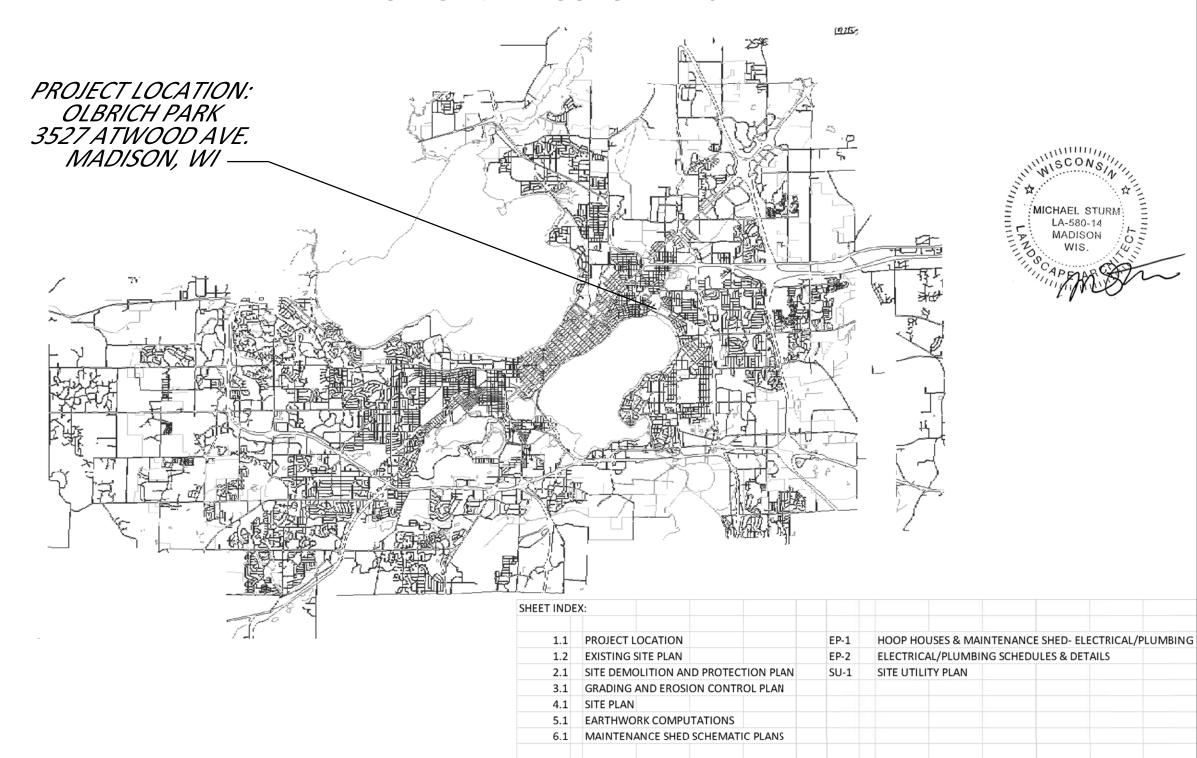
OLBRICH PARK MAINTENANCE SHED

CONTRACT #: 8275 MUNIS #: 17133 -51 -140



City of Madison Department of Public Works PARKS DIVISION

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

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DPOIE

OLBRICH PARK MAINTENANCE SHED

OLBRICH PARK 3527 ATWOOD AVE. MADISON, WI

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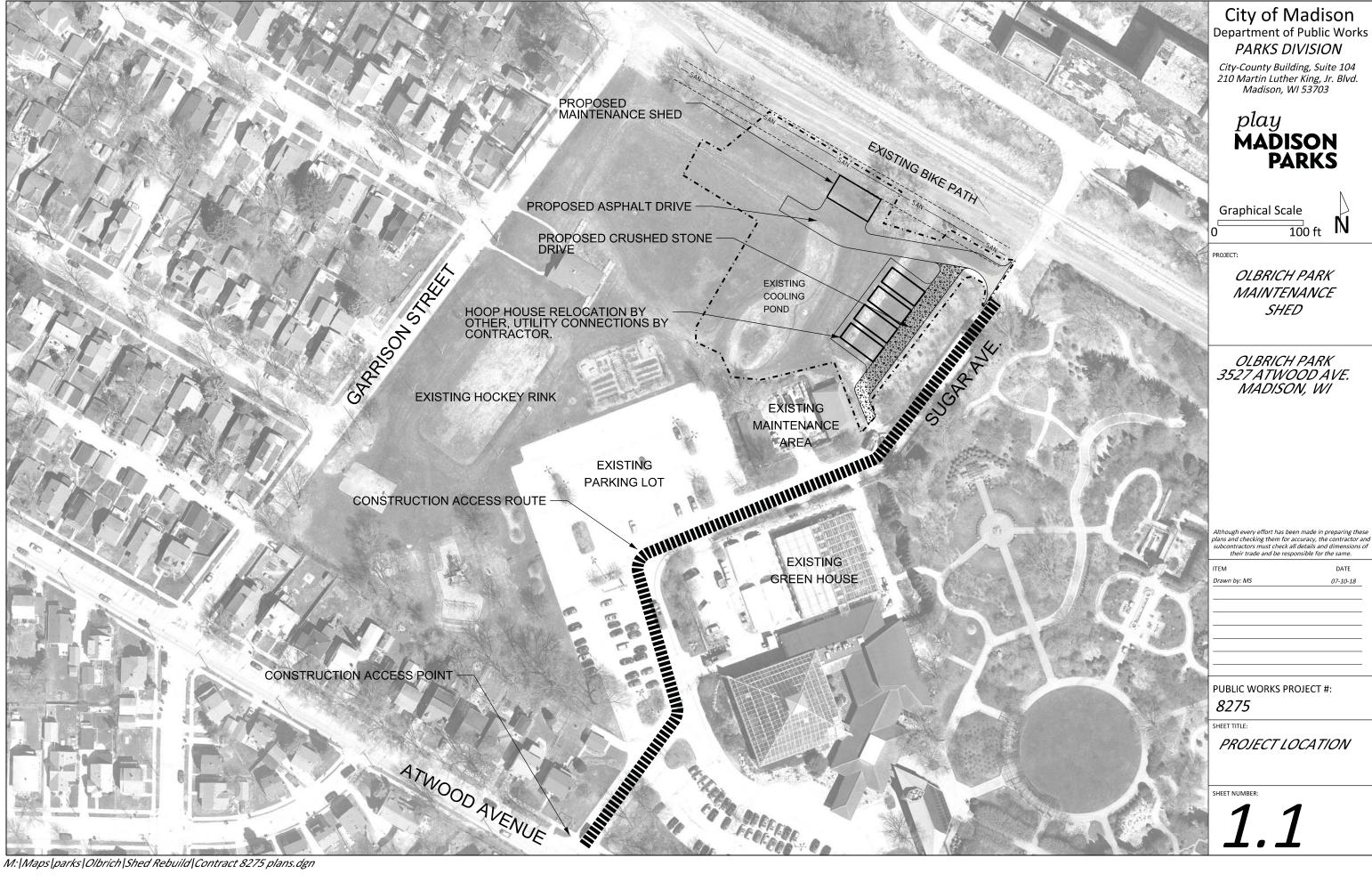
ITEM	DATE		
Drawn by: MS	07-10-18		

