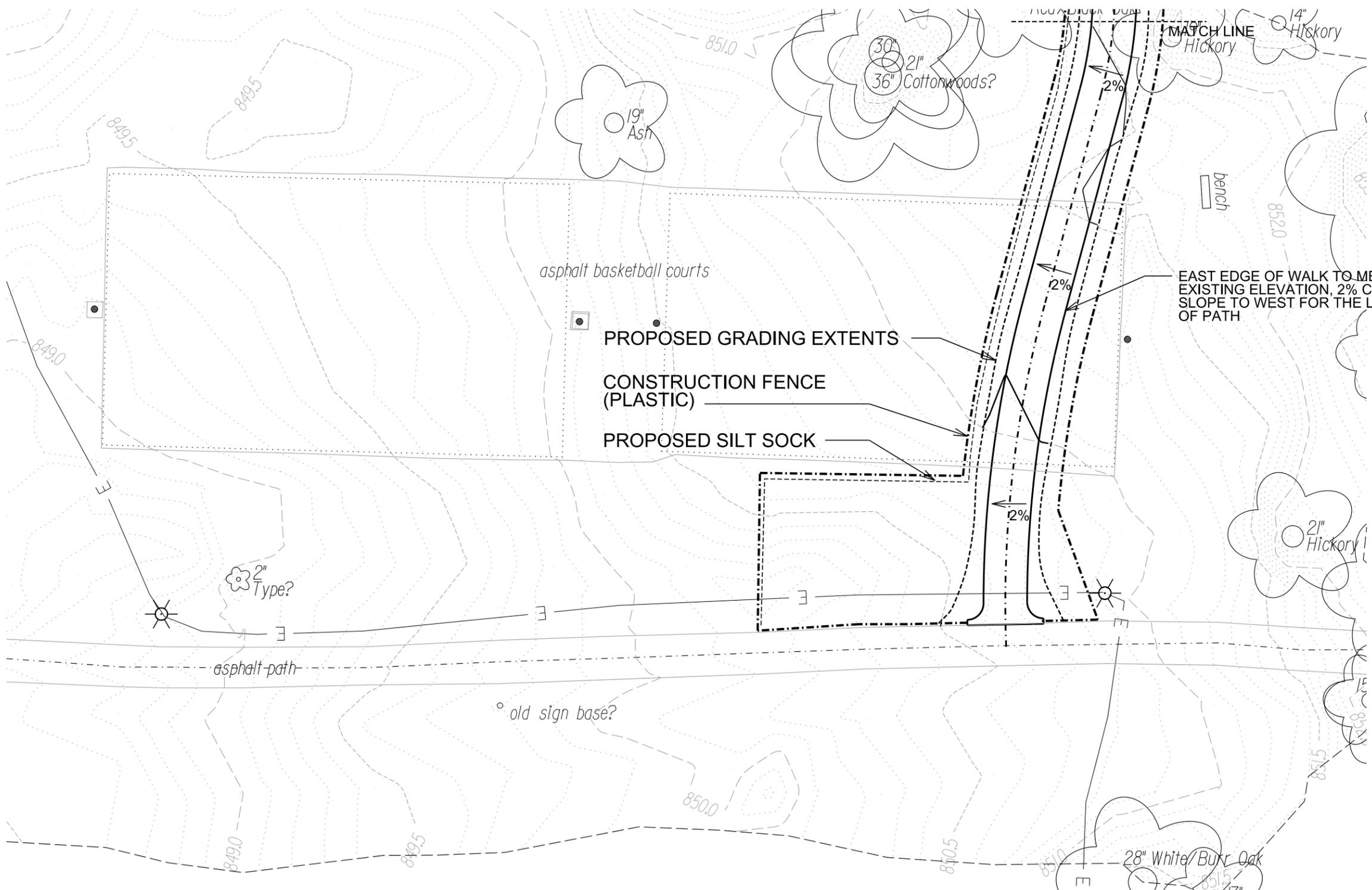
ASPHALT EDGE SLOPES, SEE SHEET 5/2

EDGE OF TUFF TIMBERS: 852.92  
ELEVATION OF PLAYGROUND SURFACING (BY OTHERS): 852.75

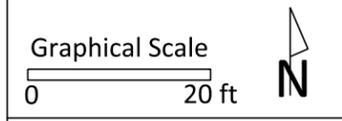
EAST EDGE OF WALK TO MEET EXISTING ELEVATION, 2% CROSS SLOPE TO WEST FOR THE LENGTH OF PATH

**NOTE:**

- 1.) 4 OZ, PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE SUBGRADE AND DRAIN TILE SYSTEM PER DETAIL 5.0 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN.
- 2.) CONTRACTOR TO INSTALL DRAIN TILE SYSTEM, LANDSCAPE FABRIC, AND TO GRADE AREA FOR PLAYGROUND SURFACING TO PROPOSED SUBGRADES.
- 3.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.



City of Madison  
 Department of Public Works  
**PARKS DIVISION**  
 City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 PO Box 2987  
 Madison, WI 53701-2987  
**play MADISON PARKS**



PROJECT:  
**WORTHINGTON PARK  
 PLAYGROUND  
 IMPROVEMENTS**

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

ITEM	DATE
Drawn by: MRS	06-21-13
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

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

SHEET NUMBER:  
**4.7**

- NOTE:**
- 1.) 4 OZ, PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE SUBGRADE AND DRAIN TILE SYSTEM PER DETAIL 5.0 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN.
  - 2.) CONTRACTOR TO INSTALL DRAIN TILE SYSTEM, LANDSCAPE FABRIC, AND TO GRADE AREA FOR PLAYGROUND SURFACING TO PROPOSED SUBGRADES.
  - 3.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

Grp	ID#	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)
AS		Topsoil Excavate	Remove top 4" of topsoil			1347	0.34	457.98	17.0	0%	17.0
AS		Subsoil Excavate	Remove subsoil to within 9" of proposed grade	Ex-4inches	Pro1-9inches		varies	549.34	20.3	0%	20.3
AS		Play Material Excavate	Excavate 12" of playground surfacing			-211	-1.00	211	7.8	0%	7.8
AS		Gravel Place	Place 6" depth of gravel			1558	-0.50	-779	-28.9	0%	-28.9
AS		Subsoil Place	Place subsoil for Asphalt Path	Ex-12inches	Pro1-9inches		varies	-180.9	-6.7	0%	-6.7
AS		Asphalt Place	Place 3" depth of asphalt for bike path construction			1416.4	-0.25	-354.1	-13.1	0%	-13.1
