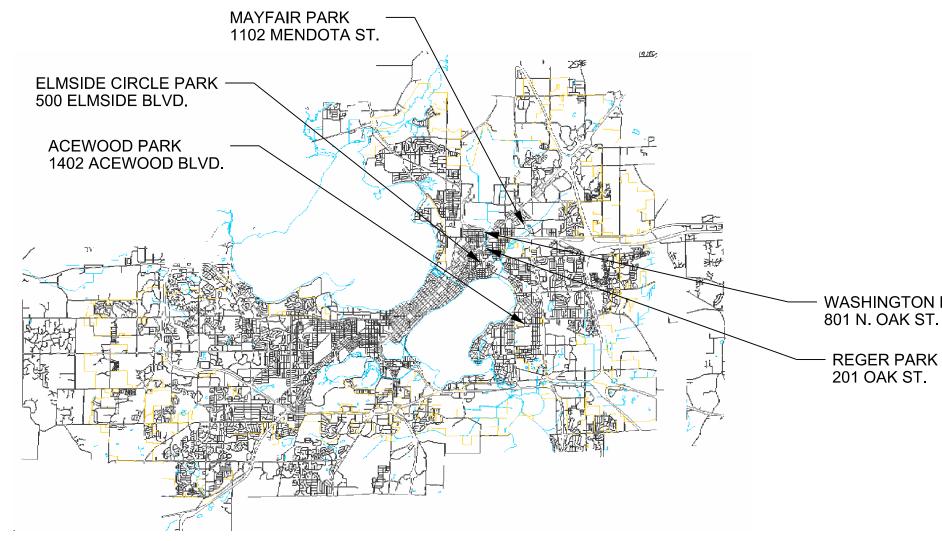
2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2 CONTRACT 8172 ACEWOOD PARK - MUNIS # 17370 -51 -130 ELMSIDE CIRCLE PARK - MUNIS # 17371 -51 -130 MAYFAIR PARK - MUNIS # 17373 -51 -130 REGER PARK - MUNIS # 17369 -51 -130

WASHINGTON MANOR PARK - MUNIS # 17506 -51 -130





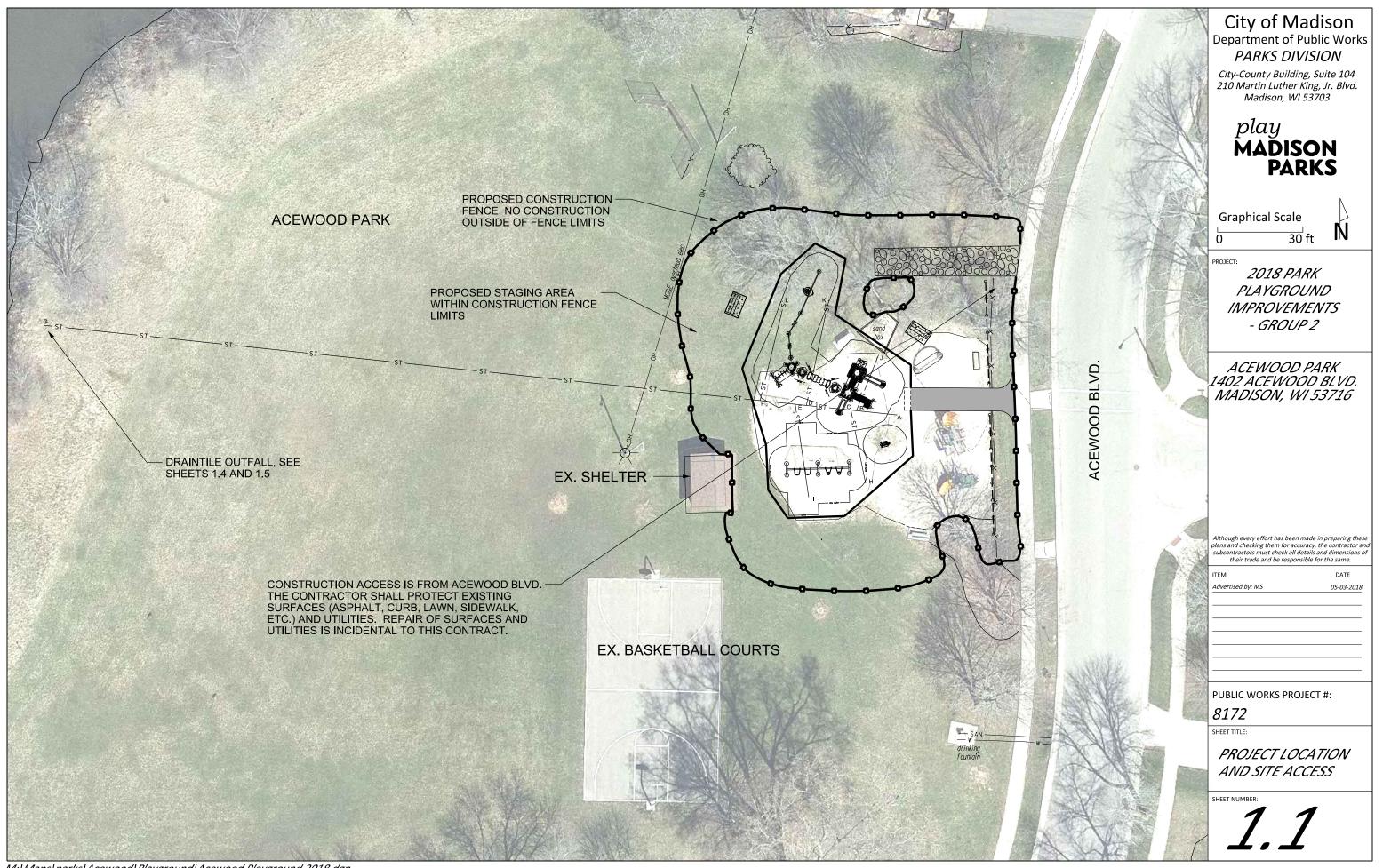
WASHINGTON MANOR PARK

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2 CONTRACT 8172

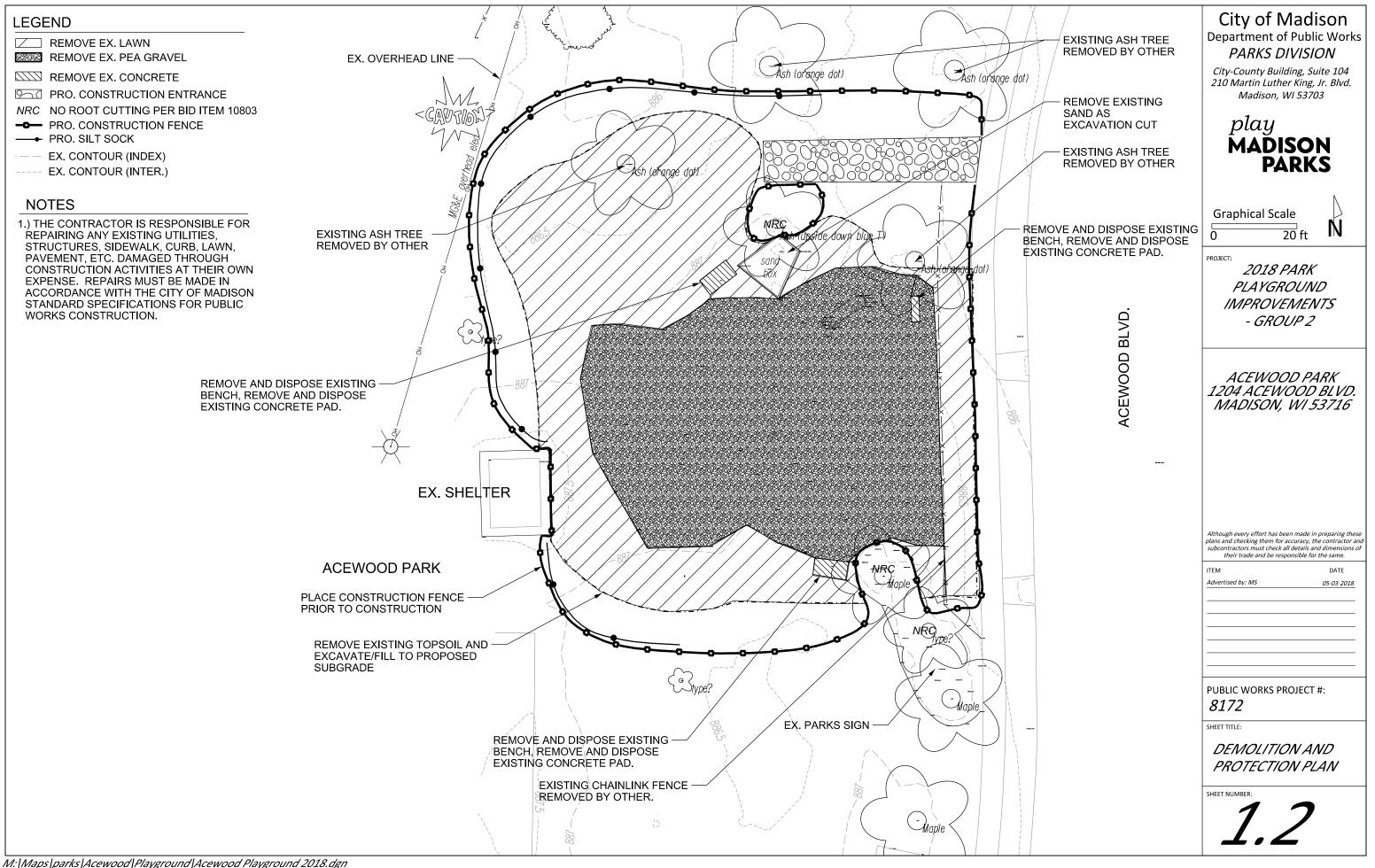
SHEET INDEX:

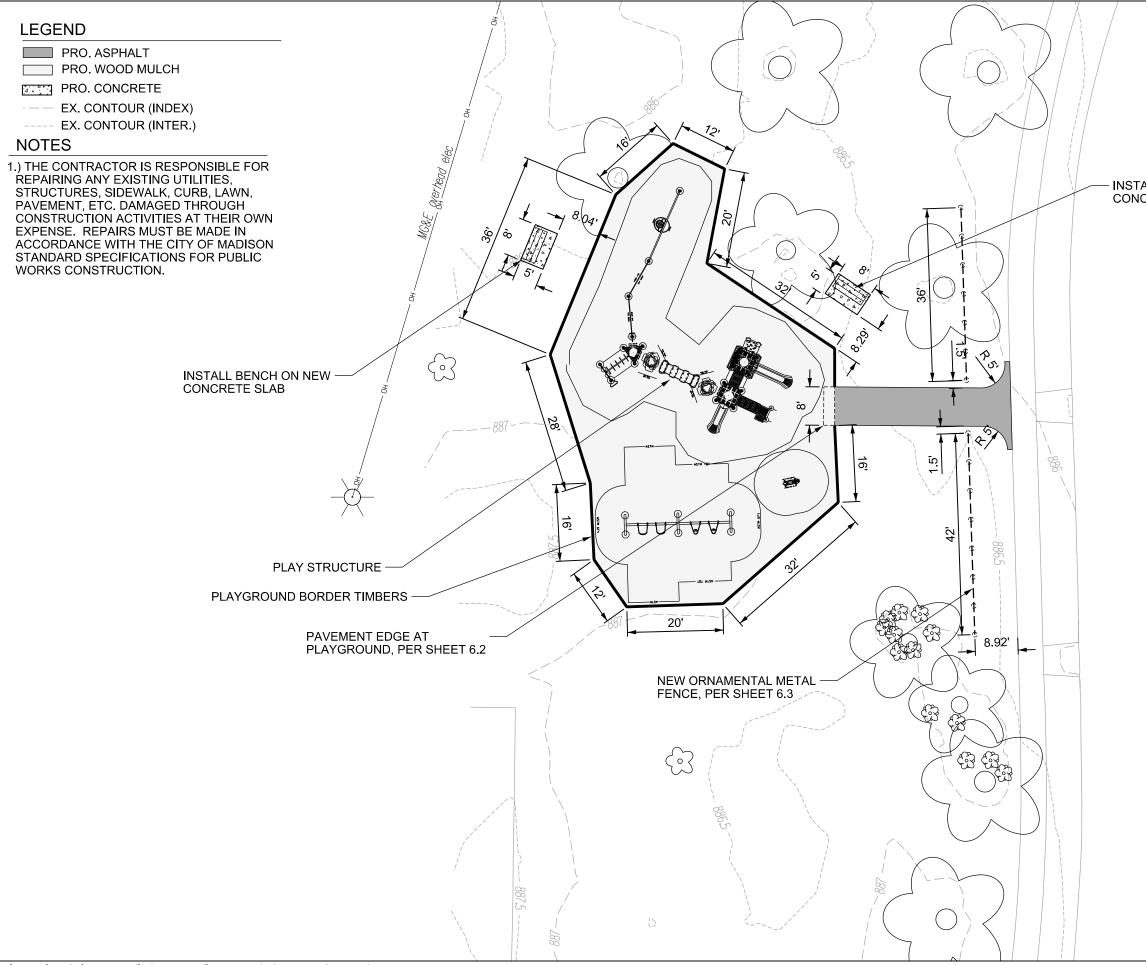
Acewood Park-	Project Location and Site Access			Access	4.1	Reger Park-	Project Locat	ion and Sit	e Access	
Acewood Park-	Demolition and Protection Plan			4.2	Reger Park-	Demolition and Protection Pla				
Acewood Park-	Site	Plan			4.3	Reger Park-	Site Plan			
Acewood Park-	Grad	ding and Ero	osion Contr	ol Plan	4.4	Reger Park-	Grading and I	Erosion Cor	ntrol Plan	
Acewood Park-	Drai	n Tile Scheo	dules		4.5	Reger Park-	Drain Tile Sch	nedules		
Acewood Park-	Desi	ign Comput	ations		4.6	Reger Park-	Design Comp	utations		
Elmside Circle Pa	ark-	Project Lo	cation and	Site Access	5.1	Washington	Manor Park-	Project Lo	cation and s	Site
Elmside Circle Pa	ark-	Demolitior	n and Prote	ction Plan	5.2	Washington	Manor Park-	Demolitio	n and Prote	ctio
Elmside Circle Pa	ark-	Site Plan			5.3	Washington	Manor Park-	Site Plan		
Elmside Circle Pa	ark-	Grading an	d Erosion (Control Plar	5.4	Washington	Manor Park-	Grading ar	nd Erosion C	Con
Elmside Circle Pa	ark-	Drain Tile S	Schedules		5.5	Washington	Manor Park-	Drain Tile	Schedules	
Elmside Circle Pa	ark-	Design Cor	mputations		5.6	Washington	Manor Park-	Design Co	mputations	
Mayfair Park-	Proj	ect Locatio	n and Site /	Access	6.1	Typical Play	ground Surfaci	ing with Un	derdrain	
Mayfair Park-	Dem	nolition and	Protection	Plan	6.2	Pavement E	dge at Playgro	und		
Mayfair Park-	Site	Plan			6.3	Ornamental	Metal Fencing	Ş		
Mayfair Park-	Grad	ding and Ero	osion Contr	ol Plan						
Mayfair Park-	Drai	n Tile Scheo	dules							
Mayfair Park-	Desi	ign Comput	ations							
	Acewood Park- Acewood Park- Acewood Park- Acewood Park- Acewood Park- Acewood Park- Elmside Circle Pa Elmside Circle Pa Elmside Circle Pa Elmside Circle Pa Elmside Circle Pa Elmside Circle Pa Kayfair Park- Mayfair Park- Mayfair Park- Mayfair Park- Mayfair Park- Mayfair Park-	Acewood Park-DenAcewood Park-SiteAcewood Park-DraiAcewood Park-DraiAcewood Park-DesiAcewood Park-DesiAcewood Park-SiteElmside Circle Park-Elmside Circle Park-Elmside Circle Park-Elmside Circle Park-Elmside Circle Park-SiteMayfair Park-DenMayfair Park-SiteMayfair Park-SiteMayfair Park-DenMayfair Park-DenMayfair Park-DenMayfair Park-DenMayfair Park-DenMayfair Park-Den	Acewood Park- Acewood Park-Demolition and Site PlanAcewood Park- Acewood Park-Grading and Erd Drain Tile Sched Drain ComputAcewood Park- Acewood Park-Design Comput DemolitionAcewood Park- Acewood Park-Project Loc Site PlanElmside Circle Park- Elmside Circle Park- Elmside Circle Park- Drain Tile Sched Drain Tile Sched Drain Tile Sched Drain Tile Sched 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Computations4.6Berlin Side Circle Park-Project Location and Site Access5.1Elmside Circle Park-Demolition and Protection Plan5.2Elmside Circle Park-Site Plan5.3Elmside Circle Park-Grading and Erosion Control Plar5.4Elmside Circle Park-Design Computations5.6Elmside Circle Park-Drain Tile Schedules5.6Mayfair Park-Project Location and Site Access6.1Mayfair Park-Site Plan6.2Mayfair Park-Grading and Erosion Control Plan6.2Mayfair Park-Deri Tile SchedulesFlanMayfair Park-Grading and Erosion Control Plan6.3Mayfair Park-Dian Tile SchedulesFlanMayfair Park-Grading and Erosion Control Plan6.3Mayfair Park-Dian Tile SchedulesFlanMayfair Park-Dian Tile SchedulesFlanMayfair Park-Dian Tile SchedulesFlanMayfair Park-Dian Tile SchedulesFlan	Acewood Park- Acewood Park-Demolition and Protection Plan4.2Reger Park-Acewood Park- Acewood Park-Grading and Erosion Control Plan4.4Reger Park-Acewood Park- Acewood Park-Drain Tile Schedules4.5Reger Park-Acewood Park- Acewood Park-Drain Tile Schedules4.6Reger 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and Erosion Control Plan6.3Ornamental Metal FencingMayfair Park- Mayfair Park-Site Plan6.3Ornamental Metal FencingMayfair Park-Mayfair Park- Mayfair Park-Site Plan6.4SiteSiteMayfair Park-Mayfair Park- Mayfair Park-	Acewood Park- Demolition and Protection Plan 4.2 Reger Park- Demolition and Protection Plan Acewood Park- Site Plan 4.3 Reger Park- Site Plan Site Plan Acewood Park- Grading and Erosion Control Plan 4.4 Reger Park- Grading and Erosion Control Plan Acewood Park- Drain Tile Schedules 4.5 Reger Park- Drain Tile Schedules Acewood Park- Acewood Park- Design Computations 4.6 Reger Park- Drain Tile Schedules Design Computations Acewood Park- Design Computations 4.6 Reger Park- Design Computations Project Location and Protection Plan Acewood Park- Design Computations 4.6 Reger Park- Design Computations Project Location and Protection Plan Acewood Park- Project Location and Site Access 5.1 Washington Manor Park- Demolition and Protection Plan Elmside Circle Park- Site Plan 5.3 Washington Manor Park- Site Plan Site Plan Image Circle Park- Drain Tile Schedules 5.5 Washington Manor Park- Drain Tile Schedules Drain Tile Schedules Drain Tile Schedules Drain Tile Schedules </td

	City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 Play MADISON PARKS
	PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2
e Access on Plan htrol Plan	Although every effort has been made in preparing these
	plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same. ITEM DATE Advertised by: MS 05-03-2018
	PUBLIC WORKS PROJECT #: 8172 Sheet title:
	SHEET NUMBER:



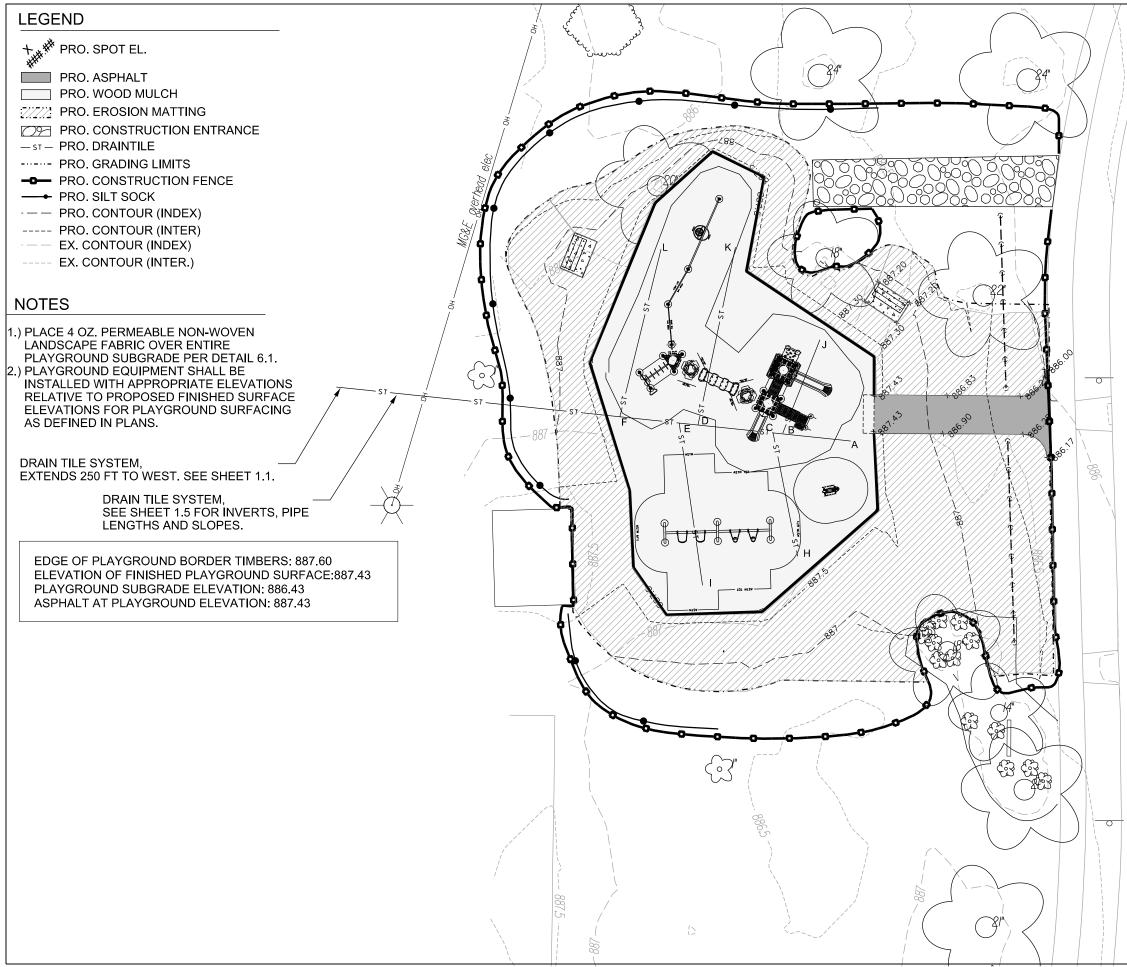
M:|Maps|parks|Acewood|Playground|Acewood Playground 2018.dgn





INSTALL BENCH ON NEW CONCRETE SLAB







	Acewood Pa	rk Playground	
Dra	in Tile Invert (F		
Point	Invert (ft)	Distance from top of timbers 887.43 (INCHES)	Ahead length
А	885.84	19.1	14.2
В	885.75	20.2	2.0
С	885.74	20.3	15.7
D	885.64	21.5	3.9
Е	885.61	21.8	12.4
F	885.53	22.8	243.1
G	883.00	53.2	0.0
Н	885.84	19.1	26.2
	885.84	19.1	34.1
J	885.84	19.1	20.9
К	885.84	19.1	37.8
L	885.84	19.1	35.9

]	Drain Tile Lengths & Slopes									
froi	from intersection to intersection									
From	То	Length (ft)	Slope (%)	Pipe type						
А	В	14.2	-0.63	Underdrain						
В	С	2.0	-0.50	Underdrain						
С	D	15.7	-0.64	Underdrain						
D	Е	3.9	-0.77	Underdrain						
E	F	12.4	-0.64	Underdrain						
F	G	253.0	-1.00	Underdrain						
Н	С	26.2	-0.38	Underdrain						
I	Е	34.1	-0.67	Underdrain						
J	В	20.9	-0.43	Underdrain						
K	D	37.8	-0.53	Underdrain						
L	F	35.9	-0.86	Underdrain						
	Total	456.1								

City of Madison Department of Public Works PARKS DIVISION

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



PROJECT:





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 Advertised by: MR DATE 05-03-2018

PUBLIC WORKS PROJECT #:

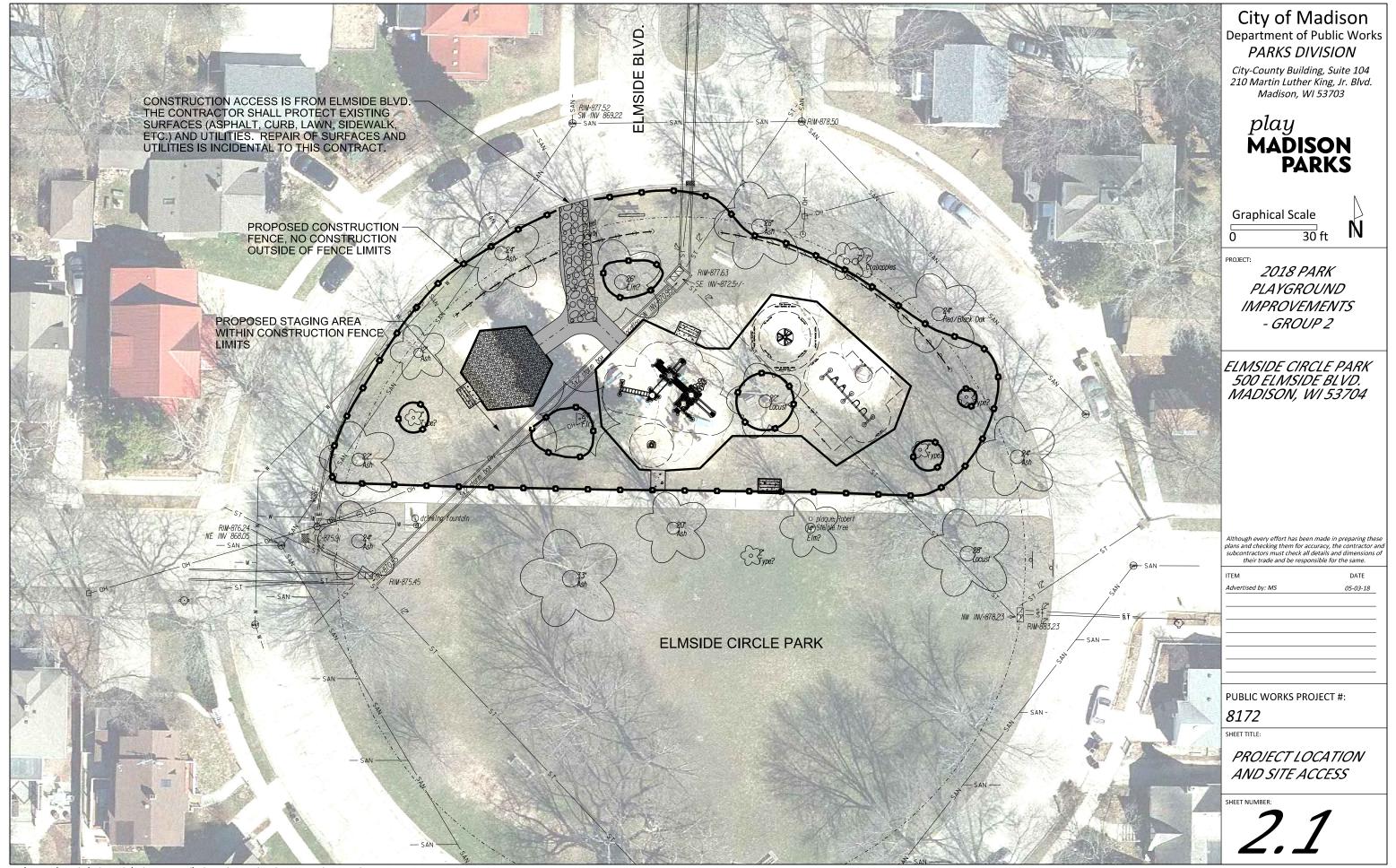
DRAIN TILE SCHEDULES

sheet NUMBER:

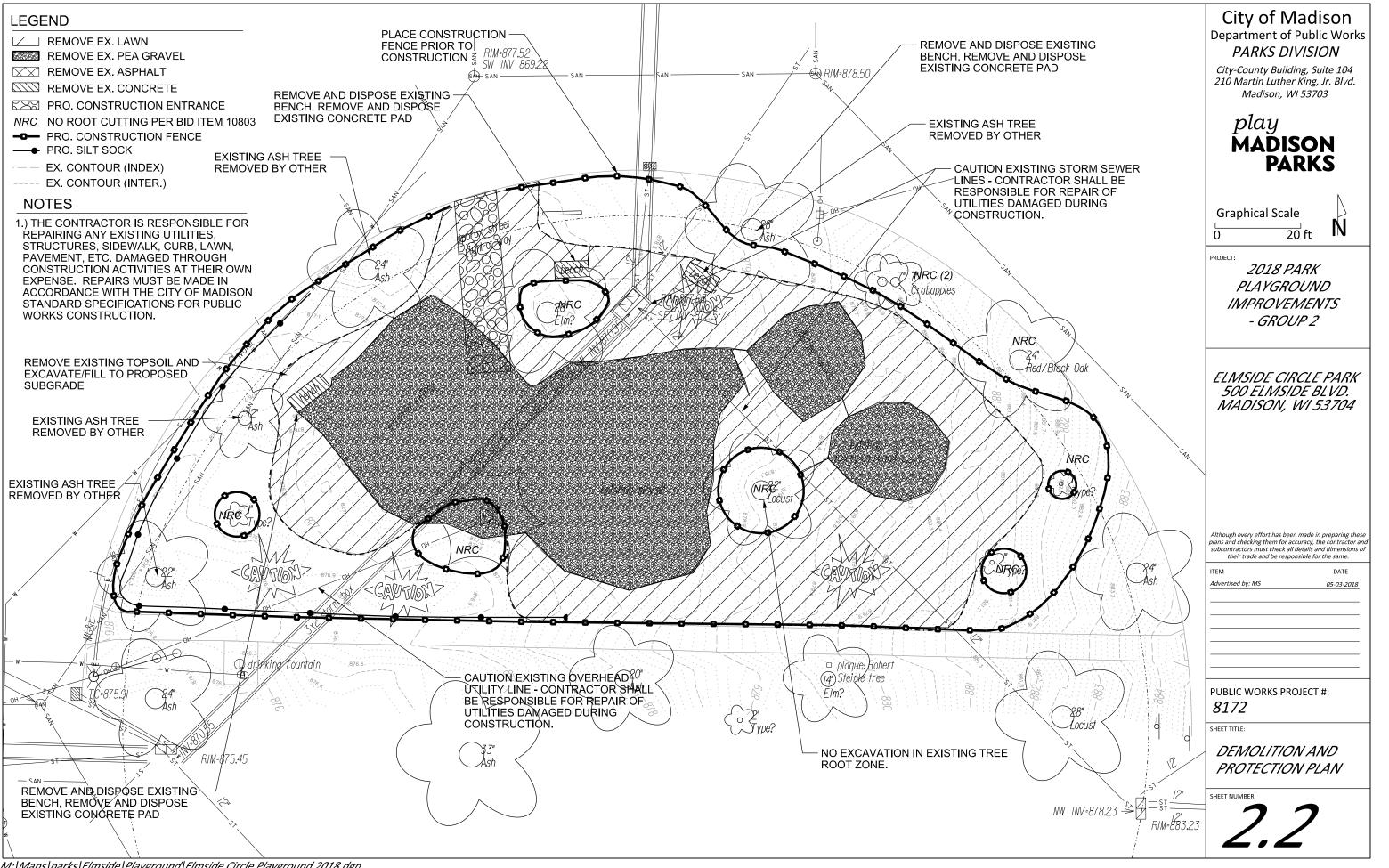
		rk Playground - Earth	work Quantities									
	Date Revised:	WI Public Works Contract 5/3/2018	8									
		0,0,2010										
	Notes:		5 11-									
		are cuts, negative volumes Il surface models (Digital Ter	are fills. rrain Models) are used for com	putations or	intended for	r actual co	Instruction					
	not an parts of a	a sanace models (Digital Tel	ram wouchs, are used for COII		intendeu 10	actual CC	and action					
	Existing											
	Proposed Proposed											
r	FTOpOsed											
											Factored	
	1			_				Unfac-	Unfac-	Expan-	(Uncom-	
	I			From Surface	To Surface	area	depth	tored volume	tored volume	sion Factor	pacted) Volume	
Sort C	Grp	Material	Item	Model	Model	(sq ft)	(ft)	(cu ft)	(cu yd)	(%)	(cu yd)	
		Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3680		1840			68.1	
	0	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	3680	varies	25	0.9	0%	0.9	
	Grass to Grass	Subson Excavate	Fill subsoil to proposed	EX-OIII	P10-011	3000	Varies	23	0.9	070	0.8	
	Grass to Grass		subgrade	Ex-6in	Pro-6in	3680	varies	-1072	-39.7		-39.7	
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	3680	-0.50	-1840	-68.1	I 0%	-68.1	
	Play Surface to		Remove existing play surface,							1		
'	Grass	Play Surface Excavate	estimated depth 17in	n/a	n/a	1971	1.42	2792	103.4	1 0%	103.4	
I	Play Surface to		Fill subsoil to proposed							0,0		
	Grass	Subsoil Place	subgrade	Ex-17in	Pro-6in	1971	varies	-2549	-94.4	4 0%	-94.4	
F	Play Surface to		Dinas Cin tana "	- (-	- (-	(07)	0.50					
	Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1971	-0.50	-985	-36.5	5 0%	-36.5	
1	Play Surface to		Remove existing play surface,									
	Play Surface	Play Surface Excavate	estimated depth 17in	n/a	n/a	2508	1.42	3553	131.6	6 0%	131.6	
1	Play Surface to		Cut subsoil to proposed									
	Play Surface Play Surface to	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-17in	Pro-12in	2508	varies	0	0.0	0%	0.0	
'		Subsoil Place	subgrade	Ex-17in	Pro-12in	2508	varies	-1967	-72.8	3 0%	-72.8	
I	Play Surface to		Place 12in wood mulch play									
	Play Surface	Play Surface Place	surface	n/a	n/a	2508	-1.00	-2508	-92.9	0%	-756.0	Acewood Park Playground - Earthwork Quantities
	Play Surface to		Remove existing play surface,									
!	Timbers	Play Surface Excavate	estimated depth 17in	n/a	n/a	46	1.42	65	2.4	1 0%	2.4	City of Madison, WI Public Works Contract
F	Play Surface to		Cut subsoil to proposed									Date Revised: 5/3/2018
	Timbers	Subsoil Excavate	subgrade	Ex-17in	Pro-12in	46	varies	0	0.0	0%	0.0	
1	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	46	varies	-42	-1.6	5 0%	1.6	Dervied from more detailed spreadsheet available from Parks Div
	TITIDETS	Subsoli Flace	Place playground border	EX-1710	FI0-12III	40	Valies	-42	-1.0	5 0%	-1.0	
1	Play Surface to	Border Timbers Place	timbers (placeholder volume									Computation Summary
	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	46	-1.00	-46	-1.7	7 0%	-23.4	
	Grass to Asphal	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	104	0.50	52	1.9	0%	1.9	Positive volumes are cuts (material available), negative volumes are fills (material nee
	Grass to Asphalt		Cut subsoil to proposed	n/a	ii/a	104	0.50	52	1.5	070	1.3	
c	Grass to Asphalt	subsoil Excavate	subgrade	Ex-6in	Pro-12in	104	varies	54	2.0	0%	2.0	
			Fill subsoil to proposed									Row Labels Sum of Unfac-tored volume (cu yd)
C	Grass to Asphalt	Gravel (for Pavement)	subgrade Place 9in gravel base out to	Ex-6in	Pro-12in	104	varies	0	0.0	0%	0.0	Asphalt Place -3.3
0	Grass to Asphalt		6in from pavement edge	n/a	n/a	104	-0.75	-78	-2.9	0%	-2.9	-3.3 -3.3
												Croupl (for Poynment) Place
C	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	104	-0.25	-26	-1.0	0%	-1.0	
	Cross to Asphal	Topool Diogo	Place 3in topsoil over 6in	2/0	n/2		-0.25	0	0.0	004		Play Surface Excavate 250.6
	Grass to Asphalt Grass to		wide gravel edge	n/a	n/a	0	-0.25	0	0.0	0%	0.0	Play Surface Place -135.6
	Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	44	0.50	22	0.8	3 0%	0.8	Subsoil Excavate 3.9
	Grass to		Fill subsoil to proposed									Subsoil Place -225.9
	Timbers Grass to	Subsoil Place	subgrade Cut subsoil to proposed	Ex-6in	Pro-12in	44	varies	2	0.1	I 0%	0.1	Topsoil Excavate 92.2
	Timbers	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	44	varies	-14	-0.5	5 0%	-0.5	Topsoil Place -104.6
			Place playground border									
	Grass to	Border Timbers Place	timbers (placeholder volume									Asphalt Excavate 0.0
	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	44	-1.00	-44	-1.6	6 0%	-1.6	Grand Total -135.9
	Play Surface to		Remove existing play surface,									Reorganized into bid table items
	Asphalt	Play Surface Excavate	estimated depth 17in	n/a	n/a	251	1.42	356	13.2	2 0%	13.2	
F	Play Surface to		Cut subsoil to proposed									Bid Item Quantity
	Asphalt Play Surface to	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-17n	Pro-12in	251	varies	0	0.0	0%	0.0	
'	Asphalt	Subsoil Place	subgrade	Ex-17in	Pro-12in	251	varies	-211	-7.8	3 0%	-7.8	20101 Excavation Cut 343
1		Gravel (for Pavement)	Place 9in gravel base out to									20104 Evention Out Des Orevel
	Asphalt	Place	6in from pavement edge	n/a	n/a	251	-0.75	-189	-7.0	0%	-7.0	
1	Play Surface to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/2	251	-0.25	-63	-2.3	3 0%	2.2	20201 Fill 222
	Play Surface to		Place 3in topsoil over 6in	n/a	n/a	201	-0.25	-03	-2.3	0%	-2.3	20221 1005011 021
		Topsoil Place	wide gravel edge	n/a	n/a	0	-0.25	0	0.0	0%	0.0	40102 Crushed Aggregate Base Course
												Gradation No. 2 & 3
A	Asphalt to Grass	Asphalt Excavate	Excavate 12in asphalt	n/a	n/a		1.00	0	0.0	0%	0.0	10.0
	Asphalt to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-12in	Pro-6in		varies		0.0	0%		10201 3" Donth HMA Bayoment Type E 0.2
	, aprianto Grass		Fill subsoil to proposed		10-011		varies		0.0	0%		40201 3" Depth HMA Pavement Type E-0.3 6.7
F	Asphalt to Grass	Subsoil Place	subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0.0	
												Mulch 152
	Asphalt to Grass	Iopsoil Place	Place 6in topsoil	n/a	n/a		-0.50	0	0.0	0%	0.0	
A	Grass to	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1153	0.50	577	21.4	4 0%	21.4	
A	Playsurface					1100	0.00	011	41.9	0.0	21.*	
A	Playsurface Grass to		Cut subsoil to proposed									
, A	Grass to Playsurface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1153	varies	40	1.5	5 0%	1.5	
	Grass to Playsurface Grass to		Cut subsoil to proposed		Pro-12in Pro-12in	1153		40			-9.6	

