

SHEET SCHEDULE

- 1.1 FLAD PARK - PROJECT LOCATION AND SITE ACCESS
- 1.2 FLAD PARK - DEMOLITION AND PROTECTION PLAN
- 1.3 FLAD PARK - SITE PLAN
- 1.4 FLAD PARK - GRADING AND EROSION CONTROL PLAN
- 1.5 FLAD PARK - DESIGN CALCULATIONS

- 2.1 WALTHAM PARK - PROJECT LOCATION AND SITE ACCESS
- 2.2 WALTHAM PARK - DEMOLITION AND PROTECTION PLAN
- 2.3 WALTHAM PARK - SITE PLAN
- 2.4 WALTHAM PARK - GRADING AND EROSION CONTROL PLAN
- 2.5 WALTHAM PARK - DESIGN CALCULATIONS

- 3.1 STEVENS STREET PARK - PROJECT LOCATION AND SITE ACCESS
- 3.2 STEVENS STREET PARK - DEMOLITION AND PROTECTION PLAN - WEST
- 3.3 STEVENS STREET PARK - DEMOLITION AND PROTECTION PLAN - EAST
- 3.4 STEVENS STREET PARK - SITE PLAN - WEST
- 3.5 STEVENS STREET PARK - SITE PLAN - EAST
- 3.6 STEVENS STREET PARK - GRADING AND EROSION CONTROL PLAN - WEST
- 3.7 STEVENS STREET PARK - GRADING ENLARGEMENT
- 3.8 STEVENS STREET PARK - GRADING AND EROSION CONTROL PLAN -EAST
- 3.9 STEVENS STREET PARK - DESIGN CALCULATIONS

SHEET SCHEDULE (CONTINUED)

- 4.1 WALTHAM PARK - PROJECT LOCATION AND SITE ACCESS
- 4.2 WALTHAM PARK - DEMOLITION AND PROTECTION PLAN
- 4.3 WALTHAM PARK - SITE PLAN
- 4.4 WALTHAM PARK- GRADING AND EROSION CONTROL PLAN
- 4.5 WALTHAM PARK - DESIGN CALCULATIONS

- 5.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 5.2 ASPHALT EDGE AT PLAYGROUND
- 5.3 CONCRETE EDGE AT PLAYGROUND
- 5.4 MODULAR BLOCK RETAINING WALL
- 5.5 BASKETBALL HOOP
- 5.6 DECORATIVE FENCING

City of Madison
 Department of Public Works
PARKS DIVISION

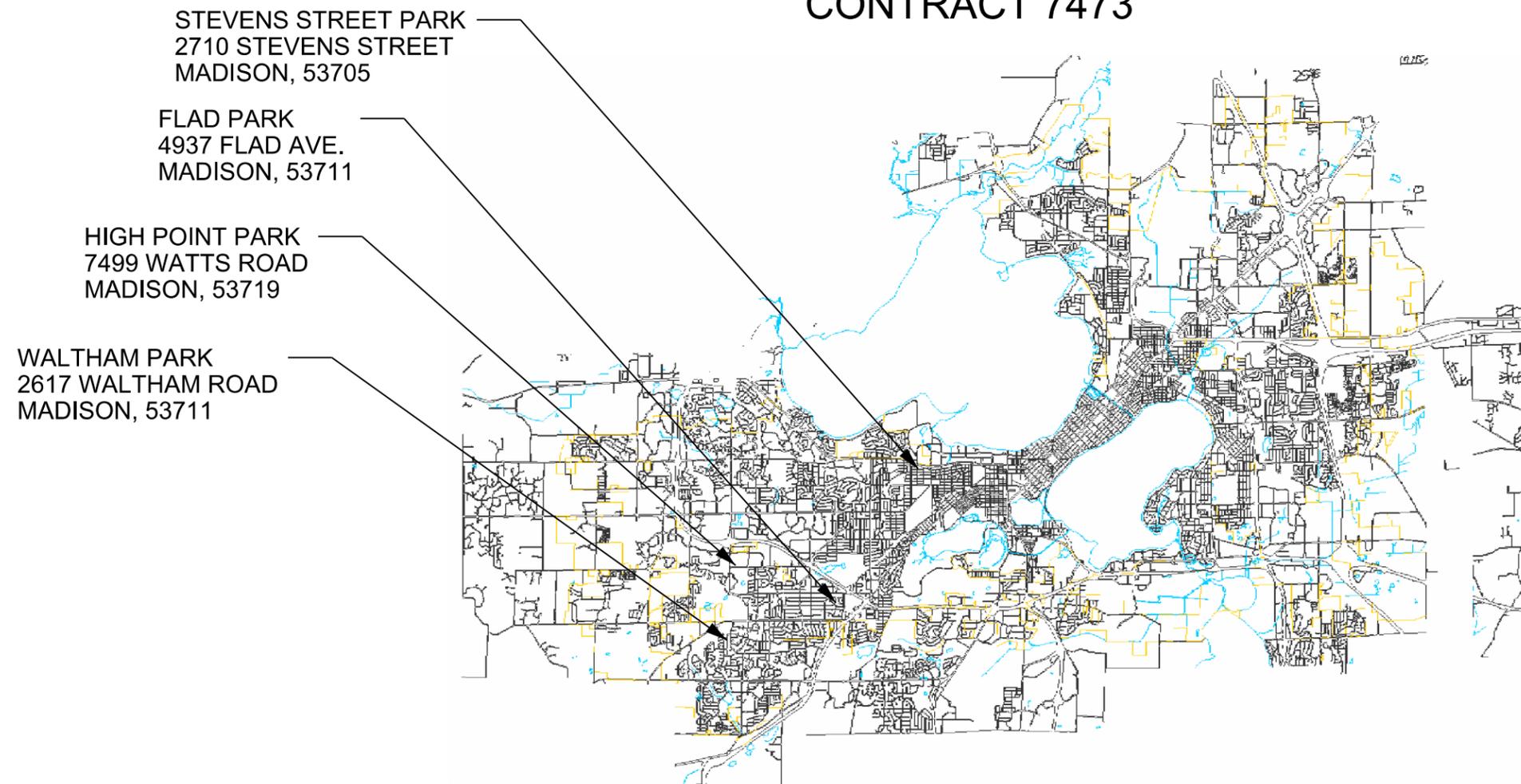
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 PO Box 2987
 Madison, WI 53701-2987



PROJECT:

*2015 PARK
 PLAYGROUNDS-
 GROUP 1*

2015 PARK PLAYGROUNDS - GROUP 1 CONTRACT 7473



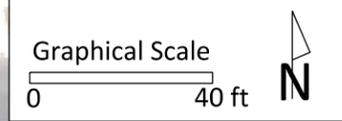
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: MS	01/21/15

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:

SHEET NUMBER:



PROJECT:
**2015 PARK
 PLAYGROUNDS
 -GROUP 1**

**FLAD PARK
 4937 FLAD AVE.
 MADISON, WI**

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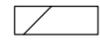
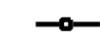
PUBLIC WORKS PROJECT #:
7473

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

SHEET NUMBER:
1.1

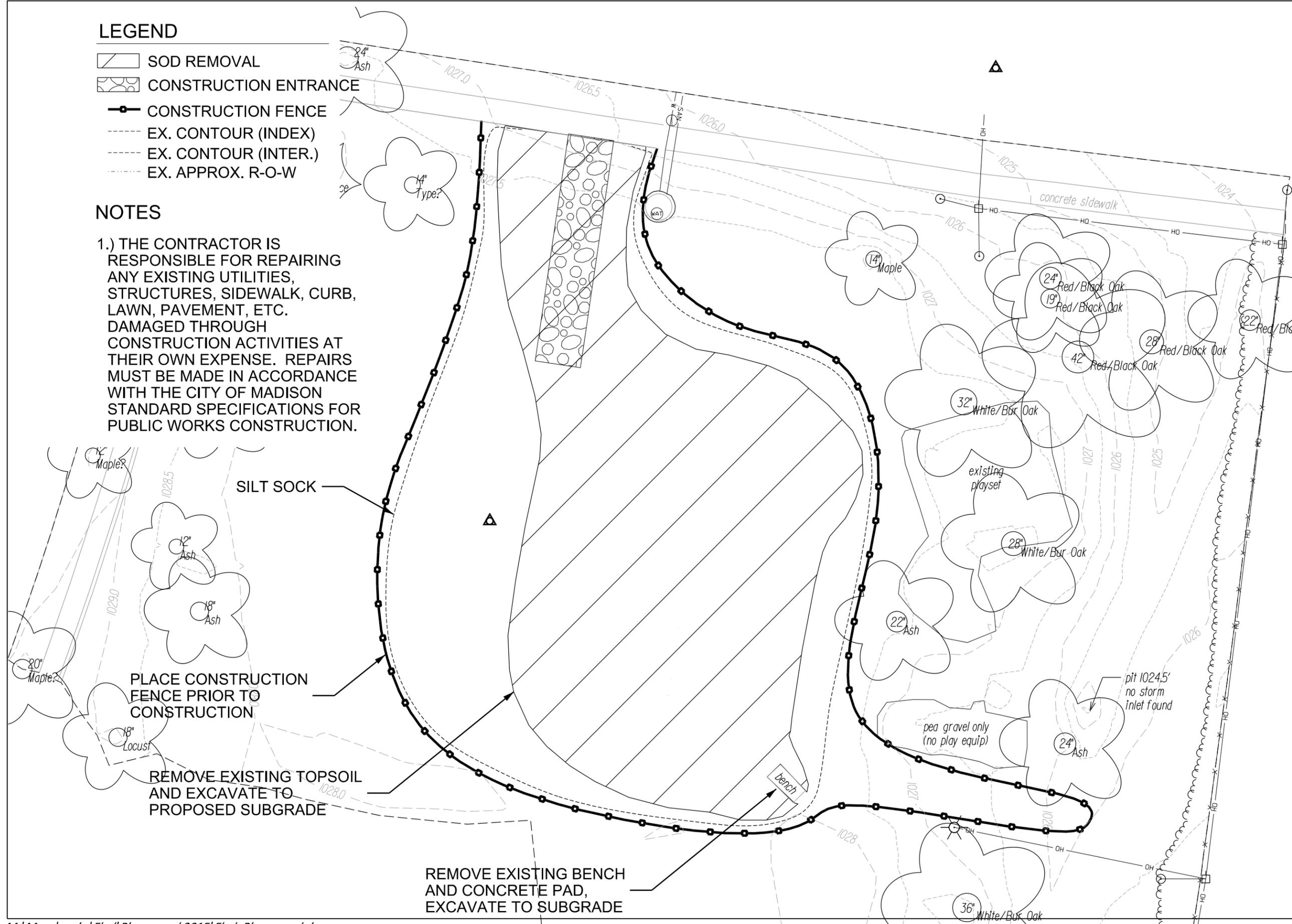


LEGEND

-  SOD REMOVAL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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.



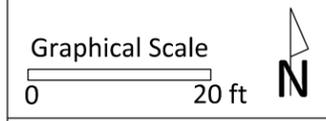
SILT SOCK

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE EXISTING TOPSOIL AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING BENCH AND CONCRETE PAD, EXCAVATE TO SUBGRADE

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PROJECT:
2015 PARK PLAYGROUNDS -GROUP 1

FLAD PARK
 4937 FLAD AVE.
 MADISON, WI

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PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

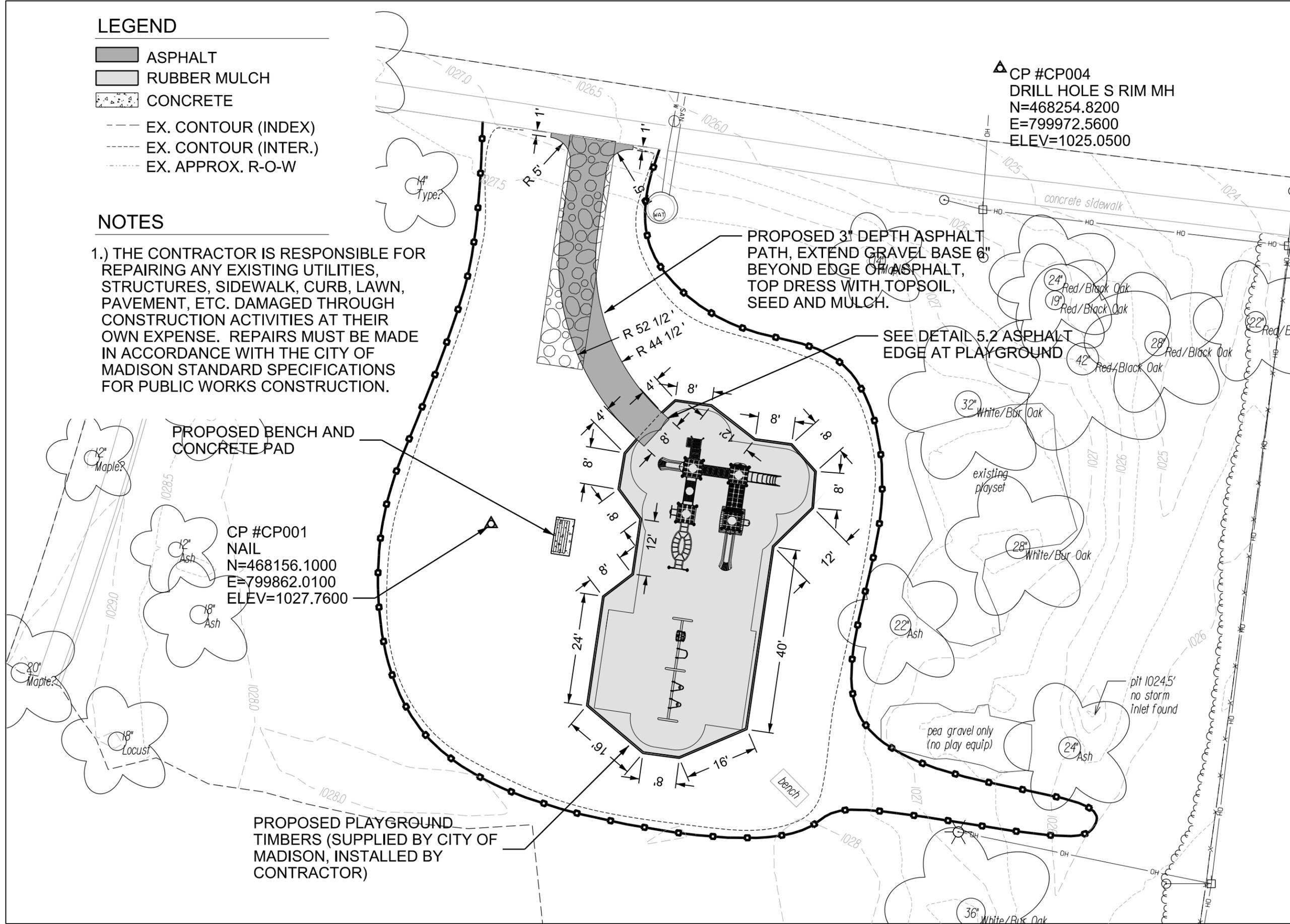
SHEET NUMBER:
1.2

LEGEND

-  ASPHALT
-  RUBBER MULCH
-  CONCRETE
- EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

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.



△ CP #CP004
 DRILL HOLE S RIM MH
 N=468254.8200
 E=799972.5600
 ELEV=1025.0500

PROPOSED BENCH AND
 CONCRETE PAD

CP #CP001
 NAIL
 N=468156.1000
 E=799862.0100
 ELEV=1027.7600

PROPOSED PLAYGROUND
 TIMBERS (SUPPLIED BY CITY OF
 MADISON, INSTALLED BY
 CONTRACTOR)

PROPOSED 3" DEPTH ASPHALT
 PATH, EXTEND GRAVEL BASE 6"
 BEYOND EDGE OF ASPHALT,
 TOP DRESS WITH TOPSOIL,
 SEED AND MULCH.

