SHEET 1.1 PROJECT LOCATION AND SITE ACCESS

SHEET 1.2 DEMOLITION AND PROTECTION PLAN

SHEET 1.3 SITE PLAN

SHEET 1.4 UTILITY PLAN

SHEET 1.5 GRADING AND EROSION CONTROL PLAN

SHEET 1.6 ASPHALT PATH SECTION

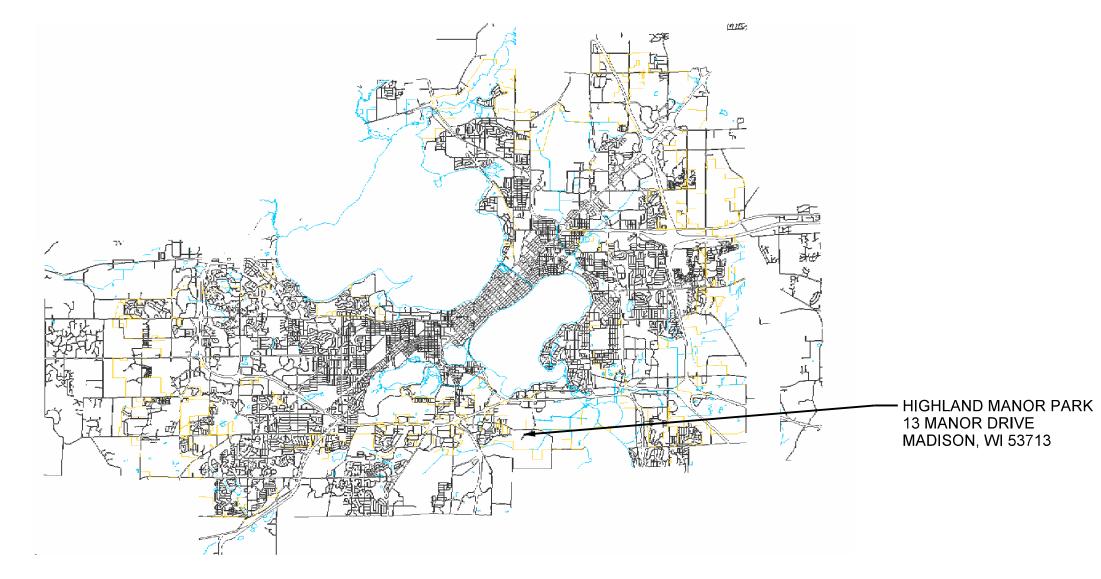
SHEET 1.7 BASKETBALL HOOP AND POLE DETAIL

SHEET 1.8 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN

SHEET 1.9 ASPHALT EDGE AT PLAYGROUND

SHEET 1.10 DESIGN CALCULATIONS

#### HIGHLAND MANOR PARK IMPROVEMENTS CONTRACT # 7466



City of Madison
Department of Public Works
PARKS DIVISION

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

play
MADISON
PARKS

PROJECT:

HIGHLAND MANOR PARK IMPROVEMENTS

HIGHLAND MANOR PARK 13 MANOR DR MADISON, WI 53713

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

ITEM DATE

Drawn by: xx-xx-xxxx

Approved by: xx-xx-xxxx

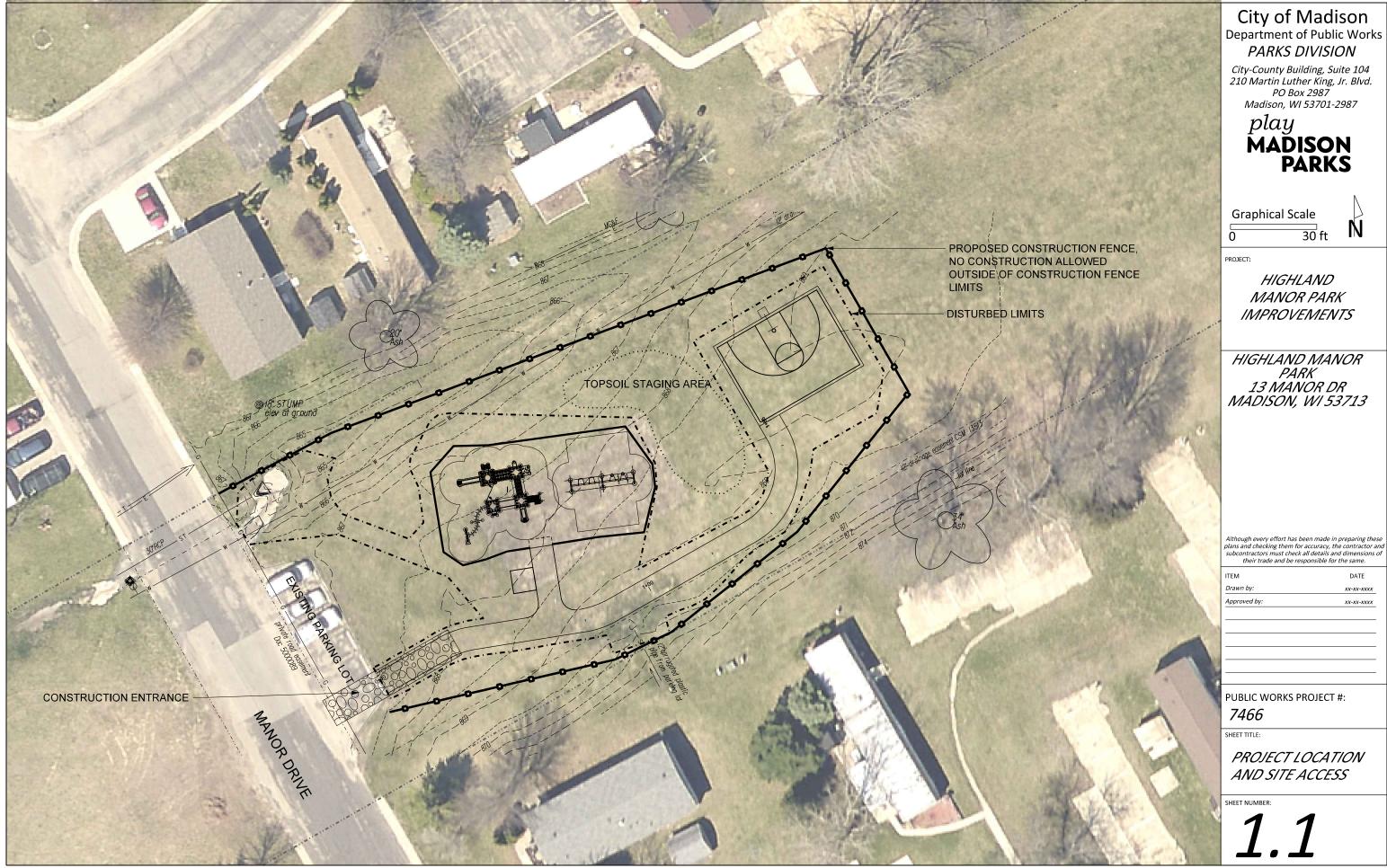
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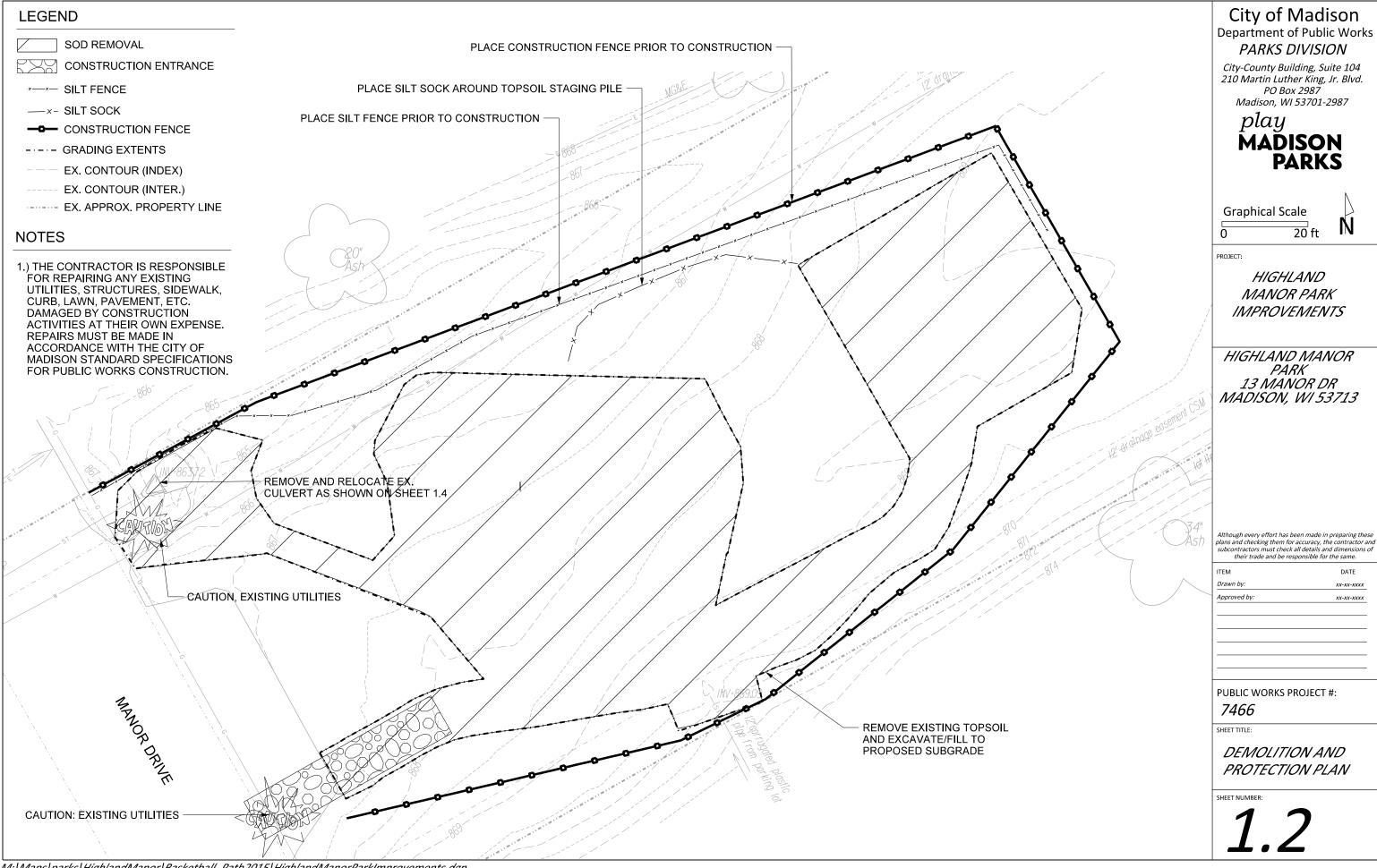
7466

