

SHEET SCHEDULE

- 1.1 SUNSET PARK - PROJECT LOCATION AND SITE ACCESS
- 1.2 SUNSET PARK - DEMOLITION AND PROTECTION PLAN
- 1.3 SUNSET PARK - SITE PLAN
- 1.4 SUNSET PARK - GRADING AND EROSION CONTROL PLAN
- 1.5 SUNSET PARK - DESIGN COMPUTATIONS
  
- 2.1 BAXTER PARK - PROJECT LOCATION AND SITE ACCESS
- 2.2 BAXTER PARK - DEMOLITION AND PROTECTION PLAN
- 2.3 BAXTER PARK - SITE PLAN
- 2.4 BAXTER PARK - GRADING AND EROSION CONTROL PLAN
- 2.5 BAXTER PARK - DESIGN COMPUTATIONS

SHEET SCHEDULE (CONTINUED)

- 3.1 WESTMORLAND PARK - PROJECT LOCATION AND SITE ACCESS
- 3.2 WESTMORLAND PARK - DEMOLITION AND PROTECTION PLAN
- 3.3 WESTMORLAND PARK - SITE PLAN
- 3.4 WESTMORLAND PARK - GRADING AND EROSION CONTROL PLAN
- 3.5 WESTMORLAND PARK - DRAIN TILE SCHEDULES AND PATH VERTICAL ALIGNMENT
- 3.6 WESTMORLAND PARK - DESIGN COMPUTATIONS
  
- 4.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 4.2 PAVEMENT EDGE AT PLAYGROUND

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



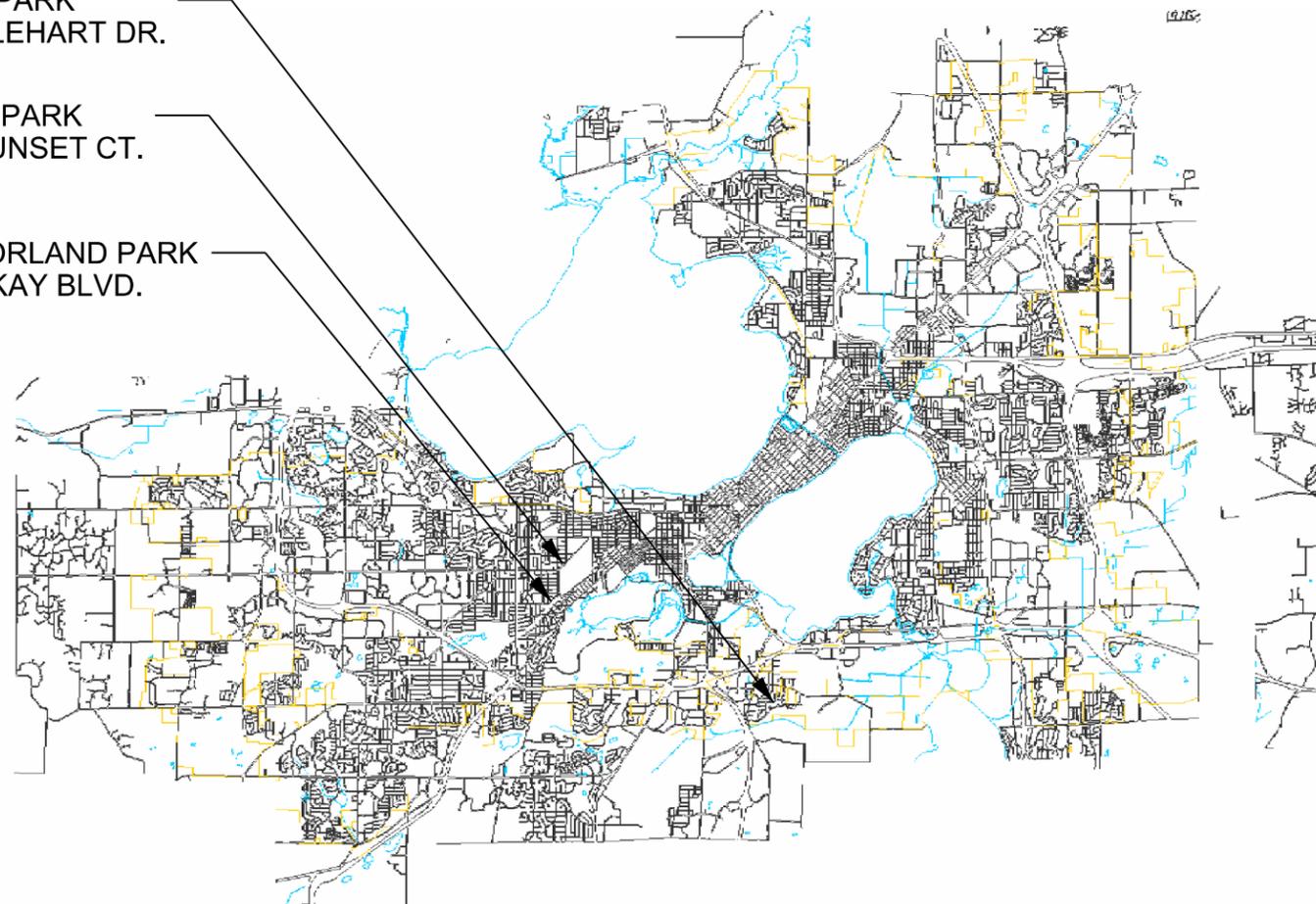
# 2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 1 CONTRACT 7925

BAXTER PARK - MUNIS # 17343 -51 -130  
 SUNSET PARK - MUNIS # 17344 -51 -130  
 WESTMORLAND PARK - MUNIS # 17343 -51 -130

BAXTER PARK  
 777 ENGLEHART DR.

SUNSET PARK  
 300 E. SUNSET CT.

WESTMORLAND PARK  
 4114 TOKAY BLVD.



PROJECT:  
 2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 1



*MS*  
 03-16-17

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: MS	03/17/17

PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
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SHEET NUMBER:  
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**PARKS DIVISION**  
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*play*  
**MADISON  
 PARKS**

Graphical Scale  
 0 30 ft 

PROJECT:  
**2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 1**

**SUNSET PARK  
 300 E SUNSET CT.  
 MADISON, WI 53705**

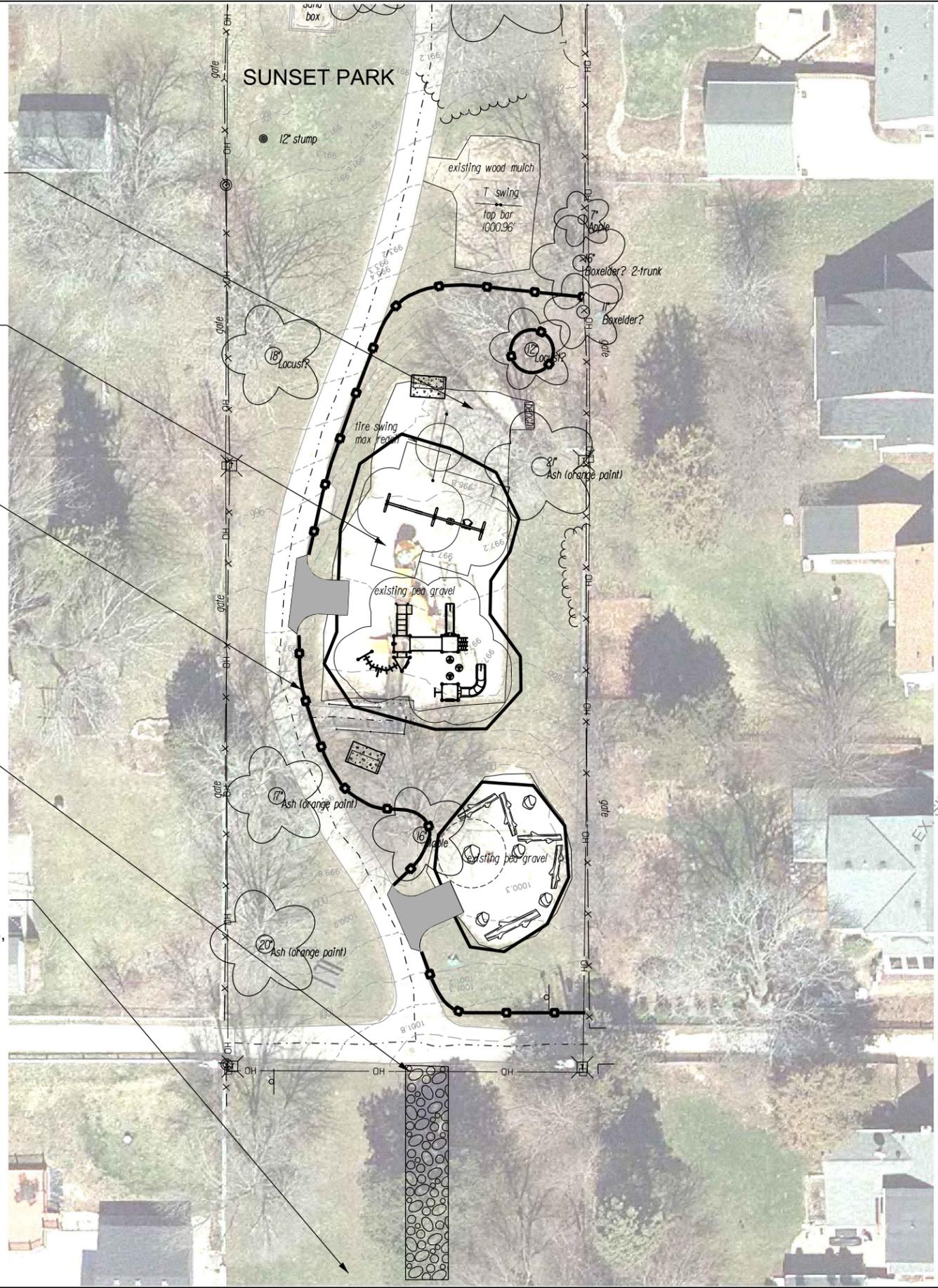
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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