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

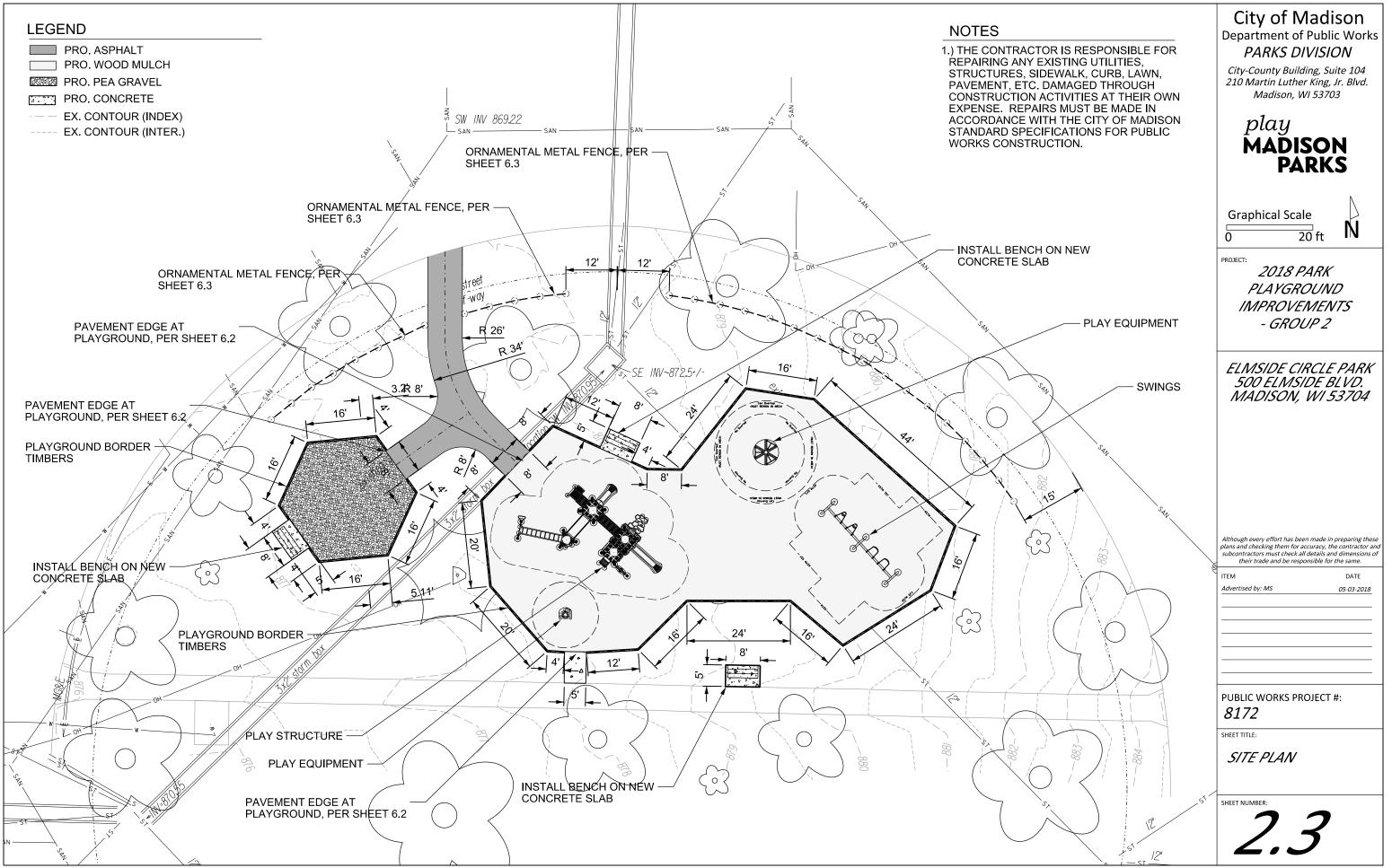
		City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 Play MADISON PARKS
		PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2
		ACEWOOD PARK 1204 ACEWOOD BLVD. MADISON, WI 53716
		Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same. ITEM DATE Advertised by: MR 05-03-2018
s	Relation to Table Above	
	=Subsoil Excavate + Topsoil Excavate = Play Surface Excavate = Subsoil Excavate - Subsoil Place = Topsoil Place/.167 (depth)	PUBLIC WORKS PROJECT #:
s s	= (Gravel Place) * 2.0 ton/cubic yard = Asphalt Place * 2.16 ton/cubic yard	SHEET TITLE: DESIGN
	= Play Surface Place*1.10	COMPUTATIONS SHEET NUMBER:
		1.6
		1



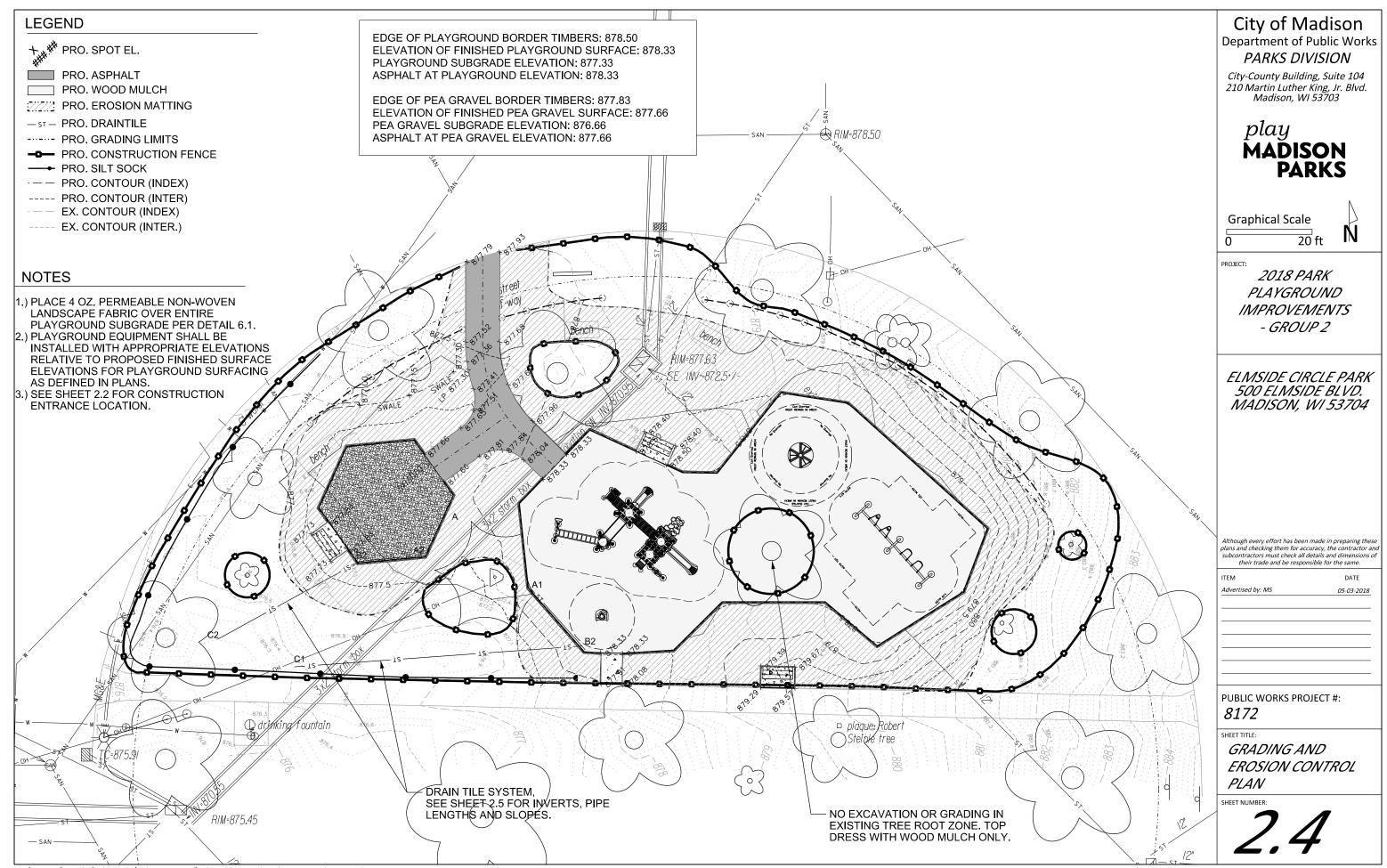
M: |Maps|parks|Elmside|Playground|Elmside Circle Playground 2018.dgn



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



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



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

						City of Madican
	Elmside Par	k Playground				City of Madison
Drai	n Tile Invert (f	lowline) Elevat	ions			Department of Public Works
		Distance from	n top of			PARKS DIVISION
Point	Invert (ft)	timber	rs			City-County Building, Suite 104
		878.50(IN	CHES)	Ahead len	gth	210 Martin Luther King, Jr. Blvd. Madison, WI 53703
A1	877.00	18.0		18.5		
B1	876.87	19.6		67.5		play
C1	876.40	25.2		0.0		MADISON
		Distance from	n top of			PARKS
Point	Invert (ft)	timber	rs			
		877.83(IN	CHES)	Ahead len	gth	
A2	876.32	18.1		15.0		
B2	876.29	26.5		37.9		
C2	876.40	25.2		0.0		
						PROJECT: 2018 PARK
	Drain Tile Le	ngths & Slope	S			PLAYGROUND
fro	om intersecti	on to intersec	tion			IMPROVEMENTS
From	То	Length (ft)	Slope (%	6) P	ipe type	
A1	B1	18.5	-0.70		nderdrain	- GROUP 2
B1	C1	67.5	-0.70		nderdrain	
DI	Total	86.0	0.70	01		
	TOtal	80.0				ELMSIDE CIRCLE PARK 500 ELMSIDE BLVD.
						MADISON, WI 53704
						101/12/13/2110, 101/35/104
		ngths & Slope				
fro	om intersecti	on to intersec	tion			
From	То	Length (ft)	Slope (%	6) P	ipe type	
A2	B2	15.0	-0.20	Ur	nderdrain	
B2	C2	37.9	0.29	Ur	nderdrain	
	Total	52.9				
						Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.
						ITEM DATE
						Advertised by: MR 05-03-2018
						PUBLIC WORKS PROJECT #: <i>8172</i>
						SHEET TITLE:
						DRAIN TILE SCHEDULES
						SHEET NUMBER:
						2.5

		k Playground				City of Madison Department of Public Worl
Dra	in Tile Invert (F	lowline) Elevat				PARKS DIVISION
		Distance from				
Point	Invert (ft)	timbe				City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd.
		878.50(IN		Ahead len	-	Madison, WI 53703
A1	877.00	18.0		18.5		7
B1	876.87	19.6 25.2		67.5		play
C1	876.40	25.2		0.0)	MADISON
		Distance fro	m ton of			PARKS
Point	Invert (ft)	timbe	-			
Unit	invert (it)	877.83(IN		Ahead ler	oth	
A2	876.32	18.1		15.0		
B2	876.29	26.5		37.9		
C2	876.40	25.2		0.0		
						PROJECT:
	Drain Tile Le	ngths & Slope	S			2018 PARK
fro		on to intersed				PLAYGROUND
From	То	Length (ft)	Slope (%	6) F	Pipe type	IMPROVEMENTS
A1	B1	18.5	-0.70		nderdrain	- GROUP 2
B1	C1	67.5	-0.70		nderdrain	
DI	Total		-0.70		luerurain	
	Iotai	86.0				ELMSIDE CIRCLE PARI
						500 ELMSIDE BLVD. MADISON, WI 53704
						WADISON, WI 55704
		ngths & Slope				
fro	om intersecti	on to intersec	tion			
From	То	Length (ft)	Slope (%	6) P	'ipe type	
A2	B2	15.0	-0.20	U	nderdrain	
B2	C2	37.9	0.29	U	nderdrain	
	Total	52.9				
		02.0				
						Although every effort has been made in preparing th plans and checking them for accuracy, the contractor subcontractors must check all details and dimension. their trade and be responsible for the same.
						ITEM DATE
						Advertised by: MR 05-03-2016
						PUBLIC WORKS PROJECT #:
						8172
						SHEET TITLE:
						DRAIN TILE SCHEDULE
						SHEET NUMBER:
						2.5

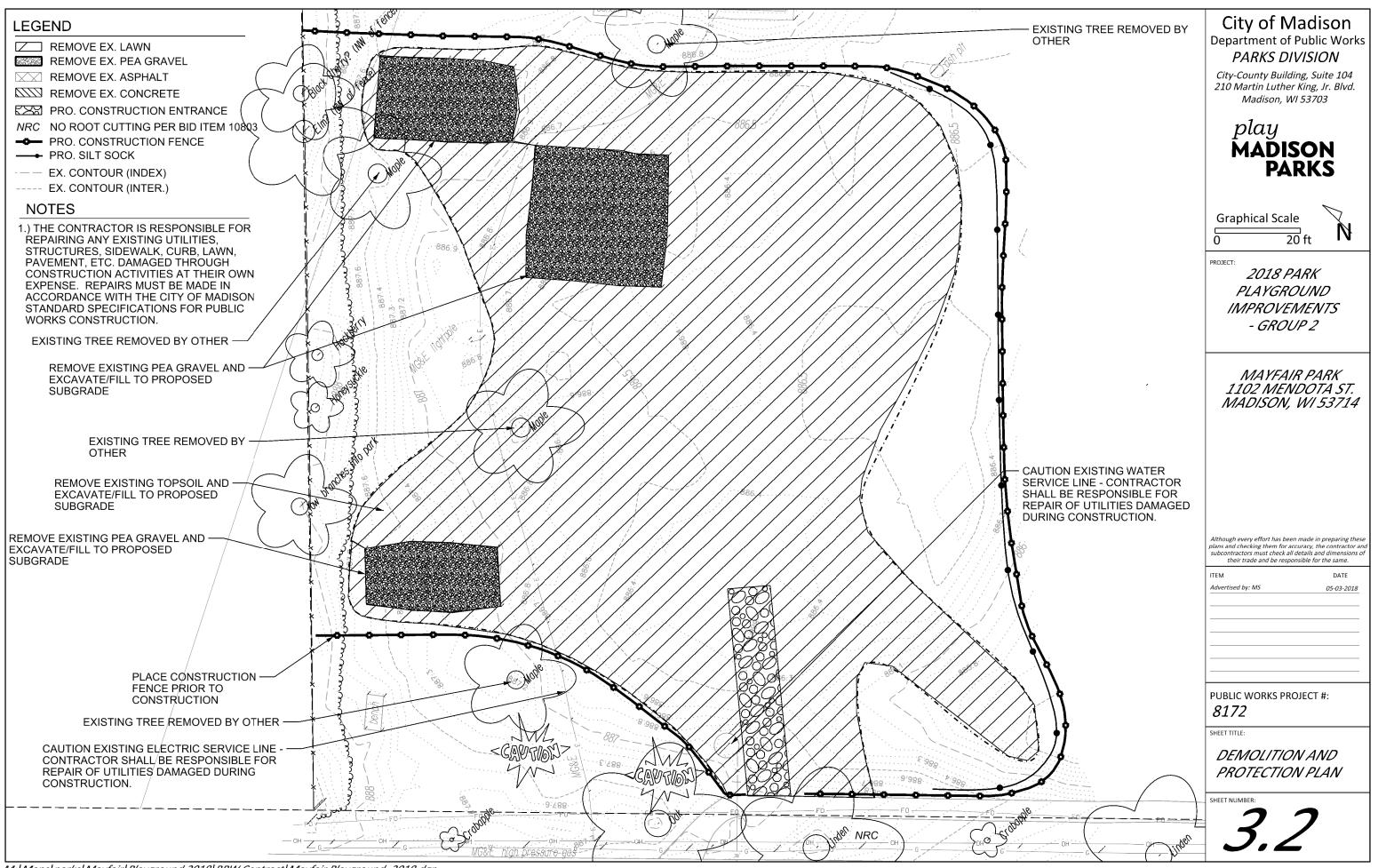
	City of Madison, Date Revised:	WI Public Works Contract 4/3/2018									
	Notes:										
	Positive volumes	are cuts, negative volumes	are fills.	4-6							
		surrace models (Digital Ter	rain Models) are used for comp	outations or i	ntended for	actual co	nstruction				
	Existing Proposed										
	Proposed										
								Unfac-	Unfac-	Expan-	Factored (Uncom
				From	То			tored	tored	sion	pacted)
ort	Grp	Material	ltem	Surface Model	Surface Model	area (sq ft)	depth (ft)	volume (cu ft)	volume (cu yd)	Factor (%)	Volume (cu yd)
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	4923	0.50	2462	91.2	0%	91.
	Grass to Grass	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-6in	Pro-6in	4923	varies	1228	45.5	0%	45.
	Grass to Grass	Subsoil Place	subgrade	Ex-6in	Pro-6in	4923	varies	-591	-21.9	0%	-21
	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	4923	-0.50	-2462	-91.2	0%	-91
	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1564	1.42	2216	82.1	0%	82
	Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	1564	varies	11	0.4	0%	0
	Play Surface to		Fill subsoil to proposed		Pro-6in			-1907	-70.6	0%	-70
	Grass Play Surface to	Subsoil Place	subgrade	Ex-17in		1564	varies				
	Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1564	-0.50	-782	-29.0	0%	-29
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface,	n/a	n/a	2672	1.42	3785	140.2	0%	140
	Play Surface to	Play Surface Excavate	estimated depth 17in Cut subsoil to proposed								140
	Play Surface Play Surface to	Subsoil Excavate	Fill subsoil to proposed	Ex-17in	Pro-12in	2672	varies	780	28.9	0%	28
	Play Surface Play Surface to	Subsoil Place	subgrade Place 12in wood mulch play	Ex-17in	Pro-12in	2672	varies	-1914	-70.9	0%	-70
		Play Surface Place	surface	n/a	n/a	2672	-1.00	-2672	-99.0	0%	-99.
	Play Surface to	Discourte 5	Remove existing play surface,								
	Timbers Play Surface to	Play Surface Excavate	estimated depth 17in Cut subsoil to proposed	n/a	n/a	67	1.42	95	3.5	0%	3.
	Timbers Play Surface to	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-17in	Pro-12in	67	varies	14	0.5	0%	0
	Timbers	Subsoil Place	subgrade Place playground border	Ex-17in	Pro-12in	67	varies	-49	-1.8	0%	-1
		Border Timbers Place	timbers (placeholder volume		- /-			-			
	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	67	-1.00	-67	-2.5	0%	-2
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	297	0.50	148	5.5	0%	5
	Grass to Asphalt	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	297	varies	151	5.6	0%	5
	Grass to Asphalt		Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	297	varies	0	0.0	0%	0
	Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	297	-0.75	-223	-8.2	0%	-8
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	297	-0.25	-74	-2.7	0%	-2
	Grass to									0%	
	Timbers Grass to	Topsoil Excavate	Strip 6in topsoil Fill subsoil to proposed	n/a	n/a	55	0.50	28	1.0		1.
	Timbers Grass to	Subsoil Place	subgrade Cut subsoil to proposed	Ex-6in	Pro-12in	55	varies	76	2.8	0%	2
	Timbers	Subsoil Excavate	subgrade Place playground border	Ex-6in	Pro-12in	55	varies	-3	-0.1	0%	-0
	Grass to	Border Timbers Place	timbers (placeholder volume	0/0	0/0	55	-1.00		-2.0	0%	-2
	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	55	-1.00	-55	-2.0	0%	-2
	Play Surface to Asphalt	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	297	1.42	421	15.6	0%	15.
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17n	Pro-12in	297	varies	0	0.0	0%	0.
	Play Surface to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	297	varies	-279	-10.3	0%	-10.
	Play Surface to	Gravel (for Pavement)	Place 9in gravel base out to								
	Asphalt Play Surface to	Place	6in from pavement edge	n/a	n/a	297	-0.75	-223	-8.3	0%	-8
	Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	297	-0.25	-74	-2.8	0%	-2
	Asphalt to Grass	Asphalt Excavate	Excavate 12in asphalt Cut subsoil to proposed	n/a	n/a		1.00	0	0.0	0%	0
	Asphalt to Grass	Subsoil Excavate	subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0.
	Asphalt to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0
	Asphalt to Grass		Place 6in topsoil	n/a	n/a		-0.50	0	0.0	0%	0
	Grass to					4057					
	Playsurface Grass to	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	1657	0.50	829	30.7	0%	30
_	Playsurface Grass to	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-6in	Pro-12in	1657	varies	2596	96.1	0%	96.
	Playsurface Grass to	Subsoil Place	subgrade Place 12in wood mulch play	Ex-6in	Pro-12in	1657	varies	-3	-0.1	0%	-0
	Playsurface	Play Surface Place	surface	n/a	n/a	1657	-1.00	-1657	-61.4	0%	-61
	Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1774	0.50	887	32.9	0%	32
	Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1774	varies	2609	96.6	0%	96.
	Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1774	varies	-13	-0.5	0%	-0.
	Grass to	Gravel (for Pavement)									
	Concrete Grass to	Place	Place 7in gravel base	n/a	n/a	1774	-0.58	-1029	-38.1	0%	-38
	Concrete Concrete to	Concrete Place	Place 5in concrete	n/a	n/a	1774	-0.42	-738	-27.3	0%	-27
	Grass Concrete to	Concrete Excavate	Excavate 12in concrete Cut subsoil to proposed	n/a	n/a	100	1.00	100	3.7	0%	3
_	Grass	Subsoil Excavate	subgrade	Ex-12in	Pro-6in	100	varies	0	0.0	0%	0.
	Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-12in	Pro-6in	100	varies	-73	-2.7	0%	-2
	Concrete to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	100	-0.50	-50	-1.9	0%	-1.
	Play Surface to		Remove existing play surface,								
	Pea Gravel	Play Surface Excavate	estimated depth 17in	n/a	n/a	557	1.42	789	29.2	0%	29
_	Play Surface to	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17n	Pro-12in	557	varies		0.0	0%	0
	Play Surface to Pea Gravel	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	557	varies	-541	-20.0	0%	-20
	Play Surface to										
		New Pea Gravel Place	Place 12in Pea gravel	n/a	n/a	557	-1.00	-557	-20.6	0%	-20
	Grass to Pea				In to	92	0.50	46	47	0%	1.
	Grass to Pea Gravel Grass to Pea	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	52	0.00	40	1.7	0%	
	Gravel	Topsoil Excavate Subsoil Excavate	Strip 6in topsoil Cut subsoil to proposed subgrade Fill subsoil to proposed	n/a Ex-6in	Pro-12in	92	varies	5	0.2	0%	0

