5533 University Avenue-Legal Description

STOEBER ADDITION, LOTS 1 AND 2 AND PRT OF LOT 3 DESC AS FOL, BEG AT S COR LOT 2, TH NLY 150 FT TO W COR LOT 2, TH N 22 DEG 17 MIN W 10.53 FT, TH S 49 DEG 29 MIN W 28.29 FT, TH S 40 DEG 31 MIN E 160 FT TO S LN LOT 3, TH E 25 FT ALG SD LN TO POB, EXC THAT PART DESC AS FOL COM ELY COR OF SD LOT 1 TH N 40 DEG 31 MIN 00 SEC W 76.44 FT TO POB, TH N 48 DEG 14 MIN 18 SEC W 23.57 FT TO PT OF CONCAVE CUR, RAD 15 FT, CHRD BRS N 85 DEG 41 MIN 10 SEC W 18.24 FT, TH S 56 DEG 51 MIN 59 SEC W 14.72 FT TO PT OF CONCAVE CUR TO NW, RAD 659.20 FT, CHRD BRS N 51 DEG 08 MIN 45 SEC E 15.90 FT TO PT OF CONCAVE CUR TO S, RAD 15.05 FT, CHRD BRS S 85 DEG 01 MIN 52 SEC E 21.10 FT, TH S 40 DEG 31 MIN 00 SEC E 22.6 FT TO POB.

D-Series Size 0
LED Area Luminaire

Catalog Number

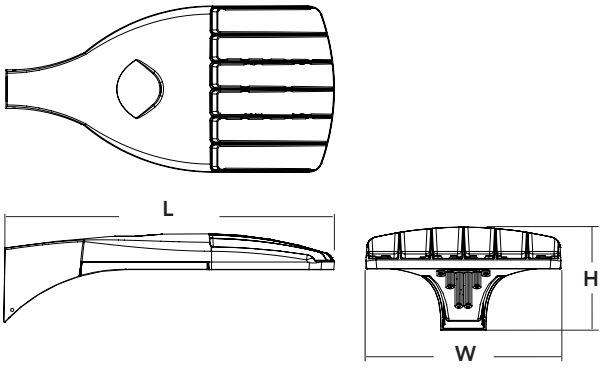
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.95 ft² (.09 m²)
Length:	26″ (66.0 cm)
Width:	13″ (33.0 cm)
Height:	7″ (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P4 P7 P2 P5 P3 P6 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted[2]	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control[2,3] LCCO Left corner cutoff[2,3] RCCO Right corner cutoff[2,3]	MVOLT[4] 120[5] 208[5] 240[5] 277[5] 347[5,6] 480[5,6]	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor[7] RPUMBA Round pole universal mounting adaptor[7] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[8]

Control options

Shipped installed

PER	NEMA twist-lock receptacle only (control ordered separate)[9]
PER5	Five-wire receptacle only (control ordered separate)[9,10]
PER7	Seven-wire receptacle only (control ordered separate)[9,10]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate)
PIR	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[11,12]
PIRH	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[11,12]
PIR1FC3V	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[11,12]
PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[11,12]
BL30	Bi-level switched dimming, 30%[13,14]
BL50	Bi-level switched dimming, 50%[13,14]
PNMTDD3	Part night, dim till dawn[15]
PNMT5D3	Part night, dim 5 hrs[15]
PNMT6D3	Part night, dim 6 hrs[15]
PNMT7D3	Part night, dim 7 hrs[15]
FAO	Field adjustable output[16]

Other options

Shipped installed

HS	House-side shield[17]
SF	Single fuse (120, 277, 347V)[5]
DF	Double fuse (208, 240, 480V)[5]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
DDL	Diffused drop lens[17]

Order separately

BS	Bird spikes
EGS	External glare shield

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Ordering Information

Accessories

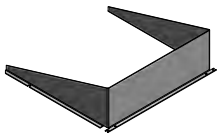
Ordered and shipped separately.

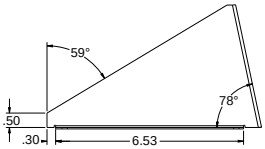
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [18]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [18]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [18]
DSHORT SBK U	Shorting cap [18]
DSX0HS 20C U	House-side shield for 20 LED unit [17]
DSX0HS 30C U	House-side shield for 30 LED unit [17]
DSX0HS 40C U	House-side shield for 40 LED unit [17]
DSX0DDL U	Diffused drop lens (polycarbonate) [17]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)[19]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [7]

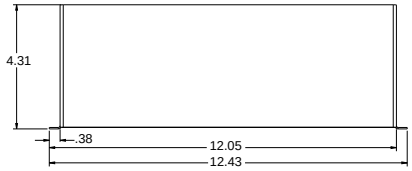
For more control options, visit DTL and ROAM online.

NOTES
1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
2 AMBPC is not available with BLC, LCCO, RCCO, P4, P7 or P13.
3 Not available with HS or DDL.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
6 Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
7 Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
8 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
10 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
11 Reference Motion Sensor table on page 3.
12 Reference PER Table on page 3 to see functionality.
13 Requires (2) separately switched circuits.
14 Not available with 347V, 480V or PNMT. For PER5 or PER7 see PER Table on page 3.
15 Not available with 347V, 480V, BL30 and BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
16 Not available with other dimming controls options.
17 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
18 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
19 For retrofit use only.

External Glare Shield

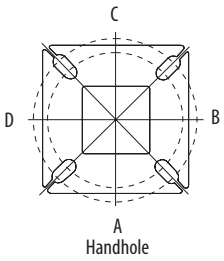




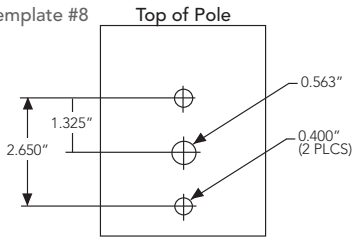


Drilling

HANDHOLE ORIENTATION



Template #8



Tenon Mounting Slipfitter **

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

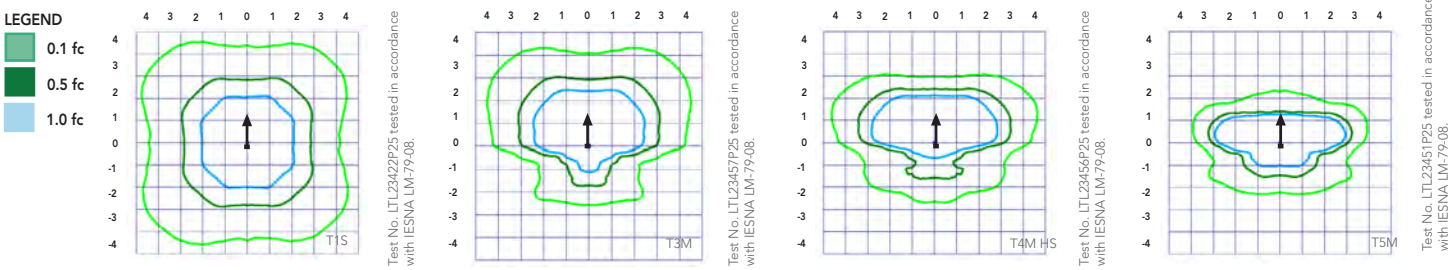
Pole drilling nomenclature: # of heads at degree from handhole (default side A)					
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D
Note: Review luminaire spec sheet for specific nomenclature					

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N
					*3 fixtures @120 require round pole top/tenon.			

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').



Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	25000	50000	100000
Lumen Maintenance Factor	0.96	0.92	0.85

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*for use with Inline Dusk to Dawn or timer.						

PER Table						
Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✔	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⃠	✔	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	⃠	⚠	Wires Capped inside fixture	⚠	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	⃠	⚠	Wired to dimming leads on driver	✔	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	⃠	⚠	Wires Capped inside fixture	✔	Wires Capped inside fixture	Wires Capped inside fixture

✔ Recommended
⃠ Will not work
⚠ Alternate

*Future-proof means: Ability to change controls in the future.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20	530	**P1**	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125	2,541	1	0	1	73
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125	2,589	1	0	1	74
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126	2,539	1	0	1	73
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122	2,558	1	0	1	73
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126	2,583	1	0	1	74
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123	2,570	1	0	1	73
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126	2,540	1	0	1	73
				T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131	2,650	1	0	0	76
				T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131	2,690	1	0	0	77
				T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130	2,658	2	0	0	76
				T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131	2,663	2	0	1	73
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103					
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77					
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77					
20	700	**P2**	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124	3,144	1	0	1	70
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124	3,203	1	0	1	71
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125	3,141	1	0	1	70
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121	3,165	1	0	1	70
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124	3,196	1	0	1	71
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122	3,179	1	0	1	71
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124	3,143	1	0	1	70
				T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129	3,278	2	0	0	73
				T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129	3,328	2	0	0	74
				T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129	3,288	2	0	1	73
				T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130	3,295	2	0	1	73
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102					
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76					
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76					
20	1050	**P3**	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120					
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120					
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121					
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117					
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121					
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118					
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120					
				T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125					
				T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125					
				T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125					
				T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126					
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99					
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73					
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73					
20	1400	**P4**	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116					
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116					
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117					
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113					
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116					
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114					
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116					
				T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121					
				T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121					
				T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121					
				T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122					
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95					
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71					
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71					

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	700	**P5**	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133					
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133					
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133					
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129					
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133					
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130					
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133					
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138					
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138					
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138					
				T5W	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139					
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109					
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81					
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81					
40	1050	**P6**	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121	6,206	2	0	2	68
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120	6,322	2	0	2	69
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121	6,201	2	0	2	68
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117	6,247	1	0	2	69
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121	6,308	2	0	2	69
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118	6,275	1	0	2	69
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121	6,203	1	0	2	68
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125	6,671	2	0	0	73
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126	6,569	2	0	0	72
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125	6,491	3	0	1	71
				T5W	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126	6,504	3	0	2	71
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99					
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74					
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74					
40	1300	**P7**	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112					
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112					
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112					
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109					
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112					
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110					
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112					
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116					
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117					
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116					
				T5W	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117					
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92					
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68					
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68					

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	**P10**	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138					
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138					
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140					
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136					
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140					
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137					
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141					
				T5VS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142					
				T5S	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141					
				T5M	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141					
				T5W	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139					
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116					
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83					
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83					
30	700	**P11**	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130					
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129					
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132					
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127					
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132					
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129					
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133					
				T5VS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134					
				T5S	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132					
				T5M	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132					
				T5W	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131					
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109					
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78					
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78					
30	1050	**P12**	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127					
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127					
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129					
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125					
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129					
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126					
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130					
				T5VS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131					
				T5S	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130					
				T5M	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130					
				T5W	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128					
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107					
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76					
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76					
30	1300	**P13**	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123					
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122					
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125					
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120					
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124					
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122					
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125					
				T5VS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126					
				T5S	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125					
				T5M	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125					
				T5W	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124					
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67					
				LCCO	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44					
					5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44					

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft^2) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS
UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

City of Madison Fire Department

314 W Dayton Street, Madison, WI 53703-2506
Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: *fire@cityofmadison.com*

Project Address:	5533 University Ave
Contact Name & Phone #:	Duane Hanzel

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?	☒ Yes	☐ No	☐ N/A
If non-sprinklered, fire lanes extend to within 150-feet of all portions of the exterior wall?	☐ Yes	☐ No	☐ N/A
If sprinklered, fire lanes are within 250-feet of all portions of the exterior wall?	☒ Yes	☐ No	☐ N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs?	☒ Yes	☐ No	☐ N/A
a) Is the fire lane a minimum unobstructed width of at least 20-feet?	☒ Yes	☐ No	☐ N/A
b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet?	☒ Yes	☐ No	☐ N/A
c) Is the minimum inside turning radius of the fire lane at least 28-feet?	☒ Yes	☐ No	☐ N/A
d) Is the grade of the fire lane not more than a slope of 8%?	☒ Yes	☐ No	☐ N/A
e) Is the fire lane posted as fire lane? (Provide detail of signage.)	☐ Yes	☐ No	☒ N/A
f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.)	☐ Yes	☐ No	☒ N/A
g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	☐ Yes	☒ No	☐ N/A
3. Is the fire lane obstructed by security gates or barricades? If yes:	☐ Yes	☒ No	☐ N/A
a) Is the gate a minimum of 20-feet clear opening?	☐ Yes	☐ No	☐ N/A
b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	☐ Yes	☐ No	☐ N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet?	☐ Yes	☒ No	☐ N/A
If yes, does the area for turning around fire apparatus comply with IFC D103?	☐ Yes	☐ No	☐ N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6 If yes, see IFC 3206.6 for further requirements.	☐ Yes	☒ No	☐ N/A
6. Is any part of the building greater than 30-feet above the grade plane?	☒ Yes	☐ No	☐ N/A
If yes, answer the following questions:			
a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? see sheet C-1.3	☒ Yes	☐ No	☐ N/A
b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building?	☐ Yes	☐ No	☐ N/A
c) Are there any overhead power or utility lines located across the aerial apparatus fire lane?	☐ Yes	☒ No	☐ N/A
d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species)	☐ Yes	☒ No	☐ N/A
e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	☒ Yes	☐ No	☐ N/A
f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?	☒ Yes	☐ No	☐ N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants? see sheet C-4.0	☒ Yes	☐ No	☐ N/A
Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.			
a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants?	☒ Yes	☐ No	☐ N/A
b) Is there at least 40' between a hydrant and the building?	☒ Yes	☐ No	☐ N/A
c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane?	☒ Yes	☐ No	☐ N/A
d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb?	☐ Yes	☐ No	☒ N/A
e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	☒ Yes	☐ No	☐ N/A
Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.			

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on **MGO 34.503** and **IFC 2015 Edition Chapter 5 and Appendix D**; please see the codes for further information.

MADRAX DIVISION

TRILARY, INC.
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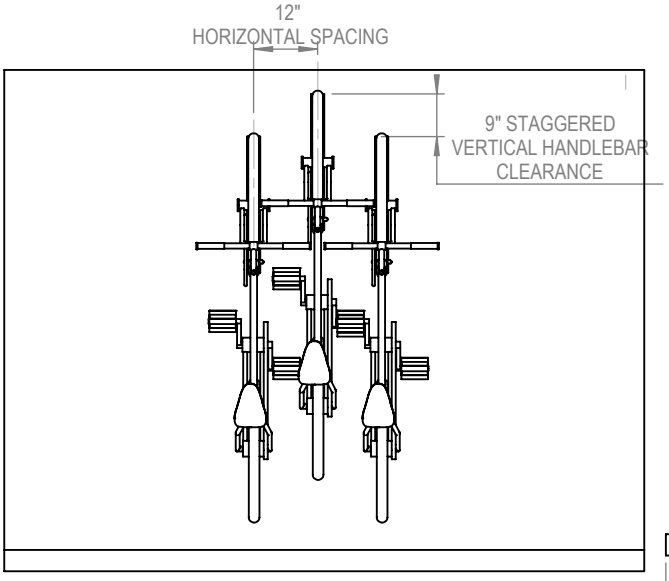
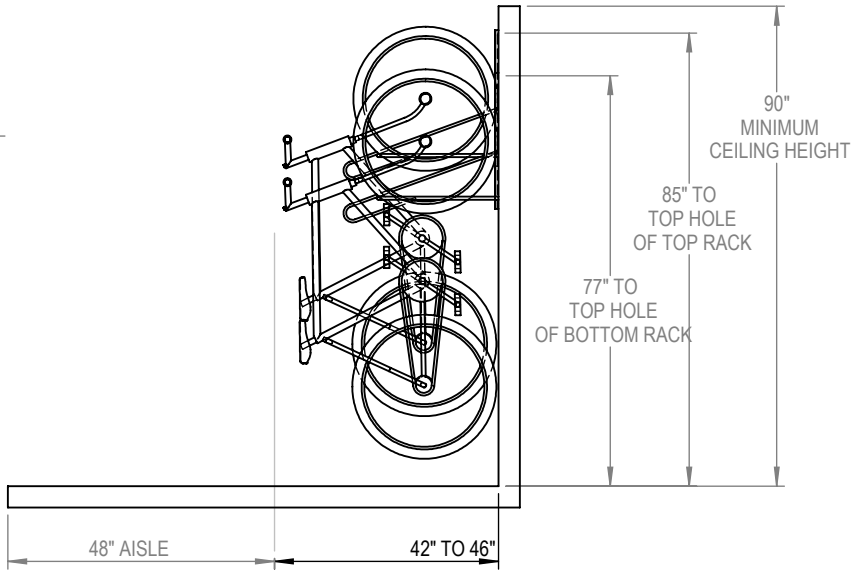
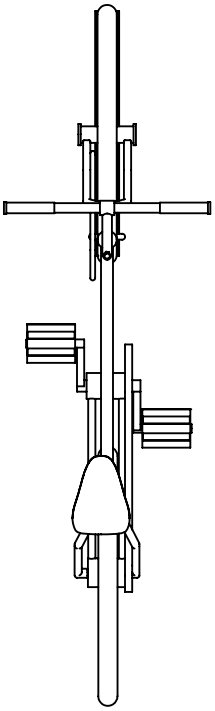
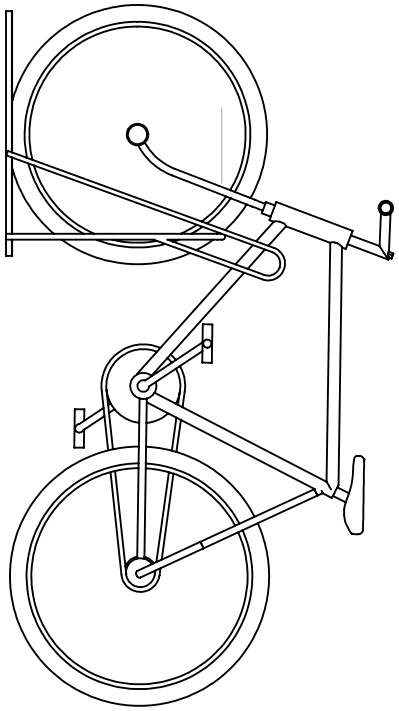
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM