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

SHEET NUMBER:  
**1.1**



PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY, EXISTING PEA GRAVEL SURFACING SHALL BE REMOVED BY CONTRACTOR.

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

CONSTRUCTION ENTRANCE TRACKING PAD.

CONSTRUCTION ACCESS IS FROM SUNSET COURT, APPROX. 300 FT TO THE SOUTH. THE CONTRACTOR SHALL PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, BASKETBALL COURT PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

**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.
- 2.) SEE SHEET 1.1 FOR CONSTRUCTION ENTRANCE LOCATION.

REMOVE AND DISPOSE OF EXISTING BENCH AND CONCRETE SLAB.

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

SAWCUT EXISTING ASPHALT

REMOVE EXISTING ASPHALT AND GRAVEL BASE

SAWCUT EXISTING ASPHALT

REMOVE EXISTING PEA GRAVEL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

SAWCUT EXISTING ASPHALT

REMOVE EXISTING ASPHALT AND GRAVEL BASE

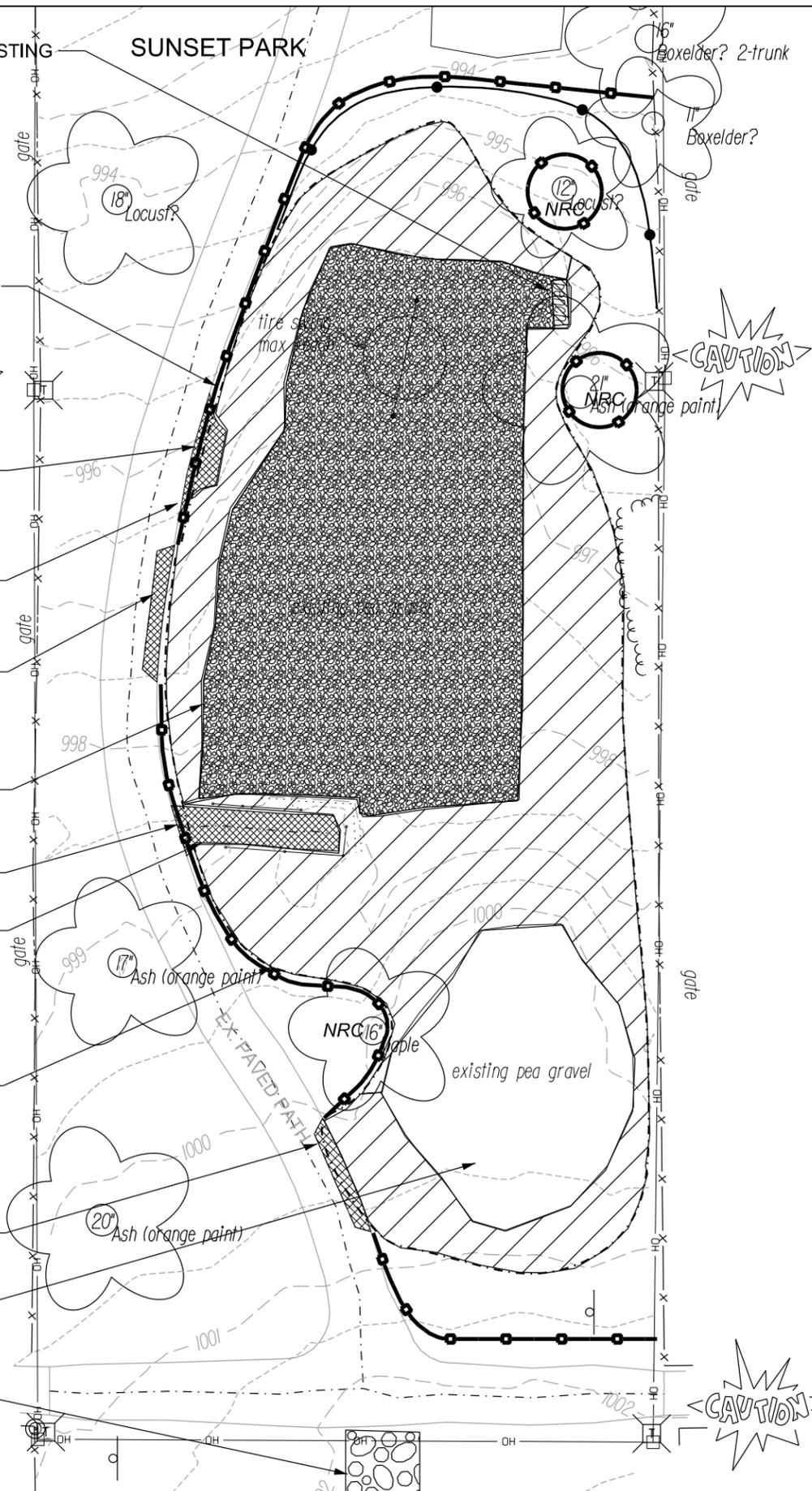
REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

SAWCUT EXISTING ASPHALT

EXISTING PEA GRAVEL REMAINS

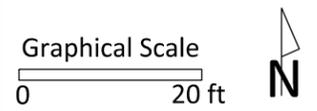
SEE SHEET 1.1 FOR CONSTRUCTION ENTRANCE

**SUNSET PARK**



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*play*  
**MADISON PARKS**



PROJECT:  
**2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 1**

**SUNSET PARK**  
 300 E SUNSET CT.  
 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
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**DEMOLITION AND PROTECTION PLAN**

SHEET NUMBER:  
**1.2**

**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.

INSTALL BENCH ON CONCRETE SLAB.