City of Madison, WI Public Works Contract		
Date Revised:	5/3/2018	
Dervied from more detailed spreadsheet avai	lable from Parks Div	
Computation Summary		
Computation Summary Positive volumes are cuts (material available)	negative volumes are fills (material nee	ded)
, , , , , , , , , , , , , , , , , , , ,		
Row Labels	Sum of Unfac-tored volume (cu vd)	
Asphalt Place	-5.5	
Border Timbers Place (placeholder volume)	-3.3 -4.5	
Gravel (for Pavement) Place	-54.6	
Play Surface Excavate	270.6	
Play Surface Place	-160.3	
Subsoil Excavate	273.8	
Subsoil Place	-196.0	
Topsoil Excavate	162.9	
Topsoil Place	-122.0	
Asphalt Excavate	0.0	
Concrete Excavate	3.7	
New Pea Gravel Place	-24.0	
Concrete Place	-27.3	Units
Grand Total	116.7	CY
20101 Excavation Cut	434	CY
20104 - Excavation Cut - Pea Gravel	271	
20201 Fill	-78	
20221 Topsoil	731	
40102 Crushed Aggregate Base Course		
Gradation No. 2 & 3	109.2	TONS
40201 3" Depth HMA Pavement Type E-0.3	11 0	TONS
90003 - Playground Surfacing - Wood	11:3	10110
Mulch	176	CY
90010 - Playground Surfacing - Pea Gravel	26	CY

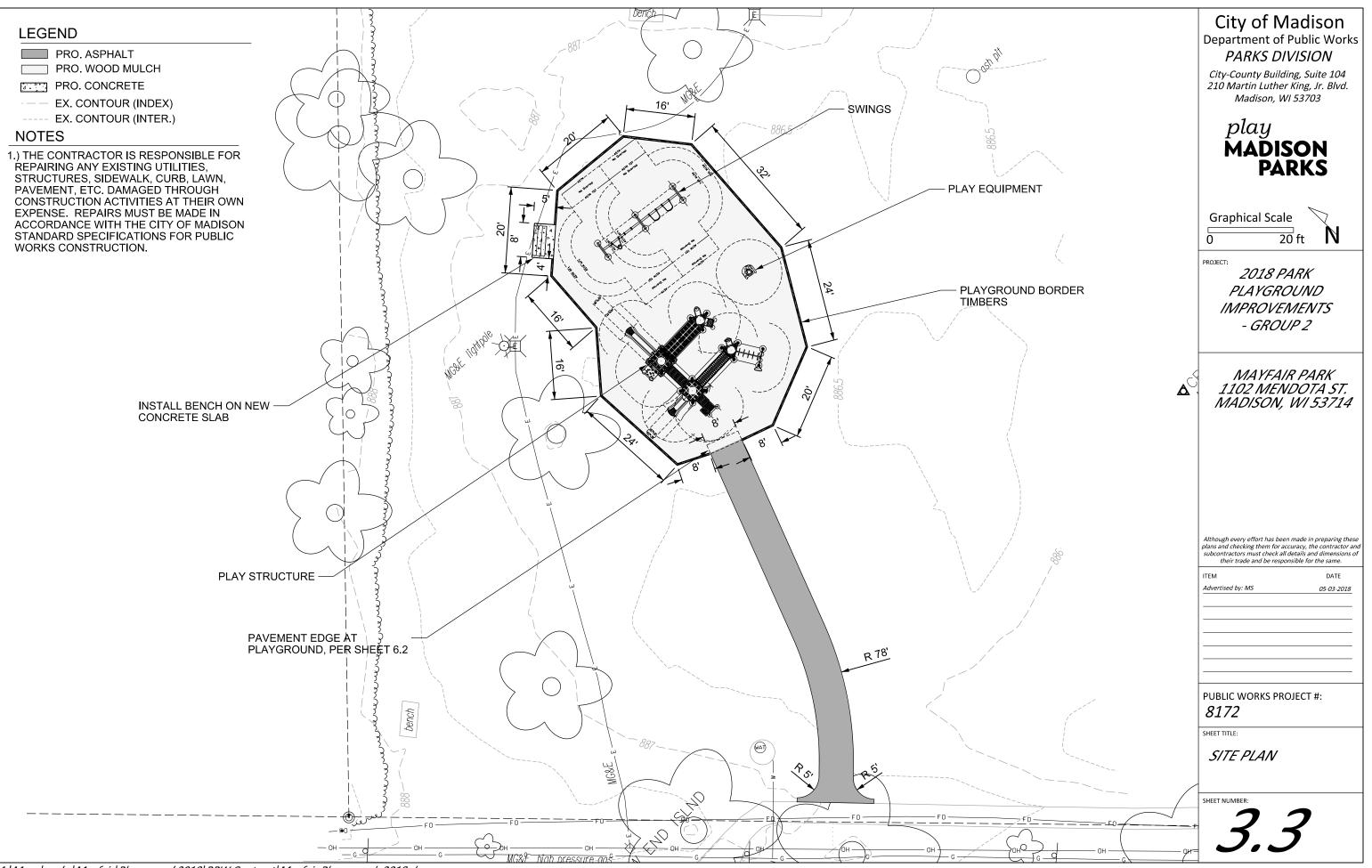
	City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 Play MADISON PARKS
	PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2
B Relation to Table Above =Subsoil Excavate + Topsoil Excavate = Play Surface Excavate = Subsoil Excavate - Subsoil Place = Topsoil Place/.167 (depth) S = (Gravel Place) * 2.0 ton/cubic yard	ELMSIDE CIRCLE PARK 500 ELMSIDE BLVD. MADISON, WI 53704
S = Asphalt Place * 2.16 ton/cubic yard = Play Surface Place*1.10 = New Pea Gravel Place*1.10	Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same. ITEM DATE Advertised by: MR 05-03-2018
	PUBLIC WORKS PROJECT #: 8172 Sheet Title: DESIGN COMPUTATIONS
	SHEET NUMBER:



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



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



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

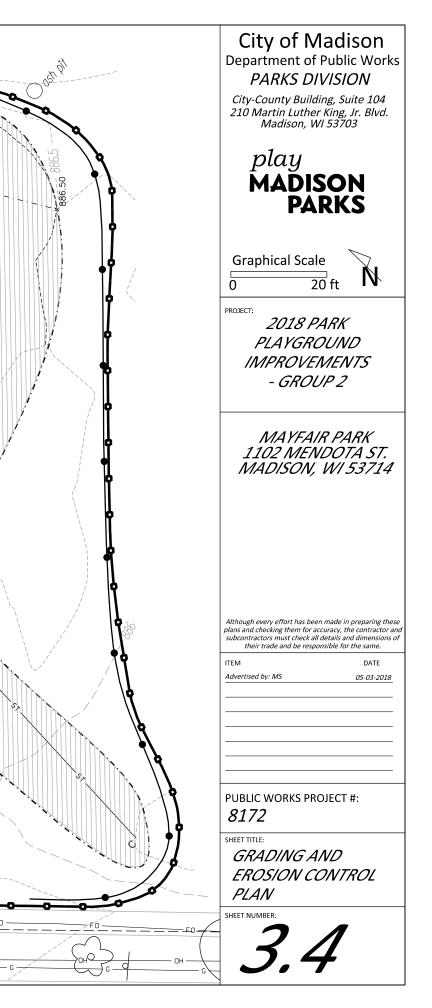
LEGEND + PRO. SPOT EL. PRO. ASPHALT PRO. WOOD MULCH 88/1 80 PRO. EROSION MATTING SWALE PRO. CONSTRUCTION ENTRANCE -st - PRO. DRAINTILE SWALE ----- PRO, GRADING LIMITS -D- PRO. CONSTRUCTION FENCE ---- PRO. SILT SOCK ---- PRO. CONTOUR (INDEX) ----- PRO. CONTOUR (INTER) EX. CONTOUR (INDEX) EX. CONTOUR (INTER.) 8 NOTES .) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1. .) PLAYGROUND EQUIPMENT SHALL BE 1:0thpoli INSTALLED WITH APPROPRIATE ELEVATIONS MCSE Ο RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS. EDGE OF PLAYGROUND BORDER TIMBERS: 887.58 ELEVATION OF FINISHED PLAYGROUND SURFACE: 887.41 PLAYGROUND SUBGRADE ELEVATION: 886.41 ASPHALT AT PLAYGROUND ELEVATION: 887.41 bench DRAIN TILE SYSTEM, SEE SHEET 3.5 FOR INVERTS, PIPE LENGTHS AND SLOPES. \mathcal{A} $Q_{\mathcal{A}}$ \rightarrow – пн

S

MG&E high pressure ga§

D

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



	Dra						
			Distance from	n top of			
	Point	Invert (ft)	timbers 8	87.58			
			(INCHE	S)	Ahead leng	gth	
	А	885.82	21.1		19.5		
	В	885.77	21.7		101.2		
	С	885.50	25.0	0.0			
		D · T · ·					
		Drain Tile Le	engths & Slope	es			
	fı	rom intersect	ion to intersed	ction			
From To		То	Length (ft)	Slope (%	5) Pi	Pipe type	
A B		В	19.5	-0.26	Un	derdrai	
	В	С	101.2	-0.27	Underdı		
		Total	120.7				

Ę	

iin in City of Madison Department of Public Works PARKS DIVISION

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



PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

MAYFAIR PARK 1102 MENDOTA ST. MADISON, WI 53714

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

ITEM Advertised by: MR

DATE 05-03-2018

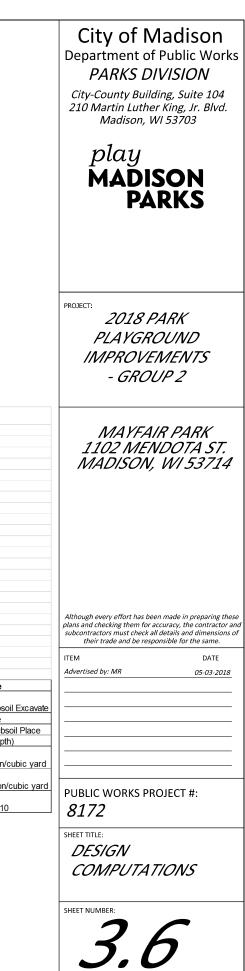
PUBLIC WORKS PROJECT #: 8172

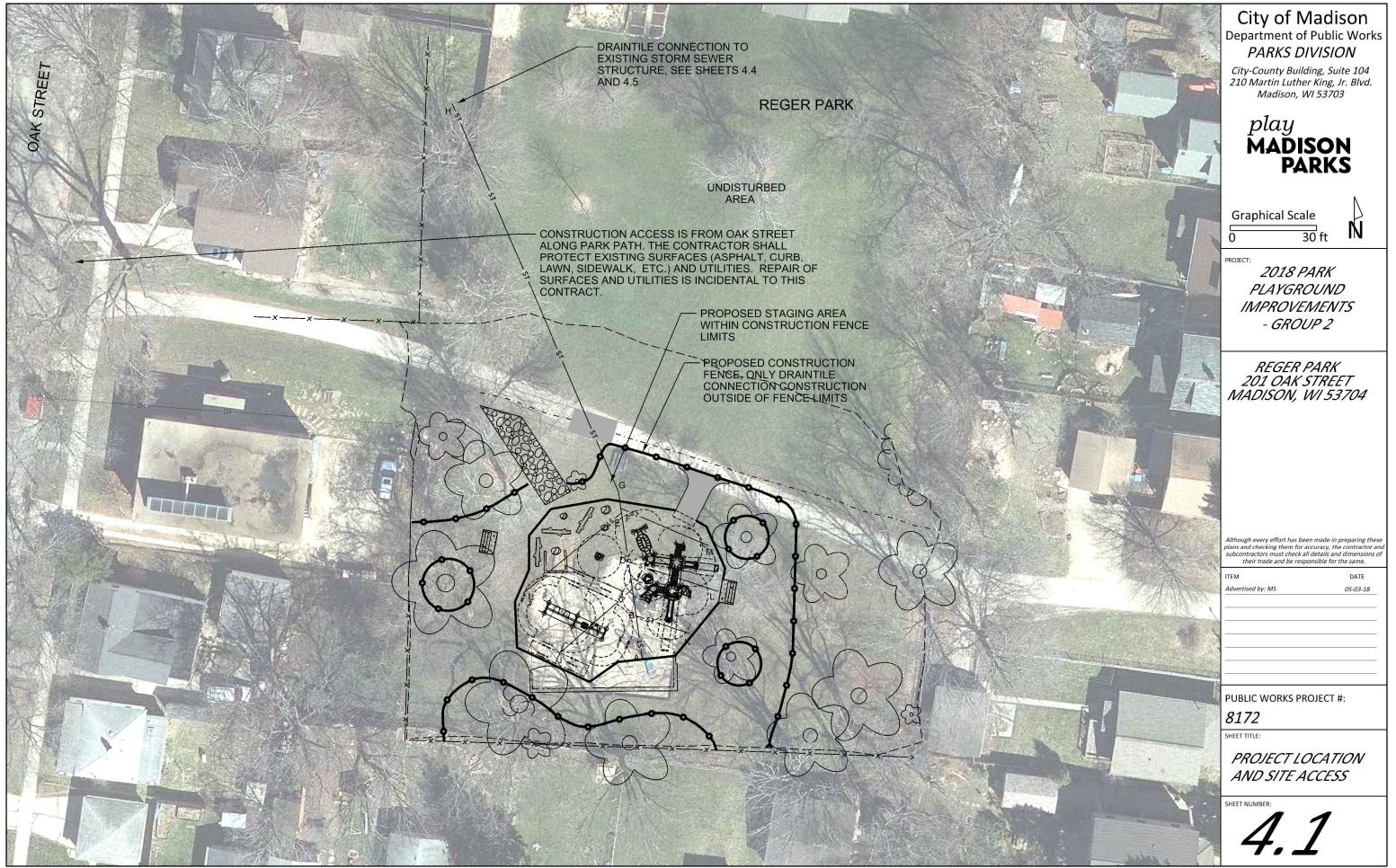
SHEET TITLE:

DRAIN TILE SCHEDULES

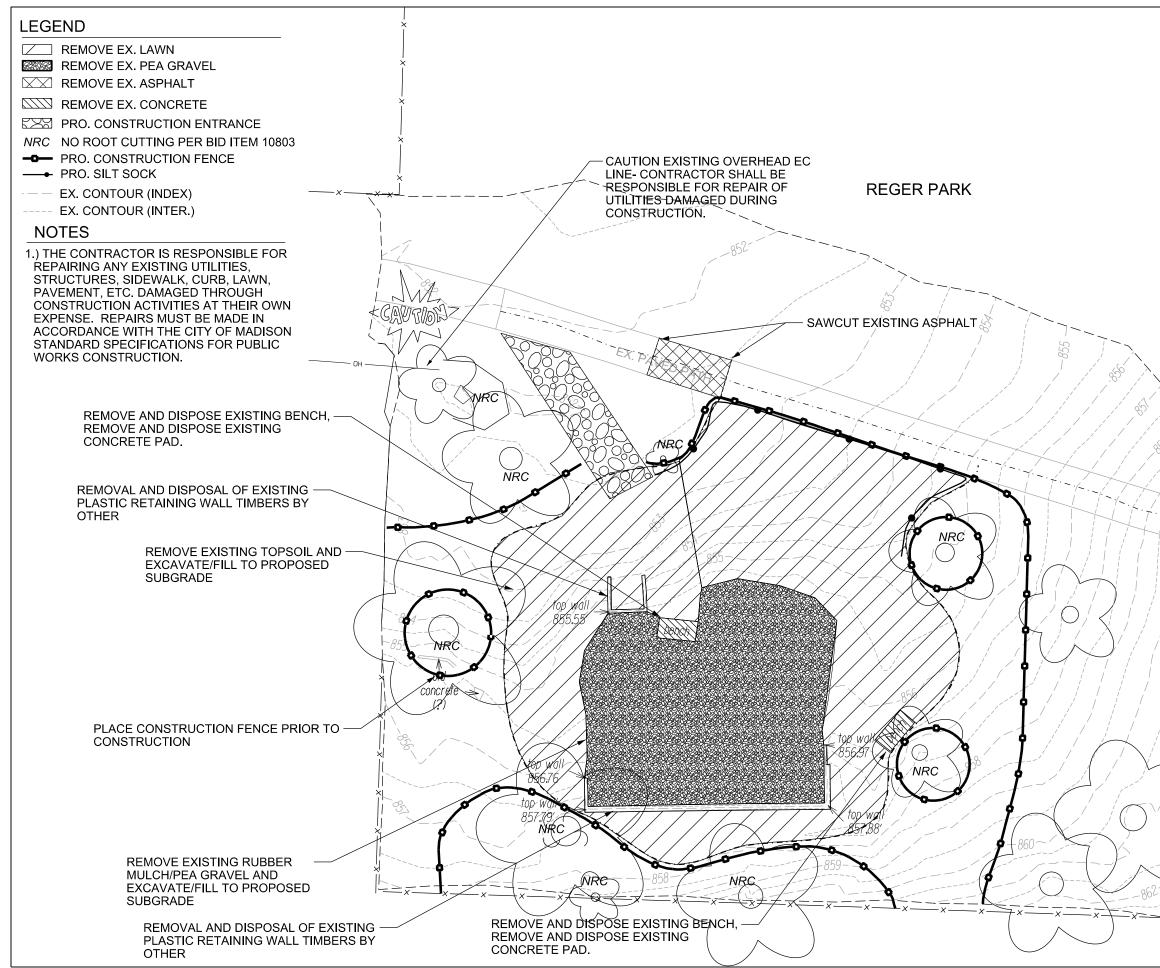


	-	Playground - Earthw										
	City of Madison, Date Revised:	WI Public Works Contract 4/3/201										
	lotes: ositive volumes	are cuts, negative volumes	are fills.									
1	lot all parts of all	I surface models (Digital Te	errain Models) are used for com	putations or i	ntended for	r actual co	onstruction					
F	xisting											
F	roposed											
F	roposed											
Τ				From Surface	To Surface	area	depth	Unfac- tored volume	Unfac- tored volume	Expan- sion Factor	Factored (Uncom- pacted) Volume	
	irp	Material	Item	Model	Model	(sq ft)	(ft)	(cu ft)	(cu yd)	(%)	(cu yd)	
-+'	Grass to Grass	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	13260	0.50	6630	245.6	0%	245.6	3
	Grass to Grass	Subsoil Excavate	subgrade	Ex-6in	Pro-6in	13260	varies	45	1.7	0%	1.7	7
			Fill subsoil to proposed	E 01	D. C	40000		0074		00/		
	Grass to Grass Grass to Grass		subgrade Place 6in topsoil	Ex-6in n/a	Pro-6in n/a	13260 13260		-3871 -6630	-143.4 -245.6	0% 0%	-143.4 -245.6	
1	Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1121	1.42	1588	58.8	0%	58.8	
	Play Surface to		Fill subsoil to proposed									
+	Grass Plav Surface to	Subsoil Place	subgrade	Ex-17in	Pro-6in	1121	varies	-1133	-42.0	0%	-42.0	
_ '		Topsoil Place	Place 6in topsoil	n/a	n/a	1121	-0.50	-560	-20.8	0%	-20.8	3
	Play Surface to Plav Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	977	1.42	1384	51.3	0%	51.3	3
F	Play Surface to		Cut subsoil to proposed					1004				
		Subsoil Excavate	subgrade	Ex-17in	Pro-12in	977	varies	0	0.0	0%	0.0	
	Play Surface to Play Surface		Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	977	varies	-1420	-52.6	0%	-52.6	3
I	Play Surface to		Place 12in wood mulch play									
+	Play Surface	Play Surface Place	surface	n/a	n/a	977	-1.00	-977	-36.2	0%	-36.2	
1	Play Surface to		Remove existing play surface,	.								Mayfair Park Playground - Earthwork Quantities
+	Timbers Play Surface to	Play Surface Excavate	estimated depth 17in	n/a	n/a	4	1.42	6	0.2	0%	0.2	2 City of Madison, WI Public Works Contract
'		Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	4	varies	0	0.0	0%	0.0	Date Revised: 5/3/2018
J	Play Surface to		Fill subsoil to proposed									
+	Timbers	Subsoil Place	subgrade Place playground border	Ex-17in	Pro-12in	4	varies	-6	-0.2	0%	-0.2	2 Dervied from more detailed spreadsheet available from Parks Div
1		Border Timbers Place	timbers (placeholder volume									Computation Summary
_	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	4	-1.00	-4	-0.2	0%	-0.2	Positive volumes are cuts (material available), negative volumes are fills (material needed)
0	Frass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	731	0.50	365	13.5	0%	13.5	
			Cut subsoil to proposed									David shale
	Frass to Asphalt	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-6in	Pro-12in	731	varies	108	4.0	0%	4.0	Row Labels v Sum of Unfac-tored volume (cu yd) Asphalt Place -6.8
(Frass to Asphalt	Subsoil Place	subgrade	Ex-6in	Pro-12in	731	varies	-55	-2.0	0%	-2.0	Border Timbers Place (placeholder volume) -2.5
	Frass to Asphalt	Gravel (for Pavement)	Place 9in gravel base out to	n/o	n/a	731	-0.75	-548	-20.3	0%	20.2	-20.3
+	rass to Asphalt	Place	6in from pavement edge	n/a	n/a	/31	-0.75	-048	-20.3	0%		Play Surface Excavate 110.3
	Frass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	731	-0.25	-183	-6.8	0%	-6.8	Play Surface Place -114.0
6	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	0	-0.25	0	0.0	0%	0.0	Subsoil Excavate 4.6 2 Subsoil Place -274.9
	Grass to										0.0	Topsoil Excavate 299.2
+	Timbers Grass to	Topsoil Excavate	Strip 6in topsoil Fill subsoil to proposed	n/a	n/a	63	0.50	31	1.2	0%	1.2	Topsoil Excavate 299.2 Topsoil Place -266.3
		Subsoil Place	subgrade	Ex-6in	Pro-12in	63	varies	0	0.0	0%	0.0	Asphalt Excavate 0.0
	Grass to		Cut subsoil to proposed									Grand Total -270.7
+	Timbers	Subsoil Excavate	subgrade Place playground border	Ex-6in	Pro-12in	63	varies	-29	-1.1	0%	-1.1	Reorganized into bid table items
		Border Timbers Place	timbers (placeholder volume									Bid Item Quantity CY Relation to Table Above
_	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	63	-1.00	-63	-2.3	0%	-2.3	
	Play Surface to		Remove existing play surface,									20101 Excavation Cut 409 CY =Subsoil Excavate + Topsoil E
	Asphalt	Play Surface Excavate	estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0	20104 - Excavation Cut - Pea gravel 110 CY = Play Surface Excavate
	Play Surface to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17n	Pro-12in		varies		0.0	0%	0.0	20201 Fill 270 CY = Subsoil Excavate - Subsoil 20221 Topsoil 1595 SY = Topsoil Place/.167 (depth)
1	Play Surface to		Fill subsoil to proposed									40102 Crushed Aggregate Base Course
\rightarrow		Subsoil Place Gravel (for Pavement)	subgrade Place 9in gravel base out to	Ex-17in	Pro-12in		varies		0.0	0%	0.0	Gradation No. 2 & 3 40.6 TONS = (Gravel Place) * 2.0 ton/cub
	Asphalt	Place	6in from pavement edge	n/a	n/a		-0.75	0	0.0	0%	0.0	
1	Play Surface to											40201 3" Depth HMA Pavement Type E-0.3 14.6 TONS = Asphalt Place * 2.16 ton/cut
	Asphalt Play Surface to	Asphalt Place	Place 3in asphalt Place 3in topsoil over 6in	n/a	n/a		-0.25	0	0.0	0%	0.0	90003 - Playground Surfacing - Wood
		Topsoil Place	wide gravel edge	n/a	n/a		-0.25	0	0.0	0%	0.0	Mulch 125 CY = Play Surface Place*1.10
	sphalt to Cross	Asphalt Excavate	Excavate 12in asphalt	n/a	n/a		1.00	0		0%		
+	apriait to Grass	Asphali Excavale	Cut subsoil to proposed	n/a	n/a		1.00	0	0.0	U%	0.0	2
_/	sphalt to Grass	Subsoil Excavate	subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0.0	
	sphalt to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-12in	Pro-6in		varies		0.0	0%	0.0	
									0.0		0.0	4
	sphalt to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a		-0.50	0	0.0	0%	0.0	
			Strip 6in topsoil	n/a	n/a	2101	0.50	1051	38.9	0%	38.9	
	Grass to	Topsoil Excavate									,	
	Grass to Playsurface Grass to		Cut subsoil to proposed									
	Grass to Playsurface Grass to Playsurface	Topsoil Excavate Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	2101	varies	0	0.0	0%	0.0	
	Grass to Playsurface Grass to Playsurface Grass to		Cut subsoil to proposed		Pro-12in Pro-12in	2101		0 -938	0.0 -34.7	0% 0%	0.0 -34.7	

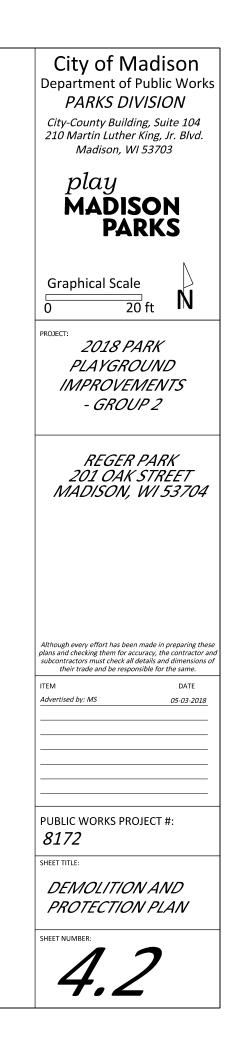




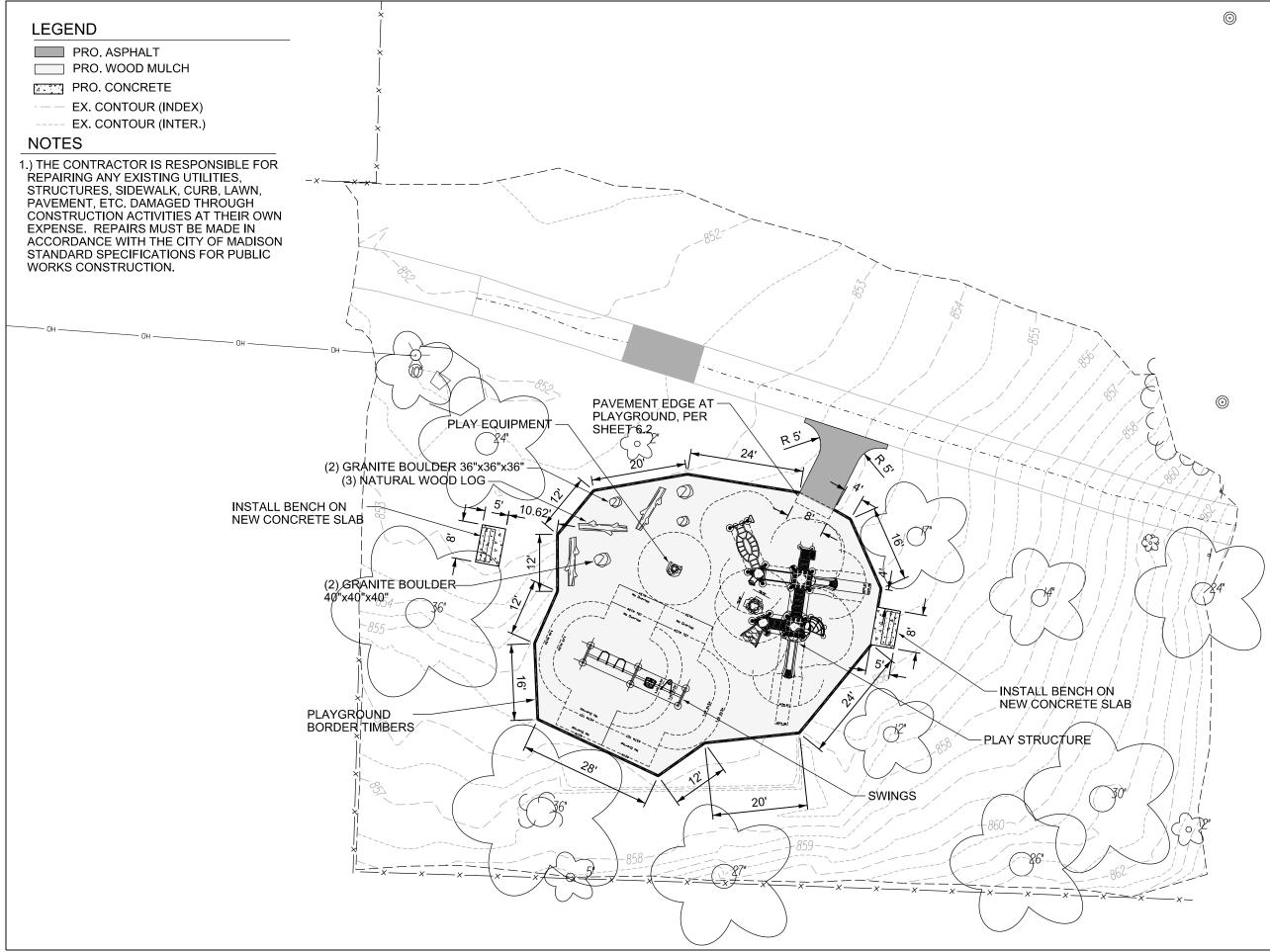
M: |Maps | parks | Reger | 2018 Playground | BPW files | Reger Park Playground_2018.dgn



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

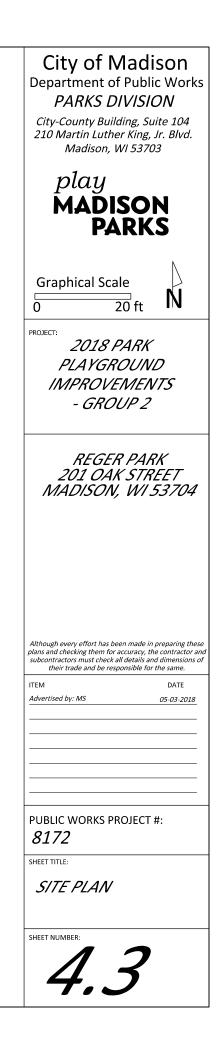


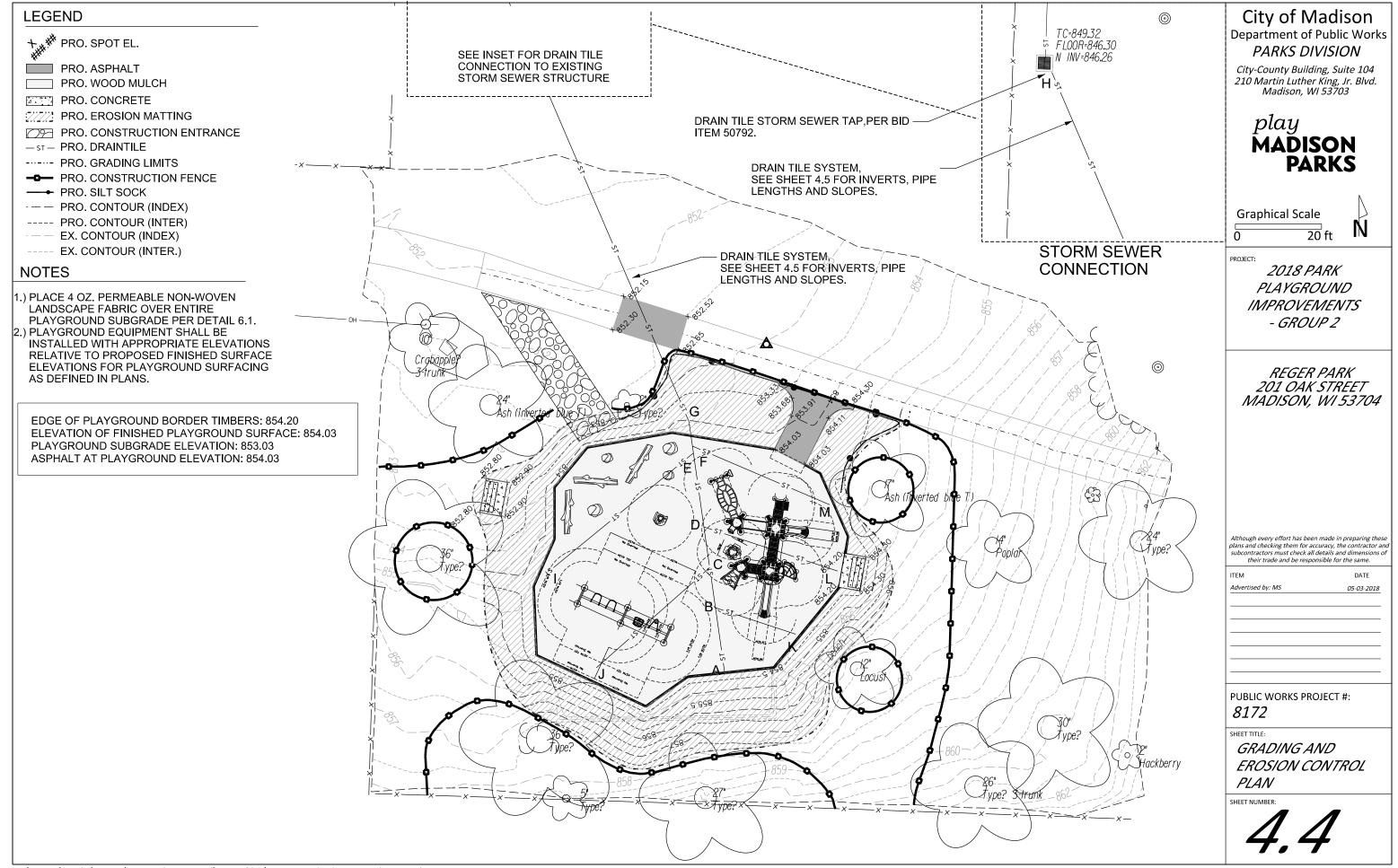




M:|Maps|parks|Reger|2018 Playground|BPW files|Reger Park Playground_2018.dgn







		k Playground			es					
Drain Tile Invert (Flowline) Elevations				fror	from intersection to intersection					
		Distance from top of		From	То	Length (ft)	Slope (%)	Pipe type		
Point	Invert (ft)	timbers 854.2 (INCHES)		А	В	15.0	-2.67	Underdrain		
			Ahead length	В	С	9.0	-2.78	Underdrain		
Α	852.44	21.1	15.0	С	D	9.5	-2.63	Underdrain		
В	852.04	25.9	9.0	D	E	17.3	-2.66	Underdrain		
С	851.79	28.9	9.5	E	F	1.6	-2.50	Underdrain		
D	851.54	31.9	17.3	F	G	5.7	-2.63	Underdrain		
E	851.08	37.4	1.6	G	Н	146.9	-2.65	Underdrain		
F	851.04	37.9	5.7	Ι	Е	44.2	1.61	Underdrain		
G	850.89	39.7	146.9	J	С	35.1	-1.85	Underdrain		
Н	847.00	86.4	0.0	К	В	19.6	-2.04	Underdrain		
I	852.44	21.1	44.2	L	D	32.7	-2.75	Underdrain		
J	852.44	21.1	35.1	M	F	34.6	-4.05	Underdrain		
К	852.44	21.1	19.6		Total	371.20				
L	852.44	21.1	32.7							
Μ	852.44	21.1	34.6							



City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104

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



PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK 201 OAK STREET MADISON, WI 53704

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

ITEM Advertised by: MR DATE 05-03-2018

PUBLIC WORKS PROJECT #: 8172

DRAIN TILE SCHEDULES

SHEET NUMBER:



		Playground - Earthworl	Quantities								
	Date Revised:	WI Public Works Contract 4/3/2018									
	Notes: Positive volumes	are cuts, negative volumes a	re fils.								
			ain Models) are used for com	outations or	intended for	actual co	nstruction.				
	Existing										
	Proposed										
	Proposed										
					-						Factor
								Unfac-	Unfac-	Expan-	(Unco
				From Surface	To Surface	area	depth	tored volume	tored volume	sion Factor	pacte Volun
Sort	Grp	Material	Item	Model	Model	(sq ft)	(ft)	(cu ft)	(cu yd)	(%)	(cu yo
_	Grass to Grass	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	2688	0.50	1344	49.8	0%	4
	Grass to Grass	Subsoil Excavate	subgrade	Ex-6in	Pro-6in	2688	varies	1033	38.2	0%	3
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	2688	varies	-518	-19.2	0%	-1
	Grass to Grass		Place 6in topsoil	n/a	n/a	2688	-0.50	-1344			-4
	Play Surface to		Remove existing play surface,								l l
		Play Surface Excavate	estimated depth 17in	n/a	n/a	380	1.42	538	19.9	0%	1
	Play Surface to	Subseil Executo	Cut subsoil to proposed	Ev 17.5	Dro Gin	290	veries	95	3.5	0%	
	Grass Play Surface to	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-17 n	Pro-6in	380	varies	30	3.5	0%	
	Grass	Subsoil Place	subgrade	Ex-17n	Pro-6in	380	varies	-66	-2.5	0%	
	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	380	-0.50	-190	-7.0	0%	.
	Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1698	1.42	2406	89.1	0%	6
	Play Surface to		Cut subsoil to proposed								
_	Play Surface Play Surface to	Subsoil Excavate	subgrade	Ex-17 n	Pro-12in	1698	varies	2259	83.7	0%	8
			Fill subsoil to proposed subgrade	Ex-17n	Pro-12in	1698	varies	o	0.0	0%	
	Play Surface to		Place 12in wood mulch play								
	Play Surface	Play Surface Place	surface	n/a	n/a	1698	-1.00	-1698	-62.9	0%	-6
	Play Surface to		Remove existing play surface,								l l
	Timbers Play Surface to	Play Surface Excavate	estimated depth 17in Cut subsoil to proposed	n/a	n/a	17	1.42	24	0.9	0%	
	Timbers	Subsoil Excavate	subgrade	Ex-17n	Pro-12in	17	varies	24	0.9	0%	
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17n	Pro-12in	17	varies		0.0	0%	
	Timbers		Place playground border		F10-1211		varies		0.0	070	
			timbers (placeholder volume	n/n	n/n	17	1.00	-17	0.6	0%	l l
	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	17	-1.00	-17	-0.6	0%	
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	150	0.50	75	2.8	0%	
	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	150	varies	35	1.3	0%	
			Fill subsoil to proposed								
_	Grass to Asphalt		subgrade Place 9in gravel base out to	Ex-6in	Pro-12in	150	varies	0	0.0	0%	
	Grass to Asphalt		6in from pavement edge	n/a	n/a	150	-0.75	-113	-4.2	0%	
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	150	-0.25	-38	-1.4	0%	.
	Grass to										
	Timbers Grass to	Topsoil Excavate	Strip 6in topsoil Fill subsoil to proposed	n/a	n/a	48	0.50	24	0.9	0%	
	Timbers	Subsoil Place	subgrade	Ex-6in	Pro-12in	48	varies	48	1.8	0%	
	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ev Cin	Pro-12in	40	veries	-10	-0.4	0%	
	limbers		Place playground border	Ex-6in	P10-12III	48	varies	- 10	-0.4	0%	
	Grass to	Border Timbers Place	timbers (placeholder volume	- 1-	- 1-						l l
	Timbers	(placeholder volume)	to balance volume comps)	n/a	n/a	48	-1.00	-48	-1.8	0%	
	Play Surface to		Remove existing play surface,								
_	Asphalt Play Surface to	Play Surface Excavate	estimated depth 17in Cut subsoil to proposed	n/a	n/a		1.42	0			
	Asphalt	Subsoil Excavate	subgrade					Ŭ	0.0	0%	1
	Play Surface to			Ex-17n	Pro-12in		varies	Ĭ	0.0	0%	
	Asphalt	Subsoil Place	Fill subsoil to proposed		Pro-12in		varies		0.0	0%	
	Asphalt Play Surface to	Gravel (for Pavement)		Ex-17n Ex-17in			varies varies		0.0	0%	
	Play Surface to Asphalt	Gravel (for Pavement)	Fill subsoil to proposed subgrade		Pro-12in		varies	0	0.0	0%	
	Play Surface to Asphalt Play Surface to	Gravel (for Pavement) Place	Fill subsoil to proposed subgrade Place 9in gravel base out to	Ex-17in	Pro-12in Pro-12in n/a		varies varies		0.0 0.0 0.0	0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to	Gravel (for Pavement) Place Asphalt Place	Fill subsoil to proposed subgrade Place 9in gravel base out to 6in from pavement edge Place 3in asphalt Place 3in topsoil over 6in	Ex-17in n/a n/a	Pro-12in Pro-12in n/a n/a		varies varies -0.75 -0.25	0	0.0	0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to	Gravel (for Pavement) Place	Fill subsoil to proposed subgrade Place 9in gravel base out to 6in from pavement edge Place 3in asphalt	Ex-17in n/a	Pro-12in Pro-12in n/a		varies varies -0.75	0	0.0 0.0 0.0	0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt	Gravel (for Pavement) Place Asphalt Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in topsoil over 6 in wide gravel edge Excevate 12 in asphalt	Ex-17in n/a n/a	Pro-12in Pro-12in n/a n/a		varies varies -0.75 -0.25	0	0.0 0.0 0.0 0.0	0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Asphalt to Grass	Gravel (for Pavement) Place Asphalt Place Topsoil Place Asphalt Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphalt Place 3 in topsoil over 6 in wide gravel edge Excavate 12 in asphalt Cut subsoil to proposed	Ex-17in n/a n/a n/a	Pro-12in Pro-12in n/a n/a n/a		varies varies -0.75 -0.25 -0.25 1.00	0	0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Asphalt to Grass	Gravel (for Pavement) Place Asphalt Place Topsoil Place Asphalt Excavate Subsoil Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6in from pavement edge Place 3 in asphalt Place 3 in topsoil over 6 in wide gravel edge Excavate 12 in asphalt Cut subsoil to proposed subgrade Fill subsoil to proposed	Ex-17in n/a n/a n/a Ex-12in	Pro-12in Pro-12in n/a n/a n/a n/a Pro-6in		varies varies -0.75 -0.25 -0.25 1.00 varies	0	0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Asphalt to Grass	Gravel (for Pavement) Place Asphalt Place Topsoil Place Asphalt Excavate Subsoil Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphat Place 3 in topsoil over 6 in wide gravel edge Excavate 12 in asphalt Cut subsoil to proposed subgrade	Ex-17in n/a n/a n/a	Pro-12in Pro-12in n/a n/a n/a		varies varies -0.75 -0.25 -0.25 1.00	0	0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Asphalt to Grass	Gravel (for Pavement) Place Asphatt Place Topsoll Place Asphatt Excavate Subsoll Excavate Subsoll Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6in from pavement edge Place 3 in asphalt Place 3 in topsoil over 6 in wide gravel edge Excavate 12 in asphalt Cut subsoil to proposed subgrade Fill subsoil to proposed	Ex-17in n/a n/a n/a Ex-12in	Pro-12in Pro-12in n/a n/a n/a n/a Pro-6in		varies varies -0.75 -0.25 -0.25 1.00 varies	0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt to Grass Asphalt to Grass Asphalt to Grass Asphalt to Grass Grass to	Gravel (for Pavement) Place Asphalt Place Topsoli Place Asphalt Excavate Subsoli Excavate Subsoli Excavate Subsoli Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6in from pavement edge Place 3 in asphat Place 3 in bosoil over 6in wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade Place 6in topsoil	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n n/a	Pro-12in Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a		varies varies -0.75 -0.25 -0.25 1.00 varies varies -0.50	0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Asphalt to Grass Asphalt to Grass Asphalt to Grass	Gravel (for Pavement) Place Asphatt Place Topsoll Place Asphatt Excavate Subsoll Excavate Subsoll Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6in from pavement edge Place 3 in asphalt Place 3 in topsoil over 6 in wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade	Ex-17in n/a n/a n/a Ex-12in Ex-12in	Pro-12in Pro-12in n/a n/a n/a Pro-6in	1699	varies varies -0.75 -0.25 1.00 varies varies	0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Grass to Playsurface Grass to Playsurface	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphatt Place 3 in topsoil over 6 in wide gravel edge Excevate 12 in asphatt Cut subsoil to proposed subgrade Place 6 in topsoil Strip 6 in topsoil Strip 6 in topsoil	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n n/a	Pro-12in Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a	1699	varies varies -0.75 -0.25 -0.25 1.00 varies varies -0.50	0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0%	3
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Asphat to Grass Grass to Playsurface Grass to Playsurface	Gravel (for Pavement) Place Asphalt Place Topsoll Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphalt Place 3 in topsoil over 6 in wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade Place 6 in topsoil Place 6 in topsoil Cut subsoil to proposed subgrade Place 6 in topsoil Cut subsoil to proposed subgrade Place 6 in topsoil	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n n/a Ex-6in	Pro-12in Pro-12in n/a n/a n/a Pro-6in Pro-6in n/a n/a Pro-72in	1699	varies varies -0.75 -0.25 -0.25 1.00 varies varies varies -0.50 0.50 varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 31.5 74.6	0% 0% 0% 0% 0% 0% 0% 0%	7
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphalt to Grass Asphalt to Grass Grass to Playsurface Grass to Playsurface Grass to	Gravel (for Pavement) Place Asphalt Place Topsoli Place Asphalt Excavate Subsoli Excavate Subsoli Place Topsoli Place Subsoli Excavate Subsoli Excavate	Fill subsoli to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphati Place 3 in bopsoli over 6 in wide gravel edge Excavate 12n asphalt Cut subsoli to proposed subgrade Place 6 in topsoli Strip 6 in topsoli Cut subsoli to proposed subgrade Place 6 in topsoli Cut subsoli to proposed subgrade Place 7 in topsoli Cut subsoli to proposed subgrade Place 7 in topsoli Place 7 in topsoli Cut subsoli to proposed subgrade Place 12 in wood mulch play	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n Ex-12 n n/a Ex-6in Ex-6in	Pro-12in Pro-12in n/a n/a n/a Pro-6in n/a Pro-6in n/a Pro-12in Pro-12in	1699 1699	varies varies -0.75 -0.25 1.00 varies varies -0.50 0.50 varies varies	0 0 0 0 0 0 0 0 850 2015 -120	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 31.5 74.6 -4.4	0% 0% 0% 0% 0% 0% 0% 0%	-
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Asphat to Grass Grass to Playsurface Grass to Playsurface Grass to Playsurface Grass to Playsurface Grass to Playsurface	Gravel (for Pavement) Place Asphalt Place Topsoll Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate	Fill subsoil to proposed subgrade Place 3 in gravel base out to 6 in from pavement edge Place 3 in asphat Place 3 in topsoil over 6 in wide gravel edge Excavate 12 in asphat Cut subsoil to proposed subgrade Place 6 in topsoil Strip 6 in topsoil Cut subsoil to proposed subgrade Place 6 in topsoil Cut subsoil to proposed subgrade	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n n/a Ex-6in	Pro-12in Pro-12in n/a n/a n/a Pro-6in Pro-6in n/a n/a Pro-72in	1699	varies varies -0.75 -0.25 1.00 varies varies -0.50 0.50 varies varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 31.5 74.6 -4.4	0% 0% 0% 0% 0% 0% 0% 0%	3
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Asphat to Grass Asphat to Grass Asphat to Grass Grass to Playsurface Grass to Playsurface Grass to Playsurface Grass to Concrete	Gravel (for Pavement) Place Asphalt Place Topsoli Place Asphalt Excavate Subsoli Excavate Subsoli Place Topsoli Place Subsoli Excavate Subsoli Excavate	Fill subsol to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphat Place 3 in topsol over 6 in wide gravel edge Excavate 12 in asphalt Cut subsol to proposed subgrade Place 6 in topsol Strip 6 in topsol Cut subsol to proposed subgrade Place 12 in wood mulch play sufrace Strip 6 in topsol	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n Ex-12 n n/a Ex-6in Ex-6in	Pro-12in Pro-12in n/a n/a n/a Pro-6in n/a Pro-6in n/a Pro-12in Pro-12in	1699 1699	varies varies -0.75 -0.25 1.00 varies varies varies varies varies varies	0 0 0 0 0 0 0 0 850 2015 -120	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 31.5 74.6 -4.4 -62.9	0% 0% 0% 0% 0% 0% 0% 0% 0%	3
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Asphat to Grass Asphat to Grass Asphat to Grass Grass to Playsurface Grass to Corr rele Grass to Corr rele Grass to	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Subsoil Place Play Surface Place Topsoil Place Topsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate	Fill subsoli to proposed subgrade Place 3 in gravel base out to Gin from pavement edge Place 3 in asphatt Place 3 in topsoli over Gin wide gravel edge Excavate 12in asphatt Cut subsoli to proposed subgrade Place 6 in topsoli Strip 6 in topsoli Strip 6 in topsoli Strip 6 in topsoli Place 12/n wood mulch play subgrade Place 12/n wood mulch play sufface Strip 6 in topsoli Cut subsoli to proposed subgrade Place 12/n wood mulch play sufface Strip 6 in topsoli Cut subsoli to proposed Strip 6 in topsoli Cut subsoli to proposed	Ex-17n n/a n/a n/a Ex-12n Ex-12n n/a Ex-6in Ex-6in n/a n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-6in n/a Pro-12in n/a n/a	1699 1699 1699 80	varies varies -0.75 -0.25 1.00 varies varies -0.50 0.50 varies varies -0.50 0.50 varies	0 0 0 0 0 0 0 850 2015 -120 -1699 40	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0% 0% 0%	377
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Asphat to Grass Asphalt to Grass Asphalt to Grass Grass to Playsurface Grass to Playsurface Grass to Concrete Grass to Concrete Grass to	Gravel (for Pavement) Place Asphalt Place Topsoll Place Asphalt Excavate Subsoll Excavate Subsoll Place Topsoll Place Topsoll Place Play Surface Place Play Surface Place Topsoll Excavate Subsoll Excavate Subsoll Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphalt Place 3 in topsoil over 6 in wide gravel edge Excavate 12n asphalt Cut subsoil to proposed subgrade Place 6 in topsoil Strip 6 in topsoil Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 12n wood mulch play surface Strip 6 in topsoil Cut subsoil to proposed subgrade Strip 6 in topsoil Cut subsoil to proposed subgrade	Ex-17n n/a n/a n/a Ex-12n Ex-12n n/a Ex-20n n/a Ex-6in Ex-6in	Pro-12in Pro-12in n/a n/a n/a Pro-6in n/a Pro-6in n/a Pro-6in n/a Pro-12in Pro-12in n/a	1699 1699 1699	varies varies -0.75 -0.25 1.00 varies varies -0.50 0.50 varies varies -0.50 0.50 varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0% 0% 0%	-6
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphalt to Grass Asphalt to Grass Asphalt to Grass Grass to Playsurface Grass to Playsurface Grass to Concrete Grass to Concrete	Gravel (for Pavement) Place Asphalt Place Asphalt Place Asphalt Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Bubsoil Excavate Subsoil Place	Fill subsoli to proposed subgrade Place 3 in gravel base out to Gin from pavement edge Place 3 in asphatt Place 3 in topsoli over Gin wide gravel edge Excavate 12in asphatt Cut subsoli to proposed subgrade Place 6 in topsoli Strip 6 in topsoli Strip 6 in topsoli Strip 6 in topsoli Place 12/n wood mulch play subgrade Place 12/n wood mulch play sufface Strip 6 in topsoli Cut subsoli to proposed subgrade Place 12/n wood mulch play sufface Strip 6 in topsoli Cut subsoli to proposed Strip 6 in topsoli Cut subsoli to proposed	Ex-17n n/a n/a n/a Ex-12n Ex-12n n/a Ex-6in Ex-6in n/a n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-6in n/a Pro-12in n/a n/a	1699 1699 1699 80	varies varies -0.75 -0.25 -0.25 -0.25 varies varies varies varies varies -0.50 0.50 varies -1.00 0.50	0 0 0 0 0 0 0 850 2015 -120 -1699 40	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0%	-6
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Grass to Grass to Playsurface Grass to Concrete Grass to Concrete	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Subsoil Place Gravel (for Pavement)	Fill subsoli to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphatt Place 3 in asphatt Place 3 in topsoli over 6 in wide gravel edge Excavate 12 in asphatt Cut subsoli to proposed subgrade Place 6 in topsoli Strip 6 in topsoli Cut subsoli to proposed subgrade Place 12 in wood mulch play sufgrade Place 12 in topsoli Cut subsoli to proposed subgrade Place 12 in wood mulch play sufgrade Fill subsoli to proposed subgrade Place 10 proposed Strip 6 in topsoli Cut subsoli to proposed subgrade Fill subsoli to proposed subgrade Fill subsoli to proposed subgrade Fill subsoli to proposed subgrade Fill subsoli to proposed subgrade	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n Ex-12 n Ex-12 n n/a Ex-6in Ex-6in n/a Ex-6in	Pro-12in n/a n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-12in n/a n/a n/a n/a pro-12in n/a pro-12in	1699 1699 1699 80 80 80 80	varies -0.75 -0.25 -0.025 -0.025 1.000 varies -0.501 0.502 varies -1.000 0.500 varies -1.000 0.500 varies -1.000 0.500 varies	0 0 0 0 0 0 0 0 850 2015 -120 -1699 40 89	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0%	-6
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Grass to Grass to Playsurface Grass to Playsurface Grass to Concrete Grass to Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Place Subsoil Place Topsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in osphatt Place 3 in topsoil over 6 in wide gravel edge Excevate 12n asphatt Cut subsoil to proposed subgrade Place 6 in topsoil Cut subsoil to proposed subgrade Place 6 in topsoil Strip 6 in topsoil Cut subsoil to proposed subgrade Place 12n wood mulch play sufgrade Place 12n wood mulch play subgrade Place 12n topsoil Cut subsoil to proposed subgrade Place 12n wood mulch play sufgrade Fill subsoil to proposed subgrade Place 7 in gravel base Place 7 in gravel base	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n n/a Ex-6in Ex-6in Ex-6in Ex-6in n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-12in n/a Pro-12in n/a Pro-12in Pro-12in	1699 1699 1699 80 80 80 80 80	varies -0.75 -0.25 -0.025 -0.50 varies -0.50 varies -1.00 varies -1.00 varies -1.00 varies -1.00 0.50 varies -1.00 0.50 varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,0	0% 0% 0% 0% 0% 0% 0% 0%	
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Grass to Playsurface Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete Grass to Concrete	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Place Subsoil Place Topsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place	Fill subsoli to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphatt Place 3 in asphatt Place 3 in topsoli over 6 in wide gravel edge Excavate 12 in asphatt Cut subsoli to proposed subgrade Place 6 in topsoli Strip 6 in topsoli Cut subsoli to proposed subgrade Place 12 in wood mulch play sufgrade Place 12 in topsoli Cut subsoli to proposed subgrade Place 12 in wood mulch play sufgrade Fill subsoli to proposed subgrade Place 10 proposed Strip 6 in topsoli Cut subsoli to proposed subgrade Fill subsoli to proposed subgrade Fill subsoli to proposed subgrade Fill subsoli to proposed subgrade Fill subsoli to proposed subgrade	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n Ex-12 n Ex-12 n n/a Ex-6in Ex-6in n/a Ex-6in	Pro-12in n/a n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-12in n/a n/a n/a n/a pro-12in n/a pro-12in	1699 1699 1699 80 80 80 80	varies -0.75 -0.25 -0.025 -0.025 1.000 varies -0.501 0.502 varies -1.000 0.500 varies -1.000 0.500 varies -1.000 0.500 varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000 000 000 000 000 000 000 000 000 00	0% 0% 0% 0% 0% 0% 0%	
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Grass to Grass to Playsurface Grass to Playsurface Grass to Concrete Grass to Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to 6 in from pavement edge Place 3 in asphatt Place 3 in topsoil over 6 in wide gravel edge Excevate 12n asphatt Cut subsoil to proposed subgrade Place 6 in topsoil Cut subsoil to proposed subgrade Place 6 in topsoil Strip 6 in topsoil Cut subsoil to proposed subgrade Place 12n wood mulch play sufgrade Place 7 in gravel base Place 7 in gravel base Place 5 in concrete	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n n/a Ex-6in Ex-6in Ex-6in Ex-6in n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-12in n/a Pro-12in n/a Pro-12in Pro-12in	1699 1699 1699 80 80 80 80 80	varies -0.75 -0.25 -0.025 -0.50 varies -0.50 varies -1.00 varies -1.00 varies -1.00 varies -1.00 0.50 varies -1.00 0.50 varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0% 0% 0%	
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt to Grass Asphalt to Grass Grass to Playsurface Grass to Playsurface Grass to Playsurface Grass to Concrete Grass to Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concret	Gravel (for Pavement) Place Asphalt Place Coppoil Place Asphalt Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place Concrete Place Concrete Place Concrete Excavate	Fill subsoil to proposed subgrade Place 9 in gravel base out to Gin from pavement edge Place 3 in asphalt Place 3 in hospoil over Gin wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade Place 6 in topsoil Strip Gin topsoil Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 7 in gravel base Place 5 in concrete Excavate Gin con	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n Ex-21 n n/a Ex-6in Ex-6in Ex-6in Ex-6in n/a n/a Ex-6in n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in Pro-6in n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a	1699 1699 1699 80 80 80 80 80 80 80 80 80	Varies Varies -0.75 -0.25 -0.25 1.00 Varies Varies Varies -1.00 0.50 Varies Varies -1.00 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies Varies Varies -0.50 0.50 Varies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0% 0% 0%	3 7
	Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat Play Surface to Asphat to Grass Asphat to Grass Asphat to Grass Grass to Grass to Concrete Grass to Concrete Grass to Concrete to Playsurface Grass to Concrete to Playsurface Grass to Concrete to Playsurface Grass to Concrete to Playsurface Grass to Concrete to Playsurface Concrete to Playsurface	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place Concrete Place Concrete Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place	Fill subsoli to proposed subgrade Place 3 in gravel base out to Gin from pavement edge Place 3 in asphatt Place 3 in topsoli over Gin wide gravel edge Excavate 12in asphatt Cut subsoli to proposed subgrade Place 6 in topsoli Cut subsoli to proposed subgrade Place 6 in topsoli Cut subsoli to proposed subgrade Place 12in wood mulch play sufface Strip 6 in topsoli Cut subsoli to proposed subgrade Place 12in wood mulch play subgrade Place 7 in gravel base Place 5 in concrete Excavate 6 in concrete Cut subsoli to proposed subgrade Place 7 in gravel base Place 5 in concrete Excavate 6 in concrete Excavate 6 in concrete Subgrade	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n r/a Ex-6in Ex-6in n/a Ex-6in n/a n/a Ex-6in n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in Pro-6in Pro-12in n/a Pro-12in n/a Pro-12in n/a	1699 1699 1699 80 80 80 80 80 80	Varies Varies -0.75 -0.25 -0.25 1.00 Varies Varies Varies -1.00 0.50 Varies Varies -1.00 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies -0.50 0.50 Varies Varies Varies Varies -0.50 0.50 Varies	0 0 0 0 0 0 0 0 850 2015 -120 -1699 40 0 89 0 0 -46 33	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0% 0% 0%	3 7
	Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt to Grass Asphalt to Grass Grass to Playsurface Grass to Playsurface Grass to Playsurface Grass to Concrete Grass to Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concrete Concret	Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place Concrete Place Concrete Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place	Fill subsoil to proposed subgrade Place 9 in gravel base out to Gin from pavement edge Place 3 in asphalt Place 3 in asphalt Place 3 in topsoil over Gin wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade Place 6 in topsoil Strip Gin topsoil Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 7 in gravel base Place 5 in concrete Excavate Gin concrete Excavate Gin concrete Cut subsoil to proposed	Ex-17 n n/a n/a n/a Ex-12 n Ex-12 n Ex-21 n n/a Ex-6in Ex-6in Ex-6in Ex-6in n/a n/a Ex-6in n/a	Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in Pro-6in n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a	1699 1699 1699 80 80 80 80 80 80 80 80 80	varies varies -0.75 -0.225 -0.25 -0.25 1.00 varies varies -0.50 varies -1.00 0.50 varies -0.50 varies -0.50 varies -0.50 varies -0.50 varies -0.50 varies -0.50 varies -0.51 -0.52 -0.53 -0.54 -0.50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	3377