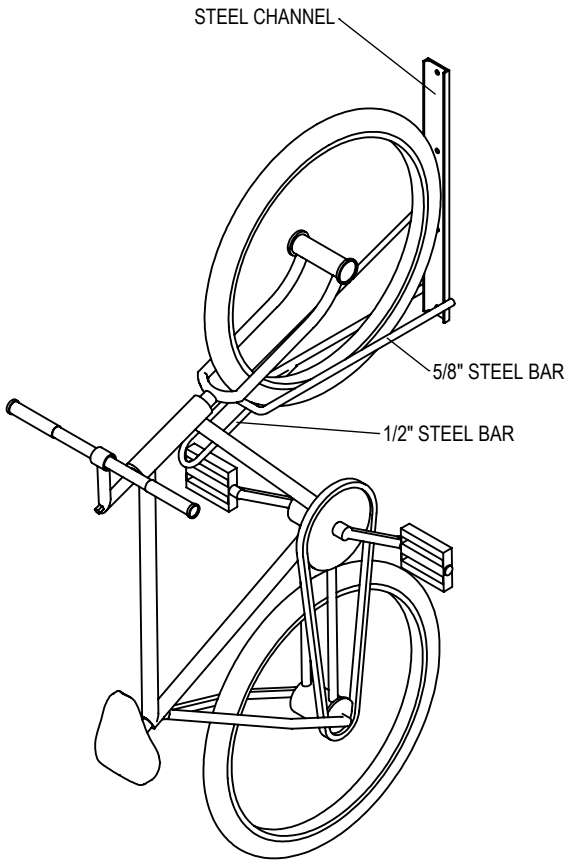
5533 University Avenue











PRODUCT: BSV-1-WM
DESCRIPTION: BIKE STORAGE VERTICAL, 1 BIKE, WALL MOUNT

DATE: 8-7-09
ENG: BLW

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

MADRAX DIVISION

GRABER MANUFACTURING, INC., FORMERLY TRILARY, INC.
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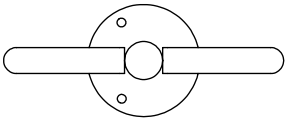
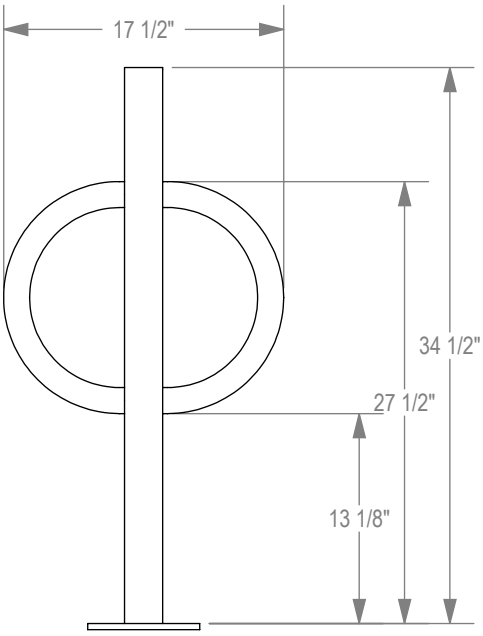
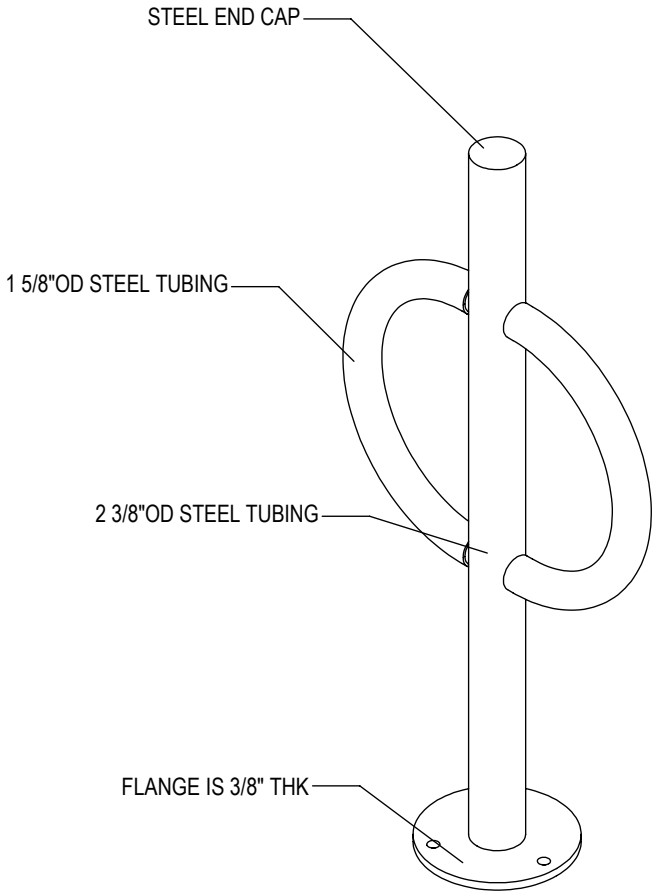
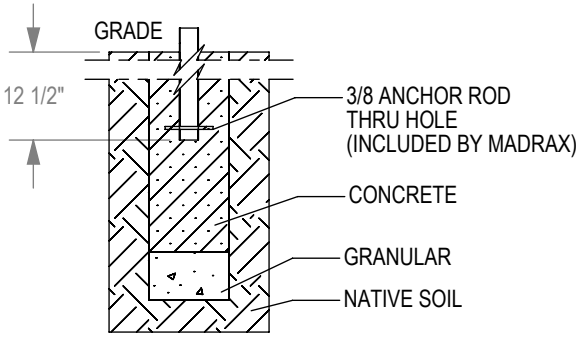
5533 University Avenue



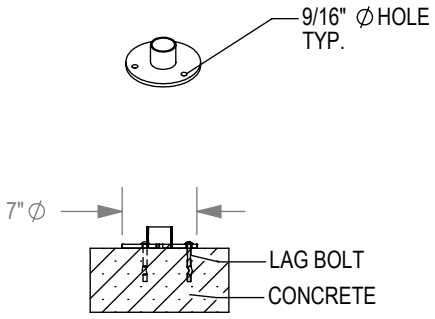




CHECK DESIRED MOUNT ☐



☐ IN GROUND MOUNT (IG)



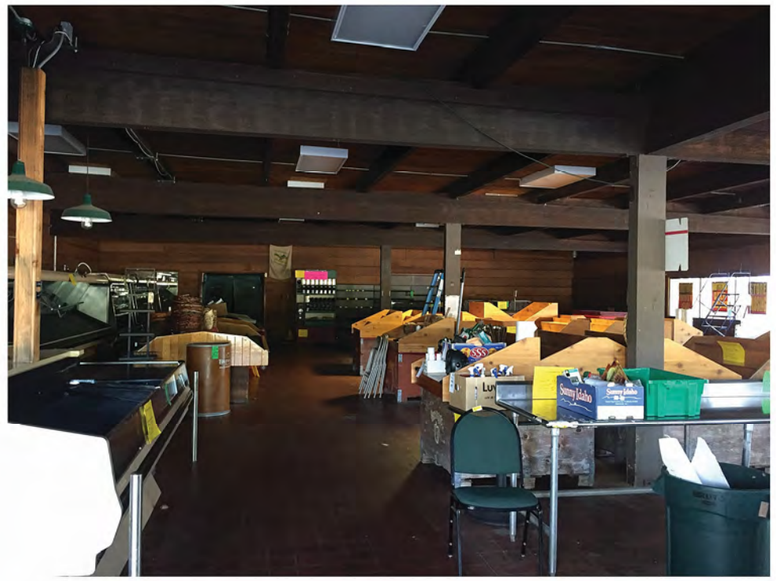
☐ SURFACE FLANGE MOUNT (SF)

SECTION VIEWS

PRODUCT: BOL-2-SF(IG)
DESCRIPTION: BOLLARD BIKE RACK WITH FLAT CAP, TUBE STEEL ARMS
2 BIKE, SURFACE OR IN GROUND MOUNT

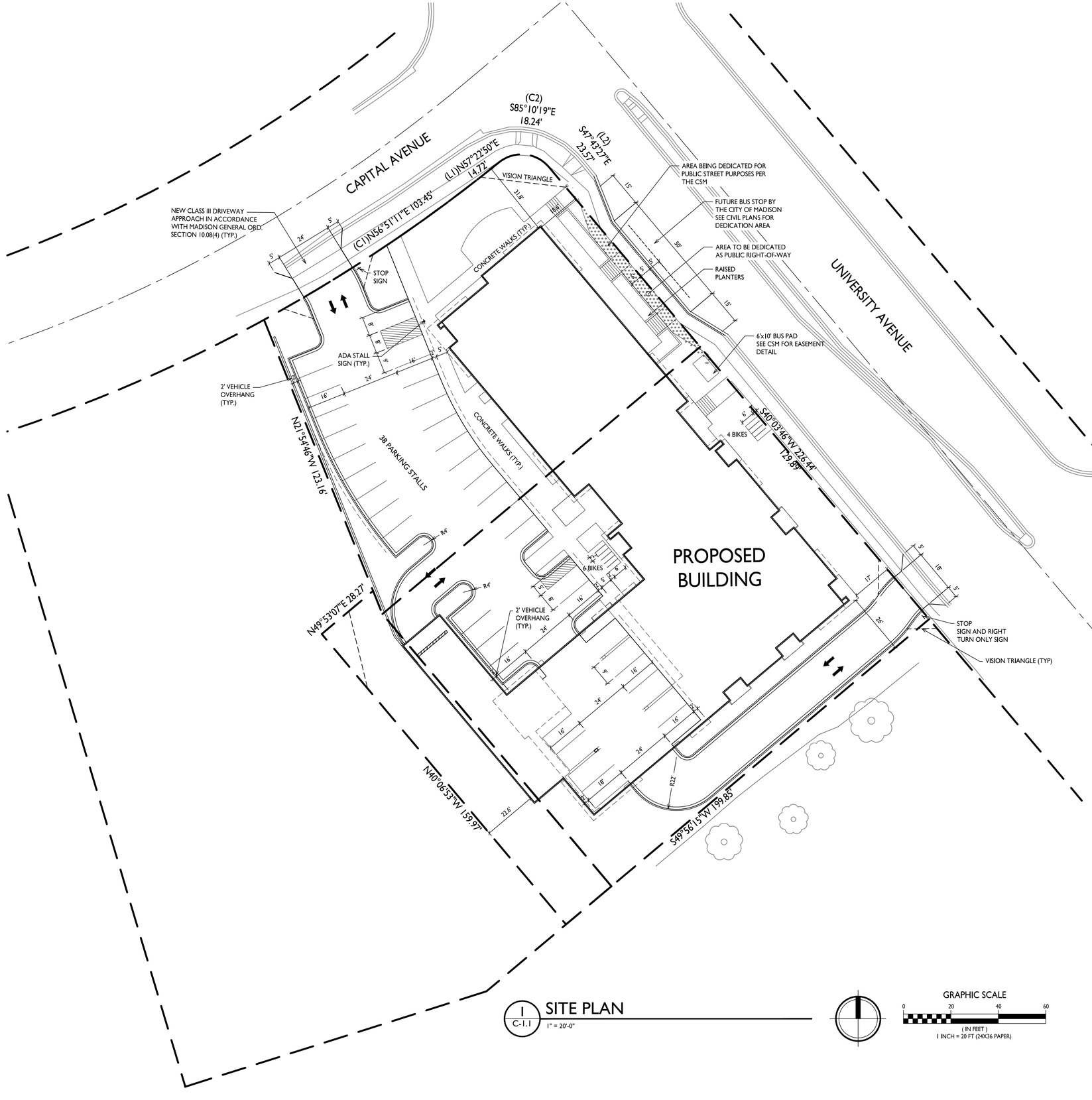
DATE: 8-20-12
ENG: SMC

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.



Demo Photos
5533 University Ave.
October 10, 2017

kba
knothe • bruce
ARCHITECTS



1 C-1.1 SITE PLAN
1" = 20'-0"

GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 INCH = 20 FT (24X36 PAPER)

SHEET INDEX

SITE	
C-1.1	SITE PLAN
C-1.2	SITE LIGHTING PLAN
C-1.3	FIRE DEPARTMENT ACCESS PLAN
C-1.4	LOT COVERAGE
C-1.5	USABLE OPEN SPACE
C-2.1	EXISTING CONDITIONS/DEMO PLAN
C-2.2	SITE PLAN
C-3.0	GRADING & EROSION CONTROL PLAN
C-4.0	UTILITY PLAN
C-5.0	EROSION DETAILS
C-5.1	SITE DETAILS
C-5.2	UTILITY DETAILS
C-5.3	UTILITY DETAILS
L-1.1	LANDSCAPE PLAN
ARCHITECTURAL	
A-1.0	BASEMENT PLAN
A-1.1	FIRST FLOOR PLAN
A-1.2	SECOND FLOOR PLAN
A-1.3	THIRD FLOOR PLAN
A-1.4	FOURTH FLOOR PLAN
A-2.1	ELEVATIONS
A-2.2	ELEVATIONS
A-5.1	TYPICAL UNIT PLANS

SITE DEVELOPMENT DATA:

DENSITIES:	
LOT AREA	48,517 SF / 1.1 ACRES
DWELLING UNITS	60 DU
LOT AREA / D.U.	808 SF / UNIT
DENSITY	54 UNITS/ACRE
GROSS COMMERCIAL AREA	APPROX. 5,617 SF (44% OF FIRST FLR)
NON-RESIDENTIAL AREA (INCL. 1ST FLOOR PARKING)	9,322 SF
BUILDING HEIGHT	4 STORIES
LOT COVERAGE	35,772 S.F. = 73.7%
USABLE OPEN SPACE	9,615 S.F. (160 SF / D.U.)
DWELLING UNIT MIX:	
EFFICIENCY	18
ONE BEDROOM	29
ONE BEDROOM + DEN	1
TWO BEDROOM	12
TOTAL DWELLING UNITS	60
VEHICLE PARKING:	
SURFACE	38 STALLS
UNDERGROUND/ COVERED	50 STALLS
TOTAL	88 STALLS
BICYCLE PARKING:	
SURFACE COMMERCIAL	4 STALLS
SURFACE GUEST	6 STALLS (10% OF UNITS)
UNDERGROUND GARAGE - WALL	15 STALLS (COVERED)
UNDERGROUND/SURFACE GARAGE STD. 2'X6'	45 STALLS (COVERED)
TOTAL	70 STALLS

GENERAL NOTES:

1. THE APPLICANT SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY WHICH IS DAMAGED BY THE CONSTRUCTION OR ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.
3. ALL DAMAGE TO THE PAVEMENT , ADJACENT TO THIS DEVELOPMENT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.
4. APPROVAL OF PLANS FOR THIS PROJECT DOES NOT INCLUDE ANY APPROVAL TO PRUNE, REMOVE, OR PLANT TREES IN THE PUBLIC RIGHT-OF-WAY. PERMISSION FOR SUCH ACTIVITIES MUST BE OBTAINED FROM THE CITY FORESTER, 266-4816.
5. EASEMENT LINES SHOWN ON THIS SHEET ARE FOR GENERAL REFERENCE ONLY - SEE CSM AND CIVIL SHEETS FOR ADDITIONAL AND MORE COMPLETE EASEMENT INFORMATION
6. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA BETWEEN THE CURB AND SIDEWALK AND EXTEND IT AT LEAST 5 FEET FROM BOTH SIDES OF THE TREE ALONG THE LENGTH OF THE TERRACE. NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE OUTSIDE EDGE OF THE TREE TRUNK. IF EXCAVATION WITHIN 5 FEET OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTRY (266-4816) PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM. TREE PRUNING SHALL BE COORDINATED WITH CITY FORESTRY PRIOR TO THE START OF CONSTRUCTION. TREE PROTECTION SPECIFICATIONS CAN BE FOUND IN SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ANY TREE REMOVALS THAT ARE REQUIRED FOR CONSTRUCTION AFTER THE DEVELOPMENT PLAN IS APPROVED WILL REQUIRE AT LEAST A 72-HOUR WAIT PERIOD BEFORE A TREE REMOVAL PERMIT CAN BE ISSUED BY FORESTRY, TO NOTIFY THE ALDER OF THE CHANGE IN THE TREE PLAN.
7. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENTS.

knothe bruce ARCHITECTS
Phone: 608.836.3690
7601 University Ave, Ste 201
Middleton, WI 53562

ISSUED
Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Site Plan

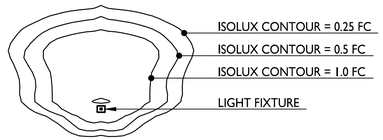
SHEET NUMBER
C-1.1

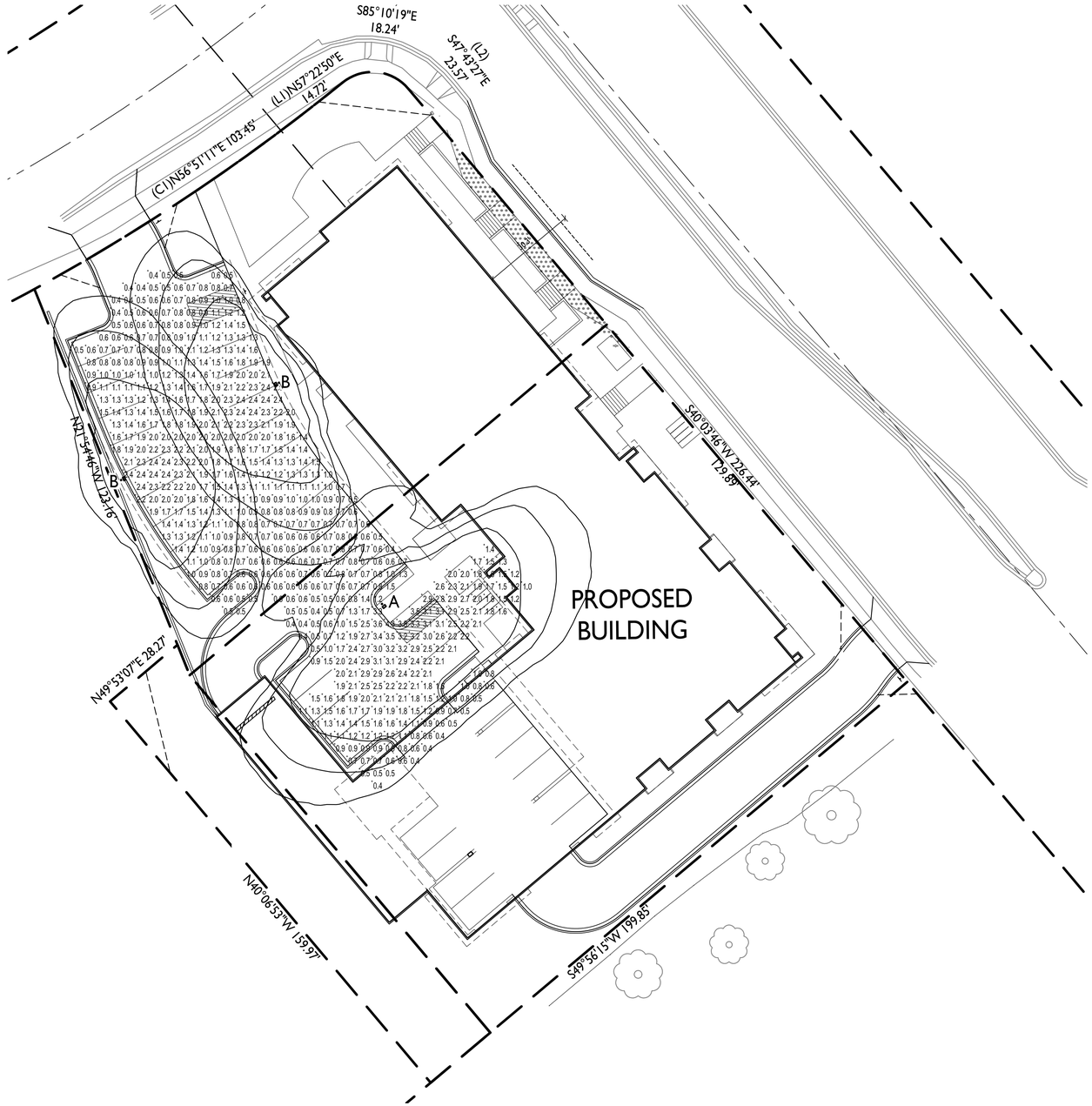
PROJECT NO. 1735

STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
Calculation Zone	+	1.4 fc	4.3 fc	0.4 fc	10.8:1	3.5:1

LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	MANUF.	CATALOG	DESCRIPTION	FILE	MOUNTING
	A	1	LITHONIA LIGHTING	DSX0 LED P4 30K T3M MVOLT	DSX0 LED P4 30K T3M MVOLT	DSX0_LED_P4_30K_ T3M_MVOLT.ies	18'-0" POLE ON FLUSH CONC. BASE
	B	2	LITHONIA LIGHTING	DSX0 LED P2 40K T2M MVOLT HS	DSX0 LED P2 40K T2M MVOLT WITH HOUSE-SIDE SHIELD	DSX0_LED_P2_40K_ T2M_MVOLT_HS.ies	16'-0" POLE ON 2'-0" TALL CONC. BASE

EXAMPLE LIGHT FIXTURE DISTRIBUTION





1 / C-1.2 SITE LIGHTING PLAN
1" = 20'-0"

GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 INCH = 20 FT (24X36 PAPER)

knothe bruce ARCHITECTS
Phone: 608.836.3690
7601 University Ave, Ste 201
Middleton, WI 53562

ISSUED
Issued for Land Use & UDC - September 5, 2018

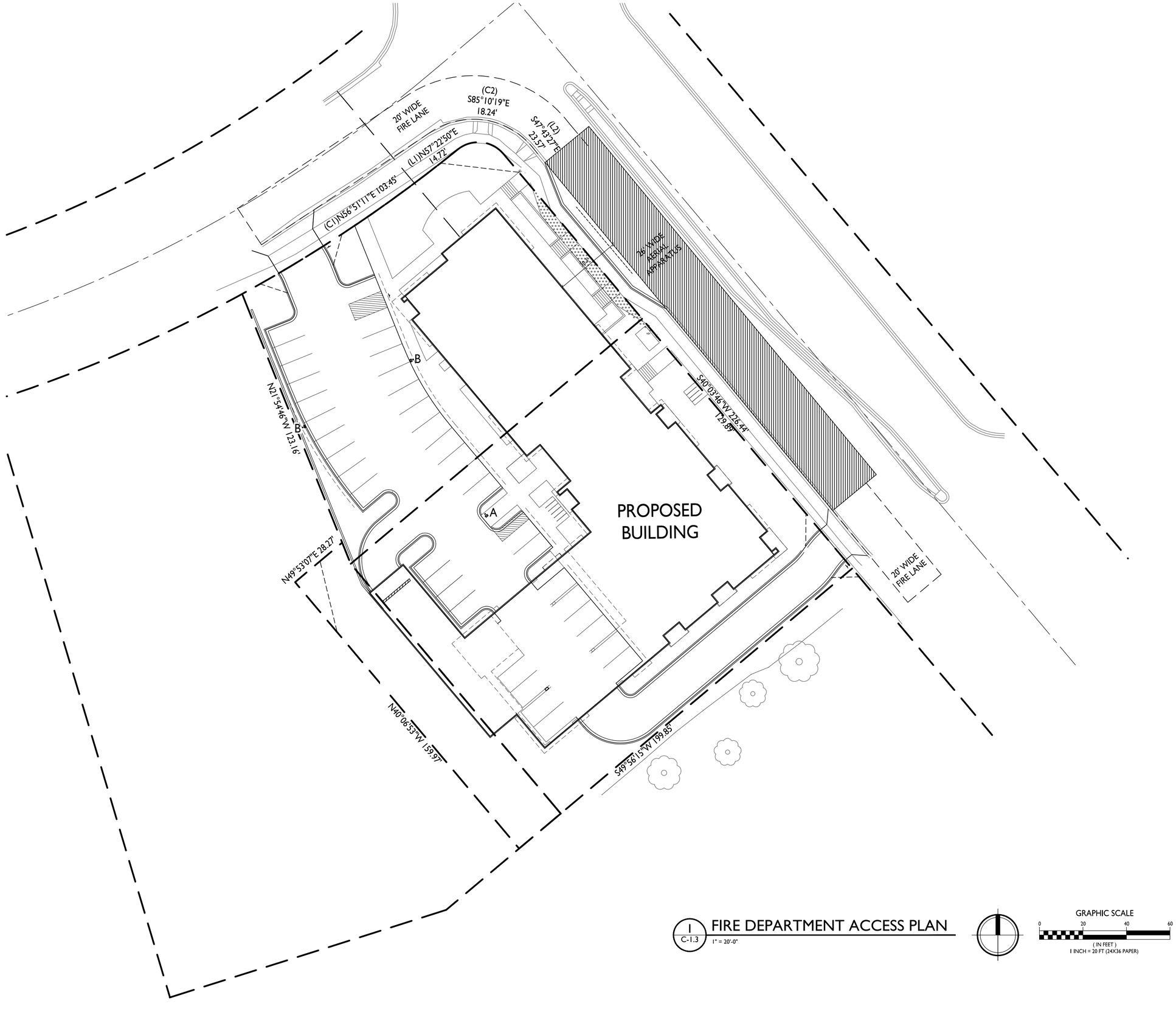
PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Site Lighting Plan

SHEET NUMBER
C-1.2

PROJECT NO. 1735



1 / C-1.3 FIRE DEPARTMENT ACCESS PLAN

1" = 20'-0"

GRAPHIC SCALE

0 20 40 60

(IN FEET)

1 INCH = 20 FT (24X36 PAPER)

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Phone: 608.836.3690

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Middleton, WI 53562

ISSUED

Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE

Mixed-Use Development

5535 University Ave.
Madison, WI

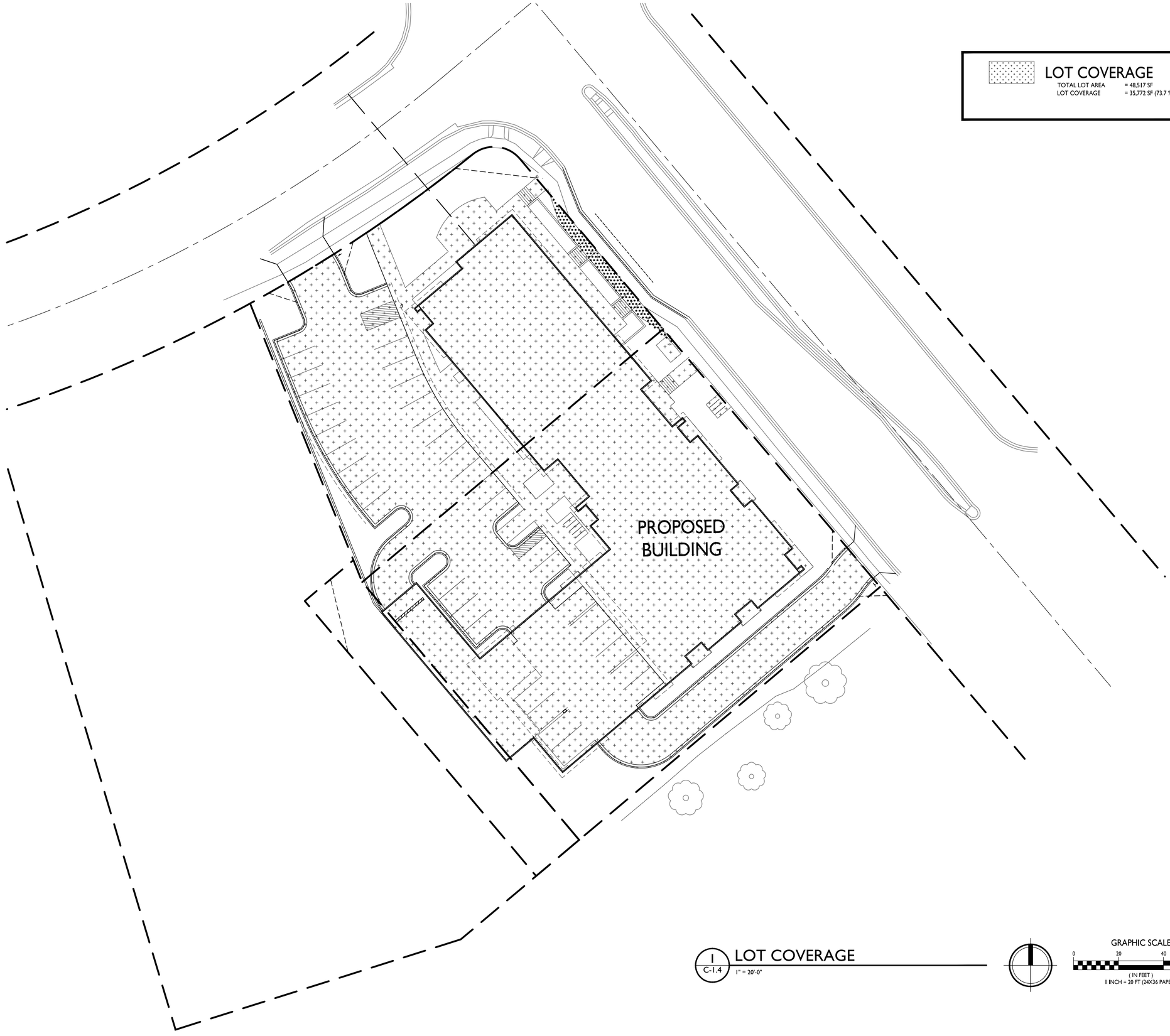
SHEET TITLE

Fire Department Access Plan

SHEET NUMBER

C-1.3

PROJECT NO. 1735



LOT COVERAGE

TOTAL LOT AREA = 48,517 SF
LOT COVERAGE = 35,772 SF (73.7 %)

1 / C-1.4 LOT COVERAGE
1" = 20'-0"

GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 INCH = 20 FT (24X36 PAPER)

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ARCHITECTS
Phone: 608.836.3690
7601 University Ave, Ste 201
Middleton, WI 53562

ISSUED
Issued for Land Use & UDC - September 5, 2018

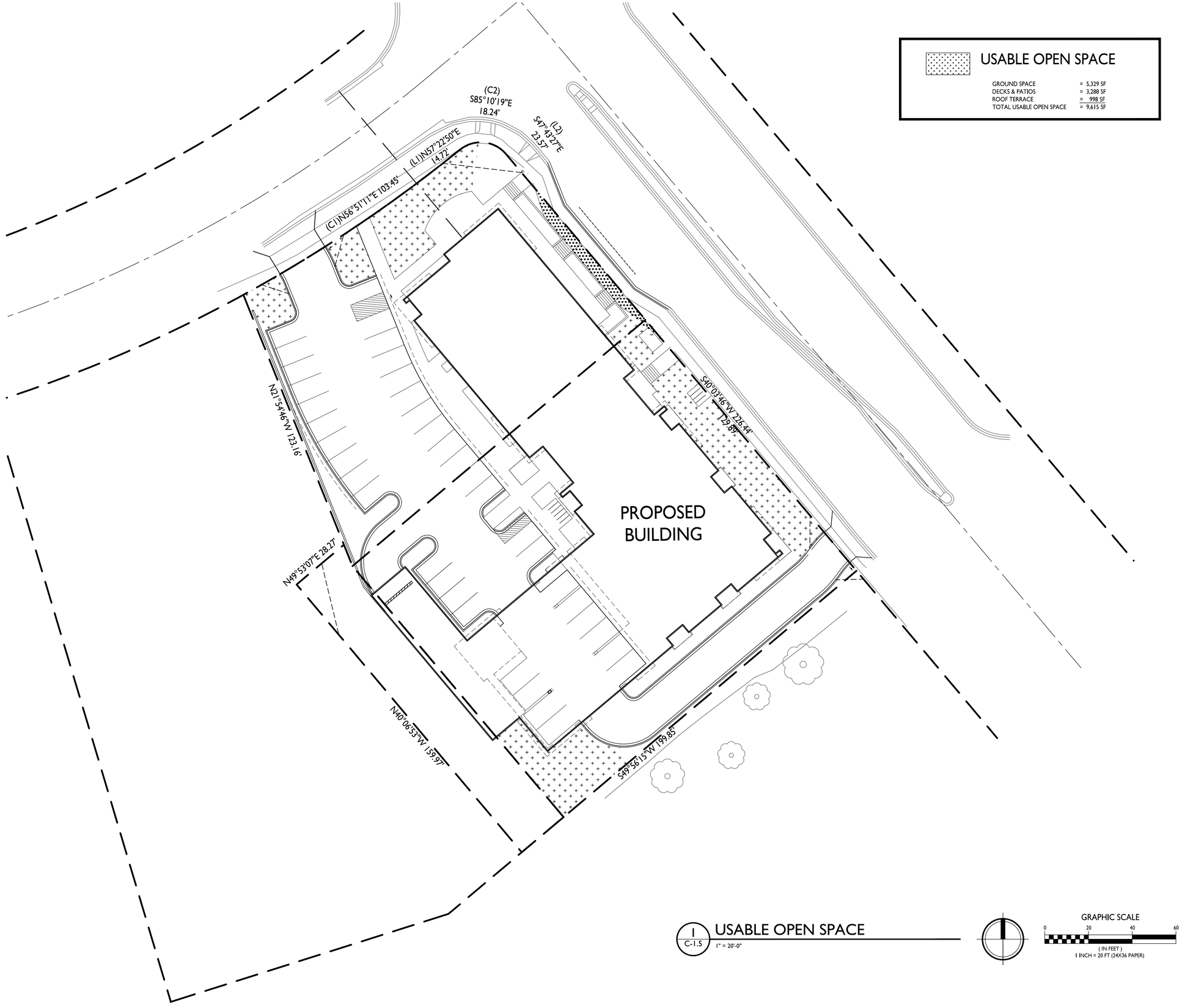
PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Lot Coverage

SHEET NUMBER
C-1.4

PROJECT NO. 1735



USABLE OPEN SPACE

GROUND SPACE	= 5,329 SF
DECKS & PATIOS	= 3,288 SF
ROOF TERRACE	= 998 SF
TOTAL USABLE OPEN SPACE	= 9,615 SF

1 / C-1.5 USABLE OPEN SPACE
1" = 20'-0"

GRAPHIC SCALE
0 20 40 60
(IN FEET)
1 INCH = 20 FT (24X36 PAPER)

kba
knothe • bruce
ARCHITECTS
Phone: 608.836.3690
7601 University Ave, Ste 201
Middleton, WI 53562

ISSUED
Issued for Land Use & UDC - September 5, 2018

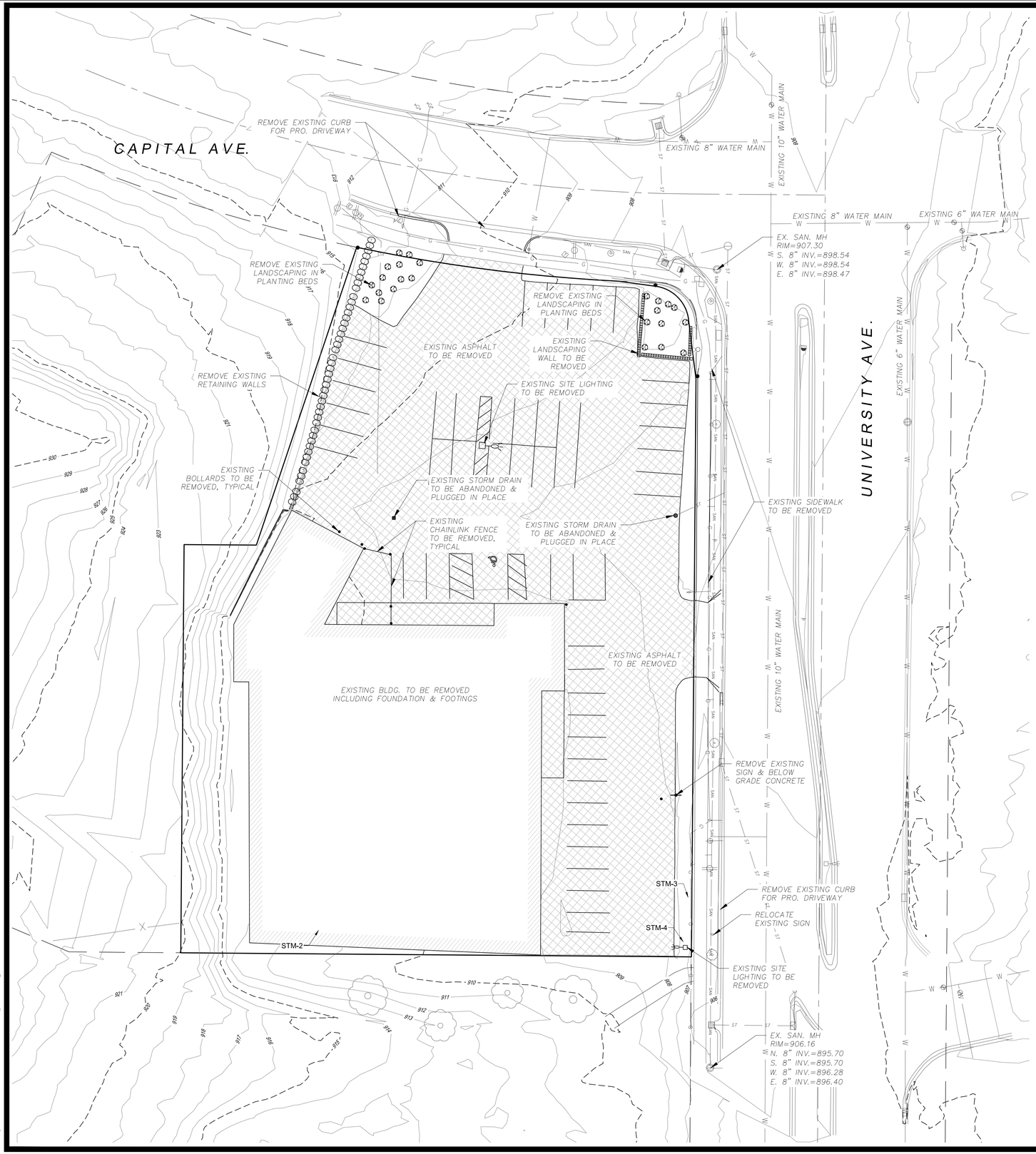
PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Usable Open Space

SHEET NUMBER
C-1.5

PROJECT NO. 1735



GENERAL CONDITIONS

1. THE CONTRACTOR SHALL NOTIFY THE OWNER TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
7. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD LOCATING OF EXISTING UTILITIES.
8. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
9. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.
10. REMOVE SIDEWALKS TO THE NEAREST JOINT.
11. SAW CUTS SHALL BE FULL DEPTH PRIOR TO REMOVAL.