SEE DETAIL 5.2 ASPHALT
 EDGE AT PLAYGROUND

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Graphical Scale
 0 20 ft N

PROJECT:
 2015 PARK
 PLAYGROUNDS
 -GROUP 1

FLAD PARK
 4937 FLAD AVE.
 MADISON, WI

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PUBLIC WORKS PROJECT #:
 7473

SHEET TITLE:
 SITE PLAN

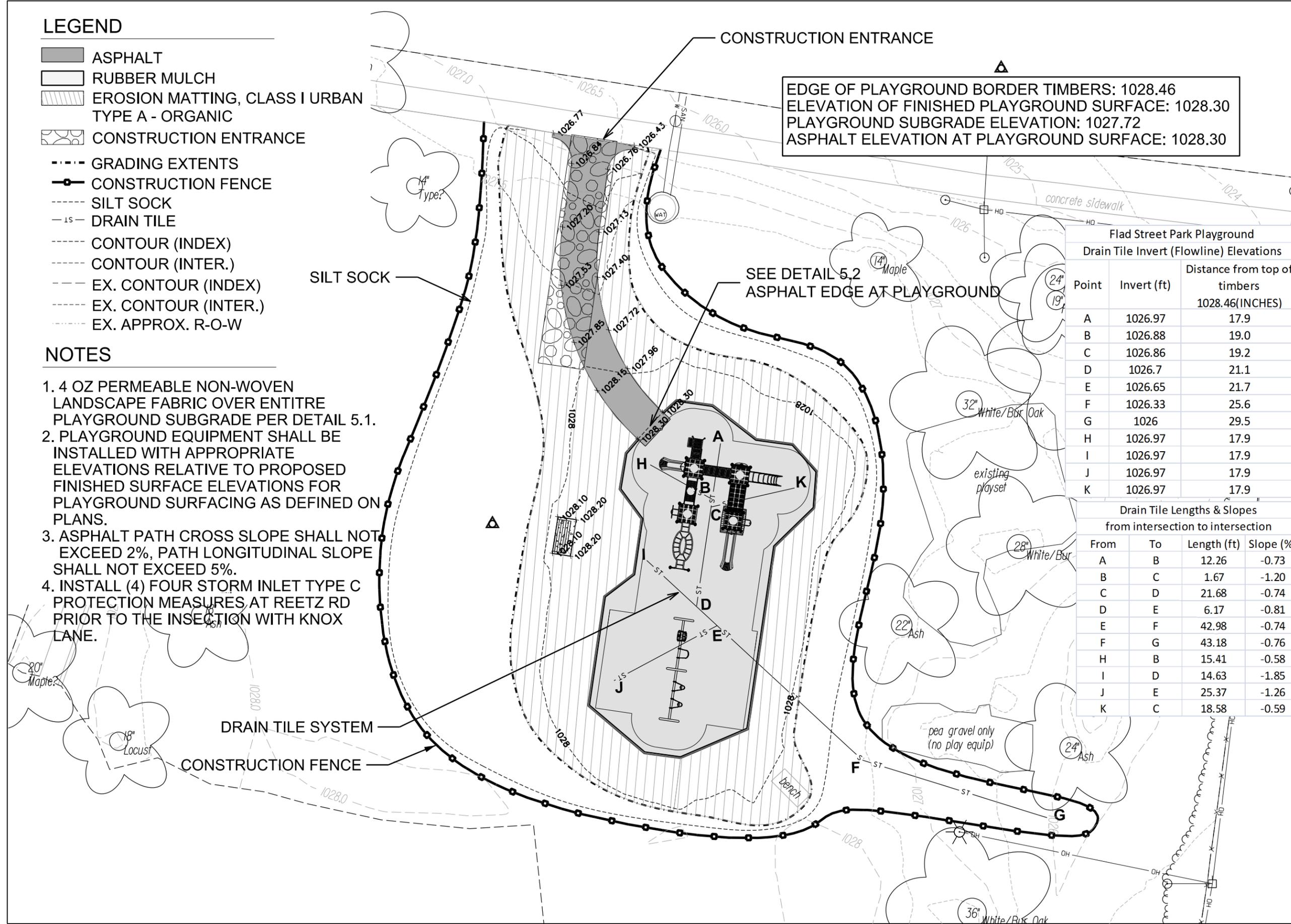
SHEET NUMBER:
1.3

LEGEND

-  ASPHALT
-  RUBBER MULCH
-  EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
-  CONSTRUCTION ENTRANCE
-  GRADING EXTENTS
-  CONSTRUCTION FENCE
-  SILT SOCK
-  DRAIN TILE
-  CONTOUR (INDEX)
-  CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

NOTES

1. 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.
3. ASPHALT PATH CROSS SLOPE SHALL NOT EXCEED 2%, PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
4. INSTALL (4) FOUR STORM INLET TYPE C PROTECTION MEASURES AT REETZ RD PRIOR TO THE INSECTION WITH KNOX LANE.



EDGE OF PLAYGROUND BORDER TIMBERS: 1028.46
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 1028.30
 PLAYGROUND SUBGRADE ELEVATION: 1027.72
 ASPHALT ELEVATION AT PLAYGROUND SURFACE: 1028.30

Flad Street Park Playground
Drain Tile Invert (Flowline) Elevations

Point	Invert (ft)	Distance from top of timbers 1028.46(INCHES)
A	1026.97	17.9
B	1026.88	19.0
C	1026.86	19.2
D	1026.7	21.1
E	1026.65	21.7
F	1026.33	25.6
G	1026	29.5
H	1026.97	17.9
I	1026.97	17.9
J	1026.97	17.9
K	1026.97	17.9

Drain Tile Lengths & Slopes
from intersection to intersection

From	To	Length (ft)	Slope (%)
A	B	12.26	-0.73
B	C	1.67	-1.20
C	D	21.68	-0.74
D	E	6.17	-0.81
E	F	42.98	-0.74
F	G	43.18	-0.76
H	B	15.41	-0.58
I	D	14.63	-1.85
J	E	25.37	-1.26
K	C	18.58	-0.59

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Graphical Scale
 0 20 ft 

PROJECT:
2015 PARK PLAYGROUNDS -GROUP 1

FLAD PARK
 4937 FLAD AVE.
 MADISON, WI

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PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
1.4

Flad Park Playground - Earthwork Quantities											
City of Madison, WI Public Works Contract											
Date Revised: 1/16/2015											
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 Flad_Survey2014-11-14_Comb.dtm											
Proposed Prop1.dtm											
Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Bench to Grass	Concrete Excavate	Remove existing bench pad concrete	n/a	n/a	31	0.42	13	0.5	0%	0.5
1.2	Bench to Grass	Gravel Excavate	Remove existing bench pad gravel base	n/a	n/a	31	0.50	16	0.6	0%	0.6
1.3	Bench to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-6in	31	varies	-11	-0.4	0%	-0.4
1.4	Bench to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	31	-0.50	-16	-0.6	0%	-0.6
2.1	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	649	0.50	325	12.0	0%	12.0
2.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	649	varies	413	15.3	0%	15.3
2.3	Grass to Asphalt	Gravel Place	Place 9in deep gravel base, out 6in from asphalt edge	n/a	n/a	649	-0.75	-487	-18.0	0%	-18.0
2.4	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	572	-0.25	-143	-5.3	0%	-5.3
2.5	Grass to Asphalt	Topsoil Place	Place 3in topsoil on 6in wide gravel edge	n/a	n/a	77	-0.25	-19	-0.7	0%	-0.7
3.1	Grass to Bench	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	45	0.50	23	0.8	0%	0.8
3.2	Grass to Bench	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	45	varies	-2	-0.1	0%	-0.1
3.3	Grass to Bench	Gravel Place	Place 6in deep gravel base, out 6in from concrete bench pad edge	n/a	n/a	45	-0.50	-23	-0.8	0%	-0.8
3.4	Grass to Bench	Concrete Place	Place 5in thick concrete bench pad	n/a	n/a	32	-0.42	-13	-0.5	0%	-0.5
3.5	Grass to Bench	Topsoil Place	Place 5in topsoil on 6in wide gravel edge	n/a	n/a	13	-0.42	-5	-0.2	0%	-0.2
4.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	4397	0.50	2199	81.4	0%	81.4
4.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	4397	varies	162	6.0	0%	6.0
4.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	4397	varies	-1148	-42.5	0%	-42.5
4.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	4397	-0.50	-2199	-81.4	0%	-81.4
5.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2379	0.50	1190	44.1	0%	44.1
5.2	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-7in	2379	varies	-1057	-39.1	0%	-39.1
5.3	Grass to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	2379	-0.58	-1388	-51.4	29%	-66.1
6.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	67	0.50	34	1.2	0%	1.2
6.2	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	67	varies	-6	-0.2	0%	-0.2
6.3	Grass to Timbers	Border Timbers Place (placeholder volume)	Place 12in deep border timbers (placeholder volume to balance volume comps)	n/a	n/a	67	-1.00	-67	-2.5	0%	-2.5
7.1	Adjust	Subsoil Excavate	Drain tile - approx 200 ft x 1ft wide x average 1.5 ft deep	n/a	n/a	200	1.50	300	11.1	0%	11.1
7.2	Adjust	Drain Tile Stone Place	Drain tile stone - approx 126 ft x 1ft wide x average 1.5 ft deep (approx - includes volume of pipe itself)	n/a	n/a	126	-1.50	-189	-7.0	0%	-7.0
7.3	Adjust	Subsoil Place	Drain Tile subsoil replacement outside playground - approx 74 ft x 1ft wide x average 1.5 ft deep (approx - includes volume of pipe itself)	n/a	n/a	74	-1.50	-111	-4.1	0%	-4.1
8.1	Adjust	Subsoil Place	Reduce subsoil place by 1/2 of asphalt ramp gravel base volume = 1/2 x (2 ft x 9 ft x 7 in)	n/a	n/a	18	0.29	5	0.2	0%	0.2
8.2	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	18	-0.29	-5	-0.2	0%	-0.2

Flad Park Playground - Earthwork Quantities			
Date Revised: 1/16/2015			
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 Factored (Uncom-pacted) Volume (cu yd)	Check / Notes	
Asphalt Place	-5.3	Asphalt 572 sq ft x 3in = 5.3 cu yd x 2.16 ton/cu yd = 11.4 ton	
Border Timbers Place (placeholder volume)	-2.5		
Concrete Excavate	0.5		
Concrete Place	-0.5		
Gravel Excavate	0.6		
Gravel Place	-18.9		
Play Surface Place	-66.3	Play surface 2386 sq ft (excl asph ramp) x 9in uncompacted rubber chips = 66 cu yd	
Subsoil Excavate	32.4		
Subsoil Place	-86.3		
Topsoil Excavate	139.6		
Topsoil Place	-82.9		
Drain Tile Stone Place	-7.0		
Grand Total	-96.6		
Net subsoil	-54	cu yd	
Net topsoil	57	cu yd	
Net topsoil & subsoil	3	cu yd	
Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	172	CY	= Subsoil Excavate + Topsoil Excavate
20103 - Excavation Cut - Pea Gravel	0	CY	= Pea Gravel Excavate
20201 Fill	-54	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	-496	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	-37.7	TONS	= Gravel Place * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	-11.4	TONS	= Asphalt Place * 2.16 ton/cubic yard
90004 - Playground Surfacing - Rubber Mulch	-73	CY	= Play Surface Place*1.10

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MADISON PARKS

PROJECT:
2015 PARK PLAYGROUNDS -GROUP 1

FLAD PARK
4937 FLAD AVE.
MADISON, WI

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PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
DESIGN CALCULATIONS

SHEET NUMBER:
1.5



PROPOSED STAGING AREA WITHIN CONSTRUCTION LIMITS

EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED BY CITY. PLAYGROUND SURFACING TO BE REMOVED BY CONTRACTOR.

PROPOSED CONSTRUCTION FENCE NO WORK ALLOWED OUTSIDE OF CONSTRUCTION FENCE LIMITS

▲CP #CP01
MAGNAIL PATH
N=473587.2500
E=786633.3300
ELEV=1141.0200

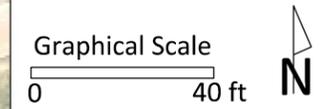
▲CP #CP02
MAGNAIL PATH
N=473526.0200
E=786745.4300
ELEV=1136.9500

CONSTRUCTION ACCESS FROM KOTTKE DRIVE, APPROX. 1000 FT FROM THE PROJECT SITE. PROTECT CURB, REPAIR AND REPLACEMENT OF CURB AND SIDEWALK IS INCIDENTAL TO THIS CONTRACT. CONSTRUCTION ACCESS MUST BE AT LEAST 10' FROM THE TRUNK OF ANY STREET TREE.

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PROJECT:
2015 PARK PLAYGROUNDS -GROUP 1

*HIGH POINT PARK
7499 WATTS RD.
MADISON, WI*

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7473

SHEET TITLE:
PROJECT LOCATION AND SITE ACCESS

SHEET NUMBER:
2.1

LEGEND

-  SOD REMOVAL
-  PEA GRAVEL REMOVAL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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

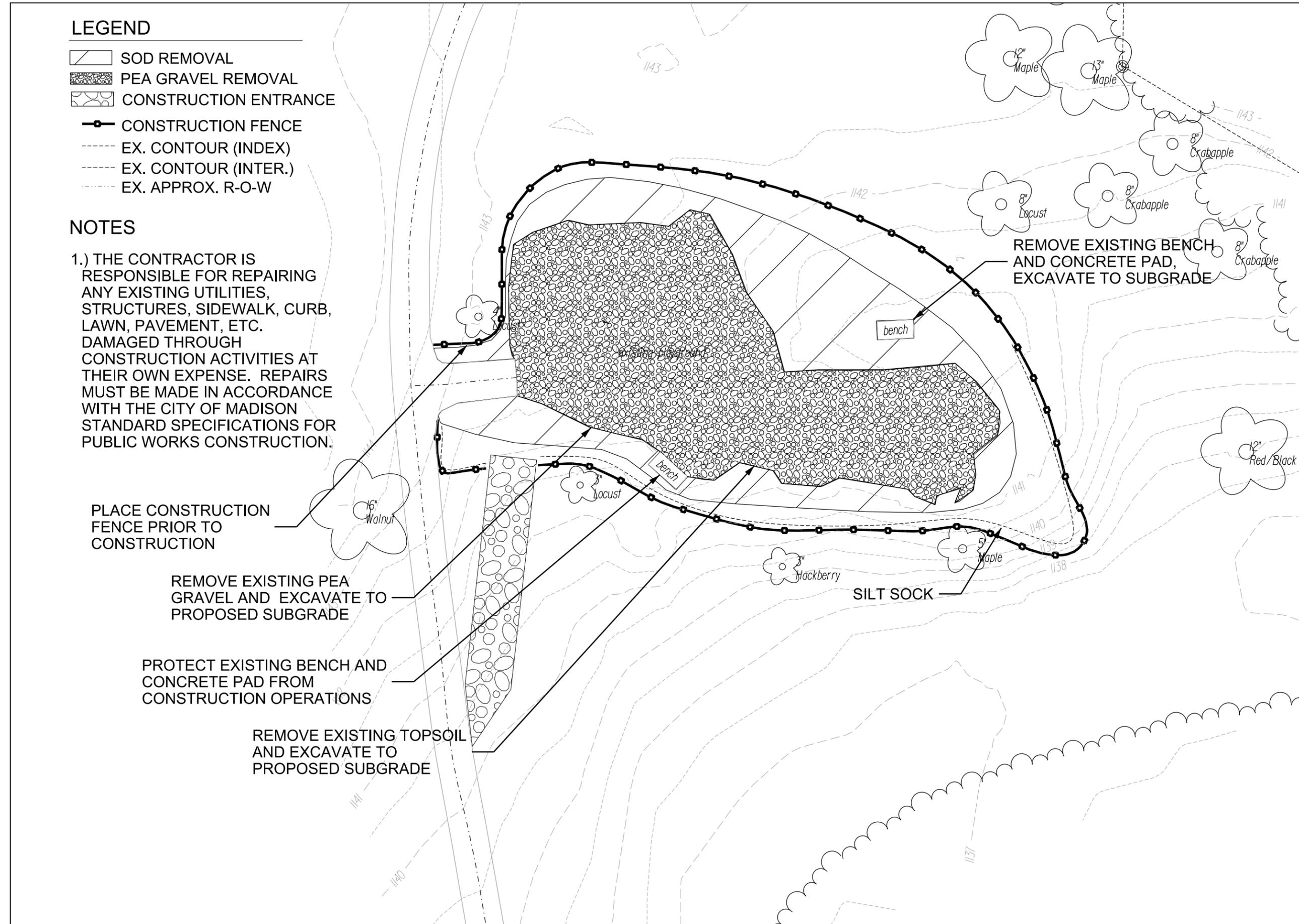
REMOVE EXISTING PEA GRAVEL AND EXCAVATE TO PROPOSED SUBGRADE

PROTECT EXISTING BENCH AND CONCRETE PAD FROM CONSTRUCTION OPERATIONS

REMOVE EXISTING TOPSOIL AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING BENCH AND CONCRETE PAD, EXCAVATE TO SUBGRADE

SILT SOCK



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HIGH POINT PARK
 7499 WATTS RD.
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SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
2.2