PP		Play Material Excavate	Excavate 12" of playground surfacing			-2848	-1.00	2848	105.5	0%	105.5
PP		Subsoil Place	Place subsoil to within 12" of proposed grade	Ex-12inches	Pro1-12inches		varies	-2156	-79.9	0%	-79.9
PP		Subsoil Excavate	Excavate subsoil to within 12" of proposed grade	Ex-12inches	Pro1-12inches		varies	8	0.3	0%	0.3
PP		Play Material Place	Place 12" of shredded wood surfacing			2848	-1.00	-2848	-105.5	0%	-105.5
PT		Play Material Excavate	Excavate 12" of playground surfacing			1784	1.00	1784	66.1	0%	66.1
PT		Subsoil Place	Place subsoil to within 6" of pro grade	Ex-12inches	Pro2-6inches		varies	-1532	-56.7	0%	-56.7
PT		Topsoil Place	Place 6" topsoil			1784	-0.50	-892	-33.0	0%	-33.0
TP		Topsoil Excavate	Excavate 4" of topsoil			600.54	0.33	198	7.3	0%	7.3
TP		Subsoil Excavate	Excavate subsoil to within 12" of proposed grades	Ex-4inches	Pro1-12inches		varies	168	6.2	0%	6.2
TP		Subsoil Place	Place subsoil to within 12" of proposed grade	Ex-4inches	Pro2-9inches		varies	-175	-6.5	0%	-6.5
TP		Play Material Place	Place 12" of shredded wood surfacing			600.5	-1.00	-601	-22.2	0%	-22.2
TT		Topsoil Excavate	Remove 4" of topsoil			1621.7	0.33	535	19.8	0%	19.8
TT		Subsoil Place	Place subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches		varies	-406	-15.0	0%	-15.0
TT		Subsoil Excavate	Excavate subsoil to within 6" of pro grade	Ex-4inches	Pro-6inches		varies	153	5.7	0%	5.7
TT		Topsoil Place	Place 6" of topsoil			1621.7	-0.50	-811	-30.0	0%	-30.0
TB		Topsoil Excavate	Excavate 4" of topsoil			36.7	0.33	12	0.4	0%	0.4
TB		Subsoil Excavate	Excavate subsoil to within 1' of proposed grade	Ex-4inches	Pro1-1foot		varies	8	0.3	0%	0.3
TB		Subsoil Place	Place subsoil to within 1' of proposed grade	Ex-4inches	Pro2-1foot		varies	-17	-0.6	0%	-0.6
TB		Place Border	Place Border			36.7	-1.00	-37	-1.4	0%	-1.4
PB		Play Material Excavate	Excavate 12" of playground surfacing			36.3	1.00	36	1.3	0%	1.3
PB		Subsoil Place	Place subsoil to within 1' of proposed grade	Ex-12inches	Pro2-1foot		varies	-26	-1.0	0%	-1.0
PB		Place Border	Place Border			36.3	-1.00	-26	-1.0	0%	-1.0