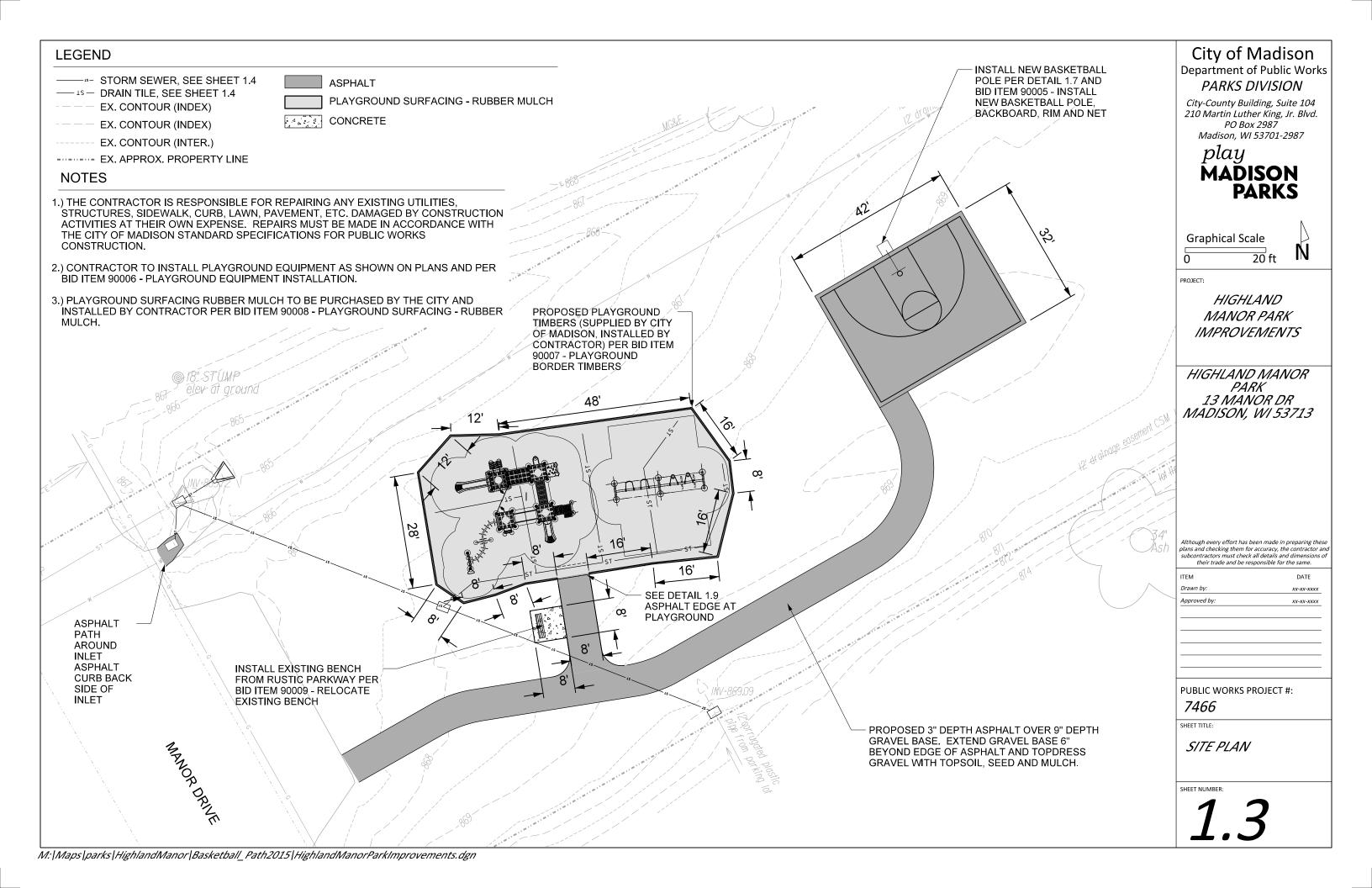
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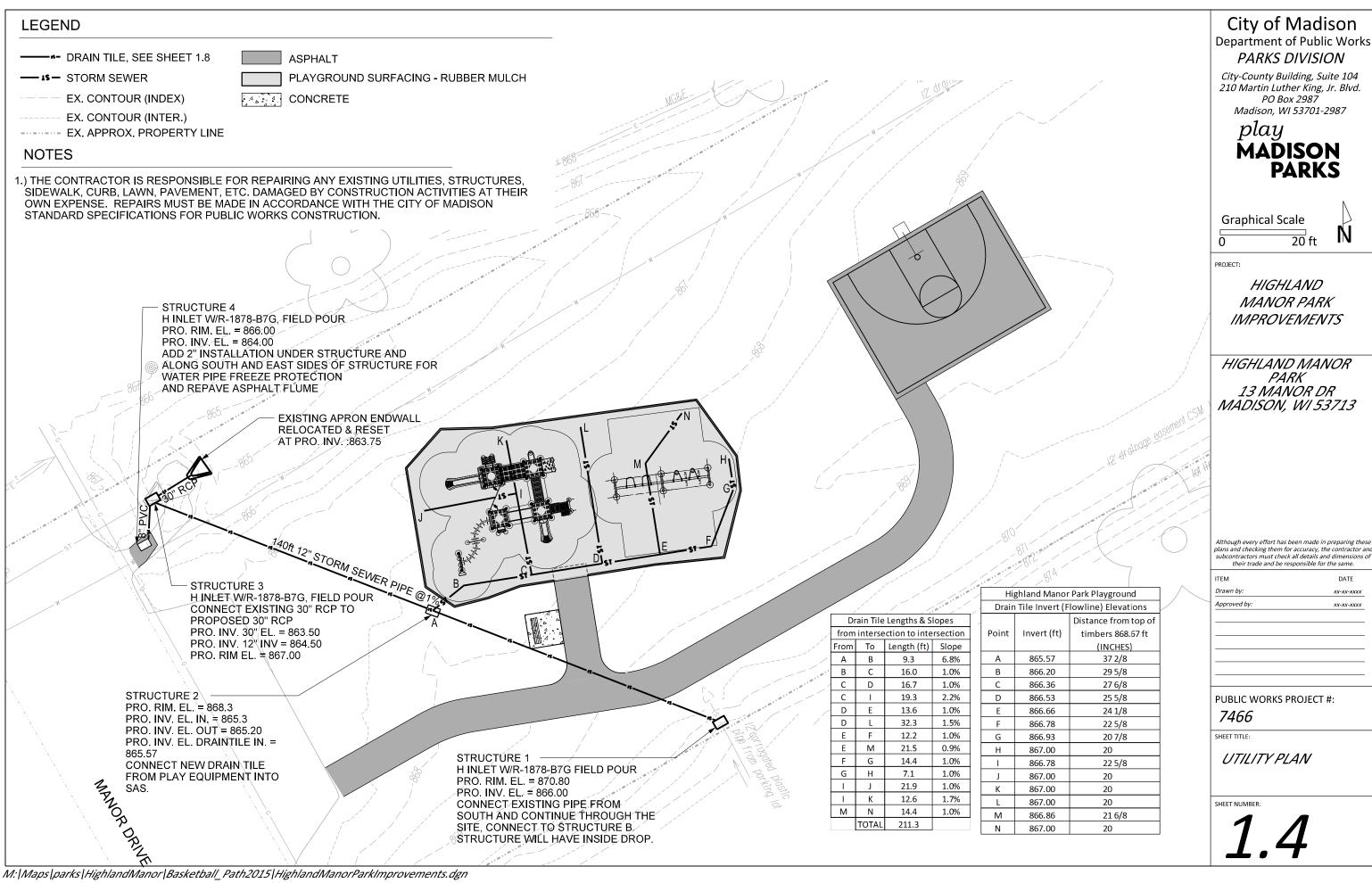
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