LEGEND

-  ASPHALT
-  RUBBER MULCH
-  EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
-  CONCRETE
-  CONSTRUCTION ENTRANCE
-  GRADING EXTENTS
-  CONSTRUCTION FENCE
-  SILT SOCK
-  DRAIN TILE
-  CONTOUR (INDEX)
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-  EX. CONTOUR (INTER.)
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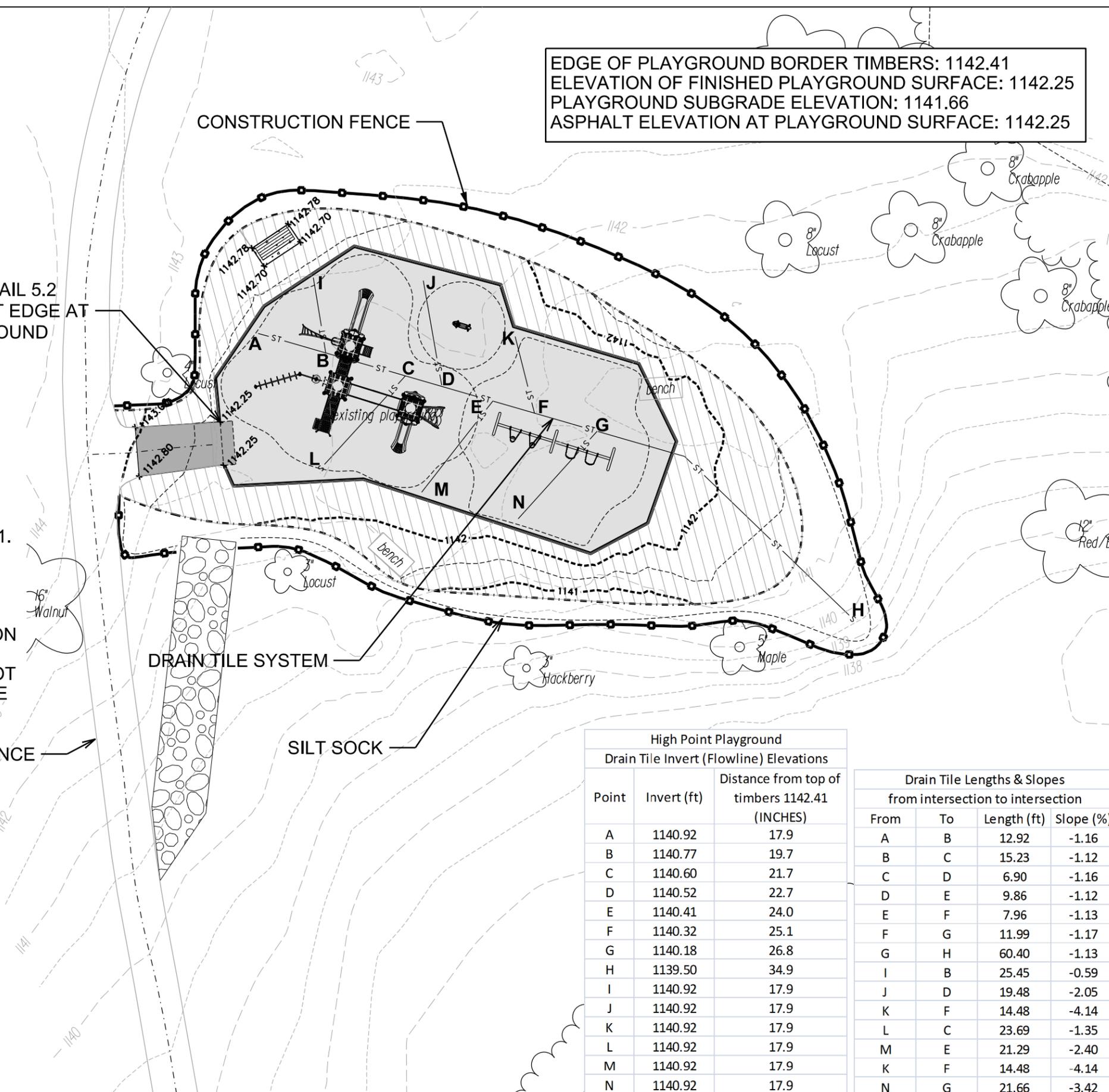
NOTES

1. 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.
3. ASPHALT PATH CROSS SLOPE SHALL NOT EXCEED 2%, PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

EDGE OF PLAYGROUND BORDER TIMBERS: 1142.41
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 1142.25
 PLAYGROUND SUBGRADE ELEVATION: 1141.66
 ASPHALT ELEVATION AT PLAYGROUND SURFACE: 1142.25

SEE DETAIL 5.2
 ASPHALT EDGE AT
 PLAYGROUND

CONSTRUCTION ENTRANCE



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SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
2.4

High Point Playground			
Drain Tile Invert (Flowline) Elevations			
Point	Invert (ft)	Distance from top of timbers 1142.41 (INCHES)	
A	1140.92	17.9	
B	1140.77	19.7	
C	1140.60	21.7	
D	1140.52	22.7	
E	1140.41	24.0	
F	1140.32	25.1	
G	1140.18	26.8	
H	1139.50	34.9	
I	1140.92	17.9	
J	1140.92	17.9	
K	1140.92	17.9	
L	1140.92	17.9	
M	1140.92	17.9	
N	1140.92	17.9	

Drain Tile Lengths & Slopes			
from intersection to intersection			
From	To	Length (ft)	Slope (%)
A	B	12.92	-1.16
B	C	15.23	-1.12
C	D	6.90	-1.16
D	E	9.86	-1.12
E	F	7.96	-1.13
F	G	11.99	-1.17
G	H	60.40	-1.13
I	B	25.45	-0.59
J	D	19.48	-2.05
K	F	14.48	-4.14
L	C	23.69	-1.35
M	E	21.29	-2.40
K	F	14.48	-4.14
N	G	21.66	-3.42

High Point Park Playground - Earthwork Quantities											
City of Madison, WI Public Works Contract											
Date Revised: 1/16/2015											
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: Waltham_Survey2014-11-05_Comb.dtm											
Proposed: Prop1.dtm											
Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	South Bench	n/a	South bench pad remains	n/a	n/a	31	0.00	0	0.0	0%	0.0
2.1	Asphalt	Asphalt Excavate	Remove existing asphalt path, est 3m thick	n/a	n/a	1'6	0.25	-29	-1.1	0%	-1.1
2.2	Asphalt	Gravel Excavate	Remove existing path gravel base, est 6in thick	n/a	n/a	1'6	0.50	-58	-2.1	0%	-2.1
2.3	Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-9in	Pro-12in	1'6	varies	-35	-1.3	0%	-1.3
2.4	Asphalt	Gravel Place	Place 9in thick gravel base, out to 6in from asphalt edge	n/a	n/a	1'6	-0.75	-87	-3.2	0%	-3.2
2.5	Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	1'6	-0.25	-29	-1.1	0%	-1.1
3.1	Bench to Grass	Concrete Excavate	Remove north bench pad concrete	n/a	n/a	22	0.42	-9	-0.3	0%	-0.3
3.2	Bench to Grass	Gravel Excavate	Remove north bench pad 6in gravel base	n/a	n/a	22	0.50	-11	-0.4	0%	-0.4
3.3	Bench to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-6in	22	varies	-20	-0.7	0%	-0.7
3.4	Bench to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	22	-0.50	-11	-0.4	0%	-0.4
4.1	Bench to Play Surface	Concrete Excavate	Remove north bench pad concrete	n/a	n/a	8	0.42	-3	-0.1	0%	-0.1
4.2	Bench to Play Surface	Gravel Excavate	Remove north bench pad 6in gravel base	n/a	n/a	8	0.50	-4	-0.1	0%	-0.1
4.3	Bench to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-7in	8	varies	-7	-0.3	0%	-0.3
4.4	Bench to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	8	-0.58	-5	-0.2	29%	-0.2
5.1	Bench to Timbers	Concrete Excavate	Remove north bench pad concrete	n/a	n/a	1	0.42	-0	0.0	0%	0.0
5.2	Bench to Timbers	Gravel Excavate	Remove north bench pad 6in gravel base	n/a	n/a	1	0.50	-1	0.0	0%	0.0
5.3	Bench to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-7in	1	varies	-1	0.0	0%	0.0
5.4	Bench to Timbers	Border Timbers Place (placeholder volume)	Place 12in deep border timbers (placeholder volume to balance volume comps)	n/a	n/a	1	-1.00	-1	0.0	0%	0.0
6.1	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	17	0.50	-9	-0.3	0%	-0.3
6.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	17	varies	-9	-0.3	0%	-0.3
6.3	Grass to Asphalt	Gravel Place	Place 9in thick gravel base, out to 6in from asphalt edge	n/a	n/a	17	-0.75	-13	-0.5	0%	-0.5
6.4	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	3	-0.25	-1	0.0	0%	0.0
6.5	Grass to Asphalt	Topsoil Place	Place 3in topsoil on 6in wide path gravel edge	n/a	n/a	14	-0.25	-4	-0.1	0%	-0.1
7.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1657	0.50	-829	-30.7	0%	-30.7
7.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1657	varies	-51	-1.9	0%	-1.9
7.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1657	varies	-253	-9.4	0%	-9.4
7.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1657	-0.50	-829	-30.7	0%	-30.7
8.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	528	0.50	-264	-9.8	0%	-9.8
8.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-7in	528	varies	-12	-0.4	0%	-0.4
8.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-7in	528	varies	-276	-10.2	0%	-10.2
8.4	Grass to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	528	-0.58	-308	-11.4	29%	-11.4
9.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	24	0.50	-12	-0.4	0%	-0.4
9.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	24	varies	-7	-0.3	0%	-0.3
9.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	24	varies	-4	-0.1	0%	-0.1
9.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place 12in deep border timbers (placeholder volume to balance volume comps)	n/a	n/a	24	-1.00	-24	-0.9	0%	-0.9
10.1	Play Surface to Asphalt	Play Surface Excavate	Remove existing pea gravel play surface (est 17in thick)	n/a	n/a	40	1.42	-57	-2.1	0%	-2.1
10.2	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	40	varies	-13	-0.5	0%	-0.5
10.3	Play Surface to Asphalt	Gravel Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	40	-0.75	-30	-1.1	0%	-1.1
10.4	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	32	-0.25	-8	-0.3	0%	-0.3
10.5	Play Surface to Asphalt	Topsoil Place	Place 3in topsoil on 6in wide path gravel edge	n/a	n/a	8	-0.25	-2	-0.1	0%	-0.1
11.1	Play Surface to Grass	Play Surface Excavate	Remove existing pea gravel play surface (est 17in thick)	n/a	n/a	1198	1.42	-1697	-62.9	0%	-62.9
11.2	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1198	varies	-1622	-60.1	0%	-60.1
11.3	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1198	-0.50	-599	-22.2	0%	-22.2
12.1	Play Surface to Play Surface	Play Surface Excavate	Remove existing pea gravel play surface (est 17in thick)	n/a	n/a	2436	1.42	-3451	-127.8	0%	-127.8
12.2	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-7in	2436	varies	-3050	-113.0	0%	-113.0
12.3	Play Surface to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	2436	-0.58	-1421	-52.6	29%	-52.6
13.1	Play Surface to Timbers	Play Surface Excavate	Remove existing pea gravel play surface (est 17in thick)	n/a	n/a	46	1.42	-65	-2.4	0%	-2.4
13.2	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	46	varies	-42	-1.6	0%	-1.6
13.3	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place 12in deep border timbers (placeholder volume to balance volume comps)	n/a	n/a	46	-1.00	-46	-1.7	0%	-1.7
14.1	Adjust	Subsoil Excavate	Drain tile - approx 240 ft x 18 in wide x average 1.8 ft deep	n/a	n/a	240	1.80	-432	-16.0	0%	-16.0
14.2	Adjust	Drain Tile Stone Place	Drain tile stone - approx 195 ft x 18 in wide x average 1.8 ft deep (approx - includes volume of pipe itself)	n/a	n/a	195	-1.80	-351	-13.0	0%	-13.0
14.3	Adjust	Subsoil Place	Drain tile subsoil replacement outside playground - approx 45 ft x 18 in wide x average 1.8 ft deep (approx - includes volume of pipe itself)	n/a	n/a	45	-1.80	-81	-3.0	0%	-3.0
15.1	Adjust	Subsoil Place	Reduce subsoil place by 1/2 of asphalt ramp gravel base volume = 1/2 x (2 ft x 9 ft x 7 in)	n/a	n/a	18	0.29	-5	-0.2	0%	-0.2
15.2	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	18	-0.29	-5	-0.2	0%	-0.2

M:\Maps\parks\HighPoint\Playground 2015\High_Point_Playground.dgn

High Point Park Playground - Earthwork Quantities			
Date Revised: 1/16/2015			
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 Factored (Uncompacted) Volume (cu yd)	Check / Notes	
Asphalt Excavate	1.1		
Asphalt Place	-1.4	Asphalt 151 sq ft x 3in = 1.4 cu yd x 2.16 ton/cu yd = 3.0 ton	
Border Timbers Place (placeholder volume)	-2.6		
Concrete Excavate	0.5		
Gravel Excavate	2.7		
Gravel Place	-4.8	Gravel with fines = 1.9-2.0 ton/cu yd compacted in place	
n/a	0.0		
Play Surface Excavate	195.2		
Play Surface Place	-82.7	Play surface 2978 sq ft (excl asph ramp) x 9in uncompacted rubber chips = 83 cu yd	
Subsoil Excavate	20.2		
Subsoil Place	-198.7		
Topsoil Excavate	41.2		
Topsoil Place	-53.5		
Drain Tile Stone Place	-13.0		
Grand Total	-95.8		
Net subsoil	-178		
Net topsoil	-12		
Net subsoil & topsoil	-191		
Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	61	CY	= Subsoil Excavate + Topsoil Excavate
20103 - Excavation Cut - Pea Gravel	195	CY	= Pea Gravel Excavate
20201 Fill	-178	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	-320	SY	= Topsoil Place / .167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	-9.6	TONS	= Gravel Place * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	-3.0	TONS	= Asphalt Place * 2.16 ton/cubic yard
90004 - Playground Surfacing - Rubber Mulch	-91	CY	= Play Surface Place * 1.10

City of Madison
Department of Public Works
PARKS DIVISION

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PO Box 2987
Madison, WI 53701-2987



PROJECT:

2015 PARK PLAYGROUNDS -GROUP 1

**HIGH POINT PARK
7499 WATTS RD.
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: MS 01-21-15

PUBLIC WORKS PROJECT #:

7473

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:

2.5

Graphical Scale



PROJECT:

*2015 PARK
 PLAYGROUNDS
 -GROUP 1*

*STEVENS STREET
 PARK
 2710 STEVENS ST
 MADISON, WI*

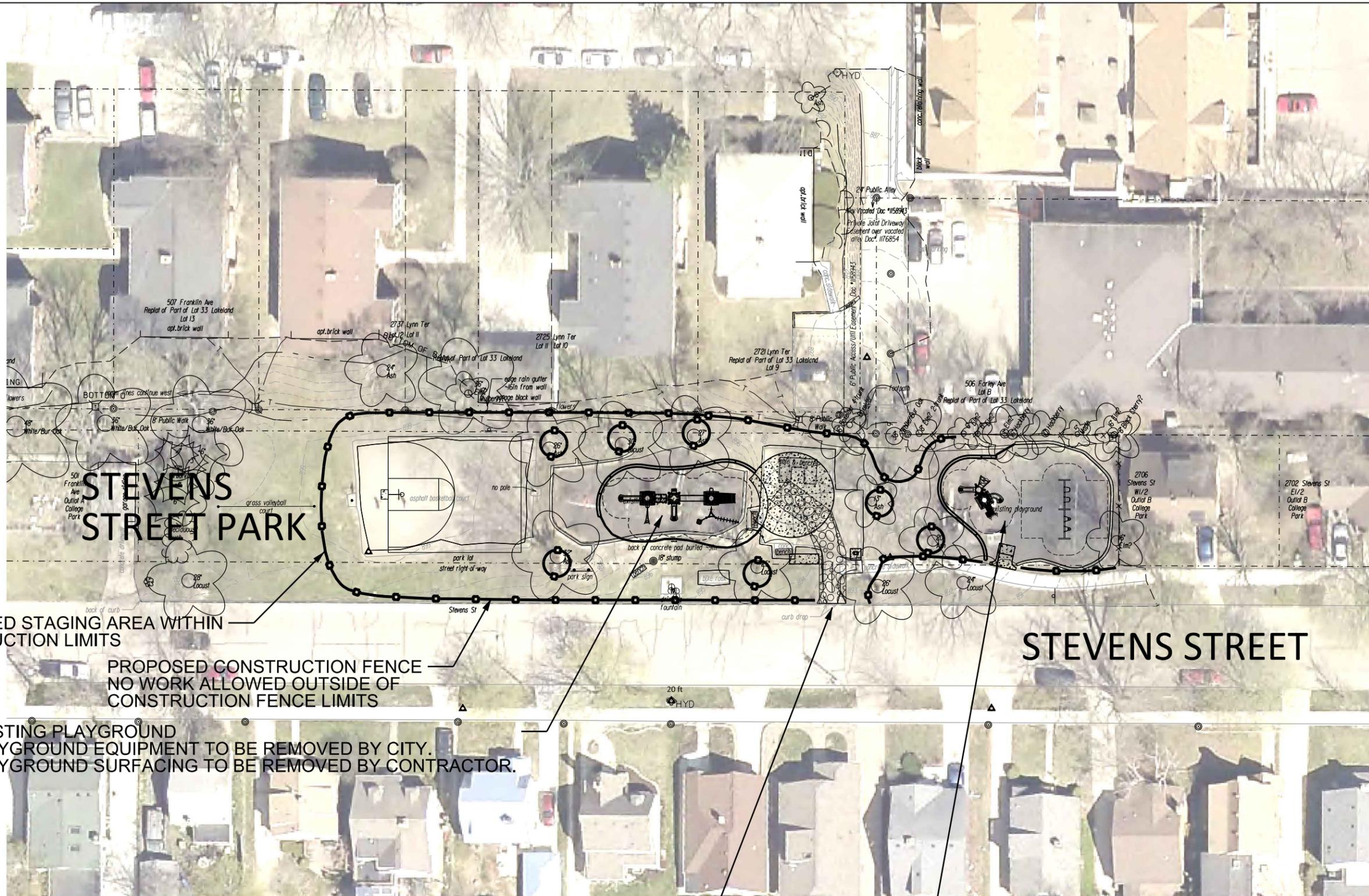
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ITEM	DATE
Drawn by: MS	01-21-15

PUBLIC WORKS PROJECT #:
7473

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

SHEET NUMBER:
3.1



PROPOSED STAGING AREA WITHIN CONSTRUCTION LIMITS

PROPOSED CONSTRUCTION FENCE NO WORK ALLOWED OUTSIDE OF CONSTRUCTION FENCE LIMITS

EXISTING PLAYGROUND PLAYGROUND EQUIPMENT TO BE REMOVED BY CITY. PLAYGROUND SURFACING TO BE REMOVED BY CONTRACTOR.