PLAYGROUND BORDER TIMBERS

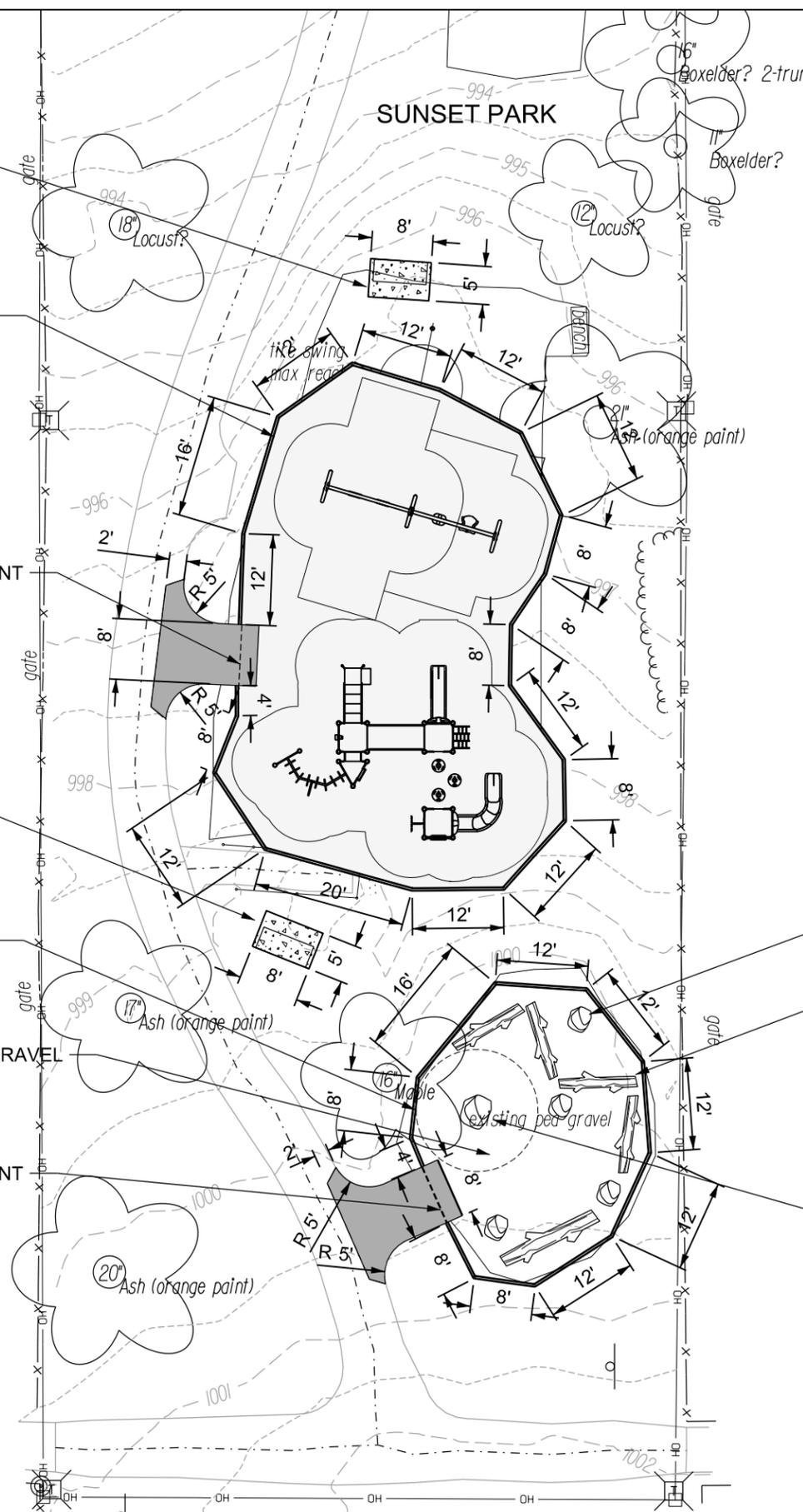
SEE DETAIL 4.2 PAVEMENT EDGE AT PLAYGROUND

INSTALL BENCH ON CONCRETE SLAB.

PLAYGROUND BORDER TIMBERS

SPREAD EXISTING PEA GRAVEL TO LEVEL, EVEN PLAY SURFACE.

SEE DETAIL 4.2 PAVEMENT EDGE AT PLAYGROUND



(4) 36"X36"X36" FIELDSTONE BOULDER, PER BID ITEM 90013

(5) NATURAL WOOD LOG, PER BID ITEM 90015

(1) 48"X48"X40" FIELDSTONE BOULDER, PER BID ITEM 90014

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**MADISON PARKS**



PROJECT:  
**2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 1**

**SUNSET PARK**  
300 E SUNSET CT.  
MADISON, WI 53705

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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**1.3**

**LEGEND**

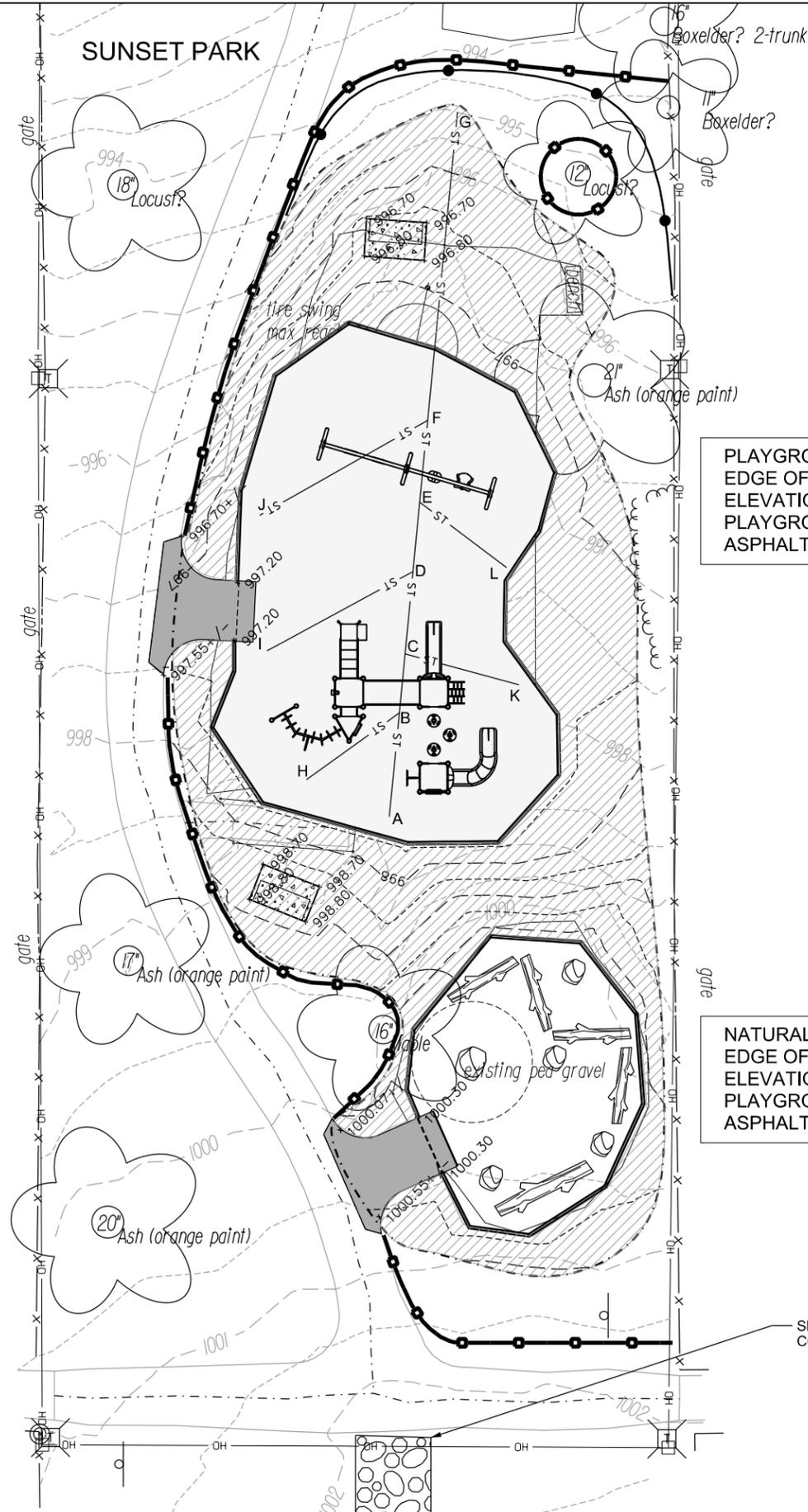
-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. DRAINTILE
-  PRO. GRADING LIMITS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

**NOTES**

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 4.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

Sunset Playground		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 997.4 (INCHES)
A	995.61	21.5
B	995.52	22.6
C	995.47	23.2
D	995.40	24.0
E	995.34	24.7
F	995.27	25.6
G	995.00	28.8
H	995.61	21.5
I	995.61	21.5
J	995.61	21.5
K	995.61	21.5
L	995.61	21.5