PUBLIC WORKS PROJECT #: 8275

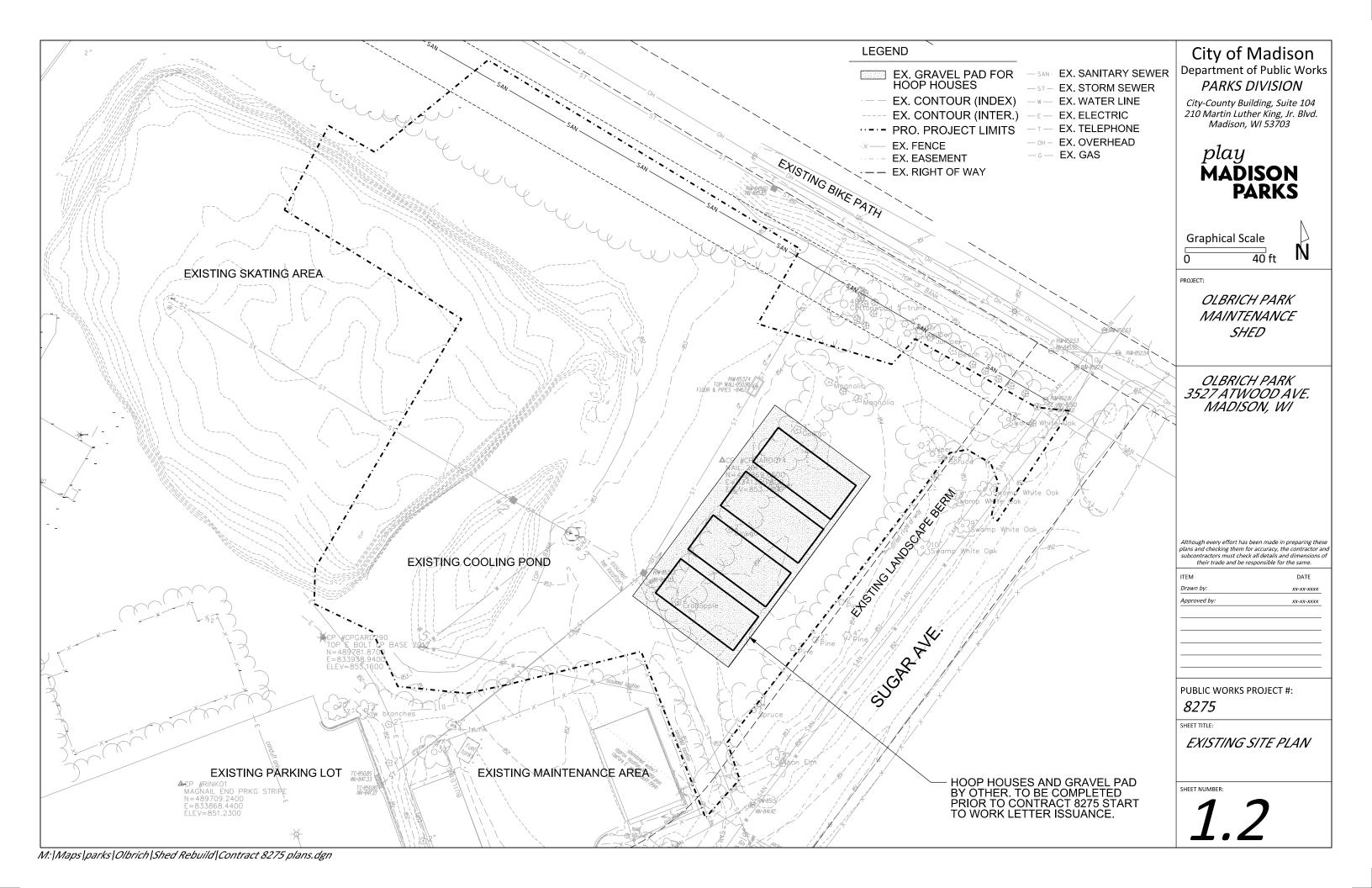
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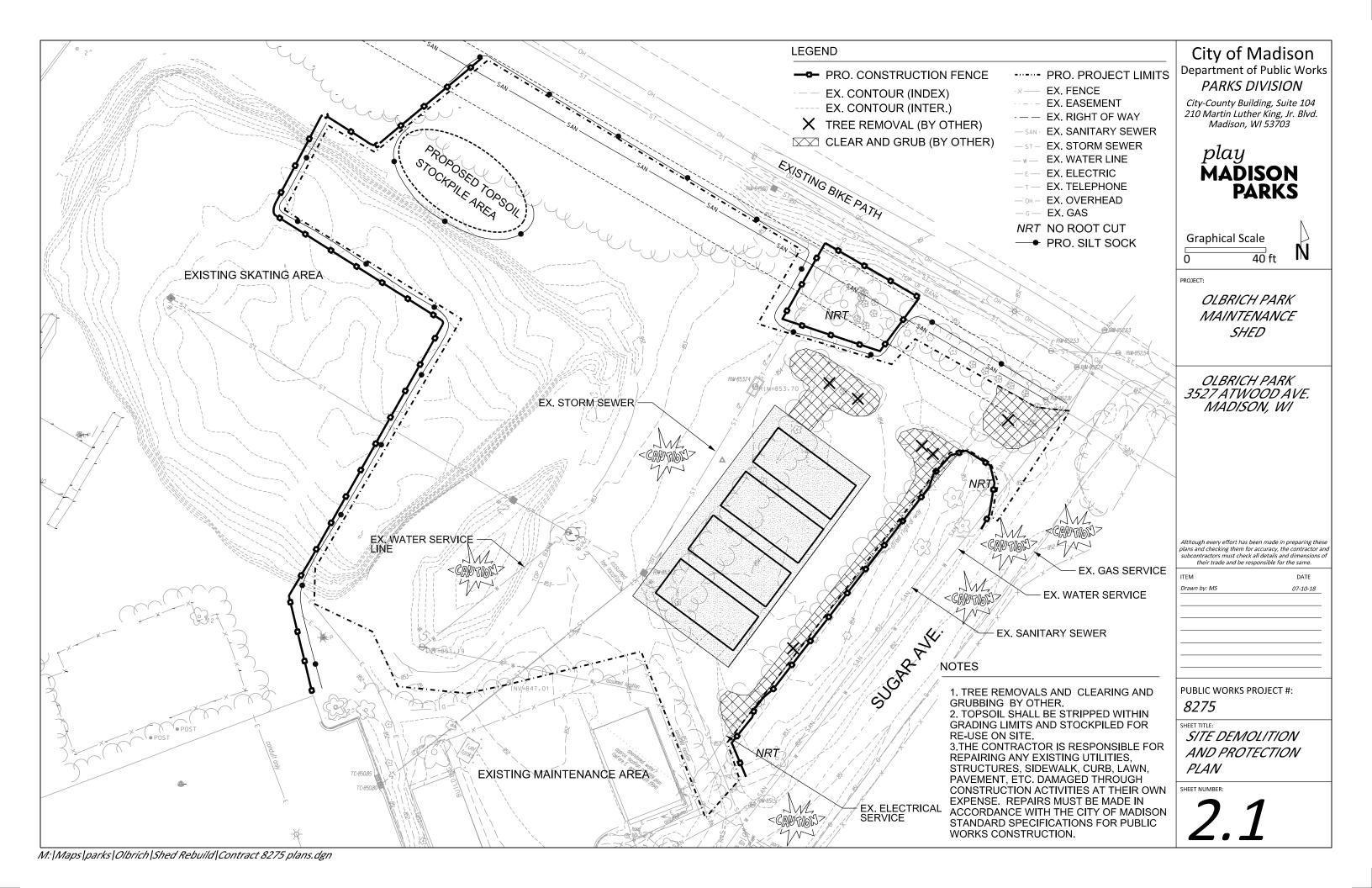
TITLE SHEET