LEGEND

ASPHALT PAVEMENT AND CONCRETE SIDEWALK TO BE REMOVED/PULVERIZED

CERTAIN UNDERGROUND UTILITIES HAVE BEEN LOCATED ON THE PLANS. THESE LOCATIONS SHALL NOT BE TAKEN AS CONCLUSIVE. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITES, WHETHER SHOWN ON THE DRAWING OR NOT, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT.

EXISTING SITE / DEMO PLAN

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH
0 20 40
SCALE: 1" = 20'

MARK	REVISION	DATE	BY
	CITY COMMENTS DATED 1/9/18	2/6/18	BCA

Engineer: MLC | Checked By: BCA/LAO | Scale: NOTED | Field Bk: | Pg:
Technician: MW | Date: 12-6-2017

CITY OF MADISON, WI

5535 UNIVERSITY AVENUE

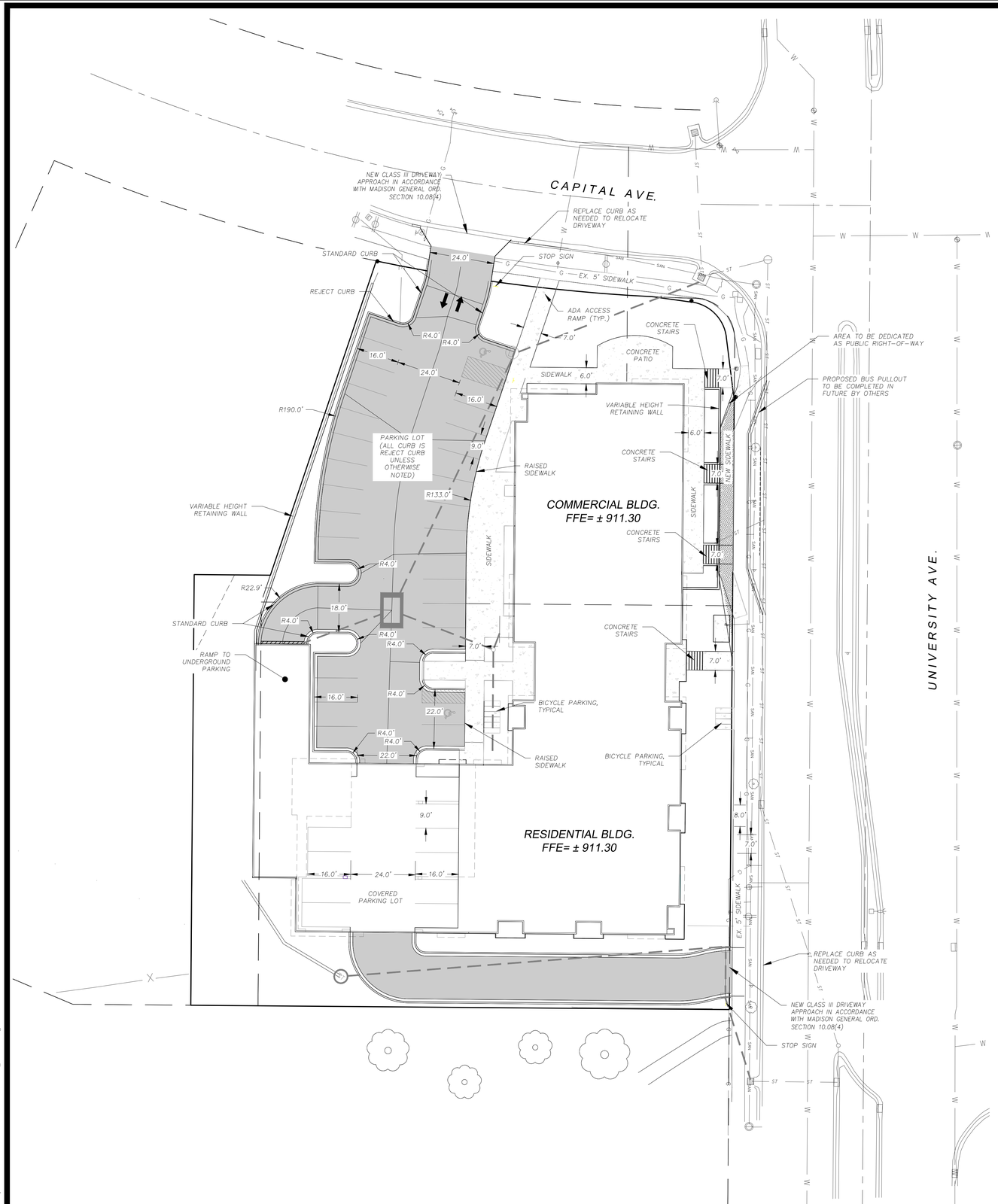
EXISTING SITE / DEMO PLAN

SNYDER & ASSOCIATES, INC.
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 117.0784.30

C 2.1



LEGEND

ASPHALT

CONCRETE

NOTES

1. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY WHICH IS DAMAGED BY THE CONSTRUCTION OF ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
2. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.
3. ALL DAMAGE TO THE PAVEMENT ON UNIVERSITY AVENUE AND CAPITOL DRIVE, ADJACENT TO THIS DEVELOPMENT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.
4. THE CONTRACTOR SHALL CLOSE ALL ABANDONED DRIVEWAYS BY REPLACING THE CURB IN FRONT OF THE DRIVEWAYS AND RESTORING THE TERRACE WITH GRASS.

SITE PLAN

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH

0 20 40

SCALE: 1" = 20'

MARK	REVISION	DATE	BY
	CITY COMMENTS DATED 1/9/18	2/6/18	BCA
	UPDATED SITE LAYOUT	7/16/18	BCA

Engineer: MLC | Checked By: BCA/LAO | Scale: NOTED | Field Bk: | Pg:
Technician: MW | Date: 12-6-2017

CITY OF MADISON, WI

5535 UNIVERSITY AVENUE

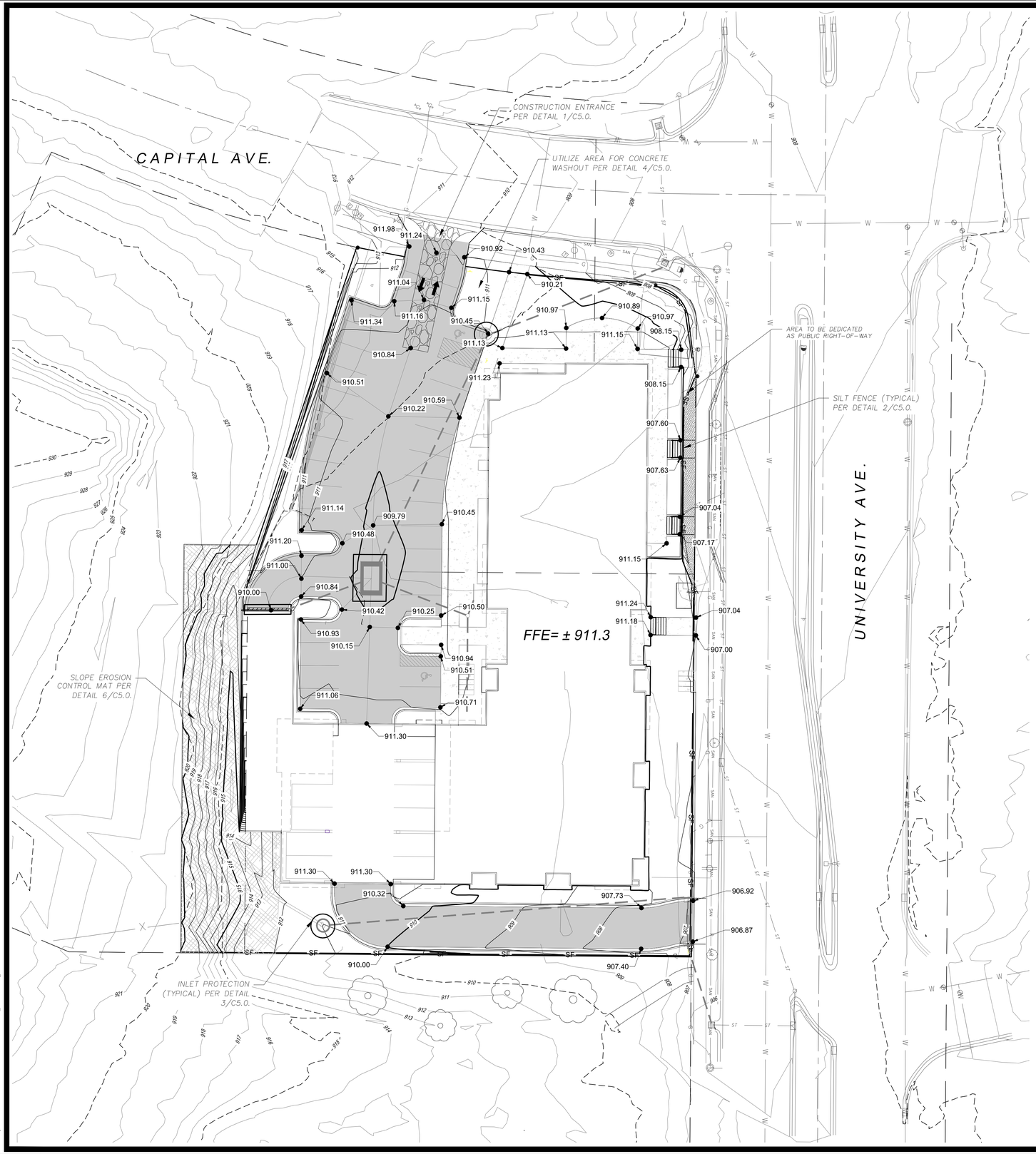
SITE PLAN

SNYDER & ASSOCIATES, INC.
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 117.0784.30

C 2.2



EROSION CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WPDES DISCHARGE PERMITS (IF APPLICABLE). CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD.
3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD.
4. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR THIRTY DAYS OR MORE SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH IN ACCORDANCE WITH THE WDNR TECHNICAL STANDARDS 1059 AND 1058.
6. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING EROSION MAT IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
7. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
8. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
9. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.
10. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
11. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES.
12. REFER TO SPECIFICATION SECTIONS 31 20 00, 31 25 00, 32 91 19, AND 32 92 00.

GRADING

1. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
2. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE SITE HAS BEEN STABILIZED WITH VEGETATION AND THE APPROVAL OF THE GOVERNING AGENCY.
3. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL GRADING, CUT AND FILL CALCULATIONS AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
4. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
5. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE ENGINEER BEFORE ANY MATERIAL IS PLACED.
6. REFER TO SPECIFICATION SECTIONS 31 20 00, 31 25 00, 32 91 19, AND 32 92 00.

LEGEND

ASPHALT

CONCRETE

GL — PROJECT GRADING LIMITS

GRADING / EROSION CONTROL PLAN

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH
0 20 40
SCALE: 1" = 20'

MARK	REVISION	DATE	BY
	CITY COMMENTS DATED 1/9/18	2/6/18	BCA
	ARCHITECT COMMENTS	3/29/18	BCA
	CITY COMMENTS DATED 3/22/18	4/10/18	BCA
	UPDATED SITE LAYOUT	7/16/18	BCA

Engineer: MLC | Checked By: BCA/LAO | Scale: NOTED | Field Bk: | Pg:
Technician: MW | Date: 12-6-2017

CITY OF MADISON, WI

5535 UNIVERSITY AVENUE

GRADING & EROSION CONTROL PLAN

SNYDER & ASSOCIATES, INC.
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MADISON, WISCONSIN 53718
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SNYDER & ASSOCIATES

Project No: 117.0784.30

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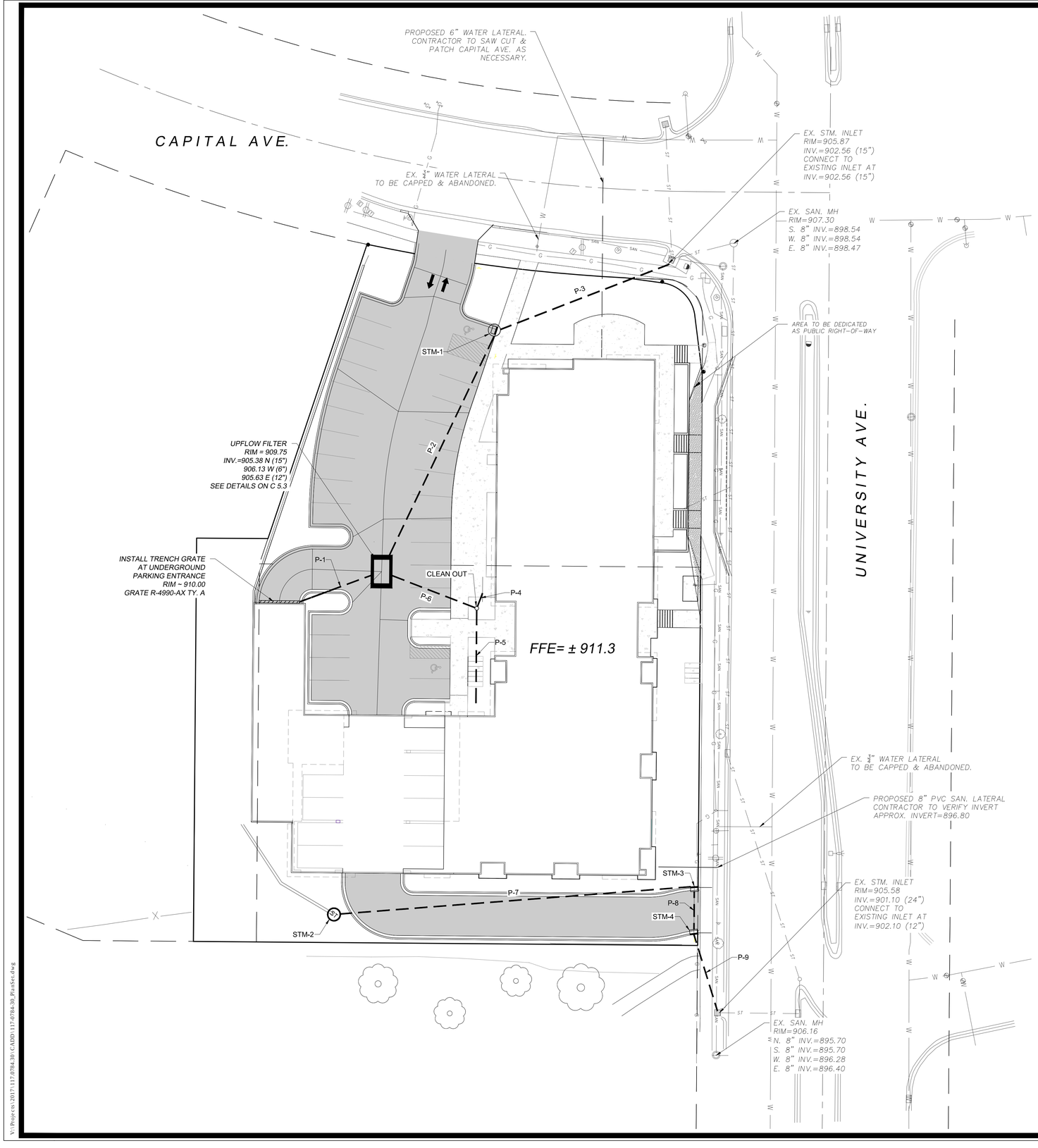

LEGEND

- EXISTING SANITARY SEWER
- SANITARY SEWER
- EXISTING STORM SEWER
- STORM SEWER
- EXISTING WATER
- WATER

STORM STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	FRAME	RIM/TC	INVERT
Clean Out	STORM CLEANOUT		911.16	907.31
STM-1	48" CONC STMH	R-3067-C	910.91	903.89
STM-2	48" CONC FI	R-2560-E	911.00	907.75
STM-3	2' x 3' CI	R-3067	907.43	903.68
STM-4	2' x 3' CI	R-3067	907.33	903.20
UPFLOW FILTER	SEE DETAIL	R-2070 TY. A	909.58	905.46

STORM PIPE TABLE								
PIPE NAME	PIPE TYPE	SIZE (IN.)	FROM	TO	LENGTH (FT)	START INV	END INV	SLOPE
P-1	PVC	6	TRENCH GRATE	UPFLOW FILTER	35	907.50	906.21	3.71%
P-2	RCP	15	UPFLOW FILTER	STM-1	106	905.46	903.89	1.48%
P-3	RCP	15	STM-1	EX. STM. INLET	73	903.89	902.80	1.48%
P-4	PVC	10	BUILDING	Clean Out	6	907.68	907.48	3.12%
P-5	PVC	10	BUILDING	Clean Out	38	908.80	907.48	3.51%
P-6	RCP	12	Clean Out	UPFLOW FILTER	40	907.31	905.71	3.96%
P-7	RCP	12	STM-2	STM-3	143	907.75	903.68	2.84%
P-8	RCP	12	STM-3	STM-4	19	903.68	903.20	2.52%
P-9	RCP	12	STM-4	EX. STM. INLET	32	903.20	902.10	3.47%

UTILITY PLAN

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH
0 20 40
SCALE: 1" = 20'

MARK	REVISION	DATE	BY
	CITY COMMENTS DATED 1/9/18	2/6/18	BCA
	CITY COMMENTS DATED 3/22/18	4/10/18	BCA
	UPDATED SITE LAYOUT	7/16/18	BCA

Engineer: MLC | Checked By: BCA/LAO | Scale: NOTED
Technician: MW | Date: 12-6-2017 | Field Bk: Pg:

CITY OF MADISON, WI

5535 UNIVERSITY AVENUE

UTILITY PLAN

SNYDER & ASSOCIATES, INC.
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 117.0784.30

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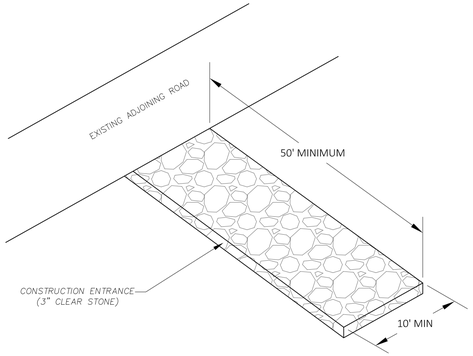


GENERAL NOTES:

1. CONSTRUCTION ENTRANCE TO BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
2. THE AGGREGATE FOR THE CONSTRUCTION ENTRANCE SHALL BE 3 INCH CLEAR OR WASHED STONE.
3. AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK.
4. THE CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH A WDOT TYPE HR OR FF GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
5. SURFACE WATERS MUST BE PREVENTED FROM PASSING THROUGH THE CONSTRUCTION ENTRANCE. FLOWS SHALL BE DIVERTED AWAY FROM THE CONSTRUCTION ENTRANCE OR CONVEYED UNDER AND AROUND THEM BY USE OF A CULVERT. DIVERSION BERM OR OTHER PRACTICES AS APPROVED BY THE CONSTRUCTION ENGINEER.
6. CLEANING BY SCRAPING OR ADDING NEW STONE SHALL BE REQUIRED IF ENTRANCE BECOMES MORE THAN 50% COVERED BY TRACKED MUD.