Reger Park Playground - Earthwor	k Quantities
City of Madison, WI Public Works Contract	
Date Revised:	5/3/2018
Dervied from more detailed spreadsheet avai	lable from Parks Div
Computation Summary	
Positive volumes are cuts (material available)	, negative volumes are fills (material nee
Row Labels 🔹	Sum of Unfac-tored volume (cu yd)
Asphalt Place	-1.4
Border Timbers Place (placeholder volume)	-2.4
Gravel (for Pavement) Place	-5.9
Play Surface Excavate	109.9
Play Surface Place	-127.1
Subsoil Excavate	208.2
Subsoil Place	-24.3
Topsoil Excavate	86.4
Topsoil Place	-56.8
Asphalt Excavate	0.0
Concrete Excavate	0.6
Concrete Place	-1.2
Grand Total	186.0
Bid Item	Quantity
20101 Everytian Out	100
20101 Excavation Cut 20104 - Excavation Cut - Pea Gravel	<u> </u>
20104 - Excavation Cut - Pea Graver	-184
20201 Fill 20221 Topsoil	- 104
40102 Crushed Aggregate Base Course	540
Gradation No. 2 & 3	11.8
STAUALIOTTINO. 2 & S	11.0
40201 3" Depth HMA Pavement Type E-0.3	3.3
90003 - Playground Surfacing - Wood	5.5
Mulch	140

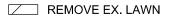


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/d)			sι
-1.4			ιт
-2.4			
-5.9			$ \frac{A}{A}$
0.0			_
27.1			_
08.2			
24.3			
36.4			-
56.8			-
0.0			-
0.6			
-1.2			P
36.0	Units		Ľ.
	CY	Relation to Table Above	0
196	CY	=Subsoil Excavate + Topsoil Excavate	SF
110		= Play Surface Excavate	5
184		= Subsoil Excavate - Subsoil Place	
340		= Topsoil Place/.167 (depth)	
11.8	TONS	= (Gravel Place) * 2.0 ton/cubic yard	
3.3	TONS	= Asphalt Place * 2.16 ton/cubic yard	SF
140	CY	= Play Surface Place*1.10	
			1



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

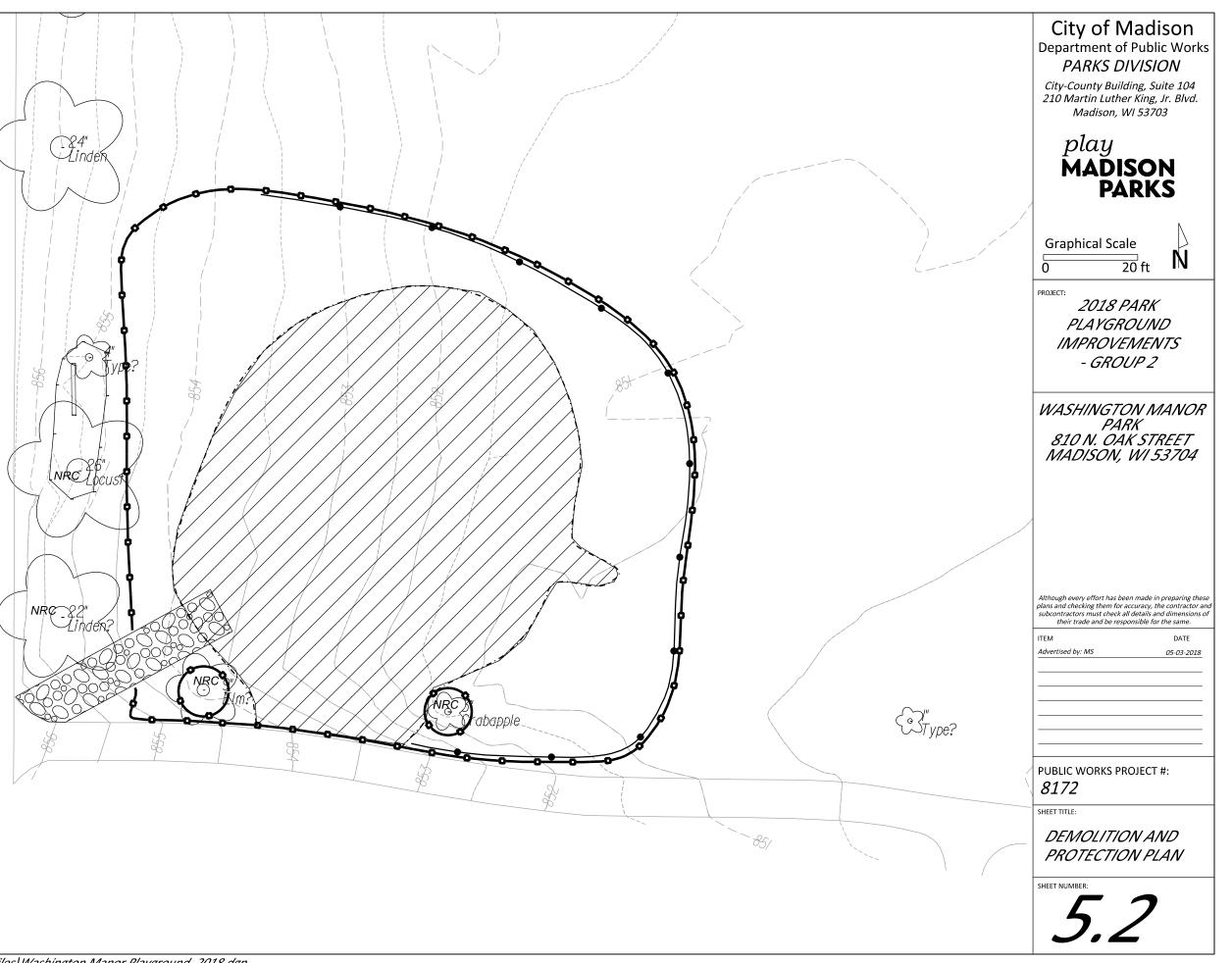
LEGEND

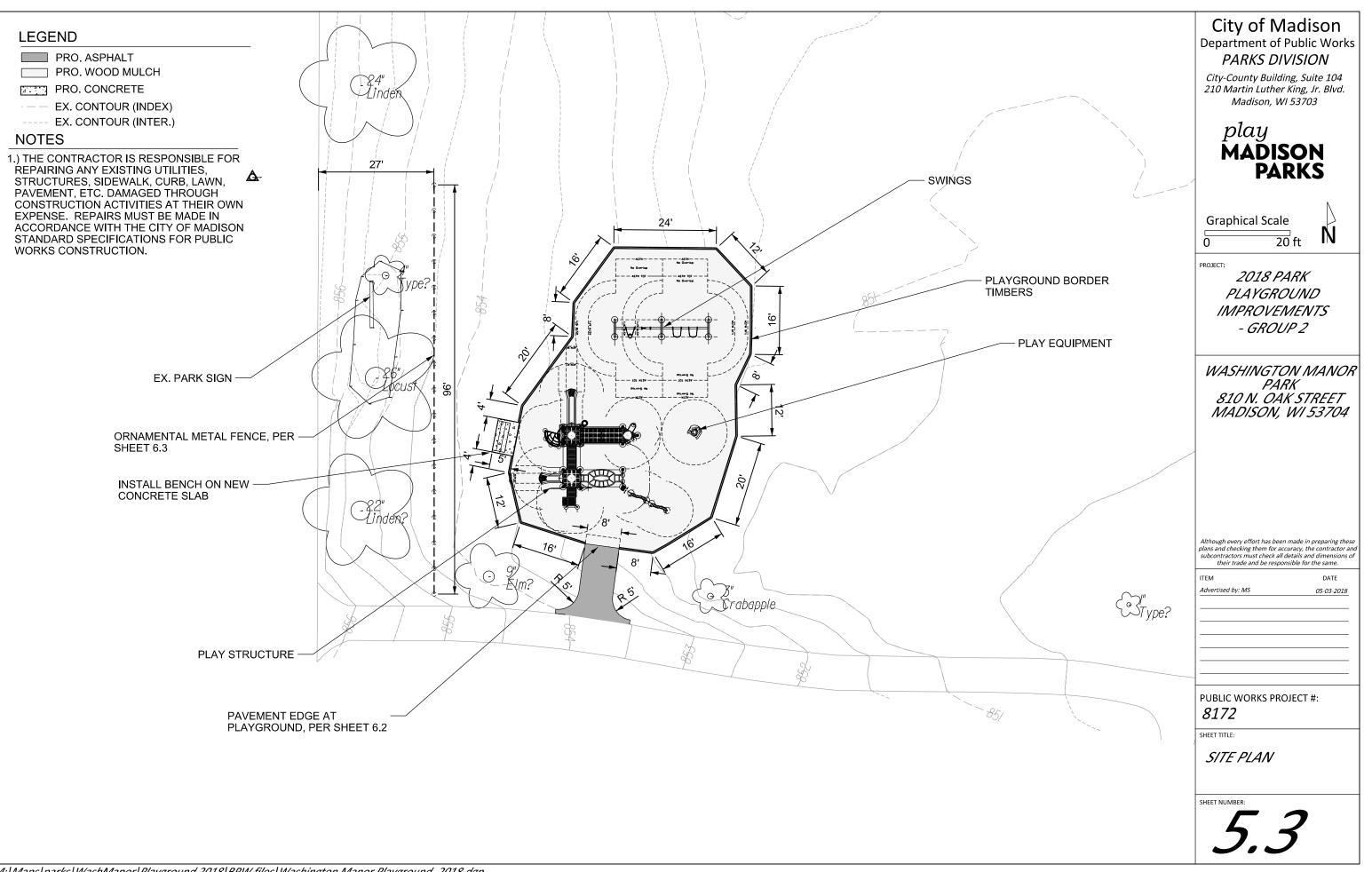


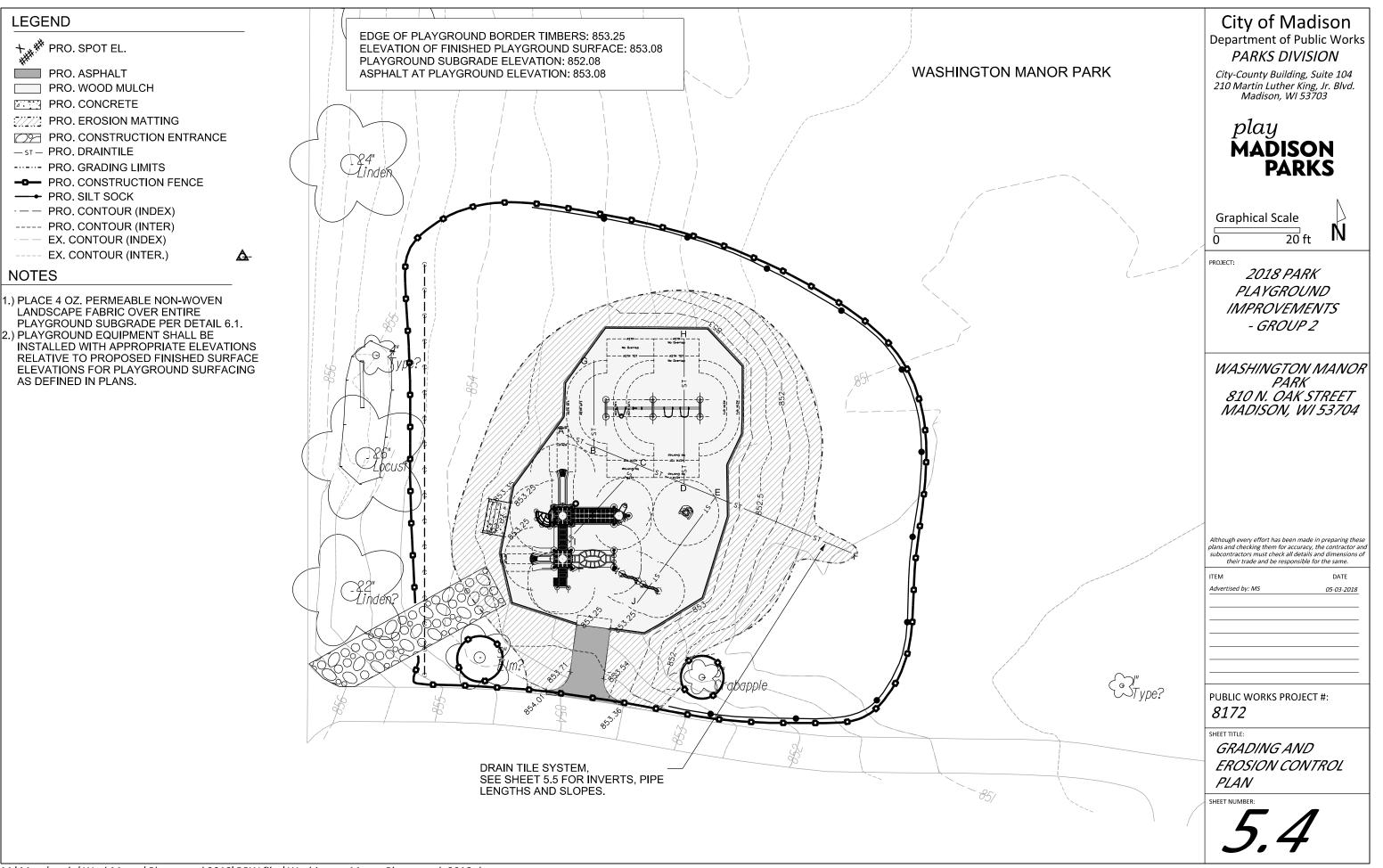
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- -D- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- -- EX. CONTOUR (INDEX)
- ----- EX. CONTOUR (INTER.)

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.