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	13.81	-0.65	Underdrain
B	C	7.83	-0.64	Underdrain
C	D	10.96	-0.64	Underdrain
D	E	9.21	-0.65	Underdrain
E	F	10.88	-0.64	Underdrain
F	G	40.98	-0.66	Underdrain
H	B	15.16	-0.59	Underdrain
I	D	23.04	-0.91	Underdrain
J	F	25.56	-1.33	Underdrain
K	C	15.65	-0.89	Underdrain
L	E	14.41	-1.87	Underdrain



**PLAYGROUND**  
 EDGE OF PLAYGROUND BORDER TIMBERS: 997.40  
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 997.20  
 PLAYGROUND SUBGRADE ELEVATION: 996.20  
 ASPHALT AT PLAYGROUND ELEVATION: 997.20

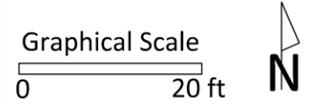
**NATURAL PLAY AREA**  
 EDGE OF PLAYGROUND BORDER TIMBERS: 1000.50  
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 1000.30  
 PLAYGROUND SUBGRADE ELEVATION: EXISTING  
 ASPHALT AT PLAYGROUND ELEVATION: 1000.30

SEE SHEET 1.1 FOR CONSTRUCTION ENTRANCE

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PROJECT:  
**2017 PARK**  
**PLAYGROUND**  
**IMPROVEMENTS**  
**- GROUP 1**

**SUNSET PARK**  
**300 E SUNSET CT.**  
**MADISON, WI 53705**

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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

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

SHEET NUMBER:  
**1.4**



PROJECT:  
*2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 1*

*SUNSET PARK  
 300 E SUNSET CT.  
 MADISON, WI 53705*

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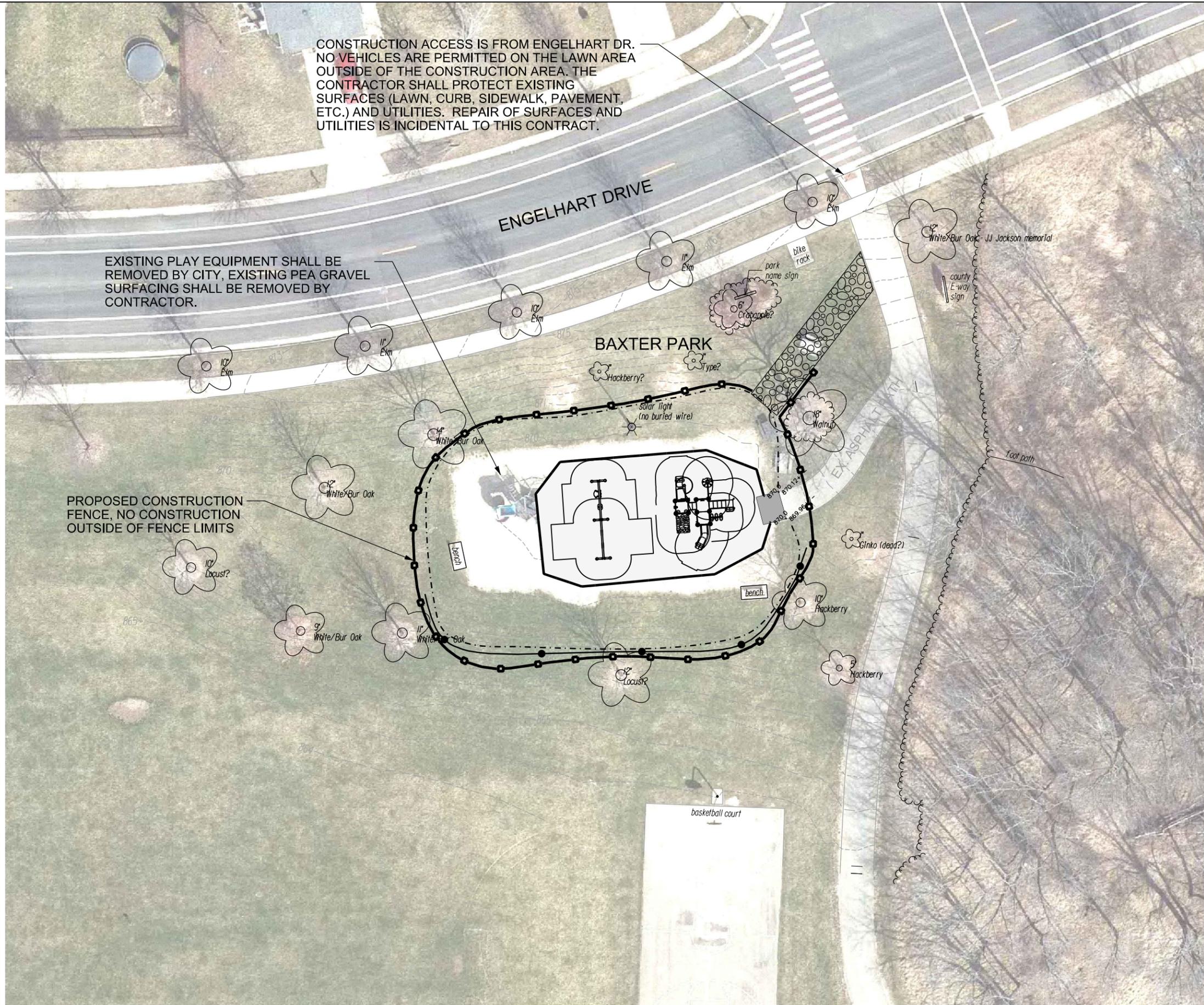
ITEM DATE  
 Advertised by: MR 03-17-2016

PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**DESIGN  
 COMPUTATIONS**

SHEET NUMBER:  
**1.5**

<b>Sunset Park Playground - Earthwork Quantities</b>			
City of Madison, WI Public Works Contract			
Date Revised:		3/14/2017	
Derived from more detailed spreadsheet available from Parks Div			
<b>Computation Summary</b>			
Positive volumes are cuts (material available), negative volumes are fills (material needed)			
Row Labels	Sum of Unfac-tored volume (cu yd)		
Asphalt Place	-1.6		
Border Timbers Place (placeholder volume)	-2.3		
Gravel (for Pavement) Place	-4.8		
Play Surface Excavate	144.1		
Play Surface Place	-88.6		
Subsoil Excavate	56.2		
Subsoil Place	-51.8		
Topsoil Excavate	63.0		
Topsoil Place	-67.1		
Asphalt Excavate	3.8		
<b>Grand Total</b>	<b>50.9</b>		
<b>Reorganized into bid table items</b>			
		<b>Units</b>	
Bid Item	Quantity	CY	Relation to Table Above
20101 Excavation Cut	207	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel	144	CY	= Play Surface Excavate
20201 Fill	4	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	401	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	9.7	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	3.5	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	97	CY	= Play Surface Place*1.10



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Madison, WI 53703

*play*  
**MADISON  
PARKS**

Graphical Scale



PROJECT:  
**2017 PARK  
PLAYGROUND  
IMPROVEMENTS  
- GROUP 1**

**BAXTER PARK  
777 ENGLEHART DR.  
MADISON, WI 53713**

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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