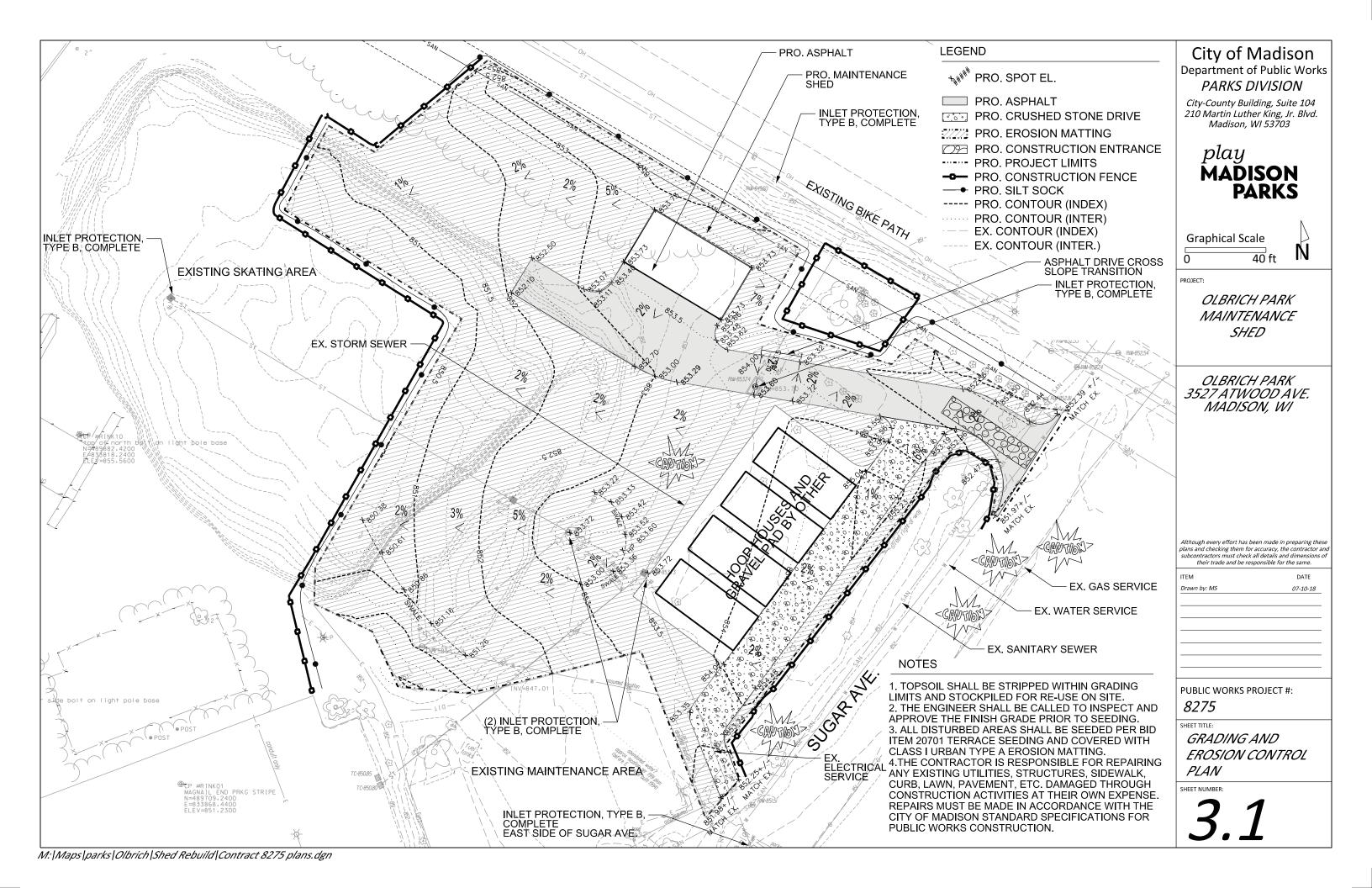
SHEET NUMBER:

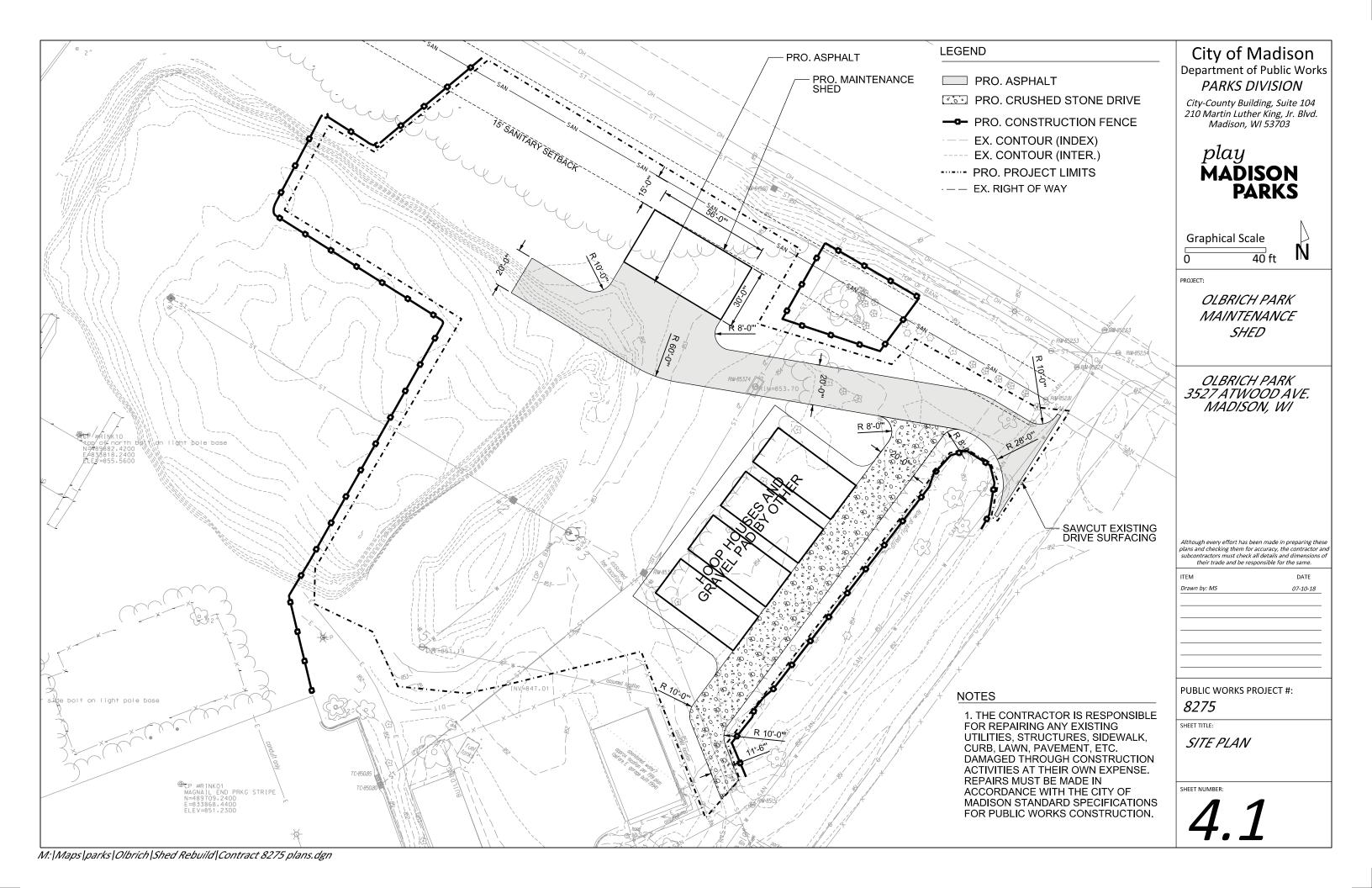


M:|Maps|parks|Olbrich|Shed Rebuild|Contract 8275 plans.dgn









	Olbrich Park	Maintenance Shed - E	Earthwork Quantities								
	City of Madison,	WI Public Works Contract									
	Date Revised:	7/9/2018									
	Notes:										
		are cuts, negative volumes a									
	Not all parts of al	Il surface models (Digital Ter	rain Models) are used for com	putations or	intended for	actual co	nstruction				
	Existing										
	Proposed										
	Proposed										
				From Surface	To Surface	area	depth	Unfac- tored volume	Unfac- tored volume	Expan- sion Factor	Factore (Uncom- pacted) Volume
Sort	Grp	Material	Item	Model	Model	(sq ft)	(ft)	(cu ft)	(cu yd)	(%)	(cu yd)
	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	48197	0.50	24098	892.5	0%	892
			Cut subsoil to proposed			40407		4070	404.0		
	Grass to Grass	Subsoil Excavate	subgrade	Ex-6in	Pro-6in	48197	varies	4973	184.2	0%	184
	Grass to Grass	Subseil Bless	Fill subsoil to proposed	F., 6:-	D 6:-	48197		-20610	-763.3	00/	760
	Grass to Grass Grass to Grass		subgrade Place 6in topsoil	Ex-6in n/a	Pro-6in n/a	48197	varies -0.50	-24098		0% 0%	
	Grass to Grass	Topsoli Place	Place 6in topsoil	n/a	n/a	46197	-0.50	-24098	-892.5	0%	-892
	Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	7455	0.50	3727	138.1	0%	138
	Grade to / topridic	Topodi Executato	Cut subsoil to proposed	1110	Pro-	7 .00	0.00	0.2.	100.1	0,0	100
	Grass to Asphalt	Subsoil Excavate	subgrade	Ex-6in	12.5in	7455	varies	3704	137.2	0%	137
			Fill subsoil to proposed		Pro-						
	Grass to Asphalt	Subsoil Place	subgrade	Ex-6in	12.5in	7455	varies	-1909	-70.7	0%	-70
		Gravel (for Pavement)	Place 8in gravel base out to								
	Grass to Asphalt	Place	6in from pavement edge	n/a	n/a	7455	-0.71	-5293	-196.0	0%	-196
	Grass to Asphalt	Asphalt Place	Place 3.5 in asphalt	n/a	n/a	7455	-0.29	-2162	-80.1	0%	-80
	Grass to										
	Crushed Stone				1.						
	Drive	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	4152	0.50	2076	76.9	0%	76
	Grass to										
	Crushed Stone	0.1	Cut subsoil to proposed	F C:-	D 40'	4450		500	40.5	00/	40
	Drive Grass to	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	4152	varies	526	19.5	0%	19
	Crushed Stone		Fill subsell to proposed								
	Drive	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	4152	varies	-504	-18.7	0%	-18