1 C5.0 CONSTRUCTION ENTRANCE
SCALE: NTS

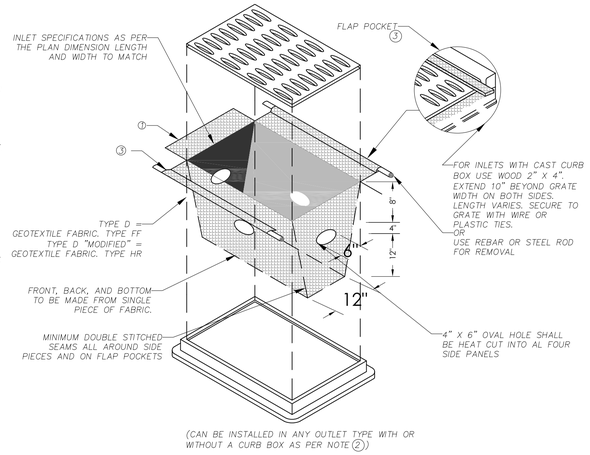
GENERAL NOTES
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WisDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

CLEANING SHALL BE REQUIRED WHEN SEDIMENT OR STANDING WATER IS WITHIN 6" OF OVERFLOW HOLES OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARING BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES. TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

1. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
2. FOR INLET PROTECTION WITH CURB BOX AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

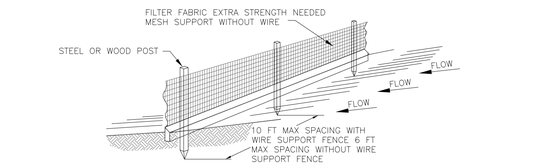


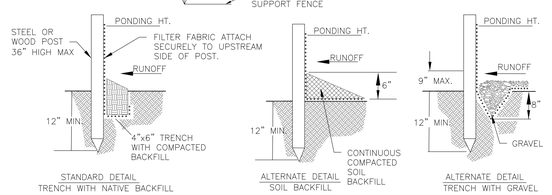
(CAN BE INSTALLED IN ANY OUTLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE 2)

3 C5.0 INLET PROTECTION TYPE "D" DETAIL
SCALE: NTS

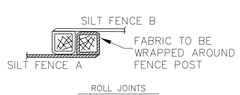
EROSION CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WISDNR WPDES DISCHARGE PERMIT (IF APPLICABLE), COUNTY AND LOCAL EROSION CONTROL PERMIT. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
3. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD, FOUND AT: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE.
4. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH ALL APPLICABLE PERMITS ISSUED FOR THE PROJECT.
5. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. REPAIRS SHALL BE MADE IMMEDIATELY TO EROSION CONTROL PRACTICES AS NECESSARY.
6. TEMPORARY STOCKPILES SHALL BE STABILIZED IF NOT REMOVED IN 10 DAYS. PERIMETER CONTROL ON THE DOWNHILL SIDE SHALL BE IN PLACE AT ALL TIMES (SILT FENCE OR APPROVED EQUAL).
7. TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WISDOT STANDARD SPECIFICATIONS USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 1.
8. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
9. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS TO MAINTAIN A THREE FOOT DEPTH OF TREATMENT, MEASURED BELOW THE NORMAL WATER ELEVATION. SEDIMENT WILL BE REMOVED FROM THE DIVERSION DITCHES WHEN IT REACHES HALF THE HEIGHT OF THE DITCH. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
10. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
11. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED, DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY EROSION CONTROL AND/OR SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
12. TRACKED MATERIAL TO ADJACENT STREETS SHALL BE COLLECTED AT THE END OF EACH WORKING DAY OR AS REQUIRED BY THE LOCAL MUNICIPALITY.
13. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 106B.
14. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
15. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.
16. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EROSION CONTROL FACILITIES AND MEASURES NECESSARY TO CONTROL EROSION AND SEDIMENTATION AT THE PROJECT SITE. THESE FACILITIES AND MEASURES MAY OR MAY NOT BE SHOWN ON THE DRAWINGS AND THEIR ABSENCE ON THE DRAWINGS DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING THEM. ANY MEASURES AND FACILITIES SHOWN ON THE DRAWINGS ARE THE MINIMUM ACTIONS REQUIRED.
17. ERODED MATERIAL THAT HAS LEFT THE CONSTRUCTION SITE SHALL BE COLLECTED AND RETURNED TO THE SITE BY THE CONTRACTOR.
18. AFTER FINAL VEGETATION IS ESTABLISHED, REMOVE ALL EROSION CONTROL FACILITIES. RESTORE AREAS DISTURBED BY THE REMOVALS.
19. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
20. COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE. CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARDS.
21. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
22. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.

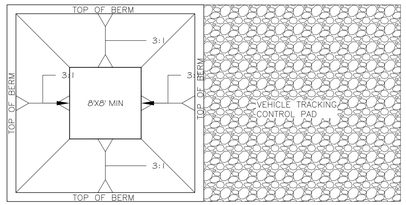




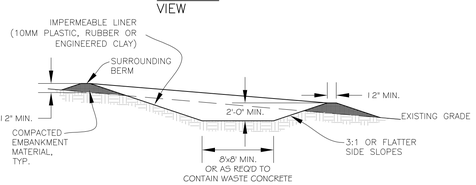
NOTE:
1. INSPECT FENCE WEEKLY AND AFTER EACH RAIN EVENT OF 0.5 INCHES AND REPAIR IF REQUIRED. REMOVE SEDIMENT WHEN NECESSARY OR WHEN SEDIMENT REACHES ½ OF FENCE HEIGHT.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.



2 C5.0 SILT FENCE DETAIL
SCALE: NTS



PLAN VIEW



TYPICAL SECTION

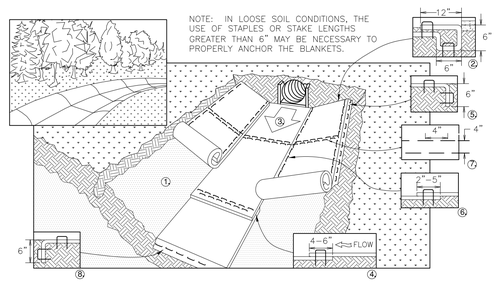
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. SEE EROSION CONTROL PLAN FOR LOCATIONS OF CONCRETE WASHOUT AREA(S). TO BE PLACED A MIN. OF 50' FROM DRAINAGEWAYS, BODIES OF WATER, AND INLETS.)
2. THE CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL PAD IS REQ'D AT THE ACCESS POINT(S).
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA(S), AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREAS TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

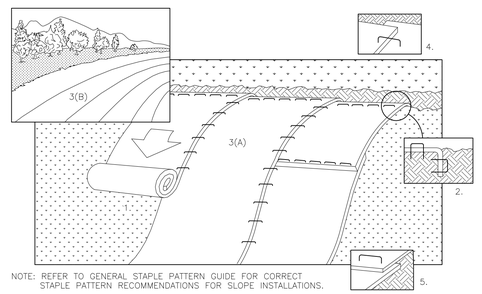
6. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
7. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
8. WHEN CONCRETE WASHOUT AREA(S) IS REMOVED, THE DISTURBED AREA SHALL BE STABILIZED PER SITE EROSION CONTROL MEASURES.
9. INSPECT WEEKLY AND DURING AND AFTER ALL STORM EVENTS. CLEAN-OUT OR COVER WASHOUT AREA PRIOR TO PREDICTED STORM EVENTS TO PREVENT OVER-FLOW.

4 C5.0 CONCRETE WASHOUT AREA
SCALE: NTS



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPE MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
7. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
8. EROSION MAT SHALL EXTEND FOR WHICHEVER IS GREATER: UPSLOPE ONE FOOT MIN. VERTICALLY FROM DITCH BOTTOM OR 6" HIGHER THAN DESIGN FLOW DEPTH.
9. EROSION MAT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1053.

5 C5.0 EROSION CONTROL MAT - CHANNEL INSTALLATION
SCALE: NTS



NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
7. EROSION MAT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD # 1052.

6 C5.0 EROSION CONTROL MAT - SLOPE INSTALLATION
SCALE: NTS

MARK	REVISION	DATE	BY
Engineer: MLC	Checked By: BCA/LAO	Scale: NOTED	
Technician: MW	Date: 12-6-2017	Field Bk:	Pg:

CITY OF MADISON, WI

5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

5533 UNIVERSITY AVENUE

EROSION DETAILS

SNYDER & ASSOCIATES, INC.

SNYDER & ASSOCIATES

Project No: 117.0784.30

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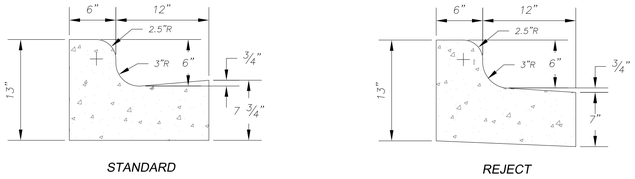


STANDARD

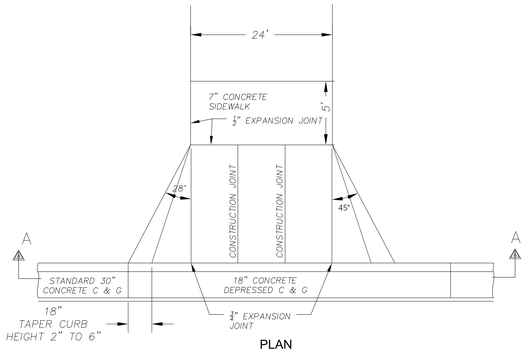
REJECT

NOTES:

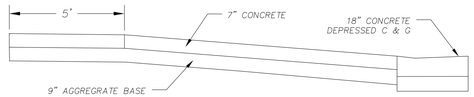
1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER.
2. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE.

1 C5.1 CONCRETE CURB & GUTTER
SCALE: NTS

SECTION A-A



PLAN



PROFILE

4 C5.1 DRIVEWAY DETAIL
SCALE: NTS

PAVEMENT AND CURB NOTES

1. THE IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O. T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LA TEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
2. PAVING SHALL CONSIST OF FINE GRADING PAVEMENT AREAS, INSTALLATION OF CRUSHED STONE BASE, CONCRETE AND/OR BITUMINOUS PAVEMENT, PAVEMENT MARKING, AND CLEANUP. ALL MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
3. AGGREGATES USED IN THE CRUSHED AGGREGATE BASE SHALL BE (*-INCH) DENSE GRADED BASE IN ACCORDANCE WITH SUBSECTION 305.2.2 OF THE STANDARD SPECIFICATIONS.
4. HOT MIX ASPHALT PAVEMENT (HMA) SHALL BE SUPERPAVE (E-**) IN ACCORDANCE WITH SECTION 460 OF THE STANDARD SPECIFICATIONS.
5. ASPHALTIC MATERIALS SHALL BE PERFORMANCE GRADED (PG) BINDERS IN ACCORDANCE WITH SECTION 455 OF THE STANDARD SPECIFICATIONS. UPPER LAYERS SHALL BE PG(***), AND LOWER LAYERS SHALL BE PG(***).
6. AGGREGATES USED IN THE HMA SHALL BE IN ACCORDANCE WITH SUBSECTION 460.2.2.3 OF THE STANDARD SPECIFICATIONS. THE NOMINAL AGGREGATE SIZE FOR THE UPPER LAYER PAVEMENT SHALL BE (****), AND THE LOWER LAYER PAVEMENT SHALL BE (****).
7. TACK COAT SHALL BE IN ACCORDANCE WITH SUBSECTION 455.2.5 OF THE STANDARD SPECIFICATIONS. THE RATE OF APPLICATION SHALL BE 0.025 GAL/SY.
8. CONCRETE FOR CURB, DRIVEWAY, WALKS AND NON-FLOOR SLABS SHALL BE GRADE A (OR GRADE A2 IF PLACING BY SLIP-FORMED PROCESS) AIR ENTRAINED IN ACCORDANCE WITH SECTION 501 FOR THE STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DA Y COMPRESSIVE STRENGTH OF 3,500 PSI.
9. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS:
   SECTION 415 FOR CONCRETE PAVEMENT
   SECTION 601 FOR CONCRETE CURB AND GUTTER
   SECTION 602 FOR CONCRETE SIDEWALKS.
10. ALL FINISHED CONCRETE SHALL BE COVERED WITH A LIQUID CURING COMPOUND CONFORMING TO AASHTO M 148, TYPE 2, IN ACCORDANCE WITH SECTION 415 OF THE STANDARD SPECIFICATIONS.
11. PAVEMENT MARKINGS SHALL BE PAINT IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. (COLOR SHALL BE AS INDICATED ON THE PLANS.) THE FOLLOWING ITEMS SHALL BE PAINTED WITH COLORS NOTED BELOW:
    PARKING STALLS: WHITE
    PEDESTRIAN CROSSWALKS: WHITE
    LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN OPPOSITE DIRECTIONS: YELLOW
    LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN SAME DIRECTIONS: WHITE
    ADA SYMBOLS: BLUE OR PER LOCAL CODE
    FIRE LANES: PER LOCAL CODE
    EXTERIOR SIDEWALK CURBED, LIGHT POLE BASES, AND GUARD POSTS: YELLOW

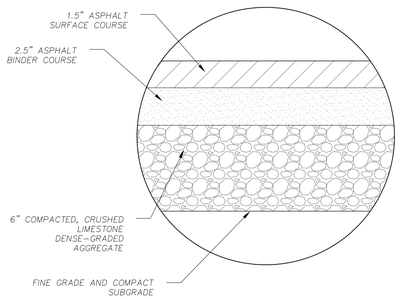
NOTE: PAVEMENT SHALL BE DESIGNED BY GEOTECHNICAL ENGINEER. MISSING INFORMATION ABOVE, DESIGNATED WITH (*), SHALL BE FILLED IN PER GEOTECHNICAL REPORT. CAUTION: INFORMATION BELOW SHALL BE USED ONLY AS A GUIDE.

* DENSE GRADED BASE GRADATIONS: 3-INCH, 1 1/4-INCH, OR 3/4-INCH (TYPICALLY 1 1/4-INCH)

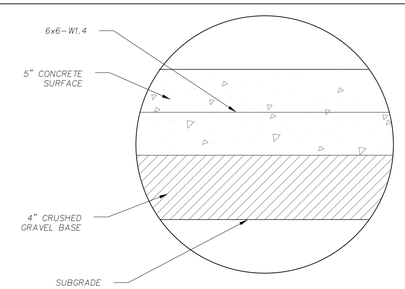
** HMA SUPERPAVE TYPES: E-0.3, E-1, E-3, E-10, E-30 (TYPICALLY E-0.3 OR E-1 FOR MOST RESIDENTIAL AND COMMERCIAL PROJECTS)

*** PG BINDERS:
64-22 BASIC ASPHALT, TYPICALLY USED FOR PARKING LOTS
58-28 RECOMMENDED FOR OVERLAY PROJECTS
64-28 POLYMER ADDED, HIGH COST ASPHALT, LARGEST RANGE OF TEMP.
UPPER LAYER PG64-28, PG64-22, OR PG58-28
LOWER LAYER PG64-22 (IF UPPER LAYER IS PG64-xx OR HIGHER), OR PG58-28

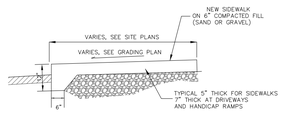
**** HMA AGGREGATE GRADATIONS: 37.5 MM, 25.0 MM, 19.0 MM, 12.5 MM, 9.5 MM (TYPICALL Y: 12.5 MM FOR UPPER LAYER, 19.0 MM FOR LOWER LAYER)



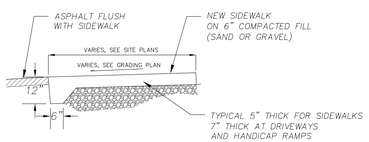
2 C5.1 LIGHT DUTY ASPHALT PAVING DETAIL
SCALE: NTS



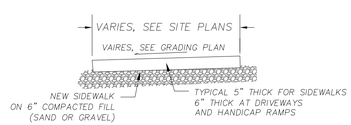
3 C5.1 DUMPSTER PAD LOADING CONCRETE DETAIL
SCALE: NTS



THICKENED EDGE



THICKENED EDGE (FLUSH)



TYPICAL

5 C5.1 CONCRETE SIDEWALK DETAILS
SCALE: NTS

6 C5.1 NOT USED
SCALE: NTS

MARK	REVISION	DATE	BY
Engineer: MLC	Checked By: BCA/LAO	Scale: NOTED	
Technician: MW	Date: 12-6-2017	Field Bk:	Pg:

CITY OF MADISON, WI

5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

5533 UNIVERSITY AVENUE

SITE DETAILS

SNYDER & ASSOCIATES, INC.