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

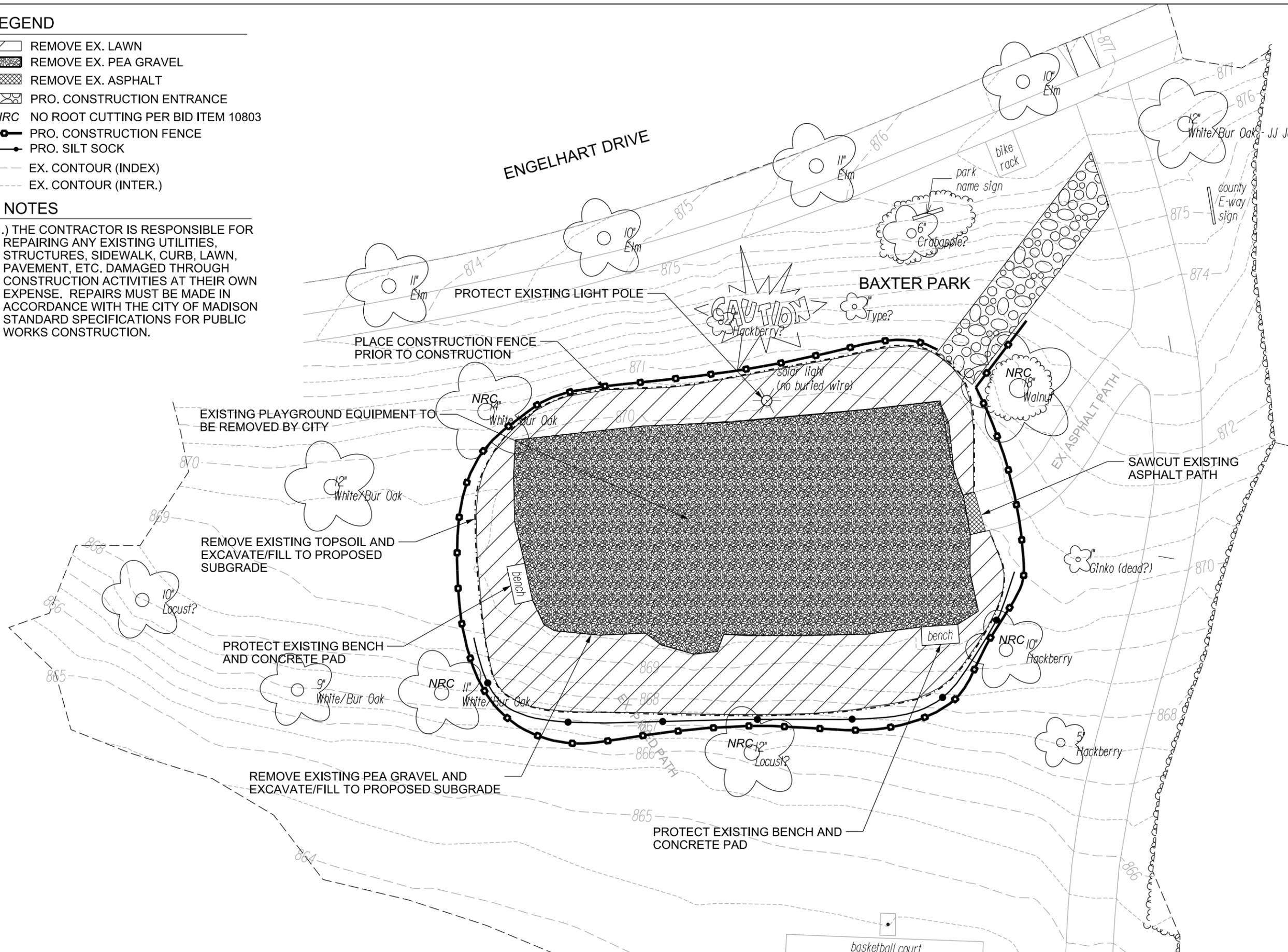
SHEET NUMBER:  
**2.1**

**LEGEND**

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  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**  
**PARKS**

Graphical Scale



PROJECT:  
**2017 PARK**  
**PLAYGROUND**  
**IMPROVEMENTS**  
**- GROUP 1**

**BAXTER PARK**  
 777 ENGLEHART DR.  
 MADISON, WI 53713

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Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

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

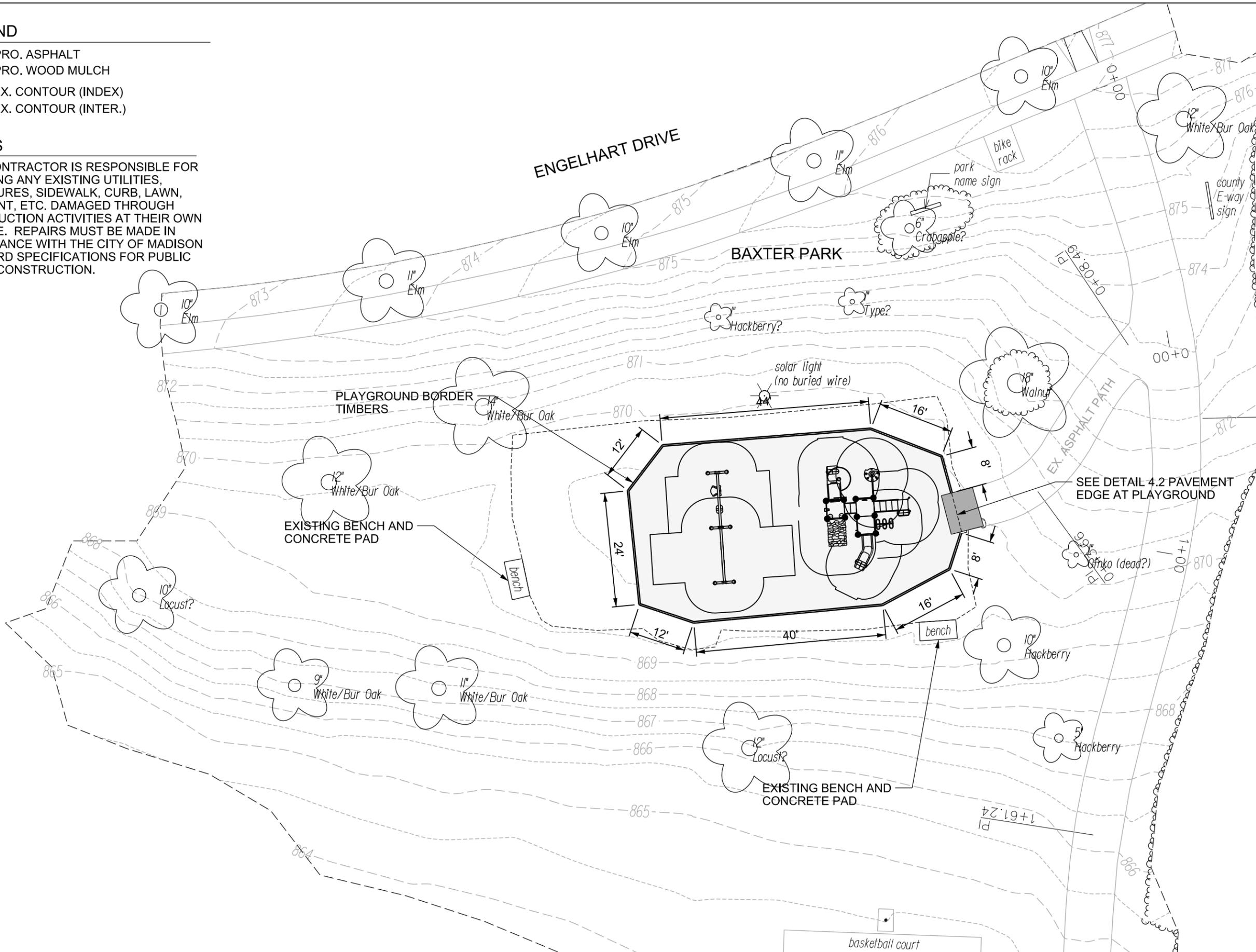
SHEET NUMBER:  
**2.2**

**LEGEND**

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

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*play*  
**MADISON PARKS**



PROJECT:  
**2017 PARK PLAYGROUND IMPROVEMENTS - GROUP 1**

**BAXTER PARK**  
 777 ENGLEHART DR.  
 MADISON, WI 53713

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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**2.3**