	Grass to	Subsull Flace	Subgrade	LX-OIII	10-1211	4132	varies	-504	-10.7	0%	-10
	Crushed Stone										
	Drive	Crushed Stone Drive	Place 12in crushed stone	n/a	n/a	4152	-1.00	-4152	-153.8	0%	-153
	Drive	Ordaned Storie Drive	I ROC IZIII GIUSIICU SIOIIC	ili a	11/a	+102	-1.00	-4102	- 100.0	0 70	-100
	Grass to										

City of Madison, WI Public V	Vorks Contract		
Date Revised:	7/9/2018		
Dervied from more detailed s	preadsheet available from Parks Division	1	
Computation Summary			
Positive volumes are cuts (ma	aterial available), negative volumes are fi	lls (mate	rial needed)
Row Labels	Sum of Unfac-tored volume (cu yd)		
Asphalt Place	-80.1		
Gravel (for Pavement) Place	-196.0		
Subsoil Excavate	340.8		
Subsoil Place	-852.7		
Topsoil Excavate	1107.5		
Topsoil Place	-892.5		
Crushed Stone Drive	-153.8		
Grand Total	-726.8		
Reorganized into bid table	items		
-		Units	
Bid Item	Quantity	CY	Relation to Table Above
20101 Excavation Cut	1448	CY	=Subsoil Excavate + Topsoil Excav
20202 Fill Borrow	512	CY	= Subsoil Excavate - Subsoil Plac
20221 Topsoil	5345	SY	= Topsoil Place/.167 (depth)
40102 Crushed Aggregate			
Base Course Gradation No.			
2 & 3	392.1	TONS	= (Gravel Place) * 2.0 ton/cubic ya
40201 HMA Pavement Type			7 4C 535
E-0.3	173.0	TONS	= Asphalt Place * 2.16 ton/cubic y

City of Madison Department of Public Works PARKS DIVISION

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Graphical Scale
0 40 ft

PROJECT

OLBRICH PARK MAINTENANCE SHED

OLBRICH PARK 3527 ATWOOD AVE. MADISON, WI

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TEM	DATE
Drawn by: MS	07-10-18

PUBLIC WORKS PROJECT #: 8275

SHEET TITLE:

EARTHWORK COMPUTATIONS

SHEET NUMB

5.1

10' 0" 3' 6" 56' 0" PROJECT: South Elevation 56' 0" **End Elevation** North Elevation Section **NOTES** 1.PLANS ARE SCHEMATIC AND FOR REFERENCE 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN AND REQUIRED STATE OF WISCONSIN REVIEWS/APPROVALS. *8275* 3. THE CONTRACTOR PROVIDED DESIGN SHALL BE Floor Plan SHEET TITLE: STAMPED BY AN ARCHITECT OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WISCONSIN. 4. SEE BID ITEM 90009 MAINTENANCE SHED FOR STRUCTURE SPECIFICATIONS.

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

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OLBRICH PARK MAINTENANCE SHED