SNYDER & ASSOCIATES

Project No: 117.0784.30

C 5.1

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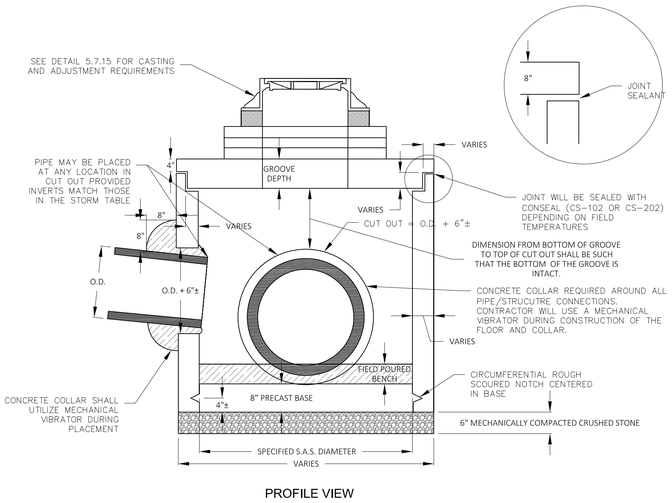
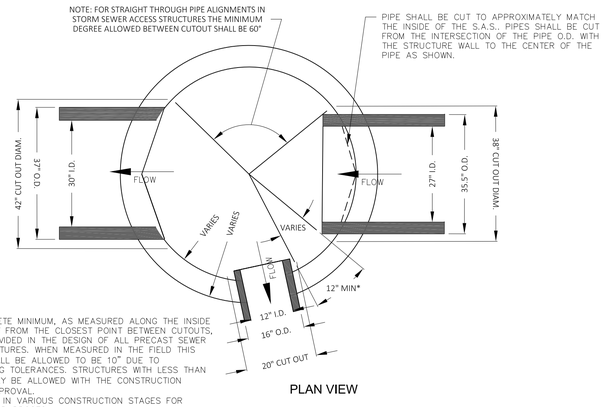


PROFILE VIEW

1 C5.2 PRECAST STORM SEWER

SCALE: NTS

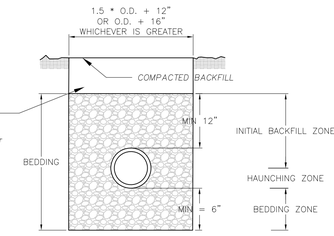
NOTE: ALL STORM SEWER ACCESS STRUCTURES (S.A.S.) SHALL BE CONSTRUCTED IN COMPLIANCE WITH ASTM C478.



* 12" OF CONCRETE MINIMUM, AS MEASURED ALONG THE INSIDE WALL RADIALLY FROM THE CLOSEST POINT BETWEEN CUTOUTS, SHALL BE PROVIDED IN THE DESIGN OF ALL PRECAST SEWER ACCESS STRUCTURES. WHEN MEASURED IN THE FIELD THIS DIMENSION SHALL BE ALLOWED TO BE 10" DUE TO MANUFACTURING TOLERANCES. STRUCTURES WITH LESS THAN 10" SHALL ONLY BE ALLOWED WITH THE CONSTRUCTION ENGINEER'S APPROVAL.

** PIPES SHOWN IN VARIOUS CONSTRUCTION STAGES FOR ILLUSTRATIVE PURPOSES.

PLAN VIEW



GRANULAR MEATERIAL
GRADATION #3 (3/4" MAXIMUM)

NOTES:

UNLESS OTHERWISE SPECIFIED, ALL SANITARY AND STORM SEWER PIPES, INCLUDING LATERALS AND LEADS, SHALL BE INSTALLED WITH THE TYPE OF BEDDING SHOWN FOR THE TYPE AND SIZE OF PIPE INSTALLED.

THE COST OF BEDDING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PIPE. FOR RCP, BEDDING INCLUDES THE HAUNCHING & BEDDING ZONES. FOR PLASTIC PIPES, THE BEDDING INCLUDES THE HAUNCHING, BEDDING & INITIAL BACKFILL ZONES. THE BEDDING SHALL BE INSTALLED & COMPACTED IN 6" MAXIMUM LIFTS.

ALL TRENCHES SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.

PAYMENT SHALL NOT BE MADE FOR BACKFILL WITH EXCAVATED MATERIAL, IF APPROVED. SELECT FILL IF REQUIRED. SHALL BE PAID PER CONTRACT.

THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE O.D. +24" AND MINIMUM OF O.D. +16" AS SPECIFIED, AND SHALL APPLY FROM THE BOTTOM OF THE TRENCH TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THIS WIDTH IS EXCEEDED, THE CONTRACTOR SHALL FURNISH AND INSTALL A HIGHER TYPE OF BEDDING AT NO EXTRA COST. THE TYPE OF BEDDING SHALL BE DETERMINED BY THE ENGINEER.

O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

2 C5.2 STORM PIPE BEDDING AND BACKFILL

SCALE: NTS

MARK	REVISION	DATE	BY
Engineer: MLC	Checked By: BCA/LAO	Scale: NOTED	
Technician: MW	Date: 12-6-2017	Field Bk:	Pg:

CITY OF MADISON, WI

5533 UNIVERSITY AVENUE

UTILITY DETAILS

SNYDER & ASSOCIATES, INC.
5010 VOGES ROAD
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608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 117.0784.30

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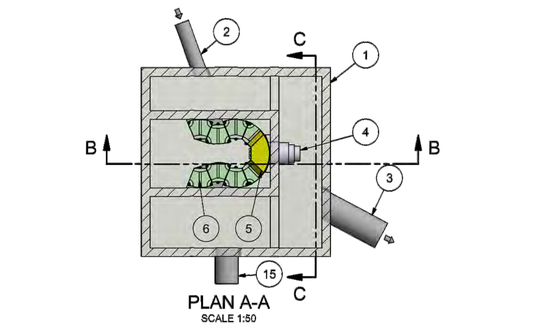
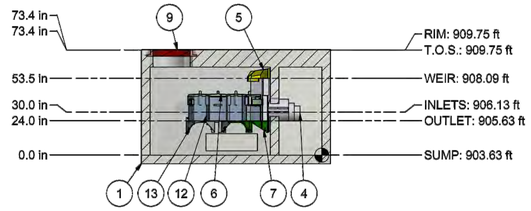
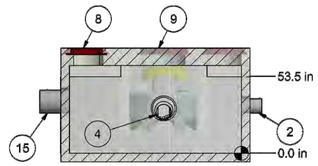


PLAN A-A
SCALE 1:50



SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50

CAPACITIES:

1. Minimum performance: 80% removal. NJDEP - NJDEP Blend; NJCAT, Sil-Co-Sil 106 (d50 = 22 microns) at the peak treatment flow.
2. NJDEP peak treatment flow: .056 cfs (25 gpm) per module, CPZ
3. Maximum number of modules per outlet module: 38 **

ADDITIONAL DESIGN INFORMATION:

1. * Normal operating W.S.E. is 2.46' above the outlet invert at the peak treatment flow of .056 cfs (25 gpm) per module. For a given flow the head requirement can be reduced by adding additional filters.
2. ** Treatment flows that require more modules will require a larger vault design or different arrangement.
3. Media Types Available: New Jersey - Ribbons; Elsewhere - CPZ

PARTS LIST			
ITEM	QTY	DESCRIPTION	SIZE (in)
1	1	PRECAST VAULT	120 x 120
2	1	INLET PIPE	6
3	1	OUTLET PIPE	15
4	1	OUTLET MODULE	
5	1	BYPASS HOOD	
6	8	MODULE LID	
7	5	SUPPORT FRAME	
8	3	24" FRAME AND COVER	24
9	1	30" FRAME AND COVER	30
11	4	WEDGE WALL MOUNT	
12	8	MODULE BODY	
13	1	SUPPORT FRAME LH	
14	1	SUPPORT FRAME RH	
15	1	AUX PIPE 1	12.0
16	4	BACKER PLATE	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
FRACTIONS ± 1/16
DECIMALS:
X.X ± .06
X.XX ± .03
X.XXX ± .015
ANGLES: ± .5°

PROJECTION

COMMENTS:
1. STRUCTURE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING THE UP-FLO VAULT

REVISION HISTORY

REV	BY	DESCRIPTION	DATE
A	GJW	ADD PIPE, SIZE, RIM, INVERTS	4/13/2018
A	GJW	FIRST RELEASE	2/15/2018

DATE: 4/12/2018 | SCALE: 1:50
DRAWN BY: GJW | CHECKED BY: | APPROVED BY:

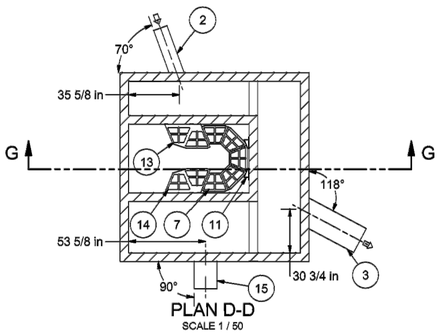
Title
8MZ UP-FLO FILTER
10ft x 10ft

WQU
5533 UNIVERSITY AVE
MADISON, WI

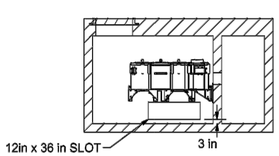
DISTRIBUTED BY
ADVANCED DRAINAGE SYSTEMS, INC.
PLEASE CALL OR EMAIL JAKE BRUNOEHLER FOR PRICING
Jake.Brunoehler@ads-pipe.com 262-794-2306

Hydro International
94 Hutchins Drive
Portland, ME 04102
Tel: +1 (207) 756-6200
Fax: +1 (207) 756-6212
hydro-int.com

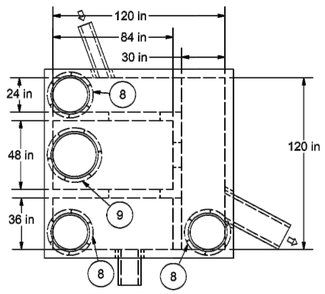
WEIGHT: N/A | MATERIAL:
NEXT ASSEMBLY: 18_12_0384-NEXT ASSY
DRAWING NO.: 18_12_0384-Up Flo Master Model
SHEET SIZE: B | SHEET: 1 OF 2 | Rev: A



PLAN D-D
SCALE 1 / 50



FOOT WALL LAYOUT



PRECAST DETAIL
INTERNALS REMOVED FOR CLARITY

PARTS LIST			
ITEM	QTY	DESCRIPTION	SIZE (in)
1	1	PRECAST VAULT	120 x 120
2	1	INLET PIPE	6
3	1	OUTLET PIPE	15
4	1	OUTLET MODULE	
5	1	BYPASS HOOD	
6	8	MODULE LID	
7	5	SUPPORT FRAME	
8	3	24" FRAME AND COVER	24
9	1	30" FRAME AND COVER	30
11	4	WEDGE WALL MOUNT	
12	8	MODULE BODY	
13	1	SUPPORT FRAME LH	
14	1	SUPPORT FRAME RH	
15	1	AUX PIPE 1	12.0
16	4	BACKER PLATE	

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
FRACTIONS ± 1/16
DECIMALS:
X.X ± .06
X.XX ± .03
X.XXX ± .015
ANGLES: ± .5°

PROJECTION

COMMENTS:

DATE: 4/12/2018 | SCALE: 1 / 50
DRAWN BY: GJW | CHECKED BY: | APPROVED BY:

Title
8MZ UP-FLO FILTER
10ft x 10ft

WQU
5533 UNIVERSITY AVE
MADISON, WI

DISTRIBUTED BY
ADVANCED DRAINAGE SYSTEMS, INC.
PLEASE CALL OR EMAIL JAKE BRUNOEHLER FOR PRICING
Jake.Brunoehler@ads-pipe.com 262-794-2306

Hydro International
2925 NW Aloclek Drive
Suite 140
Hillsboro, OR 97124
Tel: +1 (503) 615-8130
Fax: +1 (503) 615-2906
hydro-int.com

WEIGHT: N/A | MATERIAL:
NEXT ASSEMBLY: 18_12_0384-NEXT ASSY
DRAWING NO.: 18_12_0384-Up Flo Master Model
SHEET SIZE: B | SHEET: 2 OF 2 | Rev: A

1 C5.3 UP-FLO FILTER AND VAULT DETAIL
SCALE: NTS

REVISION				
MARK	REVISION	Checked By: BCA/LAO	DATE	BY
Engineer: MLC	CITY COMMENTS DATED 3/22/18	Scale: NOTED	4/10/18	BCA
Technician: MW		Date: 12-6-2017	Field Bk:	Pg:

CITY OF MADISON, WI

5533 UNIVERSITY AVENUE

UTILITY DETAILS

SNYDER & ASSOCIATES, INC.
5010 VOGES ROAD
MADISON, WISCONSIN 53718
608-838-0444 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 117.0784.30

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Qty	Botanical Name	Common Name	Size/Condition
Trees			
2	Amelanchier x grandiflora 'Autumn Brilliance'	AUTUMN BRILLIANCE APPLE SERVICEBERRY (multi-stem)	8-10'/b. b.
2	Acer miyabei 'Morton'	STATE STREET MIYABE MAPLE	2 1/2"/b. b.
4	Carpinus betulus 'Frans Fontaine'	FRANS FONTAINE HORNBEAM	2 1/2"/b. b.
6	Juniperus virginiana 'Burkii'	BURKII BURK EASTERN RED CEDAR	6'/b. b.
3	Prunus maackii	AMUR CHOKE CHERRY	2 1/2"/b. b.
4	Quercus 'Crimschmidt'	CRIMSON SPIRE OAK	2 1/2"/b. b.
38	Thuja occidentalis 'Techny'	TECHNY ARBORVITAE	6'/b. b.
2	Tilia cordata 'Greenspire'	GREENSPIRE SMALL-LEAVED LINDEN	2 1/2"/b. b.
Shrubs			
5	Aronia melanocarpa 'Morton'	IROQUOIS BEAUTY BLACK BERRIED ARONIA	18-24"/cont.
26	Buxus 'Green Velvet'	GREEN VELVET BOXWOOD	18-24"/b. b.
5	Chamaecyparis pisifera 'Golden Mops'	GOLDEN MOPS JAPANESE FALSE CYPRESS	18-24"/cont.
3	Cornus stolonifera 'Kelseyi'	KELSEYS DOGWOOD	18-24"/cont.
6	Diervilla lonicera	BUSH HONEYSUCKLE	18-24"/cont.
3	Diervilla sessilifolia 'Cool Splash'	COOL SPLASH BUSH HONEYSUCKLE	18-24"/cont.
3	Euonymus fortunei 'Emerald Gaiety'	EMERALD GAIETY EUONYMUS	18-24"/cont.
21	Hydrangea arborescens 'Abetwo' pp#20,571, cbr#4166 (Proven Winners)	INCREDIBALL SMOOTH HYDRANGEA (Proven Winners)	18-24"/cont.
5	Hydrangea arborescens 'Annabelle'	ANNABELLE HYDRANGEA	18-24"/cont.
9	Hydrangea arborescens 'NCHA1' PP: 20765	Invincibelle Spirit Hydrangea	18-24"/cont.
14	Hydrangea paniculata 'SMHPLQF' pp#25,136, cbraf (Proven Winners)	LITTLE QUICK FIRE HARDY HYDRANGEA (Proven Winners)	18-24"/cont.
4	Physocarpus opulifolis Donna May	LITTLE DEVIL NINEBARK	24-30"/cont.
4	Picea abies 'Nidiformis'	NIDIFORMIS NORWAY SPRUCE	18-24"/cont.
3	Pinus mugo 'Compacta'	COMPACTA MUGO PINE	18-24"/cont.
2	Rhus aromatica 'Gro-low'	GRO-LOW FRAGRANT SUMAC	18-24"/cont.
18	Symphoricarpos 'Sofie' pp#21,226 (Proven Winners)	PROUD BERRY CORAL BERRY (Proven Winners)	18-24"/cont.
3	Syringa patula 'Miss Kim'	MISS KIM MANCHURIAN LILAC	24-30"/cont.
11	Taxus x media 'Everlow'	EVERLOW YEW	18-24"/cont.
Ornamental Grasses			
18	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER FEATHER REED GRASS	#1 cont.
22	Calamagrostis x acutiflora 'Overdam'	OVERDAM FEATHER REED GRASS	#1 cont.
28	Deschampsia caespitosa	TUFTED HAIR GRASS	#1 cont.
8	Sporobolus heterolepis	PRAIRIE DROPSEED GRASS	#1 cont.
Perennials and Annuals			
18	Asclepias tuberosa	BUTTERFLY WEED	#1 cont.
27	Baptisia australis	BLUE WILD INDIGO	#1 cont.
10	Echinacea purpurea 'Kims Knee High'	KIMS KNEE HIGH CONEFLOWER	#1 cont.
38	Geranium x cantabrigiense 'Biokovo'	BIOKOVO CRANESBILL	#1 cont.
37	Hemerocallis 'Prairie Blue Eyes'	PRAIRIE BLUE EYES DAYLILY	#1 cont.
21	Hemerocallis 'Strawberry Candy'	STRAWBERRY CANDY DAYLILY	#1 cont.
19	Nepeta x faassenii 'Walkers Low'	WALKERS LOW CATMINT	#1 cont.
12	Penstemon digitalis 'Husker Red'	HUSKER RED PENSTEMON	#1 cont.
9	Perovskia atriplicifolia 'Little Spire'	LITTLE SPIRE RUSSIAN SAGE	#1 cont.
12	Pycnanthemum virginianum	VIRGINIA MOUNTAIN MINT	#1 cont.
34	Rudbeckia fulgida 'Goldsturm'	GOLDSTURM BLACK-EYED SUSAN	#1 cont.
16	Sedum 'Autumn Joy'	AUTUMN JOY SEDUM	#1 cont.
18	Solidago shortii 'Solar Cascade'	SOLAR CASCADE GOLDENROD	#1 cont.
30	Stachys monnieri 'Hummelo'	HUMMELO COMMON BETONY	#1 cont.
Vines			
6	Parthenocissus quinquefolia	VIRGINIA CREEPER	#1 cont.