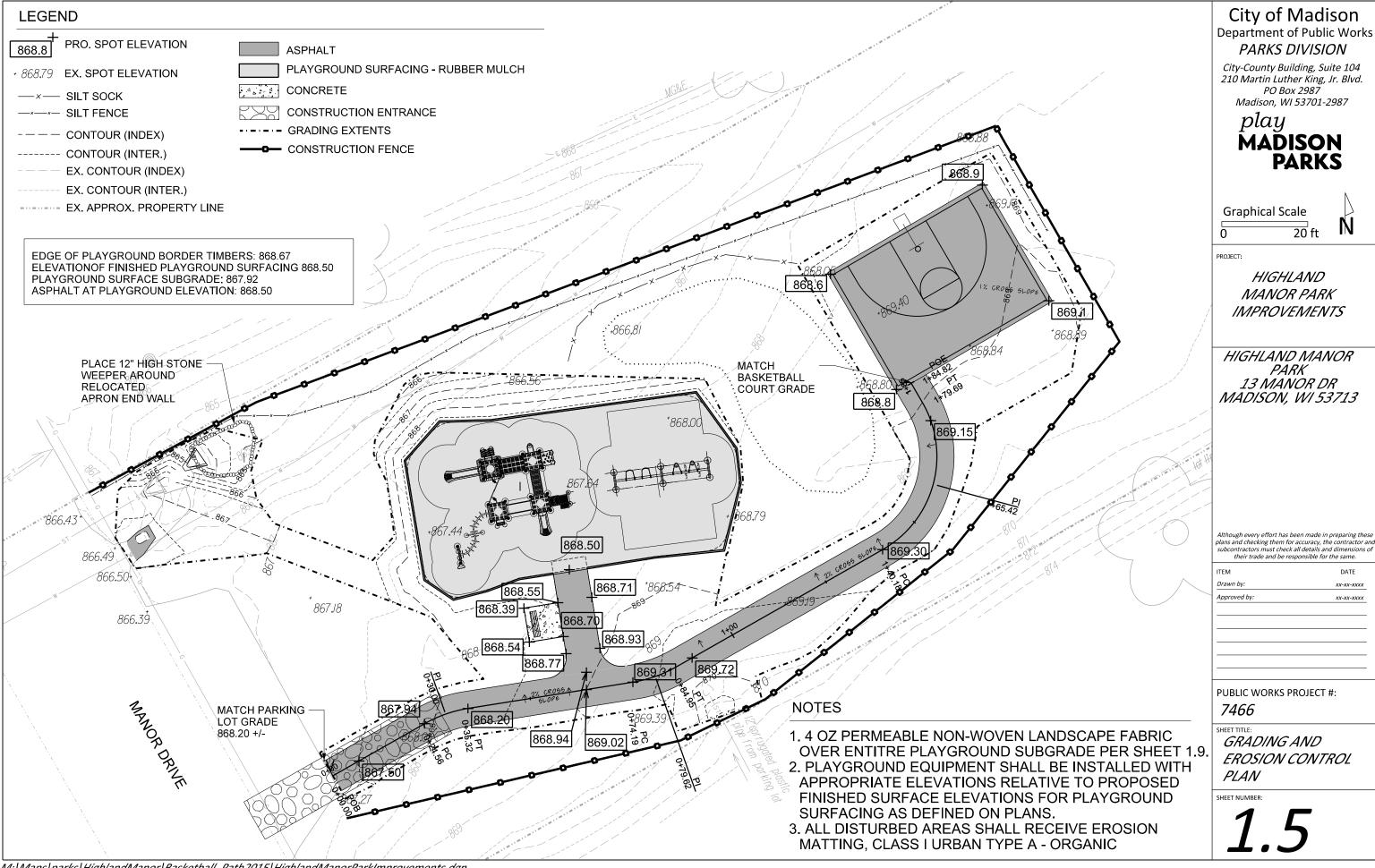
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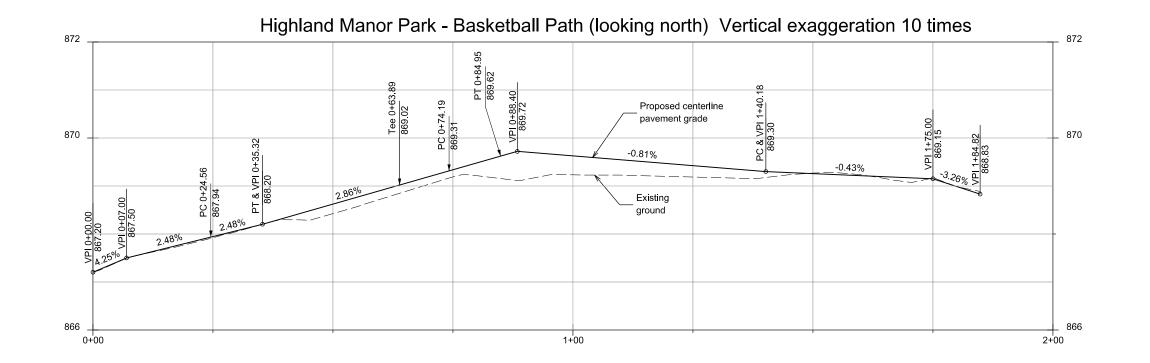