**LEGEND**

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

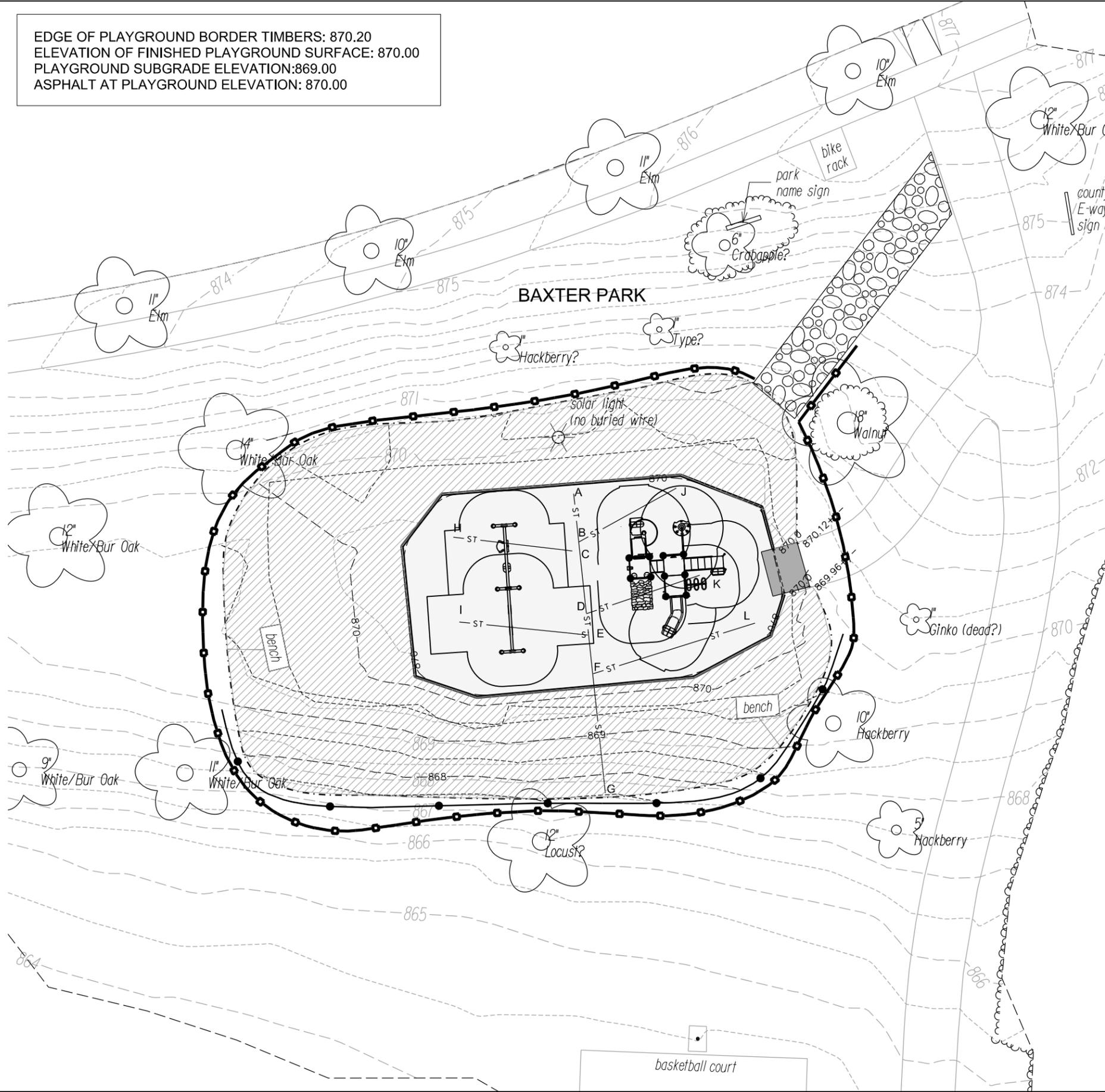
EDGE OF PLAYGROUND BORDER TIMBERS: 870.20  
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 870.00  
 PLAYGROUND SUBGRADE ELEVATION: 869.00  
 ASPHALT AT PLAYGROUND ELEVATION: 870.00

**NOTES**

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 4.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

Baxter Playground		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 870.20 (INCHES)
A	868.42	21.4
B	868.27	23.2
C	868.24	23.5
D	868.05	25.8
E	867.99	26.5
F	867.87	28.0
G	867.50	32.4
H	868.42	21.4
I	868.42	21.4
J	868.42	21.4
K	868.42	21.4
L	868.42	21.4

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	8.89	-1.69	Underdrain
B	C	1.81	-1.66	Underdrain
C	D	11.41	-1.67	Underdrain
D	E	3.95	-1.52	Underdrain
E	F	7.13	-1.68	Underdrain
F	G	22.00	-1.68	Underdrain
H	C	23.41	-0.77	Underdrain
I	E	23.89	-1.80	Underdrain
J	B	20.46	-0.73	Underdrain
K	D	22.98	-1.61	Underdrain
L	F	31.15	-1.77	Underdrain



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**MADISON**  
**PARKS**



PROJECT:  
**2017 PARK**  
**PLAYGROUND**  
**IMPROVEMENTS**  
**- GROUP 1**

**BAXTER PARK**  
**777 ENGLEHART DR.**  
**MADISON, WI 53713**

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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

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

SHEET NUMBER:  
**2.4**



PROJECT:  
*2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 1*

*BAXTER PARK  
 777 ENGLEHART DR.  
 MADISON, WI 53713*

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ITEM DATE  
 Advertised by: MR 03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**DESIGN  
 COMPUTATIONS**

SHEET NUMBER:  
**2.5**

### Baxter Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 3/14/2017

Derived from more detailed spreadsheet available from Parks Div

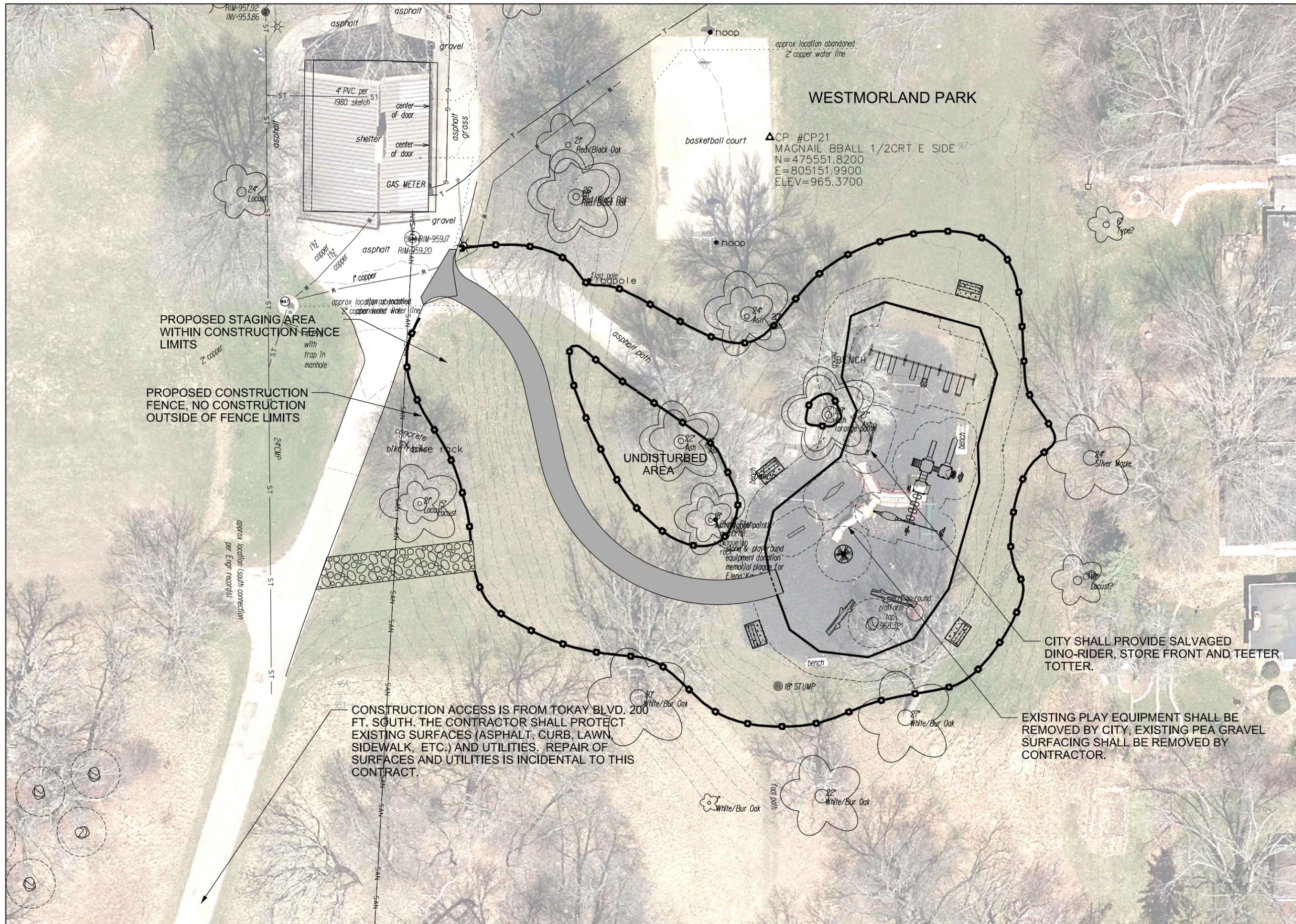
#### Computation Summary

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

Row Labels	Sum of Unfac-tored volume (cu yd)
Asphalt Place	-0.3
Border Timbers Place (placeholder volume)	-2.1
Gravel (for Pavement) Place	-0.9
Play Surface Excavate	221.3
Play Surface Place	-85.2
Subsoil Excavate	9.3
Subsoil Place	-165.6
Topsoil Excavate	56.2
Topsoil Place	-90.4
Asphalt Excavate	0.0
<b>Grand Total</b>	<b>-57.7</b>

#### Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	278	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Pea Gravel	221	CY	= Play Surface Excavate
20201 Fill	156	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	541	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	1.9	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	1.1	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	94	CY	= Play Surface Place*1.10



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**MADISON  
 PARKS**



PROJECT:  
**2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 1**

**WESTMORLAND PARK  
 4114 TOKAY BLVD  
 MADISON, WI 53711**

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ITEM	DATE
Advised by: MS	03-17-2017

PUBLIC WORKS PROJECT #:  
**7925**

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

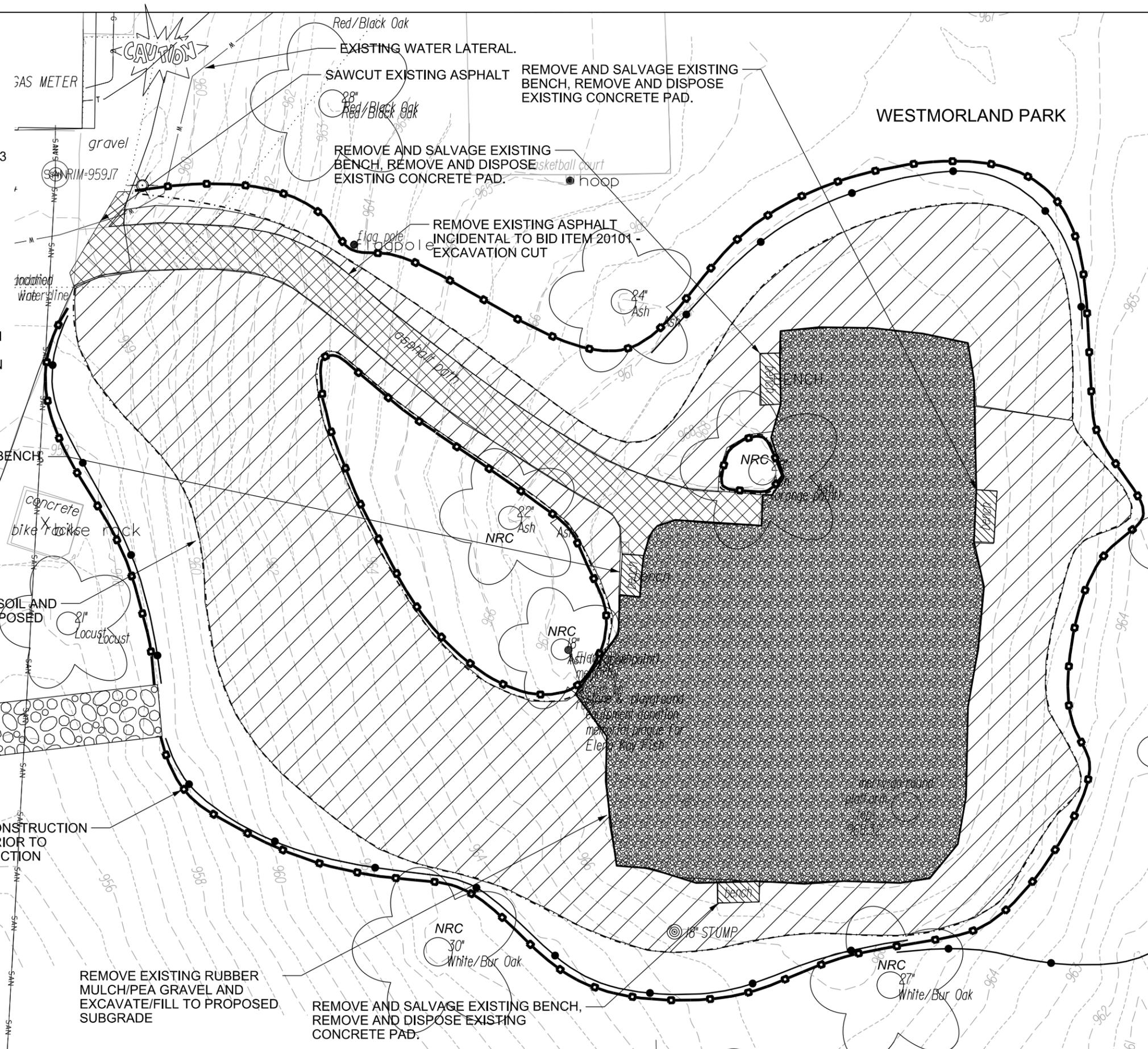
SHEET NUMBER:  
**3.1**

**LEGEND**

-  REMOVE EX. LAWN
-  REMOVE EX. RUBBER MULCH
-  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**

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

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

Graphical Scale

0 20 ft



PROJECT:  
**2017 PARK  
PLAYGROUND  
IMPROVEMENTS  
- GROUP 1**

**WESTMORLAND PARK  
4114 TOKAY BLVD.  
MADISON, WI 53711**

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ITEM	DATE
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**7925**

SHEET TITLE:  
**DEMOLITION AND  
PROTECTION PLAN**

SHEET NUMBER:  
**3.2**







Westmorland Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 967.70 (INCHES)
A1	965.93	21.2
B1	965.68	24.2
C1	965.55	25.8
D1	965.22	29.8
E1	965.09	31.3
F1	964.50	38.4
G1	965.92	21.4
H1	965.92	21.4
I1	965.92	21.4
J1	965.92	21.4

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A1	B1	10.36	-2.41	Underdrain
B1	C1	5.72	-2.27	Underdrain
C1	D1	14.18	-2.33	Underdrain
D1	E1	5.82	-2.23	Underdrain
E1	F1	25.34	-2.33	Underdrain
G1	C1	21.79	-1.70	Underdrain
H1	E1	28.58	-2.90	Underdrain
I1	B1	24.37	-0.98	Underdrain
J1	D1	24.37	-2.87	Underdrain

Westmorland Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 967.70 (INCHES)
A2	965.93	21.2
B2	965.61	25.1
C2	965.48	26.6
D2	965.19	30.1
E2	965.06	31.7
F2	964.50	38.4
G2	965.92	21.4
H2	965.92	21.4
I2	965.92	21.4
J2	965.92	21.4

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A2	B2	16.75	-1.91	Underdrain
B2	C2	7.18	-1.81	Underdrain
C2	D2	15.70	-1.85	Underdrain
D2	E2	7.35	-1.77	Underdrain
E2	F2	30.54	-1.83	Underdrain
G2	B2	15.94	-1.94	Underdrain
H2	D2	33.79	-2.16	Underdrain
I2	C2	22.05	-2.00	Underdrain
J2	E2	28.38	-3.03	Underdrain