### Worthington Park Playground

City of Madison, WI Public Works Contract #7130

Date Revised: 6/25/2013

Summary of stone (gravel) and soil quantities in the Bid Table.  
Derived from more detailed spreadsheet available from Parks Div

#### Preliminary Computation Summary

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

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-13.1
Gravel Place	-28.9
Play Material Excavate	180.7
Play Material Place	-127.7
Subsoil Excavate	32.8
Subsoil Place	-166.4
Topsoil Excavate	44.6
Topsoil Place	-63.1
<b>Grand Total</b>	<b>-143.4</b>

#### Reorganized into Bid Table Items:

Bid Item #20101	
Excavation Cut	Subsoil Excavate + Topsoil Excavate
Bid Item #20201 Fill	Subsoil Place + Subsoil Excavate
Bid Item #20221	
Topsoil	= Topsoil Place
Bid Item #40201	= Asphalt
Bid Item #40102	= Gravel Place
Play material Exavate	By others, not included in this contract.
Play material Place	By others, not included in this contract.

## City of Madison Department of Public Works PARKS DIVISION

City-County Building, Suite 104  
210 Martin Luther King, Jr. Blvd.  
PO Box 2987  
Madison, WI 53701-2987

*play*  
**MADISON  
PARKS**

PROJECT:

**WORTHINGTON PARK  
PLAYGROUND  
IMPROVEMENTS**

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

ITEM DATE  
Drawn by: MRS 06-21-13  
Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
**DESIGN  
COMPUTATIONS**

SHEET NUMBER:  
**4.8**



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

City-County Building, Suite 104  
 210 Martin Luther King, Jr. Blvd.  
 PO Box 2987  
 Madison, WI 53701-2987



PROJECT:

*2013 PARK  
 PLAYGROUND  
 IMPROVEMENTS*

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

ITEM	DATE
Drawn by: SCL	06-27-2013
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:  
**7130**

SHEET TITLE:  
**ASPHALT EDGE  
 AT PLAYGROUND**

SHEET NUMBER:  
**5.2**