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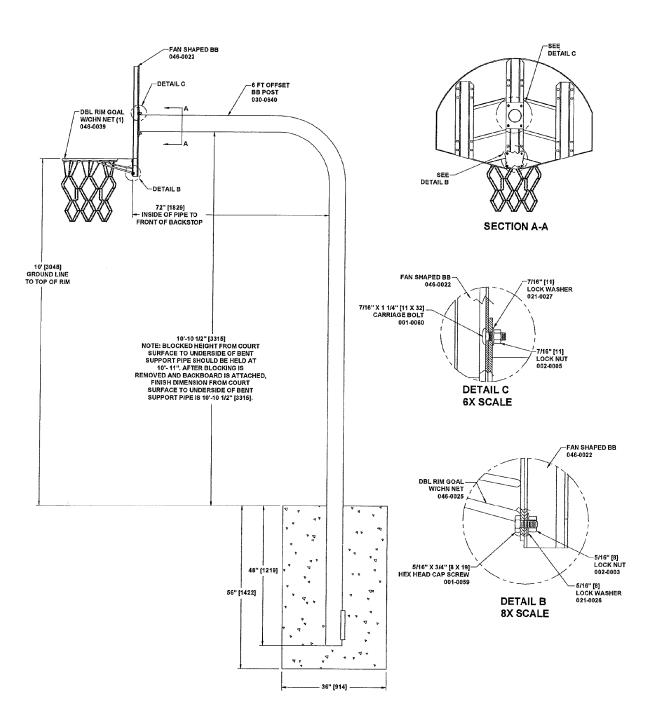
7466