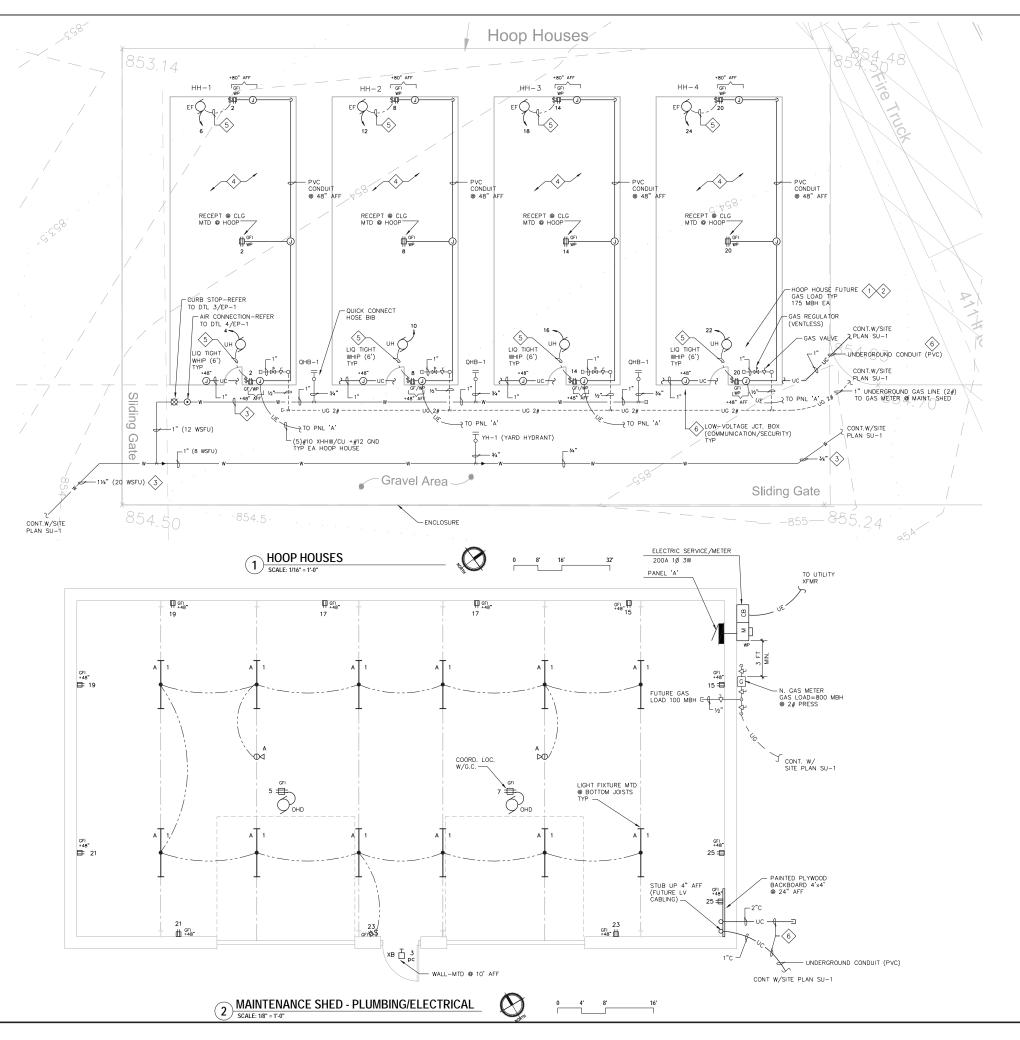
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DATE
07-10-18

PUBLIC WORKS PROJECT #:

MAINTENANCE SHED SCHEMATIC PLANS



PLUMBING GENERAL NOTES:

- PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
- COORDINATE PHASING OF WORK WITH GENERAL CONTRACTOR.
- REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

PLUMBING PLAN NOTES:

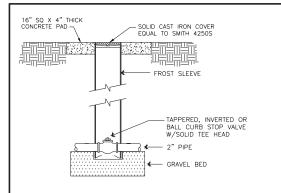
- COORDINATE ROUGH—IN SERVICE OF NATURAL GAS PIPING IN HOOP HOUSES WITH GENERAL CONTRACTOR AND OWNER FOR FINAL GAS—FIRED UNIT HEATER LOCATION
- 2 FINAL GAS CONNECTIONS BY OWNER
- PROVIDE 6-FOOT MINIMUM COVER FOR WATER LINE FREEZE PROTECTION.

ELECTRICAL GENERAL NOTES:

- COORDINATE FINAL LIGHTING & DEVICE LAYOUT WITH GENERAL CONTRACTOR AND OWNER.
- COORDINATE ELECTRICAL RACEWAYS ROUTING WITH GENERAL CONTRACTOR AND OTHER TRADES FOR PROPER EQUIPMENT ACCESS.
- ALL RACEWAYS ARE TO BE EXPOSED IN ALL AREAS, EXCEPT UNDERGROUND RACEWAYS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL CONSTRUCTION CONDITIONS.
- COORDINATE AND SCHEDULE ALL WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING.
- ALL LIGHTS, RECEPTACLES AND MOTOR CONNECTIONS CIRCUITED TO PANEL 'A' UNLESS INDICATED OTHERWISE.
- 7. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

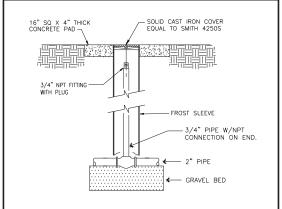
ELECTRICAL POWER/LV PLAN NOTES:

- ALL RACEWAYS IN HOOP HOUSES TO BE LIQUID TIGHT. ELECTRICAL PVC RIGID CONDUIT RACEWAYS AND LIQUID TIGHT FLEXIBLE CONDUIT RACEWAYS.
- 5 PROVIDE LIQUID TIGHT 6FT WHIP; FINAL MOTOR CONNECTION BY OWNER.
- 6 INSTALL (PVC) RACEWAYS 24" BELOW GRADE FOR LOW-VOLTAGE CABLING BY OTHERS.



CURB STOP VALVE W/ CHECK AND DRAIN APPROVED & REO'D. BY CITY OF MADISON TYP. TO 4700 SERIES BY A. Y. MCDONALD MFG COMPANY

WATER CURB STOP VALVE & BOX



AUXILLARY AIR CONNECTION DETAIL

N.T.S.

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17 Applegate Court, Suite 200 Madison, WI 53713 Phone: (608) 288-9260 email: hein@heinengrp.com

PROJECT:

OLBRICH PARK MAINTENANCE SHED

OLBRICH PARK 3527 ATWOOD AVE. MADISON, WI

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Drawn by:	DS .	07-09-2018	
Approved by:	MH	07-09-2018	

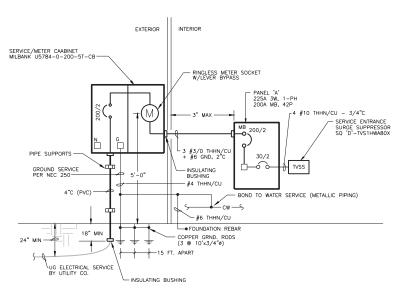
PUBLIC WORKS PROJECT #: 8275

SHEET TITLE:

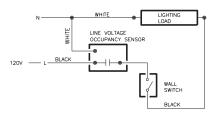
HOOP HOUSES & MAINENANCE SHED -ELECTRICAL/PLUMBING

SHEET NI IMBER

EP-1



1 ELECTRICAL SERVICE RISER - MG&E



OCCUPANCY SENSOR WIRING SCHEMATIC LINE VOLTAGE N.I.S.