PROJECT:  
**2017 PARK  
PLAYGROUND  
IMPROVEMENTS  
- GROUP 1**

**WESTMORLAND PARK  
4114 TODAY BLVD.  
MADISON, WI 53711**

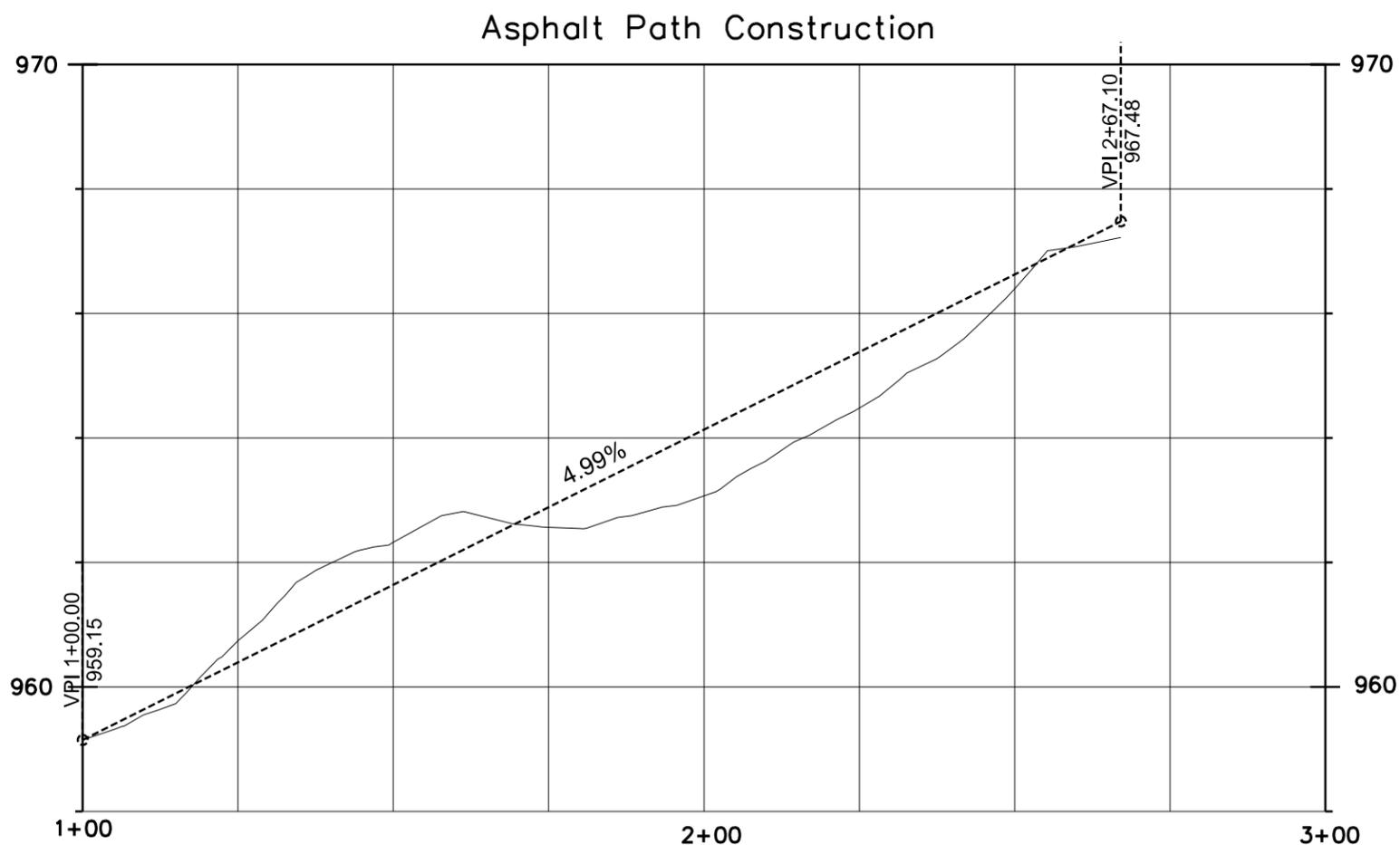
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ITEM	DATE
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PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**DRAIN TILE SCHEDULES  
AND PATH VERTICAL  
ALIGNMENT**

SHEET NUMBER:  
**3.5**





PROJECT:  
*2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS  
 - GROUP 1*

*WESTMORLAND PARK  
 4114 TODAY BLVD.  
 MADISON, WI 53711*

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ITEM DATE  
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PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**DESIGN  
 COMPUTATIONS**

SHEET NUMBER:  
**3.6**

<b>Westmorland Park Playground - Earthwork Quantities</b>			
City of Madison, WI Public Works Contract			
Date Revised:		3/15/2017	
Derived from more detailed spreadsheet available from Parks Div			
<b>Computation Summary</b>			
Positive volumes are cuts (material available), negative volumes are fills (material needed)			
Row Labels	Sum of Unfac-tored volume (cu yd)		
Asphalt Place	-13.1		
Border Timbers Place (placeholder volume)	-3.4		
Gravel (for Pavement) Place	-39.4		
Play Surface Excavate	317.4		
Play Surface Place	-202.0		
Subsoil Excavate	52.8		
Subsoil Place	-214.8		
Topsoil Excavate	199.5		
Topsoil Place	-202.7		
Asphalt Excavate	40.3		
<b>Grand Total</b>	<b>-65.5</b>		
<b>Reorganized into bid table items</b>			
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	517	CY	=Subsoil Excavate + Topsoil Excavate
20104 - Excavation Cut - Rubber Mulch	317	CY	= Play Surface Excavate
20201 Fill	162	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	1214	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	78.7	TONS	= (Gravel Place) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	28.3	TONS	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	222	CY	= Play Surface Place*1.10

PROJECT:  
**2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS-  
 GROUP 1**

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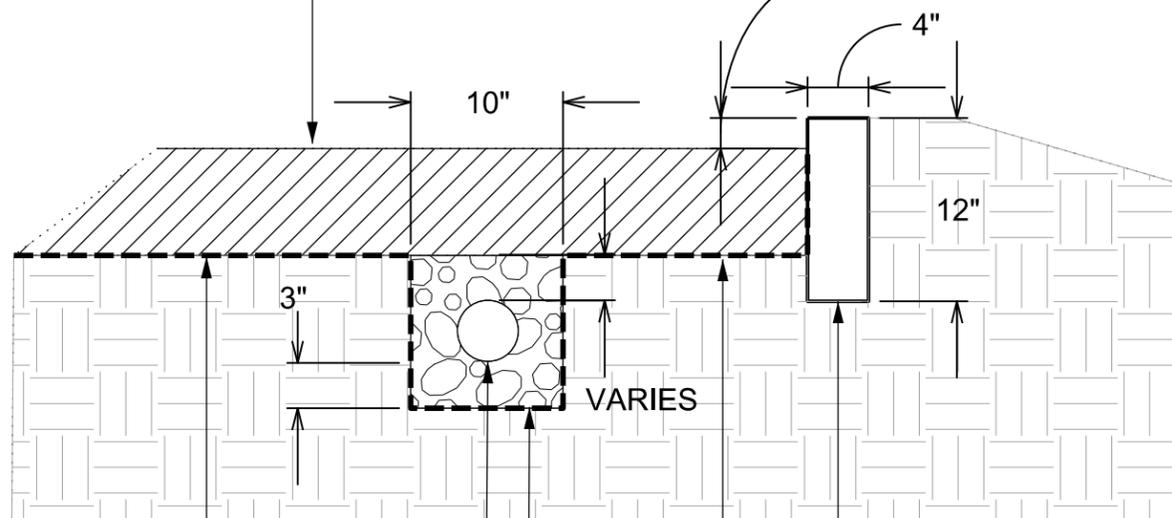
PUBLIC WORKS PROJECT #:  
**7925**

SHEET TITLE:  
**TYPICAL PLAYGROUND  
 SURFACING WITH  
 UNDERDRAIN**

SHEET NUMBER:  
**4.1**

PLAYGROUND SURFACING

2" LIP BETWEEN PLAYGROUND BORDER TIMBERS AND FINAL PLAYGROUND SURFACING GRADE



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

4 INCH PERFORATED PVC DRAIN PIPE WITH 'SOCK'  
 PITCHED MINIMUM OF 0.5% SLOPE

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

PLAYGROUND SUBGRADE  
 - MIN. 12" FROM PLAYGROUND SURFACE FINISHED  
 GRADE FOR WOOD MULCH.  
 - MIN. 7" FROM PLAYGROUND SURFACE FINISHED  
 GRADE FOR SHREDDED RUBBER MULCH

PROPOSED PLAYGROUND BORDER  
 TIMBERS PER MANUFACTURER'S  
 INSTALLATION SPECIFICATIONS

PROJECT:  
**2017 PARK  
 PLAYGROUND  
 IMPROVEMENTS-  
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PUBLIC WORKS PROJECT #:  
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SHEET TITLE:  
**PAVEMENT EDGE  
 AT PLAYGROUND**

SHEET NUMBER:  
**4.2**