LANDSCAPE CALCULATIONS & DISTRIBUTION:

TOTAL SQUARE FOOTAGE OF DEVELOPED AREA= 35,483 SQUARE FEET
TOTAL LANDSCAPE POINTS REQUIRED= 595

Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2½ inch caliper measured diameter at breast height (dbh)	35			15	525
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35				
Ornamental tree	1 1/2 inch caliper	15			2	30
Upright evergreen shrub (i.e. arborvitae)	3-4 feet tall	10			27	270
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3			96	288
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4			49	196
Ornamental grasses/ perennials	#1 gallon container size, Min. 8"-18"	2			383	766
Ornamental/ decorative fencing or wall	n/a	4 per 10 lineal ft.				
Existing significant specimen tree	Minimum size: 2 ½ inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200				
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.	5 points per "seat"				
Sub Totals						2,075

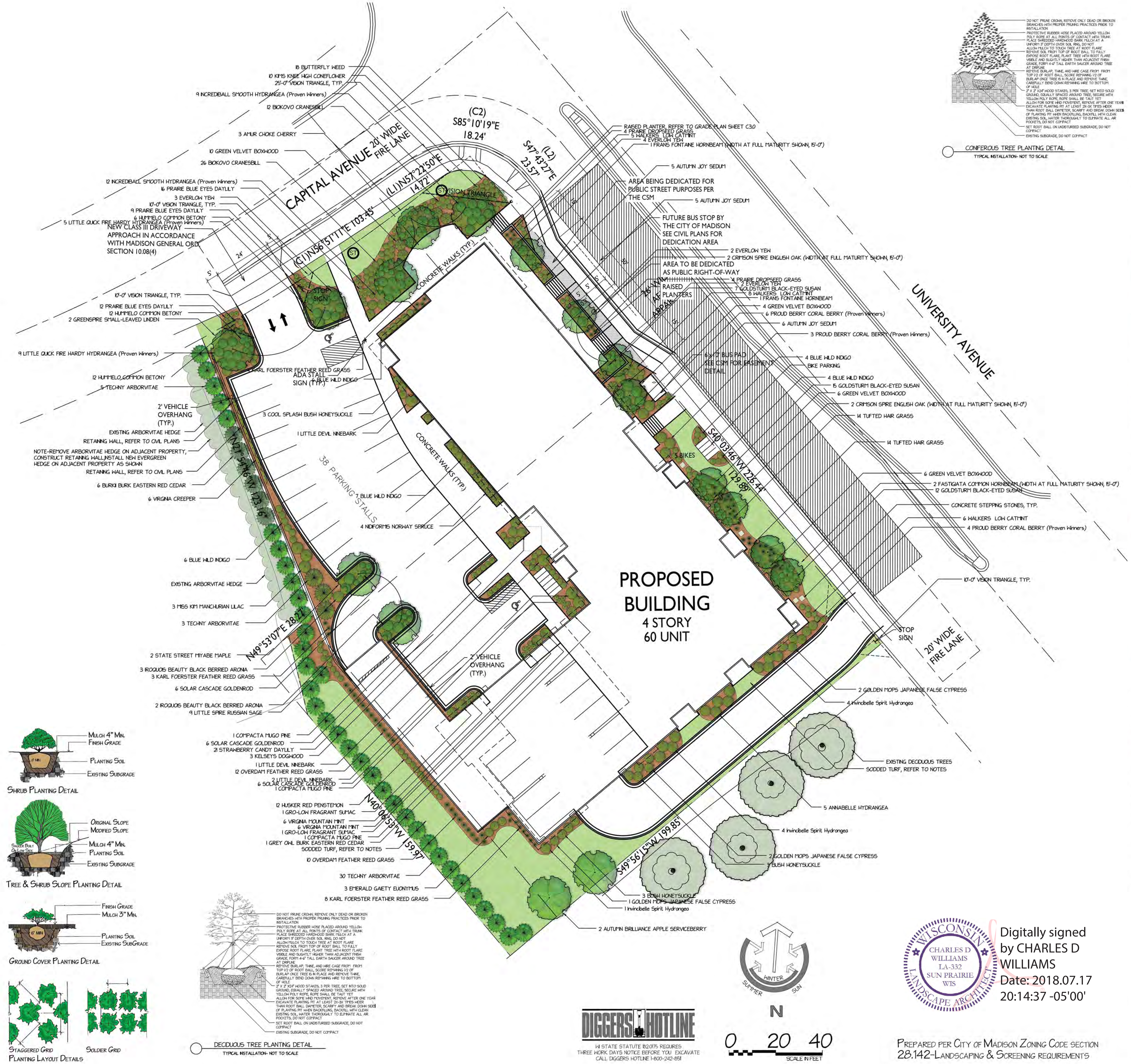
Total Number of Points Provided 2,465

PLANTING NOTES:

1)CONTRACTOR SHALL VERIFY LOCATION OF ALL ON-SITE UTILITIES PRIOR TO COMMENCING ANY WORK ON SITE. WI STATE STATUTE 182.0715 REQUIRES THREE WORK DAYS NOTICE BEFORE YOU EXCAVATE. CALL DIGGER'S HOTLINE AT 1-800-242-8511.
2)SUPPLY AND INSTALL ALL WISCONSIN GROWN NURSERY STOCK. GUARANTEE ALL STOCK FOR A PERIOD OF ONE YEAR. ALL PLANTING MATERIAL IS TO MEET AMERICAN STANDARDS FOR NURSERY STOCK ANSI Z60.1-2004. ALL PLANT MATERIAL IS TO BE PLANTED IMMEDIATELY AFTER ARRIVAL AND UNLOADING ON SITE. PLANT TYPES, SIZES, AND QUANTITIES ARE ACCORDING TO THE PROPOSED PLANS. IF ANY DISCREPANCIES ARE PRESENT BETWEEN PLANT LEGEND AND GRAPHIC DEPICTION, GRAPHICALLY DEPICTED QUANTITIES SHALL HOLD PRECEDENCE. ANY POTENTIAL PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING.
3)ACTUAL LOCATIONS OF PLANT MATERIAL ARE SUBJECT TO FINAL SITE LAYOUT AND CONDITIONS AND MAY BE ADJUSTED ACCORDINGLY.
4)ALL DECIDUOUS TREES SHALL BE GUYED AND STAKED ACCORDINGLY AS PER PLANTING DETAILS.
5)ALL PLANTS ARE TO BE BACKFILLED WITH A 50/50 MIX OF PLANT STARTER AND TOPSOIL BLEND AND IS TO BE FREE OF ROOTS, ROCKS LARGER THAN 1" IN DIAMETER, SUBSOIL DEBRIS, AND WEEDS.
6)OPEN AND REMOVE THE TOP BURLAP AND TWINE OR STRING FROM ALL BALLED AND BURLAPPED PLANTS AND SET ALL PLANTS AT FINISH GRADE.
7)SUPPLY AND INSTALL 3"-4" OF SHREDDED HARDWOOD BARK MULCH IN ALL PLANT BEDS TREATED WITH A GRANULAR PRE-EMERGENT HERBICIDE PRIOR TO PLACING MULCH.
8)SUPPLY AND INSTALL STEEL EDGING, (3/16" x 4" SIZE) WHERE ALL PLANT BEDS ADJOIN TURF AREAS. SUPPLY AND INSTALL ACCORDING TO THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. TYPE TO BE APPROVED BY OWNER.
9)SUPPLY AND INSTALL 3-4" OF SHREDDED HARDWOOD BARK MULCH 1'-0" PAST THE DRIPLINE OF ALL INDIVIDUAL TREES. DO NOT PLACE MULCH AGAINST TREE TRUNK OR ROOT FLARE AT TREE BASE.
10)ALL TURF AREAS SHALL BE FINE GRADED, REMOVING ALL SURFACE STONES 1" OR LARGER. APPLY A STARTER FERTILIZER AT THE RECOMMENDED RATE IN ALL TURF AREAS. ALL TURF AREAS SHALL BE SODDED WITH A KENTUCKY BLUEGRASS BLEND SOD, INSTALLED IN A STAGGERED JOINT LAYING FASHION. ALL SODDED AREAS SHALL BE WATERED IMMEDIATELY AFTER INSTALLATION AND SATURATED TO A DEPTH OF 3".

GENERAL NOTES:

1)REFER TO GRADING AND CIVIL PLANS FOR RETAINING WALLS.
2)SUPPLY AND INSTALL A DESIGN/BUILD IRRIGATION SYSTEM FOR ALL LANDSCAPED AREAS. CONTRACTOR TO PROVIDE CAD SHOP DRAWINGS AND ALL PRODUCT LITERATURE SUBMITTALS PRIOR TO FINAL APPROVAL. AS-BUILT DRAWINGS, MANUALS, AND, WARRANTIES SHALL BE PROVIDED TO THE OWNER UPON PROJECT COMPLETION.
3)THE OWNER IS RESPONSIBLE FOR ALL ON-GOING MAINTENANCE OF LANDSCAPING ON THE SITE. ALL PLANTING BEDS SHALL BE KEPT FREE OF WEEDS, ANY PLANT MATERIAL THAT HAS DIED SHALL BE REPLACED NO LATER THAN THE UPCOMING JUNE 1. ANY PLANT MATERIAL THAT HAS DIED DURING THE FIRST YEAR WARRANTLY PERIOD SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST.



NELSON LANDSCAPE INC.

Post Office Box 823
Waukesha, WI 53187-0823
262-549-6111
262-549-9229
www.nelsonlandscape.com

Sheet Title:

LANDSCAPE PLAN

Project:

PROPOSED DEVELOPMENT
5535 UNIVERSITY AVENUE
MADISON, WI 53705

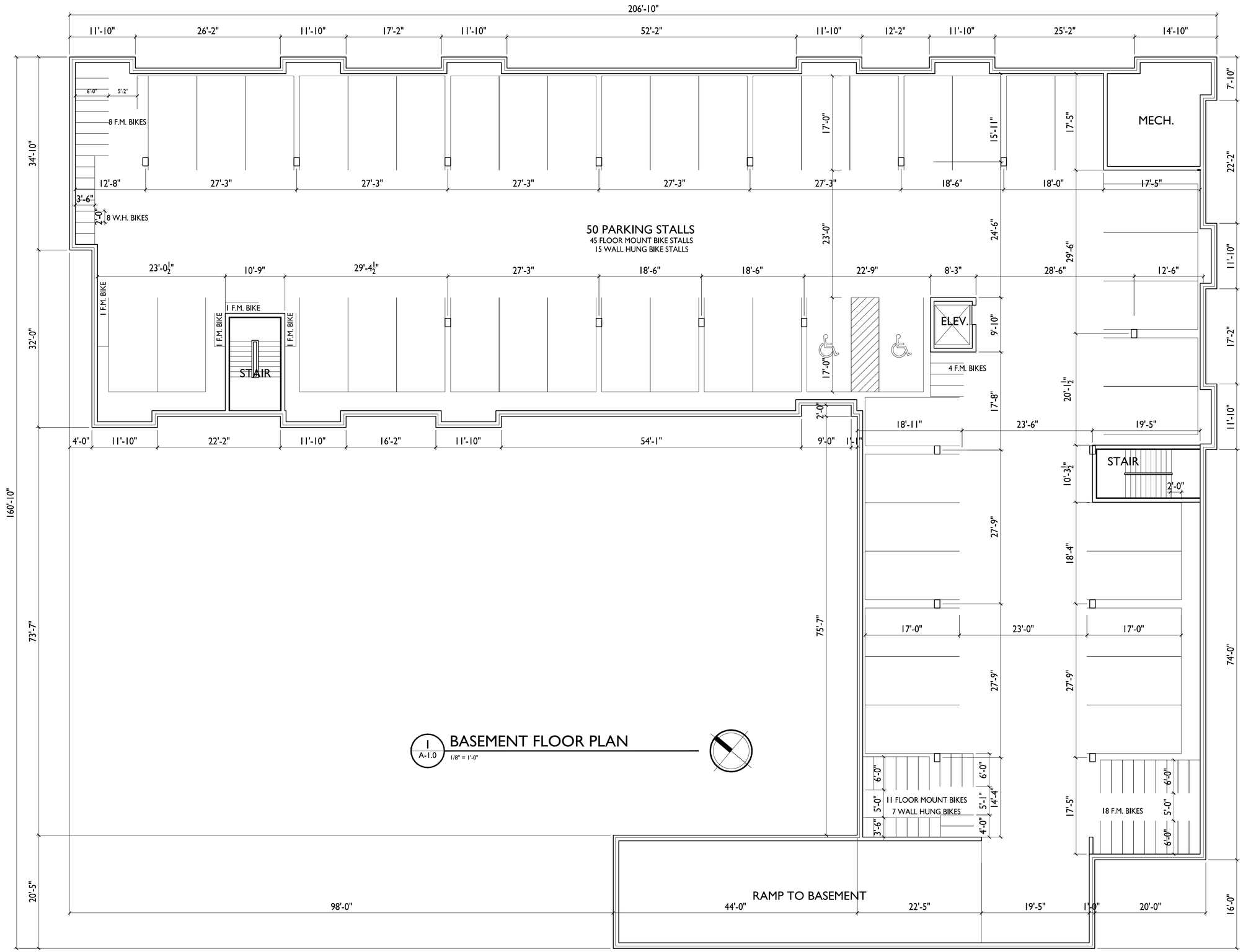
Client:

Plan Notes:

Designed By:
Drawn By: C. J. N.
Date: 10-03-17
Revisions: 10-04-17, 12-05-17, 12-07-17, 12-11-17, 4-04-18, 4-06-18, 4-09-18, 7-17-18

Notice:

This plan is subject to final on-site conditions and may be modified to account for unforseen obstacles, other changes, or site modifications that were not made known at the time of preparation dated on this plan.



1 A-1.0 BASEMENT FLOOR PLAN

1/8" = 1'-0"

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7601 University Ave, Ste 201
Middleton, WI 53562

ISSUED

Issued for Land Use & UDC - September 5, 2018

PROJECT TITLE

Mixed-Use Development

5535 University Ave.
Madison, WI

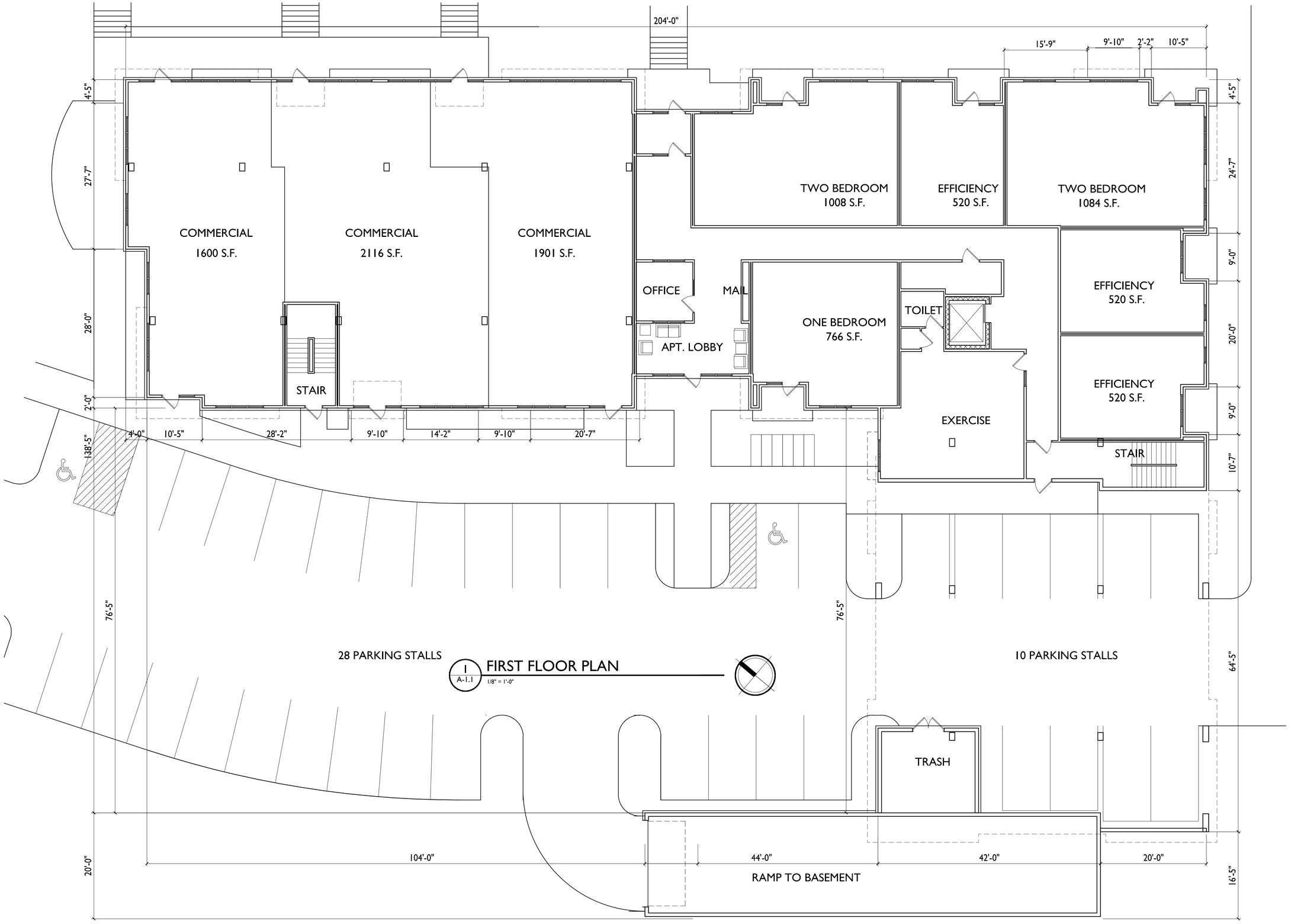
SHEET TITLE

Basement Floor Plan

SHEET NUMBER

A-1.0

PROJECT NO. 1735



1 / A-1.1 FIRST FLOOR PLAN

1/8" = 1'-0"