			PA	NEL		<u> </u>	All	L=22K 1	V/SERVICE GRND			
		AMPS 225	VOL	TS	120/24	10			MOUNTING	SURFAC	E	
		MAIN 200			1				LOCATION	MAINTENNANCE	E SHED)
											T ==:	
BRI		DESCRIPTION	CIRCI	_	PHASE		_	RCUIT	DESCRIF	PTION	BRI	_
Α	Р		WATT	NO.	Α	В	NO.	WATT			Α	Р
20	1	INTERIOR LTS - MAINT. SHED	600	1	1600		2		RECEPT HH-1		20	1
20	1	EXTERIOR BLDG LTS	100	3		900	4		UH HH-1		20	1
20	1	RECEPT OHD-W	1100	5	2200		6		EF HH-1		20	1
20	1	RECEPT OHD-E	1100	7		2100	8	1000	RECEPT HH-2		20	1
				9	800		10		UH HH-2		20	1
				11		1100	12		EF HH-2		20	1
				13	1000		14	1000	RECEPT HH-3		20	1
20	1	RECEPT-MAINT. SHED	720	15		1520	16	800	UH HH-3		20	1
20	1	RECEPT-MAINT. SHED	720	17	1820		18	1100	EF HH-3		20	1
20	1	RECEPT-MAINT. SHED	720	19		1720	20	1000	RECEPT-HH-4		20	1
20	1	RECEPT-MAINT. SHED	720	21	1520		22	800	UH HH4		20	1
20	1	RECEPT-MAINT, SHED	720	23		1820	24	1100	EF HH-4		20	1
20	1	RECEPT-MAINT. SHED	720	25	720		26					
				27			28					
				29			30					
				31			32					
				33			34					
				35			36					
				37			38					
				39			40	-	SPD		30	2
				41			42		SPD		1 -	-
		•			9,660	9,160						_
	FST	IMATED						TOT				
		MAND LOAD: 18,820	,	WATT:	S				AL CONNECTED			
		78.4		AMPS				LOA	υδ1	8,820	WATT	
				avii J						78.4	AMPS	3

AG			LAMF		MOUNTING	MFGR. & MODEL	REI	MARKS
\perp	<u>NO.</u>	TYPE	WATTS	DESCRIPTION				
А	-	LED	41	W/FIXTURE	SURFACE	LITHONIA – ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH	(1)	4 FT SURFACE UTILITY LIGHT 5000, 4K
KA	-	LED	20	W/FIXTURE	SURFACE/ WALL	LITHONIA - DSXW1LED-10C-530-40K-T2M-MVOLT-PIR1FC3V-SF-DDBXD	(1)(2)(3)	EXT. WALL LIGHT HIGH/LOW 1860L, 40K
LE RE	D=LI MAR) L	ED LAM	ITTING (PING/DI MOUNTE	RIVER.	NCY SENSOR SWITE	CH FOR HIGH/LOW DIMMING & PHOTOCELL CONTROL.		

	OCCUPANCY SENSOR SCHEDULE								
SYMBOL	MOUNTING	VOLTAGE	RATED CURRENT /LOAD	TYPE	SENSOR COVERAGE	MFGR. & MODEL	REMARKS		
₽ _A	SURFACE/ CLG	120 VAC	800 Watt	DT	360° 56'×56'	SENSOR SWITCH CMR-PDT-10-LT	SURFACE CLG MTD DT EXTENDED RANGE, LOW TEMP		
ABBREVIATIONS: PIR=PASSIVE INFRARED U=ULTRASONIC DT=DUAL TECHNOLOGY (PIR+U)									

	PLUMBING FIXTURE SCHEDULE								
P#	FIXTURE	WASTE	VENT	CW.	HW.	DESCRIPTION			
QHB-1	QUICK-CONNECT HOSE BIBB			3/4"		IRRIGATION QUICK-CONNECT COUPLER FOR HOSE BIBB FITTING. EQUAL TO BUCKNER QCV075 + QB33KO7 KEY + HS075 HOSE SWIVEL. HOSE VALVE BY OWNER.			
YH-1	YARD HYDRANT			3/4"		AUTOMATIC DRAINING, FREEZELESS YARD HYDRANT (NON-POTABLE) EQUAL TO WOODFORD Y34. 6 FT BURY DEPTH.			

PLUMBING SYMBOL SCHEDULE WATER SERVICE GAS PIPING 2# PRESS. — G 2#——— GAS VALVE GAS PRESSURE REDUCING VALVE PIPE UP PIPE DOWN QUICK-CONNECT HOSE BIBB YARD HYDRANT UNDERGROUND

ELECTRICAL SYMBOL SCHEDULE DESCRIPTION MOUNTING HGT. SYMBOL PANEL/CIRC.# LIGHTING FIXTURES TYPE — SWITCHING — LED: SURFACE/ PENDANT 0 LED: RECESSED \Box LED: SURFACE/WALL MTD

LED LINEAR: SURFACE, CEILING MOUNTED

LED LINEAR: SURFACE, WALL MOUNTED

SWITCHES 48" SINGLE POLE OCCUPANCY SENSOR CONTROLLED WALL SWITCH SINGLEPOLE - PILOT ILLUMINATED OCCUPANCY SENSOR

> CEILING MTD TYPE RECEPTACLES 125V. 2P, 2W SINGLE RECEPTACLE

18" \oplus 18" DUPLEX: RECESSED WP = WATERPROOF OF. DUPLEX: W/GROUND FAULT INTERRUPTION PROTECTION

EQUIPMENT AND WIRING

DIRECT EQUIPMENT CONNECTION

MOTOR CONNECTION—SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.