SHEET TITLE:

ASPHALT
PATH SECTION

SHEET NUMBI

8/10/00



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

**BCI Burke Company, LLC** 

P.O. Box 549 Fond du Lac, Wisconsin 54936-0549

Telephone 1-800-356-2070

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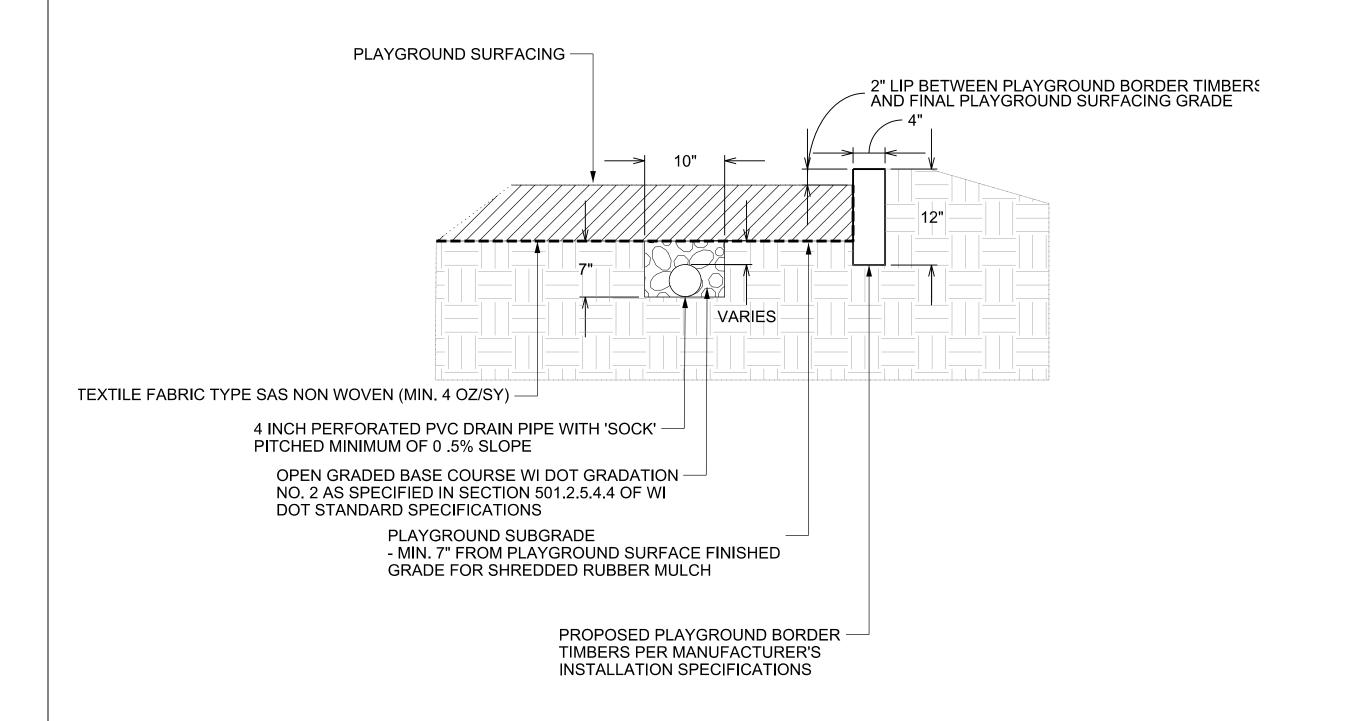
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SHEET TIT

BASKETBALL HOOP AND POLE DETAIL

SHEET NUMBI



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7466

SHEET T

TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN

SHEET NUM

#### PLAYGROUND BORDER EDGING ASPHALT EDGE TO MATCH PROPOSED FINISHED GRADE — PLAYGROUND SURFACING -**VARIES** GEOTEXTILE FABRIC TYPE SAS — - AGGREGATE BASE COURSE NO. 2 NON WOVEN (MIN. 4 OZ/SY) SLOPE ASPHALT AT 3:1 TO MEET PROPOSED SUBGRADES, **UNLESS OTHERWISE SPECIFIED** ON PLANS

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xx-xx-xxxx		

PUBLIC WORKS PROJECT #:

7466

SHEET TITLE:

ASPHALT EDGE AT PLAYGROUND

SHEET NUMB

	City of Madi	Manor Park Playgrou ison, WI Public Works Cont ed: Jan 20 2015	und Basketball & Path - ract	Earthwo	rk Quanti	ities					
		umes are cuts, negative volu of all surface models (Digit	│ mes are fills. al Terrain Models) are used for	computatio	ns or intend	led for act	ual constructio	n.			
	Existing	HiManor Survey2014-08-2	7 altus								
	Proposed	HighManor_Park_Pro3.dtm									
											F4
Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	4066	0.50	2033	75.3	0%	75.3
1.2		Subsoil Excavate	Excavate subsoil to subgrade	Ex-6in	Pro-6in	4066	varies	42	1.6	0%	1.6
1.3	Grass to Grass	Subsoil Place	Place subsoil to subgrade	Ex-6in	Pro-6in	4066	varies	-1242	-46.0	0%	-46.0
1.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	4066	-0.50	-2033	-75.3	0%	-75.3
1.5	Grass to Grass	Storm Sewer (placeholder volume)	Path & Playground: estimated volume of new storm structure & full length of 12in pipe (to adjust subsoil place volume)	n/a	n/a	n/a	n/a	-308	-11.4	0%	-11.4
			Path & Playground: estimated volume of new storm structure & full length								
1.6		Subsoil Place	of 12in pipe (to adjust subsoil place volume)	n/a	n/a	n/a	n/a	308	11.4	0%	11.4
2.1	Grass to Asphalt Grass to	Topsoil Excavate	Strip 6in topsoil Excavate subsoil to	n/a	n/a	3300	0.50	1650	61.1	0%	61.1
2.2	Asphalt Grass to	Subsoil Excavate	pavement subgrade Place subsoil to pavement	Ex-6in	Pro-12in	3300	varies	1355	50.2	0%	50.2
2.3	Asphalt Grass to	Subsoil Place	subgrade Place 9in gravel base out 6in	Ex-6in	Pro-12in	3300	varies	-8	-0.3	0%	-0.3
2.4	Asphalt Grass to	Gravel Place	from pavement edges	n/a	n/a	3300	-0.75	-2475	-91.7	0%	-91.7
2.5	Asphalt Grass to	Asphalt Place	Place 3in asphalt Place 3in topsoil on 6in wide	n/a	n/a	3031	-0.25	-758	-28.1	0%	-28.1
2.6	Grass to	Topsoil Place	gravel edge	n/a	n/a	269	-0.25	-67	-2.5	0%	-2.5
3.1	Concrete Grass to	Topsoil Excavate	Strip 6in topsoil Excavate subsoil to	n/a	n/a	77	0.50	39	1.4	0%	1.4
3.2	Concrete Grass to	Subsoil Excavate	Place subsoil to pavement	Ex-6in	Pro-11in	77	varies	0		0%	0.0
3.3	Concrete Grass to	Subsoil Place	subgrade Place 6in gravel base out 6in	Ex-6in	Pro-11in	77	varies	-7	-0.2	0%	-0.2
3.4	Concrete Grass to	Gravel Place	from pavement edges	n/a	n/a	77	-0.50	-39	-1.4	0%	-1.4
3.5	Concrete Grass to	Concrete Place	Place 5in concrete Place 5in topsoil on 6in wide	n/a	n/a	64	-0.42	-27	-1.0	0%	-1.0
3.6	Grass to	Topsoil Place	gravel edge	n/a	n/a	13	-0.42	-5	-0.2	0%	-0.2
4.1	Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2721	0.50	1361	50.4	0%	50.4
4.2	Grass to Play Surface	Subsoil Excavate	Excavate subsoil to play subgrade	Ex-6in	Pro-7in	2721	varies	52	1.9	0%	1.9
7.2	Grass to Play	Cappoli Excavato	Place subsoil to play	EX OIII	1 10 7111	2721	varies	02	1.0	070	1.0
4.3	Surface Grass to	Subsoil Place	subgrade Place 9in uncompacted	Ex-6in	Pro-7in	2721	varies	-1704	-63.1	0%	-63.1
4.4	Play Surface	Play Surface Place	rubber chips (expected to compact to 7in)	n/a	n/a	2721	-0.58	-1587	-58.8	29%	-75.6
	Grass to Border										
5.1	Timber Grass to	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	68	0.50	34	1.3	0%	1.3
5.2	Border Timber Grass to	Subsoil Excavate	Excavate subsoil to pavement subgrade	Ex-6in	Pro-12in	68	varies	9	0.3	0%	0.3
5.3	Border	Subsoil Place	Place subsoil to pavement subgrade	Ex-6in	Pro-12in	68	varies	-33	-1.2	0%	-1.2
	Grass to		Place Border Timbers (placeholder volume to								
5.4	Border Timber	Border Timber Place (Placeholder Volume)	balance volume computations)	n/a	n/a	68	-1.00	-68	-2.5	0%	-2.5
			Asphalt - Place ramp in play surface to subgrade (8ft wide,								
6.1	Adjust	Asphalt Place	2.25 ft @ 3:1 slope) Path Gravel - place under	n/a	n/a	18	-0.25	-5	-0.2	0%	-0.2
6.2	Adjust	Gravel Place	ramp in play surface Reduce subsoil place in play	n/a	n/a	25	-0.75	-19	-0.7	0%	-0.7
6.3	Adjust	Subsoil Place	area by 1/2 of path ramp asphalt/gravel volume	n/a	n/a	n/a	n/a	12	0.4	0%	0.4
6.4	Adjust	Play Surface Place	Reduce play surface volume by 1/2 of path ramp asphalt/gravel volume	n/a	n/a	n/a	n/a	12	0.4	0%	0.4
			and Production Volume			// /			Ų.,	270	Ų.,