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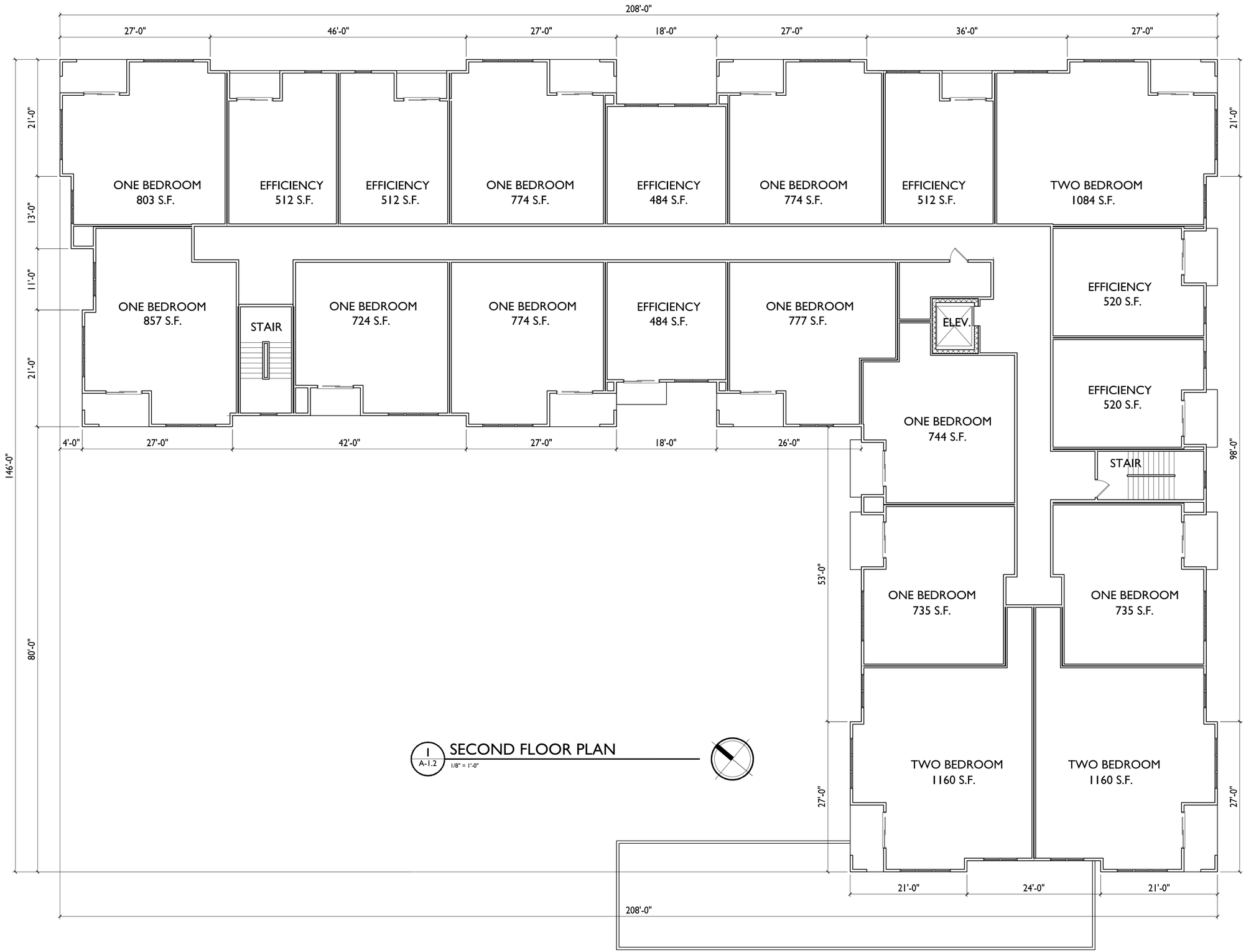
PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
First Floor Plan

SHEET NUMBER
A-1.1

PROJECT NO. 1735



1 / A-1.2 SECOND FLOOR PLAN

1/8" = 1'-0"

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PROJECT TITLE

Mixed-Use Development

5535 University Ave.
Madison, WI

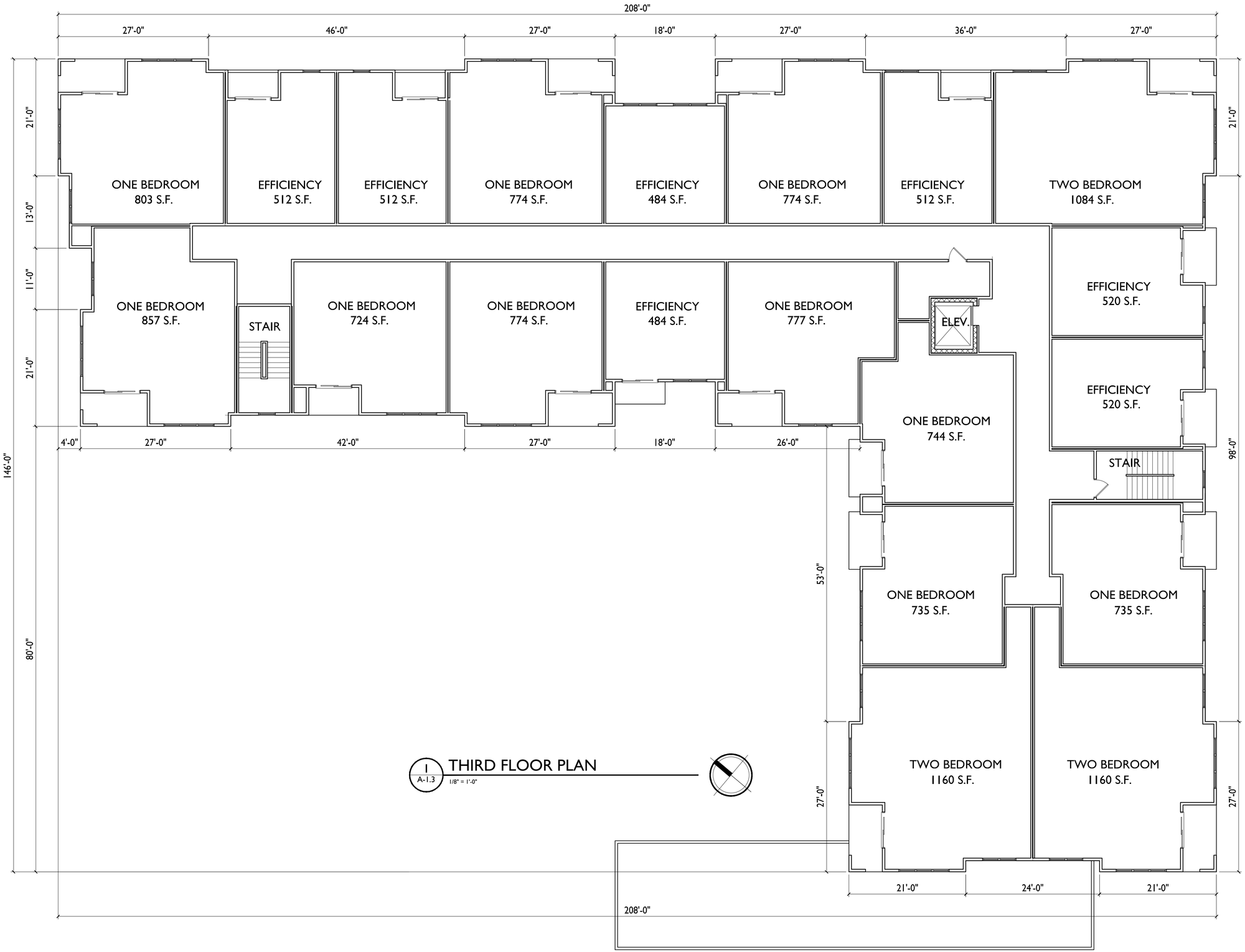
SHEET TITLE

Second Floor Plan

SHEET NUMBER

A-1.2

PROJECT NO. 1735



1 / A-1.3 THIRD FLOOR PLAN

1/8" = 1'-0"

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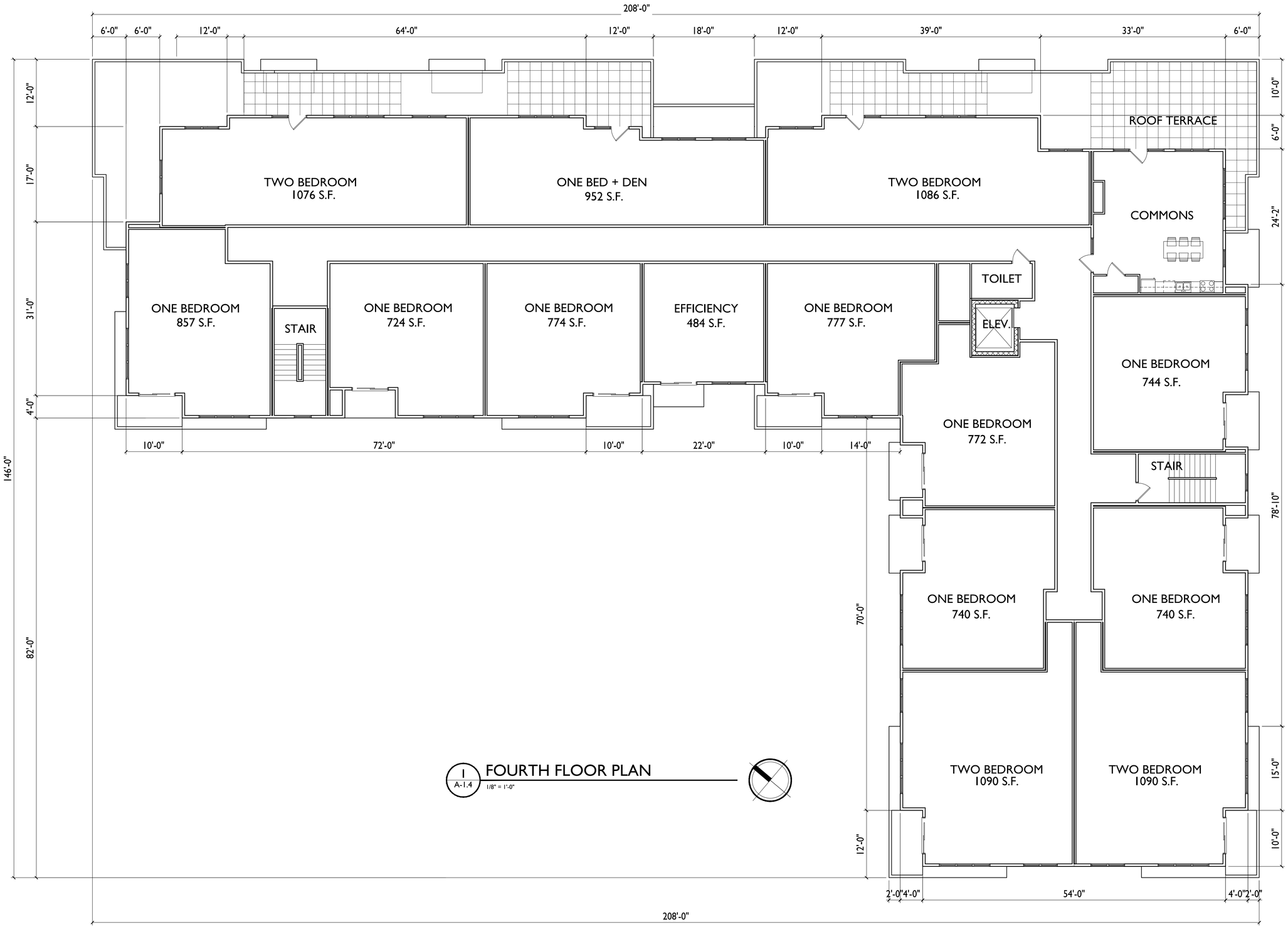
PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Third Floor Plan

SHEET NUMBER
A-1.3

PROJECT NO. 1735



1 / A-1.4 FOURTH FLOOR PLAN

1/8" = 1'-0"

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PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Fourth Floor Plan

SHEET NUMBER
A-1.4

PROJECT NO. 1735

NORTH ELEVATION - ALONG UNIVERSITY AVE.

SOUTH ELEVATION

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PROJECT TITLE

SHEET TITLE
Exterior Elevations

SHEET NUMBER
A-2.1

PROJECT NUMBER 1735

EAST ELEVATION

WEST ELEVATION - ALONG CAPITAL AVE.

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PROJECT TITLE

SHEET TITLE
Exterior Elevations

SHEET NUMBER
A-2.2

PROJECT NUMBER 1735

Exterior Material Set

1	BALCONY - Metal-SW7026 GRIFFIN
2	BRICK VENEER - METAL-SW7026 GRIFFIN
3	PRECAST - ROCKFAST-WHEATSTONE
4	HORIZONTAL SIDING & TRIM - COMPOSITE-MED CHARCOAL
5	HORIZONATAL SIDING & TRIM @ BAYS - COMPOSITE-CEDAR
6	WINDOWS - ANDERSON-CANVAS
7	RAILING - ALUMINUM-DARK BRONZE
9	BUILDING ENTRANCES - ALUMINUM STOREFRONT-ARCTIS SILVER

EAST ELEVATION

WEST ELEVATION - ALONG CAPITAL AVE.

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PROJECT TITLE

SHEET TITLE

Exterior Elevations

SHEET NUMBER

A-2.3

PROJECT NUMBER 1735

Exterior Material Set

1	BALCONY - Metal-SW7026 GRIFFIN
2	BRICK VENEER - METAL-SW7026 GRIFFIN
3	PRECAST - ROCKFAST-WHEATSTONE
4	HORIZONTAL SIDING & TRIM - COMPOSITE-MED CHARCOAL
5	HORIZONATAL SIDING & TRIM @ BAYS - COMPOSITE-CEDAR
6	WINDOWS - ANDERSON-CANVAS
7	RAILING - ALUMINUM-DARK BRONZE
9	BUILDING ENTRANCES - ALUMINUM STOREFRONT-ARCTIS SILVER

NORTH ELEVATION - ALONG UNIVERSITY AVE.

SOUTH ELEVATION

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PROJECT TITLE

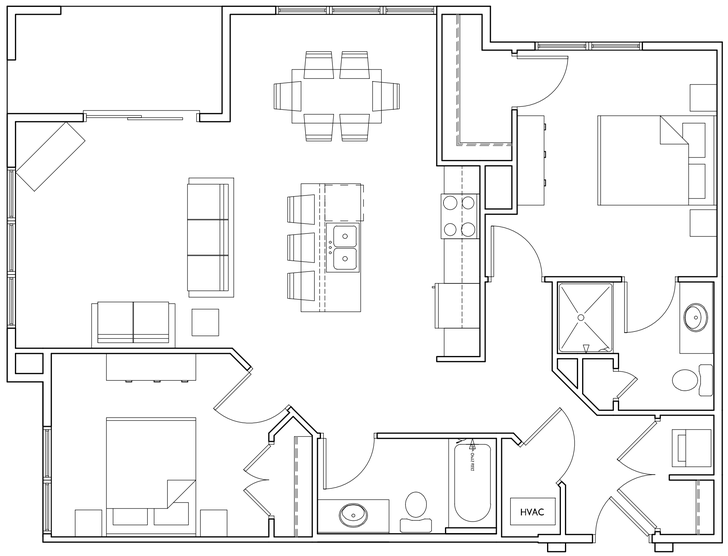
SHEET TITLE

Exterior Elevations

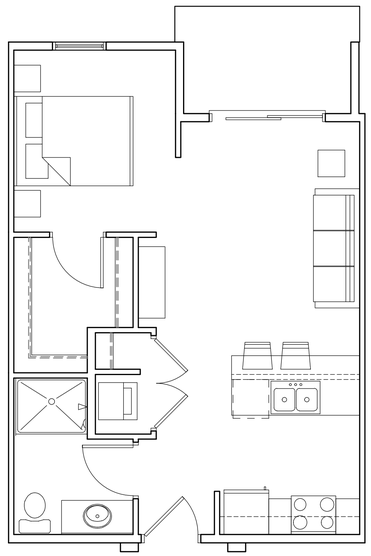
SHEET NUMBER

A-2.4

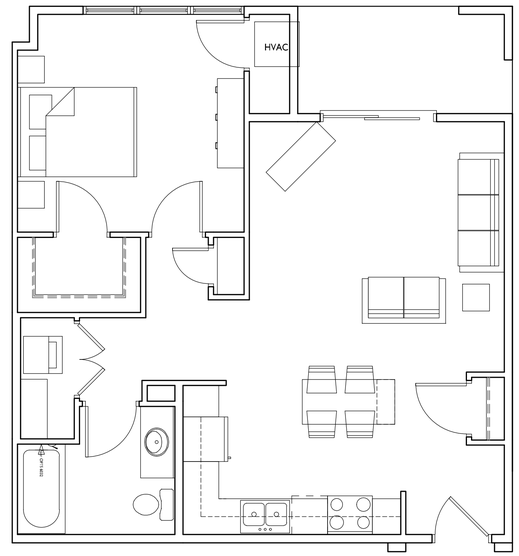
PROJECT NUMBER 1735



TWO BEDROOM
1084 S.F.



EFFICIENCY
520 S.F.



ONE BEDROOM
766 S.F.

1 / A-5.1 TYPICAL UNIT PLANS
1/4" = 1'-0"

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PROJECT TITLE
Mixed-Use Development

5535 University Ave.
Madison, WI

SHEET TITLE
Typical Unit Plans

SHEET NUMBER
A-5.1

PROJECT NO. 1735

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Exterior Material Set	
1	BALCONY - Metal-SW7026 GRIFFIN
2	BRICK VENEER - METAL-SW7026 GRIFFIN
3	PRECAST - ROCKFAST-WHEATSTONE
4	HORIZONTAL SIDING & TRIM - COMPOSITE-MED CHARCOAL
5	HORIZONATAL SIDING & TRIM @ BAYS - COMPOSITE-CEDAR
6	WINDOWS - ANDERSON-CANVAS
7	RAILING - ALUMINUM-DARK BRONZE
9	BUILDING ENTRANCES - ALUMINUM STOREFRONT-ARCTIS SILVER

EAST ELEVATION

WEST ELEVATION - ALONG CAPITAL AVE.

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KEY PLAN

ISSUED
Issued for Land Use and UDC - September 5, 2018
Issued for Planning + UDC - Supplement - 9-21-2018

PROJECT TITLE

SHEET TITLE
Exterior Elevations

SHEET NUMBER
A-2.3

PROJECT NUMBER 1735