JUNCTION BOX-CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS

SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK-W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY 'F'-FUSED) TRANSFORMER

MANUAL STARTER

ELECTRICAL POWER PANEL

EQUIPMENT

---UE--- UNDERGROUND ELECTRICAL CONDUIT ---uc--- UNDERGROUND CONDUIT

ABBREVIATIONS SUBSCRIPTS

18"

AFF=ABOVE FINISH FLOOR GFI=GROUND FAULT INTERRUPTER WP=WEATHERPROOF

EF = EXHAUST FAN UH = UNIT HEATER

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PROJECT:

OLBRICH PARK MAINTENANCE SHED

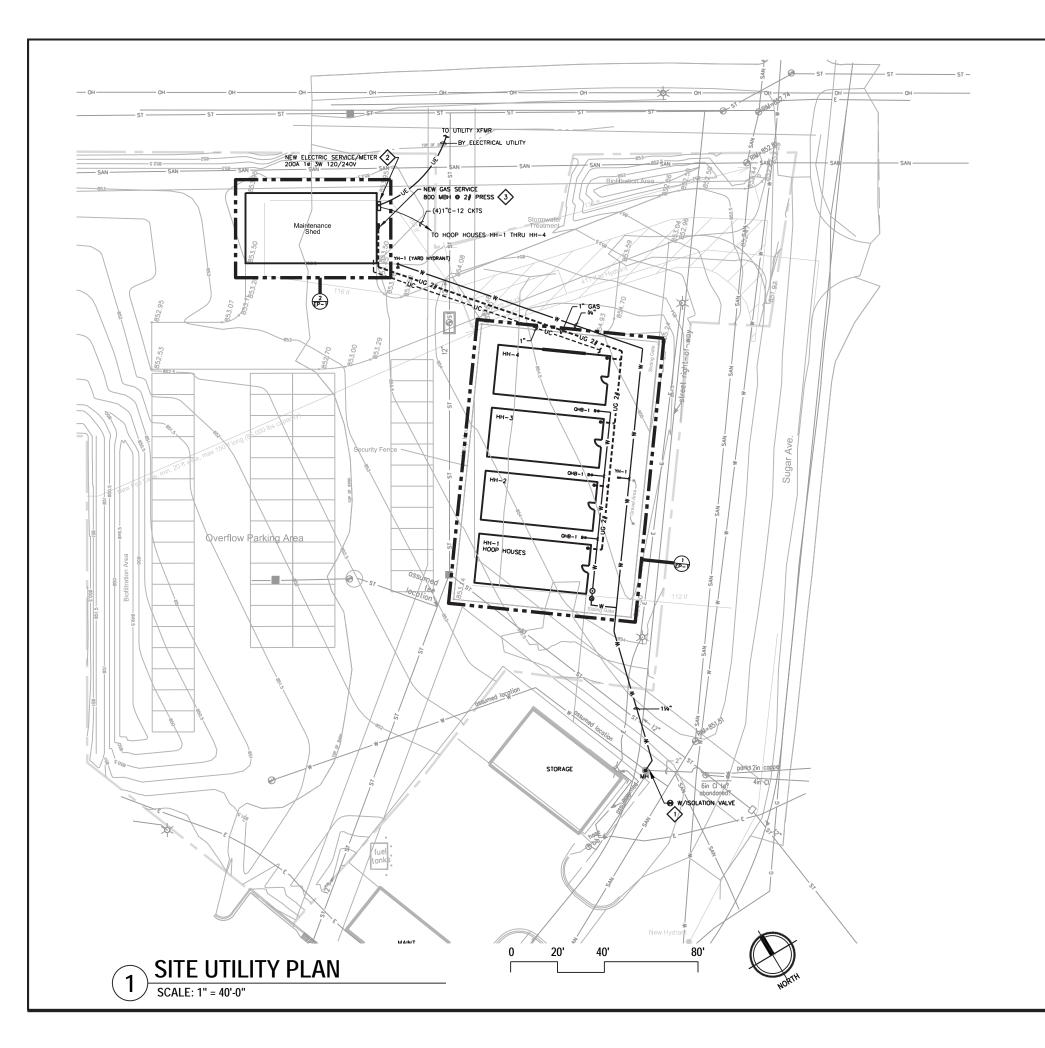
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	DATE
DS	07-09-201
MH	07-09-2018

PUBLIC WORKS PROJECT #: 8275

ELECTRICAL/PLUMBING SCHEDULES & DETAILS



SITE UTILITY PLAN NOTES:

- WATER SERVICE SHALL BE BURIED TO A DEPTH OF 6 FEET. THE DEPTH IS DEFINED AS THE DISTANCE BETWEEN THE FINISHED GR. ELEVATION AND THE TOP OF WATER MAIN OR SERVICE.
- 2. ANY UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- ALL UNDERGROUND EXTERIOR NON-METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE BE LOCATED IN ACCORDANCE WITH 182.0715(2r) OF STATE STATUTES.
- CONTRACTOR SHALL VERIFY MATERIAL, SIZE, AND INVERT OF SANITARY SEWER, WATER MAIN, AND STORM SEWER PRIOR TO CONSTRUCTION.
- COORDINATE NEW ELECTRIC SERVICE INSTALLATION WITH MG&E. OWNER TO PAY ALL NEW SERVICE FEES.

SITE UTILITY PLAN NOTES.

- CORE DRILL NEW OPENING IN EXISTING MANHOLE FOR NEW WATER CONNECTION AND SEAL WATERTIGHT. PROVIDE ISOLATION BALL VALVE FOR NEW BRANCH PIPING. EXISTING WATER LINE IS PRIVATE 2" LINE FROM PARKS DN. PROPERTY.
- 2 COORDINATE NEW ELECTRIC SERVICE WITH MG&E.
- 3 COORDINATE NEW GAS SERVICE WITH MG&E.

SYMBOL SCHEDULE SAN EXISTING SANITARY SEWER EXISTING WATER SERVICE ST EXISTING STORM SEWER EXISTING STORM SEWER EXISTING UNDERGROUND ELECTRICAL SERVICE UE WATER SERVICE UE UNDERGROUND ELECTRICAL SERVICE UNDERGROUND CONDUIT OUG UNDERGROUND NATURAL GAS SERVICE CONNECT TO EXISTING ELECTRICAL TRANSFORMER TELEPHONE PEDESTAL ELECTRIC METER IHO YD TARD HYDRANT IHO GHB QUICK-CONNECT HOSE BIB MH EXISTING MANHOLE

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Graphical Scale
0 40 ft



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TEM	DATE
Drawn by:	xx-xx-xxxx
Approved by:	XX-XX-XXXX

PUBLIC WORKS PROJECT #: 8275

SITE UTILITY PLAN

SHEET NUMBE

SU-1