Highland Manor Park Playground Basketball & Path - Earthwork Quantities

		1	Drain tile - approx 210 ft x 1ft			1		1			
7.1	Adjust	Subsoil Excavate	wide x average 2 ft deep	n/a	n/a	210	2.00	420	15.6	0%	15.
7.1	Aujust	Subsoil Excavate	Drain tile stone - approx 210	II/a	II/a	210	2.00	420	15.6	070	10.
			ft x 1ft wide x average 2 ft								
			deep (approx - includes	١.				اا		• • • •	
7.2	Adjust	Drain Tile Stone Place	volume of pipe itself)	n/a	n/a	210	-2.00	-420	-15.6	0%	-15.
			NW storm sewer - strip								
8.01	NW Storm	Topsoil Excavate	topsoil (preliminary quantity)	n/a	n/a	1011	0.50	506	18.7	0%	18.
			NW storm sewer - remove								
			paved drainage ditch from								
8.02	NW Storm	Pavement Excavate	road to existing storm sewer	n/a	n/a	150	0.50	75	2.8	0%	2.
			NW storm sewer - gross								
			subsoil excavation								
8.03	NW Storm	Subsoil Excavate	(preliminary quantity)	Ex-6in	Pro-6in	1161	varies	83	3.1	0%	3.
			NW storm sewer - gross								
			subsoil placement								
8.04	NW Storm	Subsoil Place	(preliminary quantity)	Ex-6in	Pro-6in	1161	varies	-601	-22.3	0%	-22.
			NW storm sewer - place 6in								
8.05	NW Storm	Topsoil Place	topsoil	n/a	n/a	1138	-0.50	-569	-21.1	0%	-21.
		'	NW storm sewer - place 6in								
			gravel base under asphalt								
			around Storm Sewer								
8.06	NW Storm	Gravel Place	Structure C	n/a	n/a	23	-0.50	-12	-0.4	0%	-0.
0.00	1444 Otolili	Ciavoi i iacc	NW storm sewer - place 3in	III G	TIV CI	20	0.00	12	0.4	0 70	0.
			asphalt around Storm Sewer								
8.07	NIM Storm	Asphalt Place	Structure C	n/a	n/a	23	-0.25	-6	-0.2	0%	-0.
0.07	INVV Stollil	Aspiral Flace	NW storm sewer - reduce	II/a	II/a	23	-0.25	-0	-0.2	0 /0	-0.
			subsoil place by volume of								
			asphalt & gravel more than								
0.00	N. N. A. C.	Subsoil Place	6in below surface (to balance			00	0.05	ا ا		00/	•
8.08	NVV Storm	Subsoil Place	volume comps	n/a	n/a	23	0.25	6	0.2	0%	0.
			NW storm sewer - approx								
			volume of new storm								
			structures & pipe within								
			surface model (to adjust								
			subsoil volumes). Excludes								
		Storm Sewer (placeholder	140ft 12in pipe in separate								
8.09	NW Storm	volume)	item.	n/a	n/a	n/a	n/a	-190	-7.0	0%	-7.
			NW storm sewer - reduce								
			subsoil place volume by								
			approx volume of new storm								
			structures & pipe within								
			surface model. Excludes								
			140ft 12in pipe in separate								
8 10	NW Storm	Subsoil Place	item.	n/a	n/a	n/a	n/a	190	7.0	0%	7.
00	0.01111	1-11-31111400			•	u	111 G			5 70	- '

	Sum of Factored (Uncom- pacted) Volume (cu		
Row Labels	yd)		Notes / check calculations
			Asphalt = 3049 sq ft x 3in = 28.2 cu yd; +
			23 sq ft x 3in (around storm structure C)
			= 0.2 cu yd = 28.4 cu yd total x 2.16
Asphalt Place	-28.4		ton/cu yd = <u>61.3 ton</u>
Border Timber Place			
(Placeholder Volume)	-2.5		Not part of bid quantities
			Concrete (8x8ft bench pad) = 64 sq ft x
Concrete Place	-1.0		5in = 1.0 cu yd
Gravel Place	-94.2		94 cu yd x 2 ton/cu yd = 188 ton
			Pavement Excavate = existing ditch off
Pavement Excavate	2.8		road at NW corner of park
			Play surface 2721 sq ft x 9in
			uncompacted = 76 cu yd, less portion in
Play Surface Place	-75.1		asphalt ramp = 75 cu yd
Storm Sewer (placeholder			
volume)	-18.4		Not part of bid quantities
Subsoil Excavate	72.6		
Subsoil Place	-114.0		
Topsoil Excavate	208.2		
Topsoil Place	-99.1		
Drain Tile Stone Place	-15.6		(Part of drain tile lump sum)
Grand Total	-164.8		,
Net of topsoil & subsoil	68	cu yd (positive	= extra material left over)
		- "	

#### Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
Excavation Cut	75	CY	Pavement Excavate+Subsoil Excavate
Fill Borrow *	114	CY	Subsoil Place + some Topsoil Excavate
Strip Topsoil	208	CY	Topsoil Excavate ( x 6 = 1,248 SY)
Topsoil Redistribution	99	CY	Topsoil Place (x 6 = 594 SY)
Hauling & Disposal	71	CY	Pavement Excavate + Topsoil & Subsoil
			Excavate & Place (removed from site)

<sup>\*</sup> a total of 114 CY of Fill Borrow is needed, partly supplied by the 73 CY of Subsoil Excavate. The remainder of the Fill Borrow will be Topsoil Excavate (114 - 73 = 41 CY), leaving only (208 - 99 - 41) = 68 CY extra topsoil to be removed from the site. Any topsoil used as Fill Borrow will only be used in the side slopes, and under the play equipment.

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01-20-2015
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PUBLIC WORKS PROJECT #:

7466

SHEET TITLE:

DESIGN CALCULATIONS

SHEET NUMBER