CONSTRUCTION ACCESS FROM STEVENS STREET. PROTECT CURB, REPAIR AND REPLACEMENT OF CURB AND SIDEWALK IS INCIDENTAL TO THIS CONTRACT. CONSTRUCTION ACCESS MUST BE AT LEAST 10' FROM THE TRUNK OF ANY STREET TREE.

EXISTING PLAYGROUND PLAYGROUND EQUIPMENT TO BE REMOVED BY CITY. PLAYGROUND SURFACING TO BE REMOVED BY CONTRACTOR.

Graphical Scale

0 20 ft



PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*STEVENS STREET
PARK
2710 STEVENS ST
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: MS	01-21-15

PUBLIC WORKS PROJECT #:

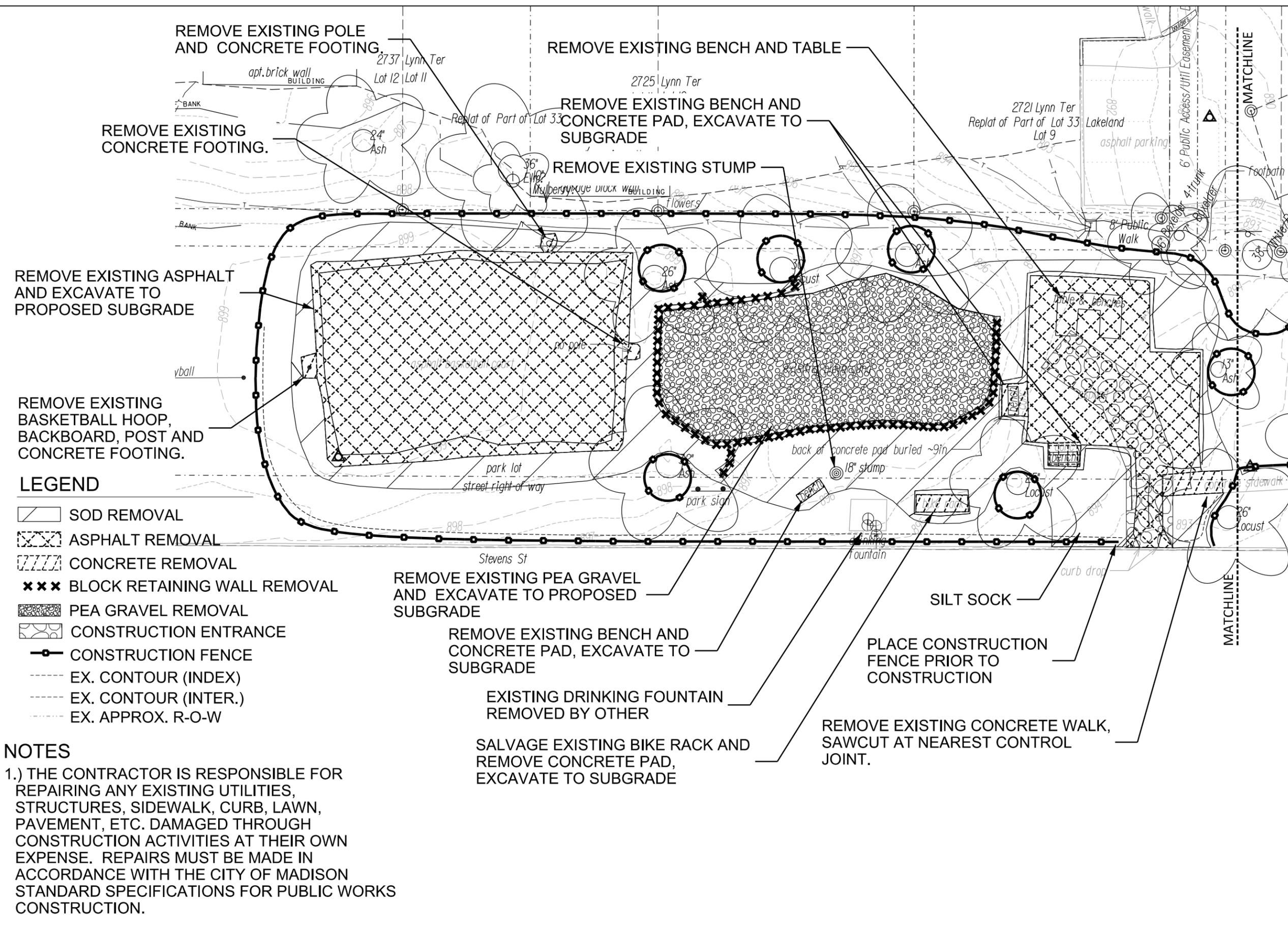
7473

SHEET TITLE:

*DEMOLITION AND
PROTECTION
PLAN-WEST*

SHEET NUMBER:

3.2



REMOVE EXISTING POLE AND CONCRETE FOOTING.

REMOVE EXISTING BENCH AND TABLE

REMOVE EXISTING CONCRETE FOOTING.

REMOVE EXISTING BENCH AND CONCRETE PAD, EXCAVATE TO SUBGRADE

REMOVE EXISTING STUMP

REMOVE EXISTING ASPHALT AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING BASKETBALL HOOP, BACKBOARD, POST AND CONCRETE FOOTING.

LEGEND

- SOD REMOVAL
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BLOCK RETAINING WALL REMOVAL
- PEA GRAVEL REMOVAL
- CONSTRUCTION ENTRANCE
- CONSTRUCTION FENCE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

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.

REMOVE EXISTING PEA GRAVEL AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING BENCH AND CONCRETE PAD, EXCAVATE TO SUBGRADE

EXISTING DRINKING FOUNTAIN REMOVED BY OTHER

SALVAGE EXISTING BIKE RACK AND REMOVE CONCRETE PAD, EXCAVATE TO SUBGRADE

SILT SOCK

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE EXISTING CONCRETE WALK, SAWCUT AT NEAREST CONTROL JOINT.

City of Madison
Department of Public Works
PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale

0 20 ft



PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*STEVENS STREET
PARK
2710 STEVENS ST
MADISON, WI*

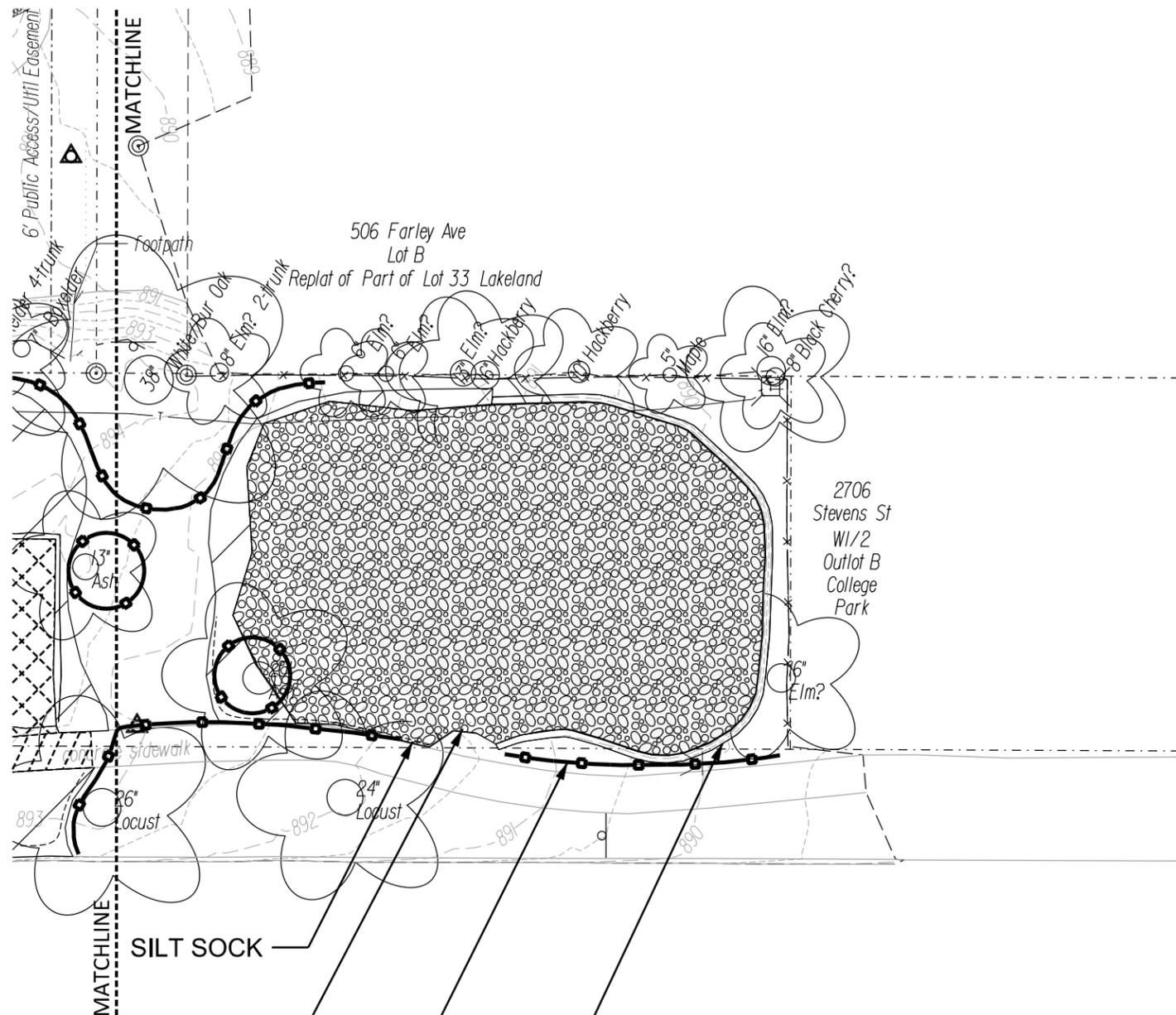
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ITEM	DATE
Drawn by: MS	01-21-15

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
*DEMOLITION AND
PROTECTION PLAN
-EAST*

SHEET NUMBER:
3.3



LEGEND

-  SOD REMOVAL
-  PEA GRAVEL REMOVAL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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REMOVE EXISTING PEA GRAVEL AND EXCAVATE TO PROPOSED SUBGRADE

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

EXISTING BLOCK RETAINING WALL REMAINS



PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*STEVENS STREET
PARK
2710 STEVENS ST
MADISON, WI*

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ITEM	DATE
Drawn by: MS	01-21-15

PUBLIC WORKS PROJECT #:

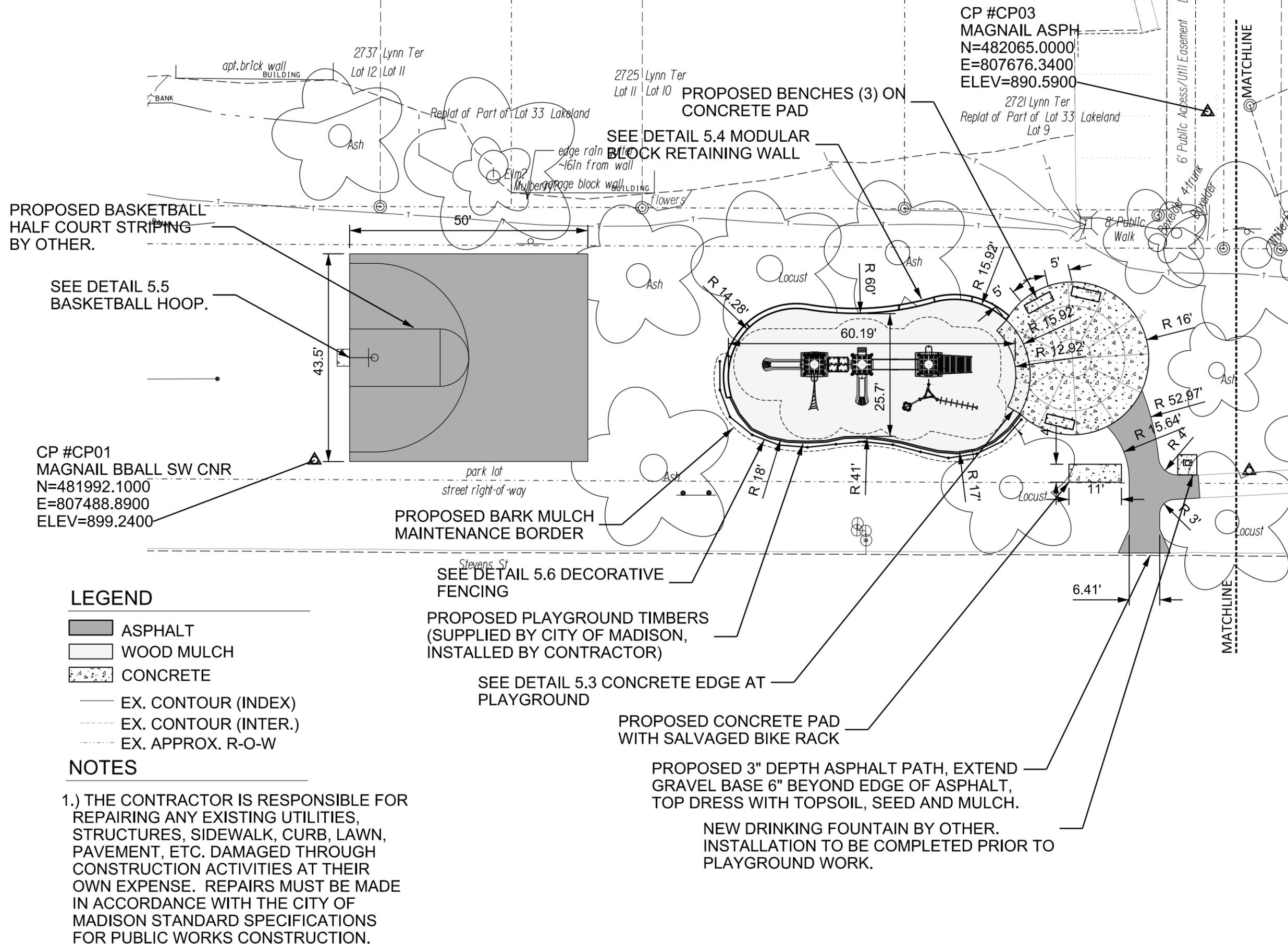
7473

SHEET TITLE:

SITE PLAN - WEST

SHEET NUMBER:

3.4



LEGEND

- ASPHALT
- WOOD MULCH
- CONCRETE
- EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER.)
- · · EX. APPROX. R-O-W

NOTES

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PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale

0 20 ft



PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*STEVENS STREET
PARK
2710 STEVENS ST
MADISON, WI*

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ITEM	DATE
Drawn by: MS	01-21-15

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
SITE PLAN -EAST

SHEET NUMBER:
3.5

CP #CP03
MAGNAIL ASPH
N=482065.0000
E=807676.3400
ELEV=890.5900

PROPOSED PLAYGROUND TIMBERS
(SUPPLIED BY CITY OF MADISON,
INSTALLED BY CONTRACTOR).

PROPOSED BARK MULCH
MAINTENANCE BORDER

SEE DETAIL C5.6 DECORATIVE
FENCING.

SEE DETAIL 5.4 MODULAR
BLOCK RETAINING WALL.

CP #CP07
3/4IN ROD
N=481989.9000
E=807685.0500
ELEV=892.9800

SEE DETAIL 5.3 CONCRETE
EDGE AT PLAYGROUND

SEE DETAIL 5.6 DECORATIVE
FENCING, GATE 8 FT. WIDE.

PROPOSED CONCRETE WALK.

SEE DETAIL C5.6 DECORATIVE
FENCING, PROPOSED FENCE
LOCATED IN INTERIOR OF PLAY
SURFACING AREA ADJACENT TO
EXISTING BLOCK WALL.