Wá	ashington Man	or Park Playground		
Dra	in Tile Invert (F			
Point	Invert (ft)	Distance from top of timbers 853.25 (INCHES)	Ahead leng	gth
Α	851.49	21.1	7.0	
В	851.43	21.8	11.2	
С	851.34	22.9	11.7	
D	851.25	24.0	8.0	
Е	851.18	24.8	34.3	
F	850.90	28.2	0.0	
G	851.49	21.1	20.1	
Н	851.49	21.1	33.9	
I	851.49	21.1	25.5	
J	851.49	21.1	30.8	

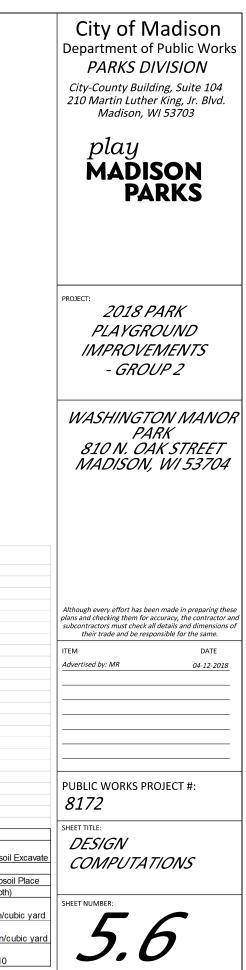
Drain Tile Lengths & Slopes											
from intersection to intersection											
From	То	Length (ft)	Slope (%)								
А	В	7.0	-0.85								
В	С	11.2	-0.81								
С	D	11.7	-0.77								
D	E	8.0	-0.88								
E	F	34.3	-0.82								
G	В	20.1	-0.30								
Н	D	34.0	-0.71								
I	С	25.5	-0.59								
J	E	30.8	-1.01								
	Total	182.58									

Pipe type
Underdrain

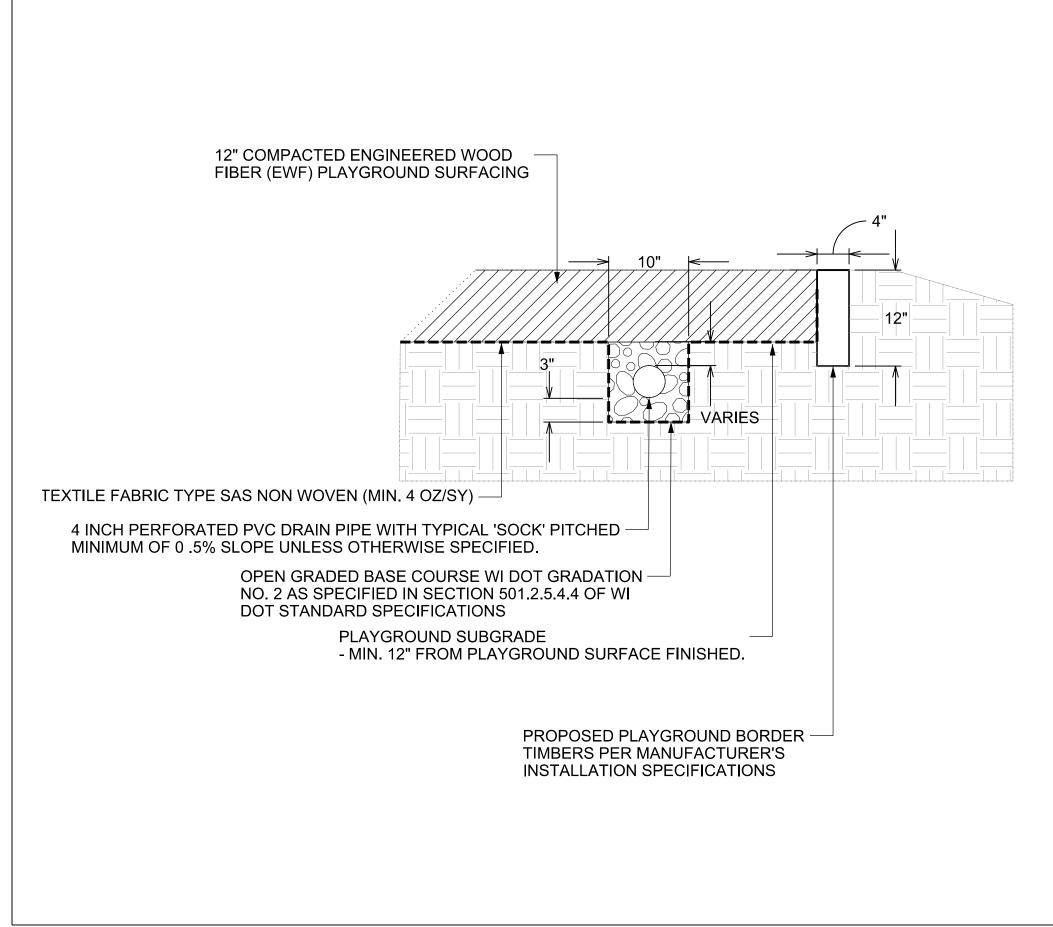
City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 Play MADISON PARKS
PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2
WASHINGTON MANOR PARK 810 N. OAK STREET MADISON, WI 53704
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same. ITEM DATE Advertised by: MR 05-03-2018
PUBLIC WORKS PROJECT #: 8172 SHEET TITLE: DRAIN TILE SCHEDULES
SHEET NUMBER: 5.5

		WI Public Works Contract		3									
	Date Revised:	4/3/201	8										
	Notes:		5										
		are cuts, negative volumes I surface models (Digital Te	errain Models) are used for com	outations or	intended for	actual co	onstruction						
	E. S. Bar												
	Existing Proposed												
	Proposed												
											Factored		
				From	То			Unfac- tored	Unfac- tored	Expan- sion	(Uncom- pacted)		
				Surface	Surface	area	depth	volume	volume	Factor	Volume		
	Grp	Material	Item	Model	Model	(sq ft)	(ft)	(cu ft)	(cu yd)	(%)	(cu yd)		
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	3051	0.50	1526	56.5	0%	56.5		
	Grass to Grass	Subsoil Excavate	subgrade	Ex-6in	Pro-6in	3051	varies	100	3.7	0%	3.7		
	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	3051	varies	-1555	-57.6	0%	-57.6		
	Grass to Grass		Place 6in topsoil	n/a	n/a	3051		-1526		0%	-56.5		
	Play Surface to		Remove existing play surface,										
	Grass	Play Surface Excavate	estimated depth 17in	n/a	n/a		1.42	0	0.0	0%	0.0		
	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in		varies		0.0	0%	0.0		
	Play Surface to							-					
	Grass	Topsoil Place	Place 6in topsoil	n/a	n/a		-0.50	0	0.0	0%	0.0		
	Play Surface to		Remove existing play surface,										
	Play Surface Play Surface to	Play Surface Excavate	estimated depth 17in Cut subsoil to proposed	n/a	n/a		1.42	0	0.0	0%	0.0		
	Play Surface	Subsoil Excavate	subgrade	Ex-17in	Pro-12in		varies	0	0.0	0%	0.0		
	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0		
	Play Surface to		Place 12in wood mulch play										
	Play Surface	Play Surface Place	surface	n/a	n/a		-1.00	0	0.0	0%	0.0		
	Play Surface to		Remove existing play surface,										
_	Timbers Play Surface to	Play Surface Excavate	estimated depth 17in Cut subsoil to proposed	n/a	n/a		1.42	0	0.0	0%	0.0		
	Timbers	Subsoil Excavate	subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0		
	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in		varies		0.0	0%	0.0		
			Place playground border										
	Play Surface to Timbers	Border Timbers Place (placeholder volume)	timbers (placeholder volume to balance volume comps)	n/a	n/a		-1.00	0	0.0	0%	0.0		
_	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil Cut subsoil to proposed	n/a	n/a	162	0.50	81	3.0	0%	3.0		
	Grass to Asphalt	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	162	varies	23	0.8	0%	0.8		
	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	162	varies	-14	-0.5	0%	-0.5		
		Gravel (for Pavement)	Place 9in gravel base out to										
_	Grass to Asphalt	Place	6in from pavement edge	n/a	n/a	162	-0.75	-122	-4.5	0%	-4.5		
	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	162	-0.25	-41	4.5	0%	-1.5		
				Tir G	10.04		=0.25		-1.5	070	-1.0		
	Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in					0					
	Grass to Asphalt Grass to		Place 3in topsoil over 6in wide gravel edge	n/a	n/a		-0.25	0	0.0	0%	0.0	Washington Manor Park Playgrour	d - Earthwork Quantities
	Grass to Timbers	Topsoil Place Topsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil			60	-0.25					Washington Manor Park Playgrour City of Madison, WI Public Works Contract	d - Earthwork Quantities
	Grass to Timbers Grass to Timbers		Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade	n/a	n/a		-0.25 0.50	0	0.0	0%	0.0		
	Grass to Timbers Grass to Timbers Grass to	Topsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed	n/a n/a	n/a n/a Pro-12in	60	-0.25 0.50 varies	0 30	0.0	0%	0.0 1.1 0.8	City of Madison, WI Public Works Contract Date Revised:	5/3/20
	Grass to Timbers Grass to Timbers Grass to Timbers	Topsoil Excavate Subsoil Place Subsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border	n/a n/a Ex-6in	n/a n/a	60	-0.25 0.50 varies	0 30 20	0.0 1.1 0.8	0% 0% 0%	0.0	City of Madison, WI Public Works Contract	5/3/20
	Grass to Timbers Grass to Timbers Grass to	Topsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade	n/a n/a Ex-6in	n/a n/a Pro-12in Pro-12in	60	-0.25 0.50 varies varies	0 30 20	0.0 1.1 0.8 -1.2	0% 0% 0%	0.0 1.1 0.8 -1.2	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai	5/3/20
	Grass to Timbers Grass to Timbers Grass to Timbers Grass to Timbers	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps)	n/a n/a Ex-6in Ex-6in	n/a n/a Pro-12in	60 60 60	-0.25 0.50 varies varies	0 30 20 -31	0.0 1.1 0.8 -1.2	0% 0% 0%	0.0 1.1 0.8 -1.2	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary	5/3/20 lable from Parks Div
	Grass to Timbers Grass to Timbers Grass to Timbers Grass to	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume	n/a n/a Ex-6in Ex-6in	n/a n/a Pro-12in Pro-12in	60 60 60	-0.25 0.50 varies varies	0 30 20 -31	0.0 1.1 0.8 -1.2	0% 0% 0%	0.0 1.1 0.8 -1.2	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai	5/3/20 lable from Parks Div
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed	n/a n/a Ex-6in Ex-6in n/a	n/a n/a Pro-12in Pro-12in n/a n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42	0 30 20 -31 -60	0.0 1.1 0.8 -1.2 -2.2 0.0	0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary	5/3/20 lable from Parks Div
	Grass to Timbers Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume)	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in	n/a n/a Ex-6in Ex-6in n/a	n/a n/a Pro-12in Pro-12in n/a	60 60 60	-0.25 0.50 varies varies -1.00	0 30 20 -31 -60	0.0 1.1 0.8 -1.2 -2.2	0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y
	Grass to Timbers Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade	n/a n/a Ex-6in Ex-6in n/a	n/a n/a Pro-12in Pro-12in n/a n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42	0 30 20 -31 -60	0.0 1.1 0.8 -1.2 -2.2 0.0	0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Asphalt Place	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y
	Grass to Timbers Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place plaground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade	n/a n/a Ex-6in Ex-6in n/a Ex-17n	n/a n/a Pro-12in Pro-12in n/a n/a Pro-12in	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies	0 30 20 -31 -60	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0	0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Asphalt Place Border Timbers Place (placeholder volume)	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y -
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 9in gravel base out to 6in from pavement edge	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n Ex-17in n/a	n/a n/a Pro-12in Pro-12in n/a Pro-12in Pro-12in Pro-12in n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies -0.75	0 30 20 -31 -60 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y
	Grass to Timbers Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement)	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Filas 6in gravel base out to 6in from pavement edge Place 3in asphalt	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n	n/a n/a Pro-12in Pro-12in n/a n/a Pro-12in Pro-12in	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies	0 30 20 -31 -60	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels • Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - -
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 9in gravel base out to 6in from pavement edge	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n Ex-17in n/a	n/a n/a Pro-12in Pro-12in n/a Pro-12in Pro-12in Pro-12in n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies -0.75	0 30 20 -31 -60 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate Play Surface Place	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - - - - - 11
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Place 9in gravel base out to 6in from pavement edge Place 3in asphalt Place 3in topsoil over 6in wide gravel edge	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n n/a n/a	n/a n/a Pro-12in n/a n/a Pro-12in Pro-12in Pro-12in n/a n/a n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies varies -0.75 -0.25 -0.25	0 30 20 -31 -60 0 0 0 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Row Labels Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate Play Surface Place	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - - - - 11 3
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Asphalt Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 0in gravel base out to 6in from pavement edge Place 3in asphalt Place 3in asphalt Place 3in asphalt Place 3in asphalt Place 3in asphalt Cut subsoil to proposed	n/a n/a Ex-6in Ex-6in n/a Ex-17in n/a n/a n/a n/a	n/a n/a Pro-12in n/a n/a Pro-12in n/a Pro-12in n/a n/a n/a n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies -0.75 -0.25 -0.25 -0.25	0 30 20 -31 -60 0 0 0 0 0 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels • Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Excavate	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - 11 3 -8
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Place 0in gravel base out to 6in from pavement edge Place 3in asphalt Place 3in topsoil over 6in wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n n/a n/a	n/a n/a Pro-12in n/a n/a Pro-12in Pro-12in Pro-12in n/a n/a n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies varies -0.75 -0.25 -0.25	0 30 20 -31 -60 0 0 0 0 0 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Topsoil Excavate Topsoil Excavate	5/3/20 able from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - - - - 11 - 3 - 11 - 3 - 11 - 5
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Asphalt Excavate Subsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 0in gravel base out to 6in from pavement edge Place 3in asphalt Place 3in asphalt Place 3in asphalt Place 3in asphalt Place 3in asphalt Cut subsoil to proposed	n/a n/a Ex-6in Ex-6in n/a Ex-17in n/a n/a n/a n/a	n/a n/a Pro-12in n/a n/a Pro-12in n/a Pro-12in n/a n/a n/a n/a	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies -0.75 -0.25 -0.25 -0.25	0 30 20 -31 -60 0 0 0 0 0 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels • Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Topsoil Excavate Topsoil Place Asphalt Excavate	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - - - - - - - - 11 3 -8 11 -5
	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Play Surface to Asphalt Asphalt to Grass Asphalt to Grass	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume to balance volume to balance volume to balance volume to subgrade Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume to to proposed subgrade Place 3in topsoil to proposed subgrade Fill subsoil to proposed subgrade Fill subsoil to proposed subgrade	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n n/a n/a Ex-17in n/a n/a Ex-12in Ex-12in	n/a n/a Pro-12in n/a Pro-12in n/a Pro-12in Pro-12in n/a n/a n/a n/a n/a Pro-6in Pro-6in	60 60 60	-0.25 0.50 varies varies -1.00 1.42 varies varies -0.75 -0.25 1.00 varies varies	0 30 20 -31 -60 0 0 0 0 0 0	0.0 1.1 0.8 -1.2 -2.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels • Asphalt Place Border Timbers Place (placeholder volume) Gravel (for Pavement) Place Play Surface Excavate Play Surface Place Subsoil Excavate Play Surface Place Subsoil Excavate Subsoil Place Topsoil Place Asphalt Excavate Grand Total	5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - - - - - - - - 11 3 -8 11 -5
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	Grass to Timbers Grass to Timbers Grass to Timbers Play Surface to Asphalt Play Surface to Asphalt Clay Surface to Asphalt Clay Surface to Asphalt Clay Surface to Asphalt to Grass Asphalt to Grass Grass to Playsurface Grass to Playsurface Crass to	Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate	Place 3in topsoil over 6in wide gravel edge Strip 6in topsoil Fill subsoil to proposed subgrade Cut subsoil to proposed subgrade Place playground border timbers (placeholder volume to balance volume comps) Remove existing play surface, estimated depth 17in Cut subsoil to proposed subgrade Place of in gravel base out to 6in from pavement edge Place 3in asphalt Place 3in topsoil over 6in wide gravel edge Excavate 12in asphalt Cut subsoil to proposed subgrade Fill subsoil to proposed subgrade Place 6in topsoil Strip 6in topsoil Strip 6in topsoil Strip 6in topsoil Place 12in wood mulch play	n/a n/a Ex-6in Ex-6in n/a Ex-17n Ex-17n n/a n/a n/a Ex-12in Ex-12in Ex-12in n/a Ex-12in Ex-12in Ex-12in A A A A A A A A A A A A A	n/a n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a Pro-12in n/a n/a n/a n/a Pro-6in Pro-6in n/a Pro-12in	80 80 80 80 80 80 80 80 80 80 80 80 80 8	-0.25 0.50 varies varies -1.00 1.42 varies varies -0.75 -0.25 -0.25 1.00 varies varies -0.50 0.50 varies varies	0 30 20 -31 -60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 1.1 0.8 -1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0% 0% 0% 0% 0% 0% 0% 0% 0%	0.0 1.1 0.8 -1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	City of Madison, WI Public Works Contract Date Revised: Dervied from more detailed spreadsheet avai Computation Summary Positive volumes are cuts (material available) Row Labels Row Labels Play Surface Place Play Surface Place (placeholder volume) Gravel (for Pavement) Place Play Surface Place Subsoil Excavate Play Surface Place Subsoil Excavate Subsoil Place Topsoil Place Asphalt Excavate Grand Total Reorganized into bid table items Bid Item 20101 Excavation Cut 20104 - Excavation Cut	5/3/20 able from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y - - - - - - - - - - - - - - - - - - -
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M:|Maps|parks|WashManor|Playground 2018|BPW files|Washington Manor Playground_2018.dgn

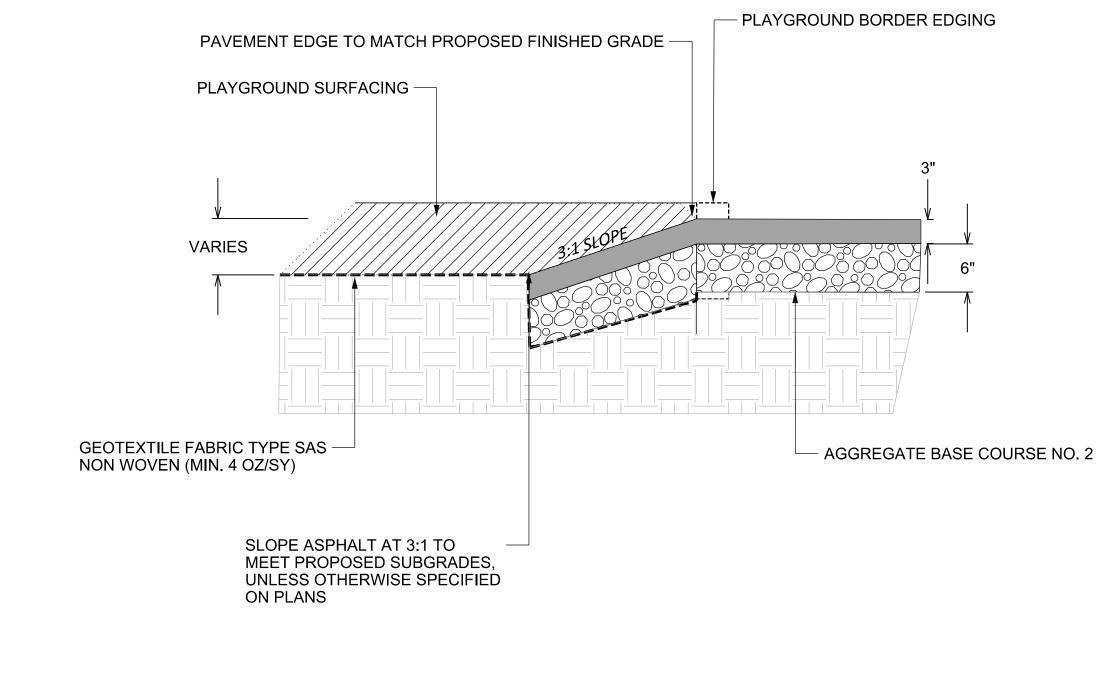


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	CY	Relation to Table Above	
	CY	=Subsoil Excavate + Topsoil Excavate	
	CY	= Play Surface Excavate	
	CY	= Subsoil Excavate - Subsoil Place	
38	SY	= Topsoil Place/.167 (depth)	┢
0.7	TONS	= (Gravel Place) * 2.0 ton/cubic yard	
16	TONS	= Asphalt Place * 2.16 ton/cubic yard	
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23	CY	= Play Surface Place*1.10	
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F:|Paroot|Planning|Capital Projects|Playgrounds|2018 Capital Projects|Contract 2 - Mike|BPW Contract|Group2CoverSheetandDetails.dgn

City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 play MAĎISON PARKS PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS-GROUP 2 Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same. ITEM DATE Advertised by: MS 05-03-2018 PUBLIC WORKS PROJECT #: 8172 SHEET TITLE: TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN SHEET NUMBER: h.



City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 play MADISON PARKS PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS-GROUP 2 Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same. ITEM DATE Advertised by: MS 05-03-2018 PUBLIC WORKS PROJECT #: 8172 SHEET TITLE: PAVEMENT EDGE AT PLAYGROUND SHEET NUMBER: 6.