LEGEND

-  ASPHALT
-  WOOD MULCH
-  CONCRETE

-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*STEVENS STREET
PARK
2710 STEVENS ST
MADISON, WI*

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ITEM	DATE
Drawn by: MS	01-21-15

PUBLIC WORKS PROJECT #:

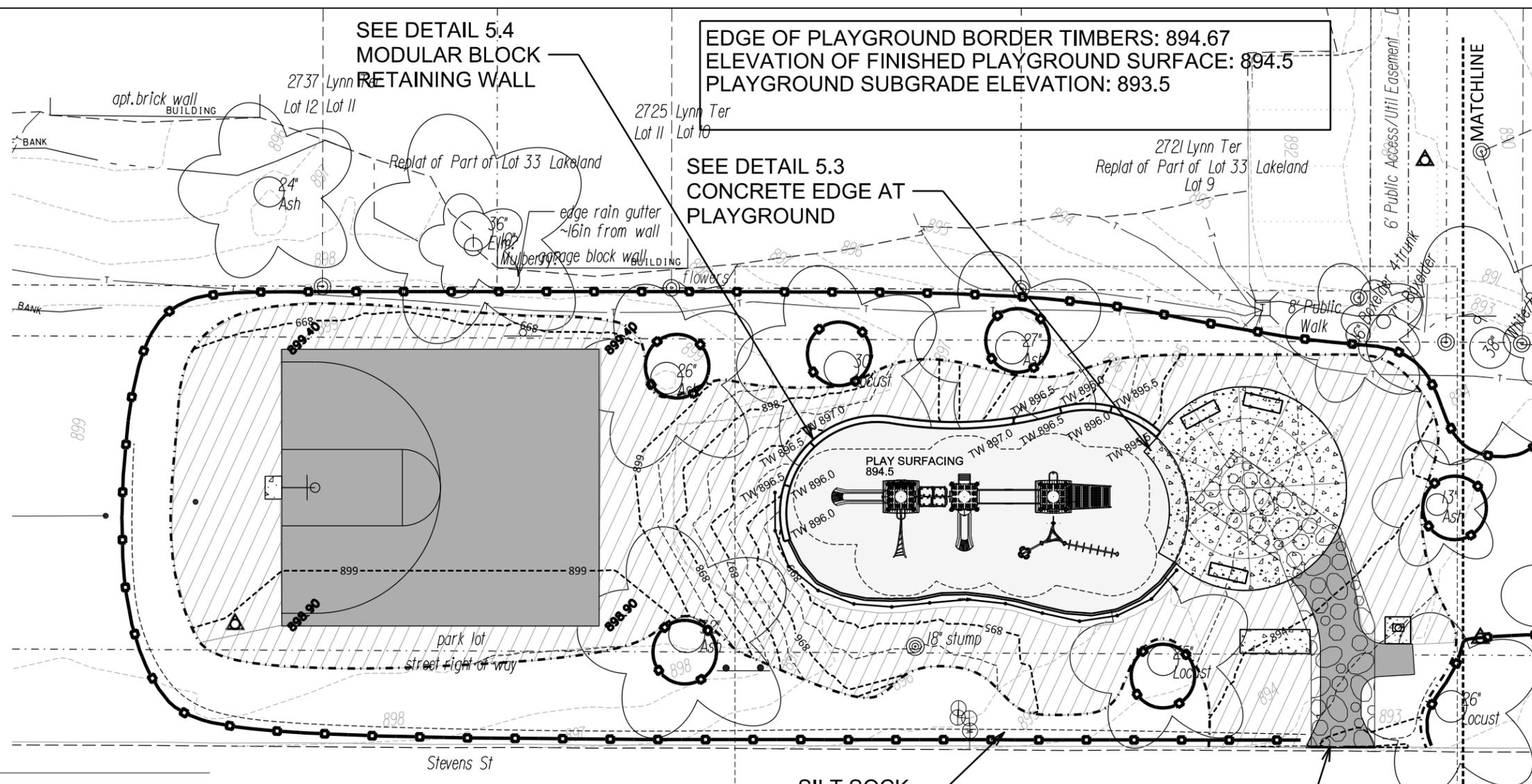
7473

SHEET TITLE:

*GRADING AND
EROSION CONTROL
PLAN - WEST*

SHEET NUMBER:

3.6



LEGEND

- ASPHALT
- WOOD MULCH
- CONCRETE
- EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
- CONSTRUCTION ENTRANCE
- GRADING EXTENTS
- CONSTRUCTION FENCE
- SILT SOCK
- CONTOUR (INDEX)
- CONTOUR (INTER.)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

NOTES

1. 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.
3. ASPHALT PATH CROSS SLOPE SHALL NOT EXCEED 2%, PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
4. INSTALL (2) TWO STORM INLET TYPE C PROTECTION MEASURES AT THE INTERSECTION OF STEVENS STREET AND FARLEY AVENUE.

SEE SHEET 3.7 FOR
GRADING ENLARGEMENT

CONSTRUCTION ENTRANCE

Graphical Scale



PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*STEVENS STREET
PARK
2710 STEVENS ST
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: MS	01-21-15

PUBLIC WORKS PROJECT #:

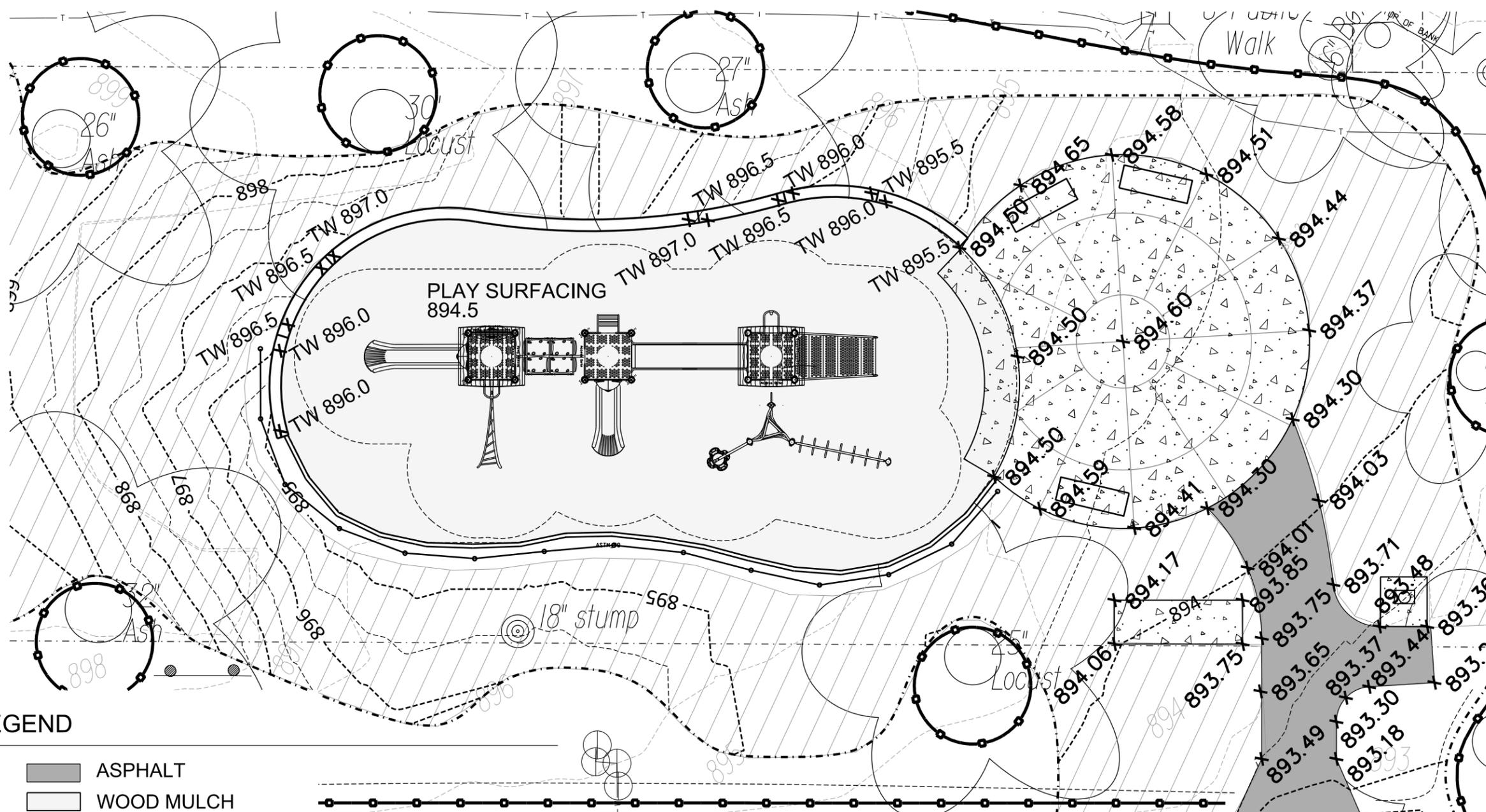
7473

SHEET TITLE:

*GRADING
ENLARGEMENT
- WEST*

SHEET NUMBER:

3.7



LEGEND

- ASPHALT
- WOOD MULCH
- CONCRETE
- EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
- GRADING EXTENTS
- CONSTRUCTION FENCE
- SILT SOCK
- CONTOUR (INDEX)
- CONTOUR (INTER.)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

NOTES

1. 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTITRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.
3. ASPHALT PATH CROSS SLOPE SHALL NOT EXCEED 2%, PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

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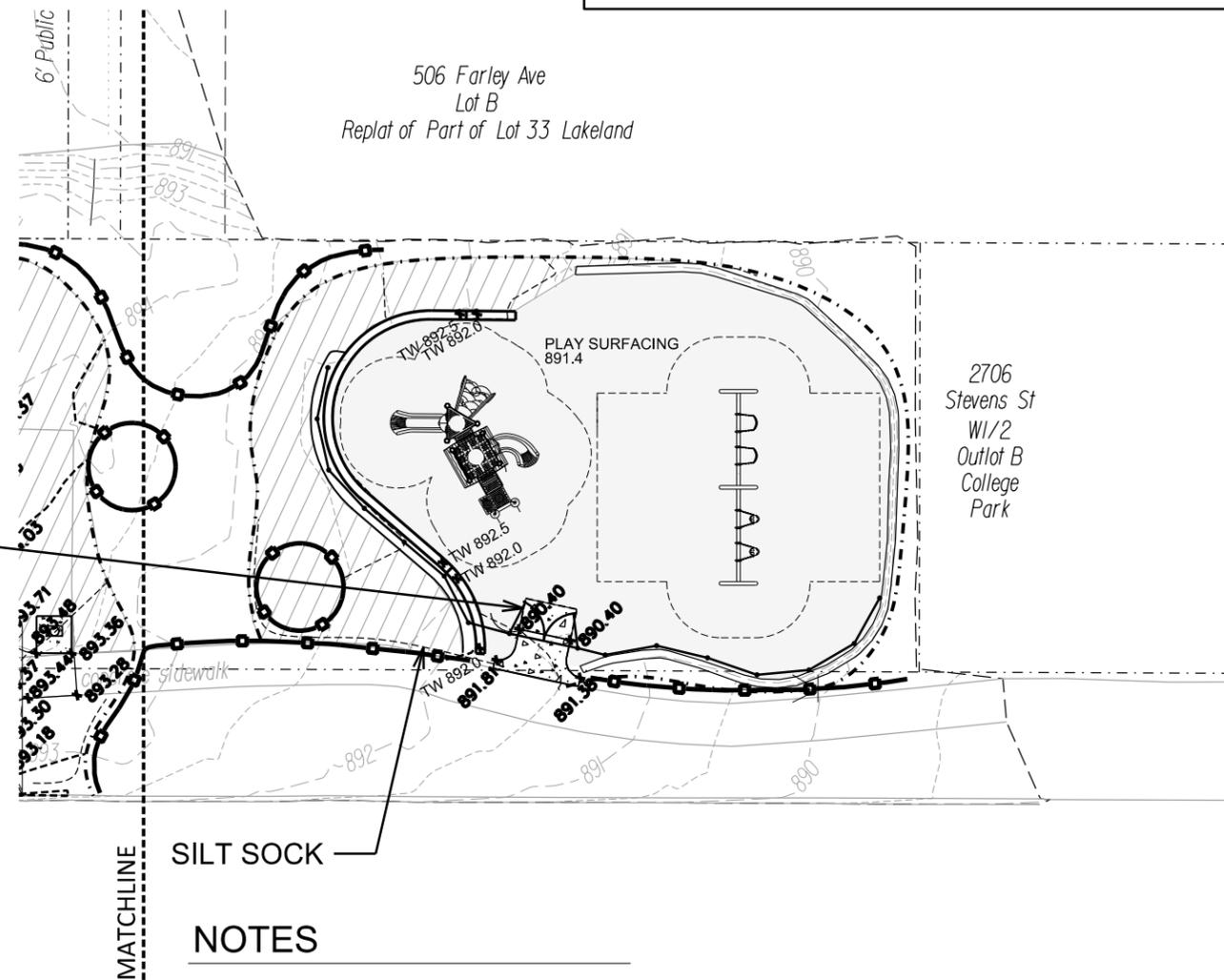
ITEM	DATE
Drawn by: MS	01-21-15

PUBLIC WORKS PROJECT #:
7473

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

SHEET NUMBER:
3.8

EDGE OF PLAYGROUND BORDER TIMBERS: 891.56
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 891.4
 PLAYGROUND SUBGRADE ELEVATION: 890.4
 ASPHALT ELEVATION AT PLAYGROUND SURFACE: 891.4



LEGEND

-  ASPHALT
-  WOOD MULCH
-  CONCRETE
-  EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
-  CONSTRUCTION ENTRANCE
-  GRADING EXTENTS
-  CONSTRUCTION FENCE
-  SILT SOCK
-  CONTOUR (INDEX)
-  CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

NOTES

1. 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTITRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.
3. ASPHALT PATH CROSS SLOPE SHALL NOT EXCEED 2%, PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 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



PROJECT:

**2015 PARK
PLAYGROUNDS
-GROUP 1**

**STEVENS STREET
PARK
2710 STEVENS ST
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: MS 01-21-15

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:

3.9

Stevens Street Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 1/20/2015

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 (placeholder volume)	Sum of Unfactored volume (cu yd)	Check / Notes
Asphalt Excavate	39.2	
Asphalt Place	-22.6	Asphalt 43.5x50ft bball + 269 sq ft path = 2444 sq ft x 3in = 22.6 cu yd x 2.16 ton/cu yd = 49 ton
Basketball Post Excavate	4.3	
Border Timbers Place (placeholder volume)	-0.9	Gravel with fines = 1.9-2.0 ton/cu yd compacted in place
Concrete Excavate	2.4	
Concrete Place	-13.4	Concrete 770 sq ft circle + 41 sq ft bike rack + 57 sq ft east path = 868 sq ft x 5in = 13.4 cu yd
Gravel (Clean) Excavate	54.2	Gravel (Clean) Excavate = assumed top 4 in existing gravel under pavement
Gravel (Dirty) Excavate	27.1	Gravel (Dirty) Excavate = assumed bottom 2 in existing gravel under pavement
Gravel (for Pavement) Place	-88.8	crushed gravel with fines 1.9-2.0 ton/cu yd compacted
Gravel (for Wall) Place	-22.3	
Play Surface Excavate	252.8	
Play Surface Place	-143.0	Play surface = 1634 sq ft west + 2284 sq ft east = 3918 sq ft x 12in = 145 cu yd (detailed comps slightly less due to path ramps)
Subsoil Excavate	217.1	
Subsoil Place	-100.1	
Topsoil Excavate	76.6	
Topsoil Place	-114.2	
Wall Excavate	14.1	
Wall Place (placeholder volume)	-16.5	New walls: face area est 400 sq ft blocks + 133 ft x 3.5in cap = 440 sq ft @ 1 ft thick = 16.3 cu yd
Grand Total	169.9	

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	364	CY	= Asphalt Excavate+Basketball Post Excavate+Gravel (Dirty) Excavate+Subsoil Excavate + Topsoil Excavate
20103 - Excavation Cut - Pea Gravel	253	CY	= Pea Gravel Excavate
20201 Fill	117	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	-684	SY	= Topsoil Place/ .167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	69.2	S	= (Gravel Place-Gravel (Clean) Excavate) * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	-48.8	TON	= Asphalt Place * 2.16 ton/cubic yard
90003 - Playground Surfacing - Wood Mulch	-143	CY	= Play Surface Place*1.10

Stevens Street Park Playground - Earthwork Quantities
City of Madison, WI Public Works Contract
Date Revised: 1/20/2015

Notes:
Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface masses (Digital Terrain Models) are used for computations or intended for actual construction.

Existing: Stevens St_Survey 2014-09-19_Comb.dwg
Proposed: Proj2.dwg (west playground & basketball)
Proposed: Proj2.dwg (east playground)

Side	Sort	Grp	Material	Item	From Surface Model	To Surface Model	Area (sq ft)	Depth (ft)	Unfactored Volume (cu yd)	Unfactored Volume (cu yd)	Expansion Factor (%)	Factor (Volume (cu yd))
East	E01.1	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	22	0.50	11	0.4	0%	0.4
East	E01.2	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	22	varies	9	-0.3	0%	0.3
East	E01.3	Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	22	-0.50	-11	-0.4	0%	-0.4
East	E01.4	Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	20	-0.42	-8	-0.3	0%	-0.3
East	E01.5	Grass to Concrete	Topsoil Place	Place 5in topsoil over 6in wide gravel edge	n/a	n/a	2	-0.42	-1	0.0	0%	0.0
East	E02.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	373	0.50	187	6.9	0%	6.9
East	E02.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	373	varies	2	0.1	0%	0.1
East	E02.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	373	varies	-34	-1.3	0%	-1.3
East	E02.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	373	-0.50	-187	-6.9	0%	-6.9
East	E03.1	Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	49	1.42	69	2.6	0%	2.6
East	E03.2	Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-11in	49	varies	-18	-0.7	0%	-0.7
East	E03.3	Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	49	-0.50	-25	-0.9	0%	-0.9
East	E03.4	Play Surface to Concrete	Concrete Place	Place 6in concrete	n/a	n/a	38	-0.42	-16	-0.6	0%	-0.6
East	E03.5	Play Surface to Concrete	Topsoil Place	Place 5in topsoil over 6in wide gravel edge	n/a	n/a	11	-0.42	-5	-0.2	0%	-0.2
East	E04.1	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	397	1.42	562	20.8	0%	20.8
East	E04.2	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	397	varies	-384	-14.2	0%	-14.2
East	E04.3	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	397	-0.50	-199	-7.4	0%	-7.4
East	E05.1	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2217	1.42	3141	116.3	0%	116.3
East	E05.2	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	2217	varies	137	5.1	0%	5.1
East	E05.3	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2217	varies	-864	-32.0	0%	-32.0
East	E05.4	Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	2217	-1.00	-2217	-82.1	0%	-82.1
East	E06.1	Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2	1.42	3	0.1	0%	0.1
East	E06.2	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2	varies	-1	0.0	0%	0.0
East	E06.3	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	2	-1.00	-2	-0.1	0%	-0.1
East	E07.1	Play Surface to Wall Base	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	158	1.42	224	8.3	0%	8.3
East	E07.2	Play Surface to Wall Base	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	889 21ft	158	varies	253	9.4	0%	9.4
East	E07.3	Play Surface to Wall Base	Gravel (for Wall) Place	Place 6in gravel base under wall & out 12in behind wall up to proposed grass	n/a	n/a	158	varies	-215	-8.0	0%	-8.0
East	E07.4	Play Surface to Wall Base	Gravel (for Wall) Place	Place 6in gravel in front of wall up to play subgrade	n/a	n/a	31	-0.69	-21	-0.8	0%	-0.8
East	E07.5	Play Surface to Wall Base	Wall Place (placeholder volume)	Place block retaining wall (placeholder volume to balance volume comps)	n/a	n/a	62	varies	-168	-6.2	0%	-6.2
East	E07.6	Play Surface to Wall Base	Topsoil Place	Place 6in topsoil on 12in wide gravel behind retaining wall	n/a	n/a	65	-0.50	-33	-1.2	0%	-1.2
East	E07.7	Play Surface to Wall Base	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	31	-1.00	-31	-1.1	0%	-1.1
East	E07.8	Play Surface to Wall Base (placeholder volume)	Placeholder to reconcile retaining wall volumes with overall DTM difference (proposed DTM doesn't fully model wall)	n/a	n/a	158	varies	32	1.2	0%	1.2	
East	E08.1	Wall Stays (placeholder volume)	East playground east retaining wall to remain	n/a	n/a	100	0.00	0	0.0	0%	0.0	
East	E09.1	Adjust	Play Surface Place	Increase play surface by 1/2 of pavement ramp gravel base volume = 1/2 (7 ft x 3 ft x 1 ft)	n/a	n/a	21	-0.50	-11	-0.4	0%	-0.4
East	E09.2	Adjust	Subsoil Excavate	Increase subsoil excavate by 1/2 of pavement ramp gravel base volume = 1/2 (7 ft x 3 ft x 1 ft)	n/a	n/a	21	0.50	11	0.4	0%	0.4
West	W01.1	Asphalt to Asphalt	Asphalt Excavate	Remove estimated 3in asphalt	n/a	n/a	2432	0.25	608	22.5	0%	22.5
West	W01.2	Asphalt to Asphalt	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	2432	0.33	811	30.0	0%	30.0
West	W01.3	Asphalt to Asphalt	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subsoil	n/a	n/a	2432	0.17	405	15.0	0%	15.0
West	W01.4	Asphalt to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	2432	varies	510	18.9	0%	18.9
West	W01.5	Asphalt to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	2432	varies	-39	-1.4	0%	-1.4
West	W01.6	Asphalt to Asphalt	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	2432	-0.75	-1824	-67.6	0%	-67.6
West	W01.7	Asphalt to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	2347	-0.25	-587	-21.7	0%	-21.7
West	W01.8	Asphalt to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	85	-0.25	-21	-0.8	0%	-0.8
West	W02.1	Asphalt to Concrete	Asphalt Excavate	Remove estimated 3in asphalt	n/a	n/a	751	0.25	188	7.0	0%	7.0
West	W02.2	Asphalt to Concrete	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	751	0.33	250	9.3	0%	9.3
West	W02.3	Asphalt to Concrete	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subsoil	n/a	n/a	751	0.17	125	4.6	0%	4.6
West	W02.4	Asphalt to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	751	varies	16	0.6	0%	0.6
West	W02.5	Asphalt to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	751	varies	-91	-3.4	0%	-3.4
West	W02.6	Asphalt to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	751	-0.50	-370	-13.9	0%	-13.9
West	W02.7	Asphalt to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	716	-0.42	-298	-11.0	0%	-11.0
West	W02.8	Asphalt to Concrete	Topsoil Place	Place 5in topsoil over 6in wide gravel edge	n/a	n/a	35	-0.42	-15	-0.5	0%	-0.5
West	W03.1	Asphalt to Grass	Asphalt Excavate	Remove estimated 3in asphalt	n/a	n/a	1050	0.25	263	9.7	0%	9.7
West	W03.2	Asphalt to Grass	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	1050	0.33	350	13.0	0%	13.0
West	W03.3	Asphalt to Grass	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subsoil	n/a	n/a	1050	0.17	175	6.5	0%	6.5
West	W03.4	Asphalt to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1050	varies	8	0.3	0%	0.3
West	W03.5	Asphalt to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1050	varies	-312	-11.6	0%	-11.6
West	W03.6	Asphalt to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1050	-0.50	-525	-19.4	0%	-19.4
West	W04.1	Basketball Post to Grass	Basketball Post Excavate	Remove est 38 depth	n/a	n/a	39	3.00	117	4.3	0%	4.3
West	W04.2	Basketball Post to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-36in	Pro-6in	39	varies	-102	-3.8	0%	-3.8
West	W04.3	Basketball Post to Grass	Topsoil Place	Place 6in topsoil west end of existing sidewalk staying east of cut for new asphalt	n/a	n/a	38	-0.50	-20	-0.7	0%	-0.7
West	W05.1	Concrete to Concrete	Concrete (placeholder volume)	Placeholder to reconcile retaining wall volumes with overall DTM difference (proposed DTM doesn't fully model wall)	n/a	n/a	29	0.00	0	0.0	0%	0.0
West	W06.1	Asphalt to Concrete	Concrete Excavate	Remove 5in concrete	n/a	n/a	40	-0.42	-17	-0.6	0%	-0.6

West	W06.2	Concrete to Concrete	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	40	0.33	13	0.5	0%	0.5
West	W06.3	Concrete to Concrete	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subsoil	n/a	n/a	40	0.17	7	0.2	0%	0.2
West	W06.4	Concrete to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-11in	Pro-12in	40	varies	3	0.1	0%	0.1
West	W06.5	Concrete to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-12in	40	varies	-30	-1.1	0%	-1.1
West	W06.6	Concrete to Concrete	Asphalt Place	Place 3in asphalt	n/a	n/a	40	-0.25	-10	-0.4	0%	-0.4
West	W07.1	Concrete to Concrete	Concrete Excavate	Remove 5in concrete	n/a	n/a	16	-0.42	-7	-0.2	0%	-0.2
West	W07.2	Concrete to Concrete	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	16	0.33	5	0.2	0%	0.2
West	W07.3	Concrete to Concrete	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subsoil	n/a	n/a	16	0.17	3	0.1	0%	0.1
West	W07.4	Concrete to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-11in	Pro-11in	16	varies	1	0.0	0%	0.0
West	W07.5	Concrete to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-11in	16	varies	-0.3	-0.1	0%	-0.1
West	W07.6	Concrete to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	16	-0.50	-8	-0.3	0%	-0.3
West	W07.7	Concrete to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	11	-0.42	-5	-0.2	0%	-0.2
West	W07.8	Concrete to Concrete	Play Surface Place	Place 5in wood mulch play surface over 6in wide gravel edge	n/a	n/a	9	-0.42	-4	-0.1	0%	-0.1
West	W08.1	Concrete to Concrete	Concrete Excavate	Remove 5in concrete	n/a	n/a	77	-0.42	-32	-1.2	0%	-1.2
West	W08.2	Concrete to Concrete	Gravel (Clean) Excavate	Remove estimated 4in clean gravel base	n/a	n/a	77	0.33	26	1.0	0%	1.0
West	W08.3	Concrete to Concrete	Gravel (Dirty) Excavate	Remove estimated 2in mixed gravel/subsoil	n/a	n/a	77	0.17	13	0.5	0%	0.5
West	W08.4	Concrete to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-11in	Pro-11in	77	varies	-34	-1.3	0%	-1.3
West	W08.5	Concrete to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-11in	77	varies	34	1.3	0%	1.3
West	W08.6	Concrete to Concrete	Topsoil Place	Place 6in topsoil	n/a	n/a	77	-0.50	-39	-1.4	0%	-1.4
West	W09.1	Concrete to Concrete	Concrete Excavate	Remove 5in concrete	n/a	n/a	22	-0.42	-9	-0.3	0%	-0.3
West	W09.2	Concrete to Concrete	Play Surface Excavate	Remove estimated 4in clean gravel base	n/a	n/a	22	0.33	7	0.3		



PROPOSED CONSTRUCTION FENCE
NO WORK ALLOWED OUTSIDE OF
CONSTRUCTION FENCE LIMITS

PROPOSED STAGING AREA WITHIN
CONSTRUCTION LIMITS

EXISTING PLAYGROUND
PLAYGROUND EQUIPMENT TO BE
REMOVED BY CITY.
PLAYGROUND SURFACING TO BE
REMOVED BY CONTRACTOR.

WALTHAM PARK

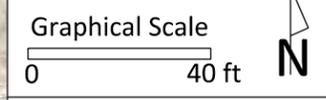
CANTERBURY RD.

CONSTRUCTION ACCESS FROM
CANTERBURY ROAD. PROTECT CURB,
REPAIR AND REPLACEMENT OF CURB
AND SIDEWALK IS INCIDENTAL TO
THIS CONTRACT. CONSTRUCTION
ACCESS MUST BE AT LEAST 10' FROM
THE TRUNK OF ANY STREET TREE.

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:
*2015 PARK
PLAYGROUNDS
-GROUP 1*

*WALTHAM PARK
2617 WALTHAM RD
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: MS	01-21-15

PUBLIC WORKS PROJECT #:
7473

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

SHEET NUMBER:
4.1

LEGEND

-  SOD REMOVAL
-  PEA GRAVEL REMOVAL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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

REMOVE EXISTING PEA GRAVEL AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING TOPSOIL AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING BENCH AND CONCRETE PAD, EXCAVATE TO SUBGRADE

SILT SOCK

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:

2015 PARK PLAYGROUNDS -GROUP 1

*WALTHAM PARK
2617 WALTHAM RD
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: MS	01-21-15

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7473

SHEET TITLE:
DEMOLITION AND EROSION CONTROL PLAN

SHEET NUMBER:
4.2

LEGEND

- ASPHALT
- RUBBER MULCH
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

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.

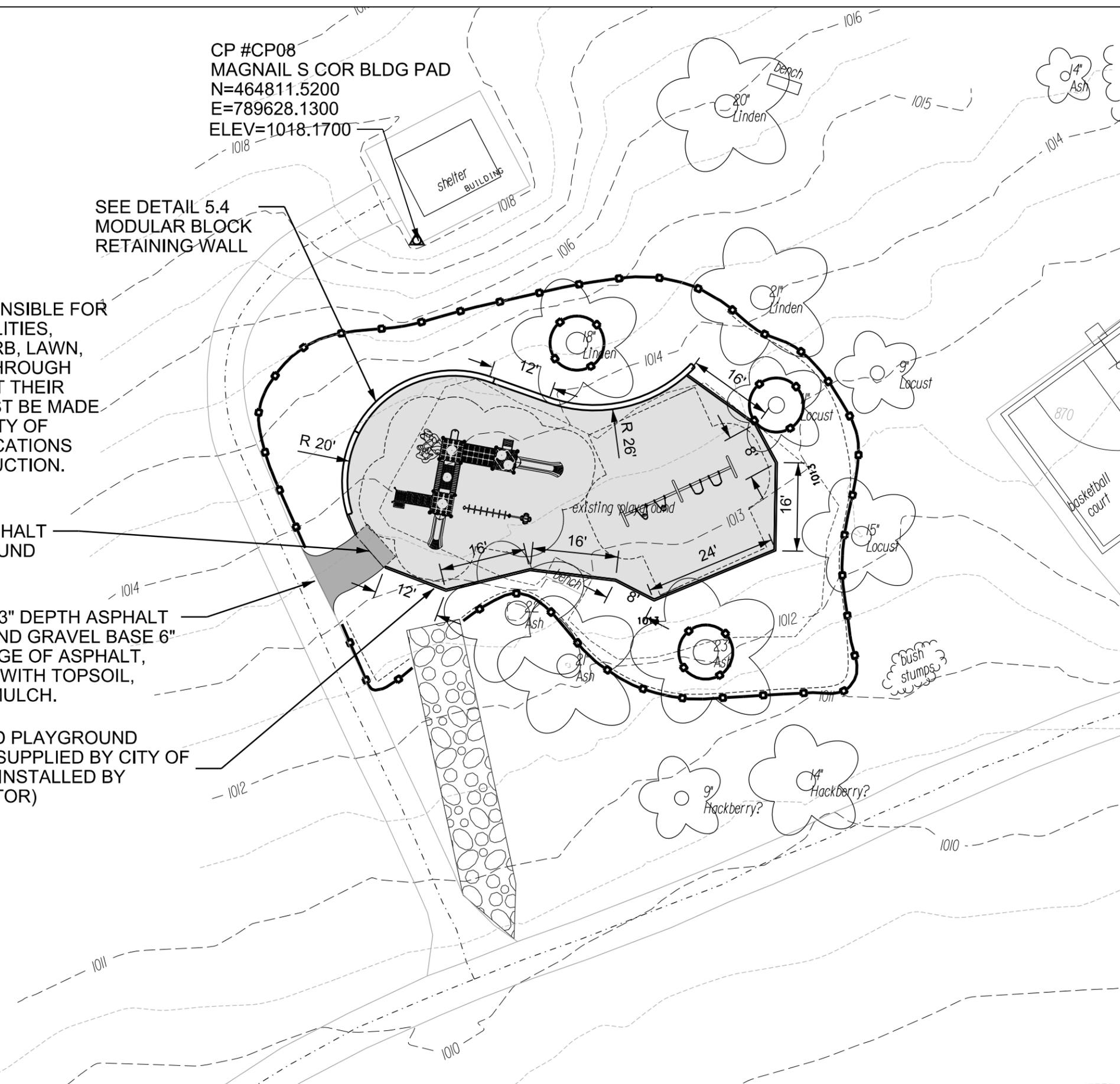
SEE DETAIL 5.2 ASPHALT EDGE AT PLAYGROUND

PROPOSED 3" DEPTH ASPHALT PATH, EXTEND GRAVEL BASE 6" BEYOND EDGE OF ASPHALT, TOP DRESS WITH TOPSOIL, SEED AND MULCH.

PROPOSED PLAYGROUND TIMBERS (SUPPLIED BY CITY OF MADISON, INSTALLED BY CONTRACTOR)

SEE DETAIL 5.4 MODULAR BLOCK RETAINING WALL

CP #CP08
MAGNAIL S COR BLDG PAD
N=464811.5200
E=789628.1300
ELEV=1018.1700



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play
**MADISON
PARKS**

Graphical Scale
0 20 ft **N**

PROJECT:
**2015 PARK
PLAYGROUNDS
-GROUP 1**

**WALTHAM PARK
2617 WALTHAM RD
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: MS	01-21-15

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.3



PROJECT:

*2015 PARK
PLAYGROUNDS
-GROUP 1*

*WALTHAM PARK
2617 WALTHAM RD
MADISON, WI*

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ITEM DATE
Drawn by: MS 01-21-15

PUBLIC WORKS PROJECT #:

7473

SHEET TITLE:

**GRADING AND
EROSION
CONTROL PLAN**

SHEET NUMBER:

4.4

LEGEND

- ASPHALT
- RUBBER MULCH
- EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
- CONSTRUCTION ENTRANCE
- GRADING EXTENTS
- CONSTRUCTION FENCE
- SILT SOCK
- DRAIN TILE
- CONTOUR (INDEX)
- CONTOUR (INTER.)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

SEE DETAIL 5.4
MODULAR BLOCK
RETAINING WALL

NOTES

1. 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.
3. ASPHALT PATH CROSS SLOPE SHALL NOT EXCEED 2%, PATH LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

SEE DETAIL 5.2 ASPHALT EDGE AT
PLAYGROUND

DRAIN TILE SYSTEM

CONSTRUCTION ENTRANCE

EDGE OF PLAYGROUND BORDER TIMBERS: 1013.50
ELEVATION OF FINISHED PLAYGROUND SURFACE: 1013.33
PLAYGROUND SUBGRADE ELEVATION: 1012.75
ASPHALT ELEVATION AT PLAYGROUND SURFACE: 1013.33

Waltham Park Playground		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1013.5 (INCHES)
A	1012.00	18.0
B	1011.86	19.7
C	1011.81	20.3
D	1011.70	21.6
E	1011.58	23.0
F	1011.25	27.0
G	1012.00	18.0
H	1012.00	18.0
I	1012.00	18.0
J	1012.00	18.0

Drain Tile Lengths & Slopes			
from intersection to intersection			
From	To	Length (ft)	Slope (%)
A	B	17.00	-0.82
B	C	6.08	-0.82
C	D	13.54	-0.81
D	E	14.29	-0.84
E	F	39.32	-0.84
G	B	16.39	-0.85
H	D	15.38	-1.95
I	E	25.45	-1.65
J	C	17.82	-1.07

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PROJECT:

**2015 PARK
PLAYGROUNDS
-GROUP 1**

**WALTHAM PARK
2617 WALTHAM RD
MADISON, WI**

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ITEM DATE
Drawn by: MS 01-21-15

PUBLIC WORKS PROJECT #:

7473

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:

4.5

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Bench to Grass	Concrete Excavate	Remove existing bench pad concrete	n/a	n/a	17	0.42	7	0.3	0%	0.3
1.2	Bench to Grass	Gravel Excavate	Remove existing bench pad gravel base	n/a	n/a	17	0.50	9	0.3	0%	0.3
1.3	Bench to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-6in	17	varies	-12	-0.4	0%	-0.4
1.4	Bench to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	17	-0.50	-9	-0.3	0%	-0.3
2.1	Bench to Play Surface	Concrete Excavate	Remove existing bench pad concrete	n/a	n/a	12	0.42	5	0.2	0%	0.2
2.2	Bench to Play Surface	Gravel Excavate	Remove existing bench pad gravel base	n/a	n/a	12	0.50	6	0.2	0%	0.2
2.3	Bench to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-7in	12	varies	-7	-0.3	0%	-0.3
2.4	Bench to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	12	-0.58	-7	-0.3	29%	-0.3
3.1	Bench to Timbers	Concrete Excavate	Remove existing bench pad concrete	n/a	n/a	3	0.42	1	0.0	0%	0.0
3.2	Bench to Timbers	Gravel Excavate	Remove existing bench pad gravel base	n/a	n/a	3	0.50	2	0.1	0%	0.1
3.3	Bench to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-11in	Pro-12in	3	varies	-1	0.0	0%	0.0
3.4	Bench to Timbers	Border Timbers Place (placeholder volume)	Place border timbers (12in tall) Placeholder volume to balance volume comps	n/a	n/a	3	-1.00	-3	-0.1	0%	-0.1
4.1	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	136	0.50	68	2.5	0%	2.5
4.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	136	varies	71	2.6	0%	2.6
4.3	Grass to Asphalt	Gravel (Path) Place	Place gravel base 9in depth, to out 6in from asphalt edge	n/a	n/a	136	-0.75	-102	-3.8	0%	-3.8
4.4	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	116	-0.25	-29	-1.1	0%	-1.1
4.5	Grass to Asphalt	Topsoil Place	Place 3in topsoil on 6in gravel edge	n/a	n/a	20	-0.25	-5	-0.2	0%	-0.2
5.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1230	0.50	615	22.8	0%	22.8
5.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1230	varies	21	0.8	0%	0.8
5.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1230	varies	-142	-5.3	0%	-5.3
5.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1230	-0.50	-615	-22.8	0%	-22.8
6.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	401	0.50	201	7.4	0%	7.4
6.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	401	varies	270	10.0	0%	10.0
6.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	401	varies	-8	-0.3	0%	-0.3
6.4	Grass to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	401	-0.58	-234	-8.7	29%	-11.1
7.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	9	0.50	5	0.2	0%	0.2
7.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	9	varies	2	0.1	0%	0.1
7.3	Grass to Timbers	Border Timbers Place (placeholder volume)	Place border timbers (12in tall) Placeholder volume to balance volume comps	n/a	n/a	9	-1.00	-9	-0.3	0%	-0.3
8.1	Grass to Wall	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	216	0.50	108	4.0	0%	4.0
8.2	Grass to Wall	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	1011.7in	216	varies	432	16.0	0%	16.0
8.3	Grass to Wall	Gravel (Wall) Place	Place 6in gravel base under wall & out 12in behind wall up to proposed grass subgrade	n/a	n/a	216	varies	-275	-10.2	0%	-10.2
8.4	Grass to Wall	Gravel (Wall) Place	Place gravel in front of wall up to play subgrade	n/a	n/a	85	-0.54	-46	-1.7	0%	-1.7
8.5	Grass to Wall	Wall Place (placeholder volume)	Place block retaining wall (placeholder volume to balance volume comps)	n/a	n/a	216	varies	-210	-7.8	0%	-7.8
8.6	Grass to Wall	Topsoil Place	Place 6in topsoil on 12in wide gravel behind retaining wall	n/a	n/a	85	-0.50	-43	-1.6	0%	-1.6
8.7	Grass to Wall	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	43	-0.58	-25	-0.9	29%	-1.2
8.8	Grass to Wall	placeholder volume	Placeholder to reconcile retaining wall volumes with overall DTM difference (proposed DTM doesn't fully model wall)	n/a	n/a	216	varies	80	3.0	0%	3.0
9.1	Play Surface to Grass	Play Surface Excavate	Remove est. 17in pea gravel	n/a	n/a	762	1.42	1080	40.0	0%	40.0
9.2	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	762	varies	-936	-34.7	0%	-34.7
9.3	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	762	-0.50	-381	-14.1	0%	-14.1
10.1	Play Surface to Play Surface	Play Surface Excavate	Remove est. 17in pea gravel	n/a	n/a	2071	1.42	2934	108.7	0%	108.7
10.2	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-7in	2071	varies	28	1.0	0%	1.0
10.3	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-7in	2071	varies	-1372	-50.8	0%	-50.8
10.4	Play Surface to Play Surface	Play Surface Place	Place 9in uncompacted rubber chips (expected to compact to 7in)	n/a	n/a	2071	-0.58	-1208	-44.7	29%	-57.5
11.1	Play Surface to Timbers	Play Surface Excavate	Remove est. 17in pea gravel	n/a	n/a	27	1.42	38	1.4	0%	1.4
11.2	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	27	varies	-22	-0.8	0%	-0.8
11.3	Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place border timbers (12in tall) Placeholder volume to balance volume comps	n/a	n/a	27	-1.00	-27	-1.0	0%	-1.0
12.1	Adjust	Subsoil Excavate	Drain tile - approx 165 ft x 1ft wide x average 1.6 ft deep	n/a	n/a	165	1.60	264	9.8	0%	9.8
12.2	Adjust	Drain Tile Stone Place	Drain tile stone - approx 137 ft x 1ft wide x average 1.6 ft deep (approx - includes volume of pipe itself)	n/a	n/a	137	-1.60	-219	-8.1	0%	-8.1
12.3	Adjust	Subsoil Place	Drain tile subsoil replacement outside playground - approx 28 ft x 1ft wide x average 1.6 ft deep (approx - includes volume of pipe itself)	n/a	n/a	28	-1.60	-45	-1.7	0%	-1.7
13.1	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	18	-0.29	-5	-0.2	0%	-0.2
13.2	Adjust	Subsoil Excavate	Increase subsoil excavate by 1/2 of asphalt ramp gravel base volume = 1/2 x (2 ft x 9 ft x 7 in)	n/a	n/a	18	0.29	5	0.2	0%	0.2

Waltham Park Playground - Earthwork Quantities			
Date Revised:		1/16/2015	
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 Factored (Uncompacted) Volume (cu yd)		Check / Notes
(placeholder volume)	3.0		
Asphalt Place	-1.1		Asphalt 116 sq ft x 3in = 1.1 cu yd x 2.16 ton/cu yd = 2.4 ton
Border Timbers Place (placeholder volume)	-1.4		
Concrete Excavate	0.5		
Gravel (Path) Place	-3.8		Gravel with fines = 1.9-2.0 ton/cu yd compacted in place
Gravel (Wall) Place	-11.9		
Gravel Excavate	0.6		
Play Surface Excavate	150.1		
Play Surface Place	-70.4		Play surface 2532 sq ft (excl asph ramp) x 9in uncompacted rubber chips = 70 cu yd
Subsoil Excavate	40.5		
Subsoil Place	-94.3		
Topsoil Excavate	36.9		
Topsoil Place	-39.0		
Wall Place (placeholder volume)	-7.8		
Drain Tile Stone Place	-8.1		
Grand Total	-6.2		
Net subsoil	-54	cu yd	
Net topsoil	-2	cu yd	
Net topsoil & subsoil	-56	cu yd	
Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	77	CY	= Subsoil Excavate + Topsoil Excavate
20103 - Excavation Cut - Pea Gravel	150	CY	= Pea Gravel Excavate
20201 Fill	-54	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	-233	SY	= Topsoil Place / .167 (depth)
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	-7.6	TONS	= Gravel Place * 2.0 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	-2.3	TONS	= Asphalt Place * 2.16 ton/cubic yard
90004 - Playground Surfacing - Rubber Mulch	-77	CY	= Play Surface Place*1.10

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PROJECT:

*2015 PARK
 PLAYGROUNDS-
 GROUP 1*

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ITEM	DATE
Drawn by: SCL	01/21/2015

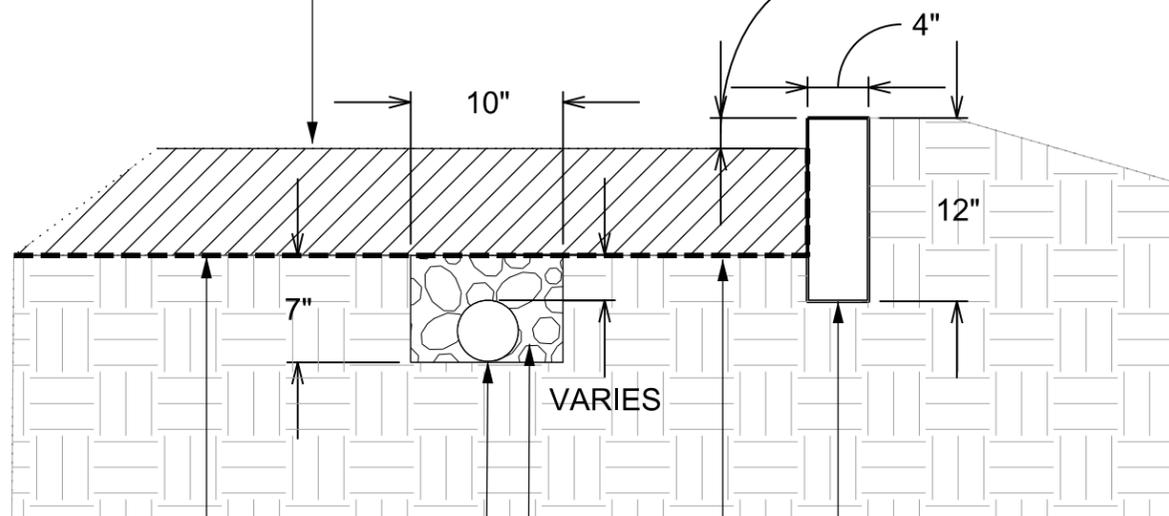
PUBLIC WORKS PROJECT #:
7473

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

SHEET NUMBER:
5.1

PLAYGROUND SURFACING

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



10"

12"

7"

VARIES

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. 7" FROM PLAYGROUND SURFACE FINISHED
 GRADE FOR SHREDDED RUBBER MULCH

PROPOSED PLAYGROUND BORDER
 TIMBERS PER MANUFACTURER'S
 INSTALLATION SPECIFICATIONS

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PROJECT:

*2015 PARK
 PLAYGROUNDS-
 GROUP 1*

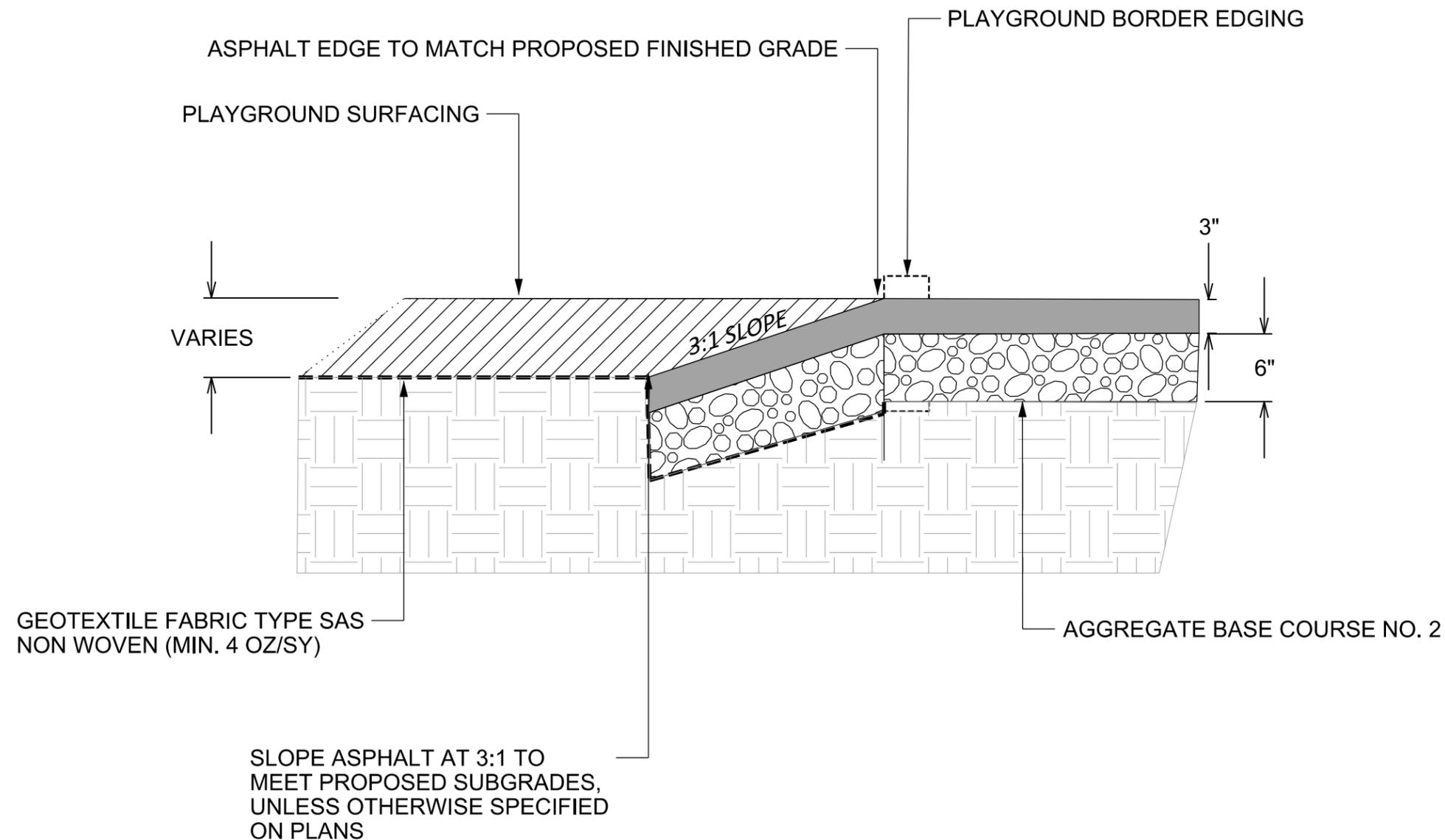
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ITEM	DATE
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PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
**ASPHALT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
5.2



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PROJECT:

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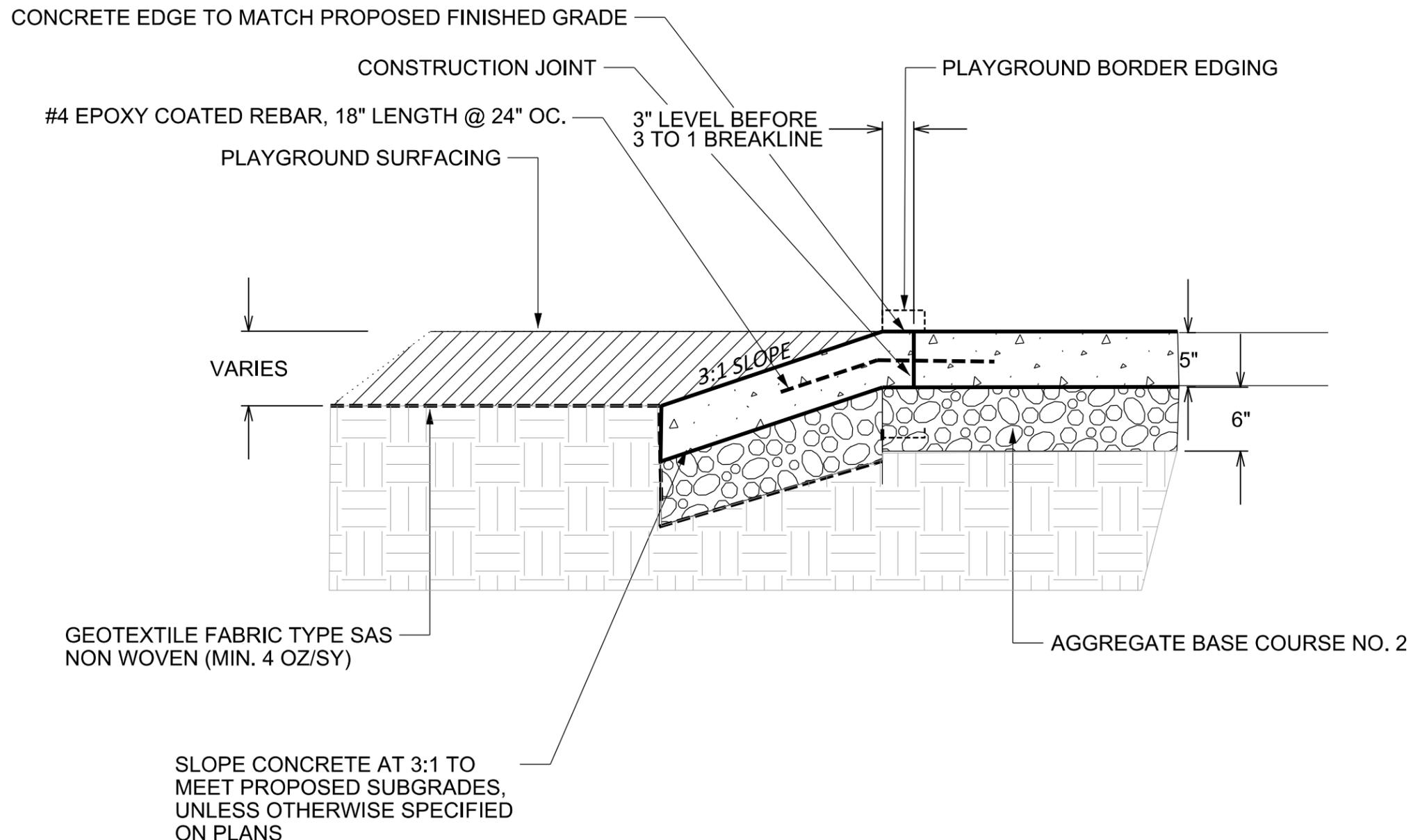
ITEM	DATE
Drawn by: SCL	01/21/2015

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
**CONCRETE EDGE
 AT PLAYGROUND**

SHEET NUMBER:

5.3



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PROJECT:

*2015 PARK
 PLAYGROUNDS-
 GROUP 1*

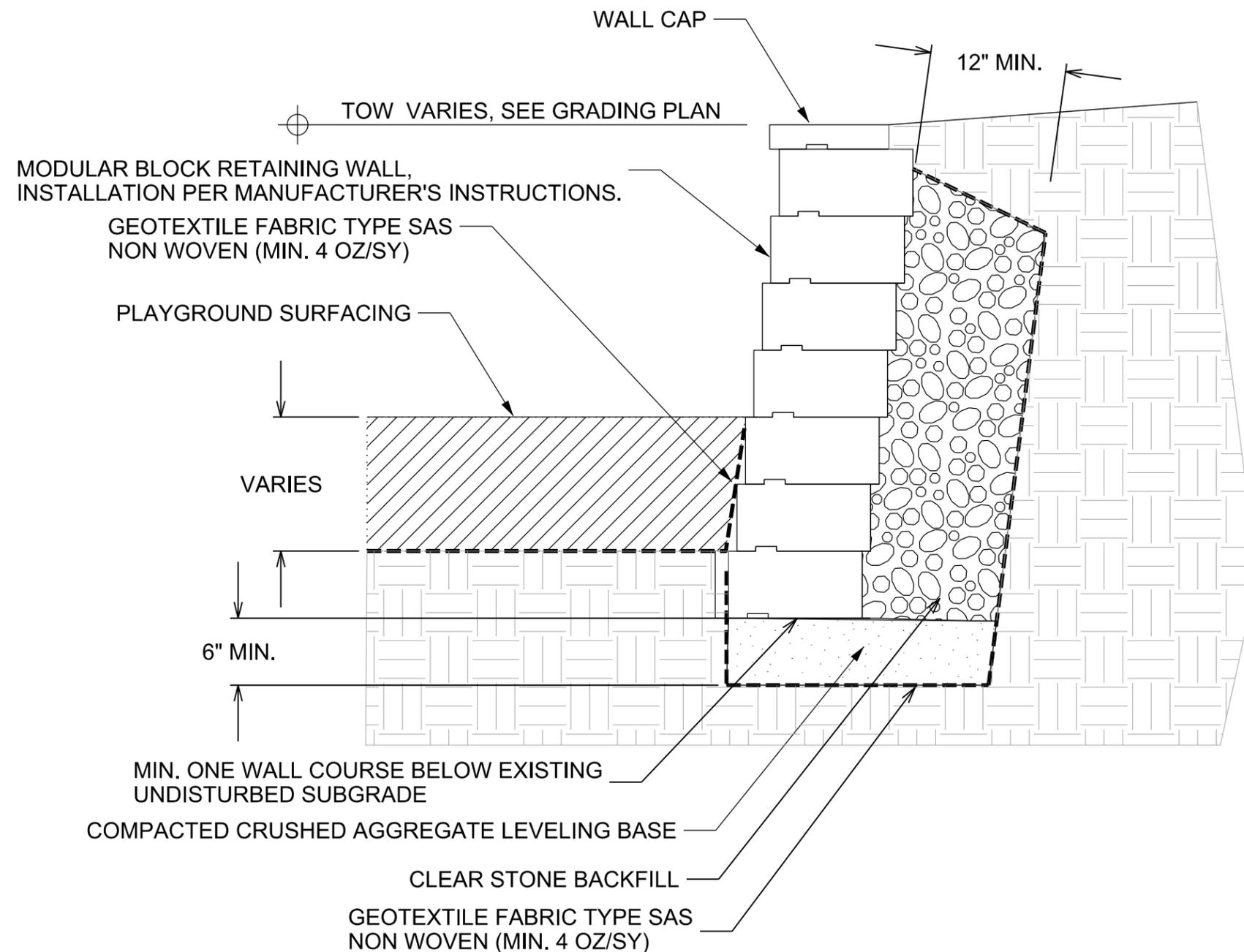
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ITEM	DATE
Drawn by: SCL	01/21/2015

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
**MODULAR BLOCK
 RETAINING WALL**

SHEET NUMBER:
5.4





8/10/00

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Department of Public Works
PARKS DIVISION

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**MADISON
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PROJECT:

2015 PARK
PLAYGROUNDS-
GROUP 1

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ITEM DATE
Drawn by: SCL 01/21/2015

PUBLIC WORKS PROJECT #:
7473

SHEET TITLE:
BASKET BALL HOOP

SHEET NUMBER:

5.5

PARTS LIST		
PART NO.	DESCRIPTION	QTY
030-0640	6 Ft. Offset BB Post	1
036-0165	Hdw Pkg Fan Shaped BB	1
Package Consists of:		
001-0059	5/16" x 3/4" Hex Head Cap Screw	4
001-0060	7/16" x 1 1/4" Carriage Bolt	4
002-0003	5/16" Lock Nut	4
002-0005	7/16" Lock Nut	4
021-0006	5/16" Lock Washer	4
021-0027	7/16" Lock Washer	4
046-0022	Fan Shaped BB	1
046-0039	Dbl Rim Goal w/Chn Net (1)	1

SPECIFICATIONS

BACKBOARD: Fan shaped, regulation size 38" x 54" 10 gauge steel, perimeter reinforced with 1/4" x 1 1/4" steel, three vertical 10 gauge channels and four 10 gauge angle braces reinforce the back. All welded construction. Backboard is primed and finished with a white baked-on powder coat.

BENT SUPPORT PIPE: 5 9/16" O.D. Sch. 40 galvanized pipe with a welded 1/4" x 6" x 9" steel attachment plate and a welded 1 1/2 x 1 1/2 angle anchor piece. Bent 90 degrees to provide a 6' offset.

GOAL: 18" diameter regulation size, 5/8" round steel, orange baked-on powder coat, chain net.

FASTENERS: Zinc Plated.

SHIPPING WEIGHT: 436 lbs.

INSTALLATION INSTRUCTIONS

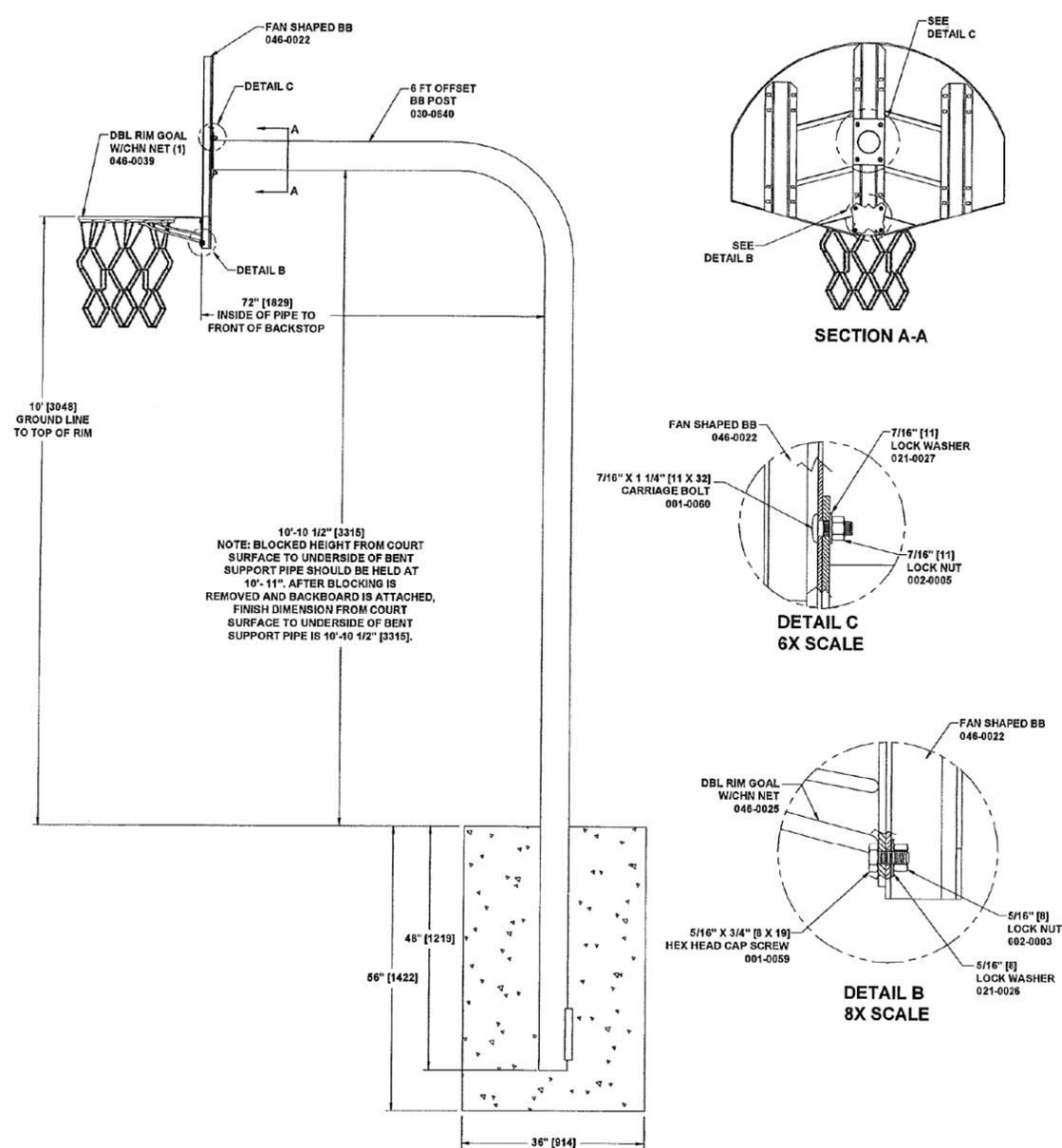
1. Dig footings as shown. NOTE: Hole size may vary depending on local soil and weather conditions.
2. Place bent support pipe into footing to ground line marked on pipe. Block and plumb square to court. **NOTE:** Blocked height from court surface to underside of bent support pipe should be held at 10'-11". See drawing. Adjust if necessary.
3. Pour concrete and let set for 2 to 3 days.

AFTER CONCRETE HAS SET:

5. Raise backboard to position. Fasten bent support pipe to center hole position on backboard using 7/16" x 1 1/4" carriage bolts, 7/16" lock washers and 7/16" lock nuts. See SECTION A-A and DETAIL C.
6. Fasten goal to backboard using 5/16" x 3/4" hex head cap screws, 5/16" lock nuts and 5/16" lock washers. See SECTION A-A and DETAIL B. Hang net.
7. Tighten all hardware.

NOTE: BLOCKED HEIGHT FROM COURT SURFACE TO UNDERSIDE OF BENT SUPPORT PIPE SHOULD BE HELD AT 10'-11". SEE DRAWING. AFTER BLOCKING IS REMOVED AND BACKBOARD IS ATTACHED, FINISH DIMENSION FROM COURT SURFACE TO UNDERSIDE OF BENT SUPPORT PIPE IS 10'-10 1/2".

590-0057.doc PCN: 00-0082 REV: 02 8/10/00



590-0057
FAN BB DBL RIM CHN 6' (1)

BCI Burke Company, LLC P.O. Box 549 Fond du Lac, Wisconsin 54936-0549 Telephone 1-800-356-2070

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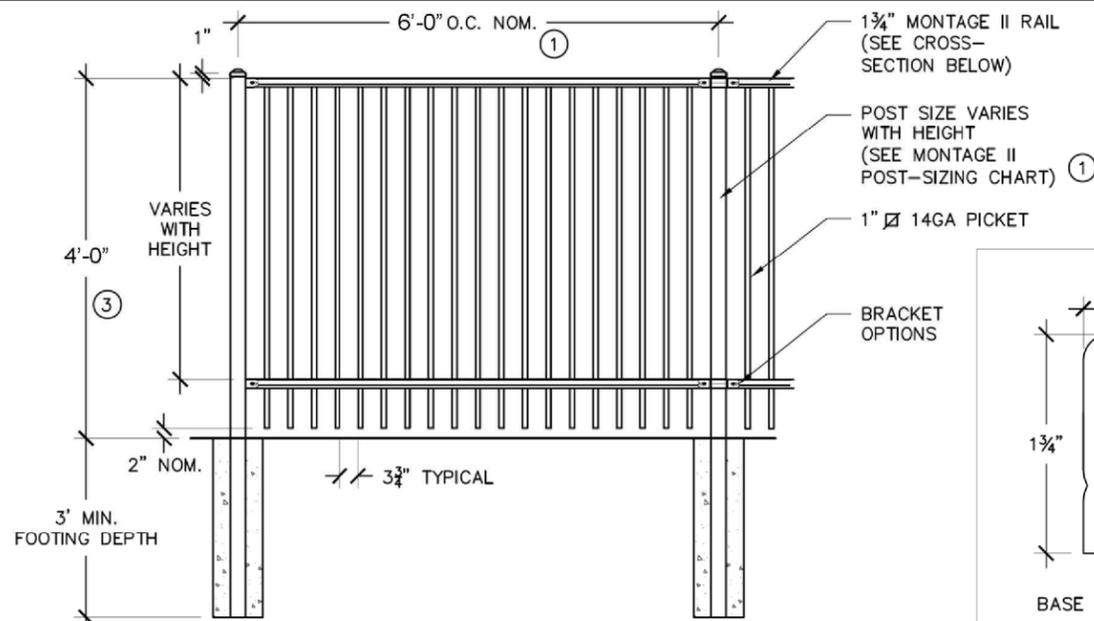
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PUBLIC WORKS PROJECT #:
7473

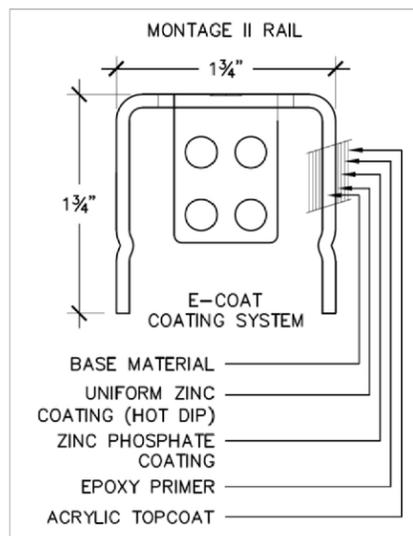
SHEET TITLE:
**DECORATIVE
 FENCING**

SHEET NUMBER:

5.6

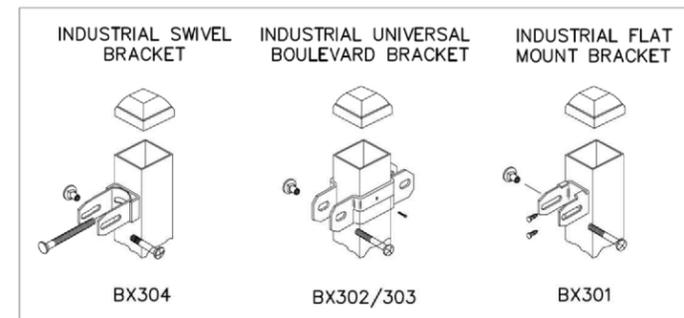
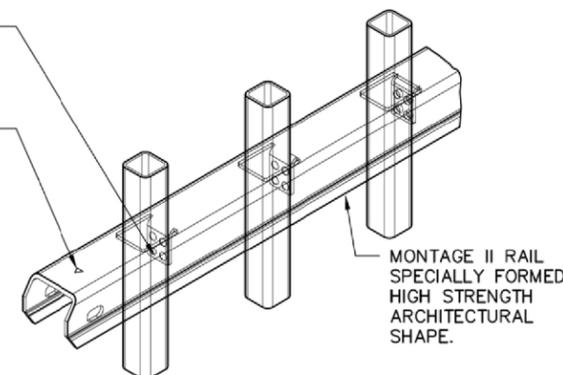


- NOTES:
- 1.) POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE II SPECIFICATIONS FOR POST SIZING CHART AND DIMENSIONS.
 - 2.) AVAILABLE IN FLUSH BOTTOM.
 - 3.) VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.



RAKING DIRECTIONAL ARROW WELDED PANEL CAN BE RAKED 30" OVER 8' WITH ARROW POINTING DOWN GRADE.

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- NOTES:
- 1.) POST SIZE DEPENDS ON FENCE HEIGHT, WEIGHT AND WIND LOADS. SEE MONTAGE II SPECIFICATIONS FOR POST SIZING CHART.
 - 2.) SEE AMERISTAR GATE TABLE FOR STANDARD OUT TO OUTS. CUSTOM GATE OPENINGS AVAILABLE FOR SPECIAL OUT TO OUT/LEAF WIDTHS.
 - 3.) ADDITIONAL STYLES OF GATE HARDWARE ARE AVAILABLE ON REQUEST THIS COULD CHANGE THE LATCH & HINGE CLEARANCE.
 - 4.) VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.
 - 5.) ALL GATES SHALL BE EQUIPPED WITH A SELF-CLOSING, LOCKABLE CLOSURE MECHANISM AT A HEIGHT OF AT LEAST 36 INCHES FROM THE BOTTOM OF THE GATE.

