

Legal Description

Site Address: 2002 Tennyson Lane

CSM 13716 AS RECORDED IN DANE COUNTY REGISTER OF DEEDS IN VOL 90 PAGE 185
OF CERTIFIED SURVEYS, LOT 1.



City of Madison Fire Department

30 West Mifflin Street, 8th & 9th Floors, Madison, WI 53703-2579

Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

Project Address: 2002 Tennyson Lane

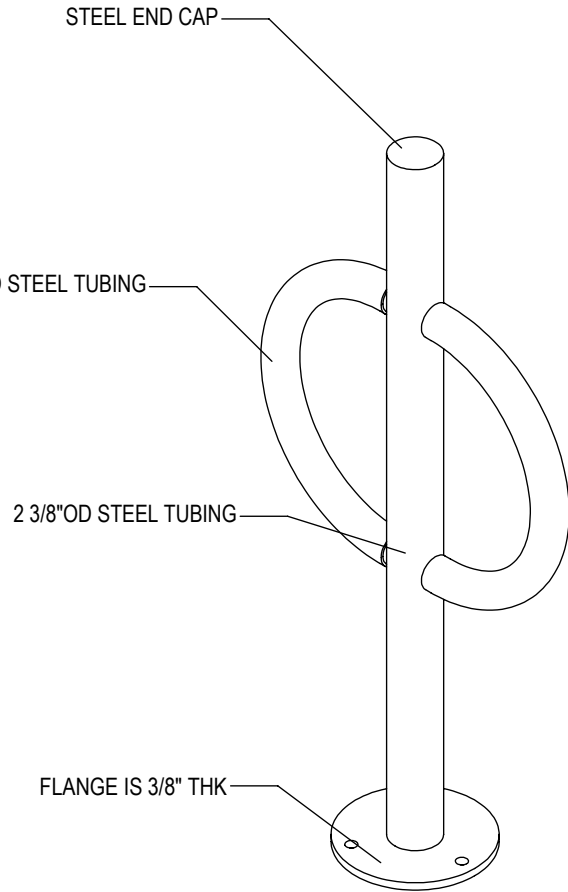
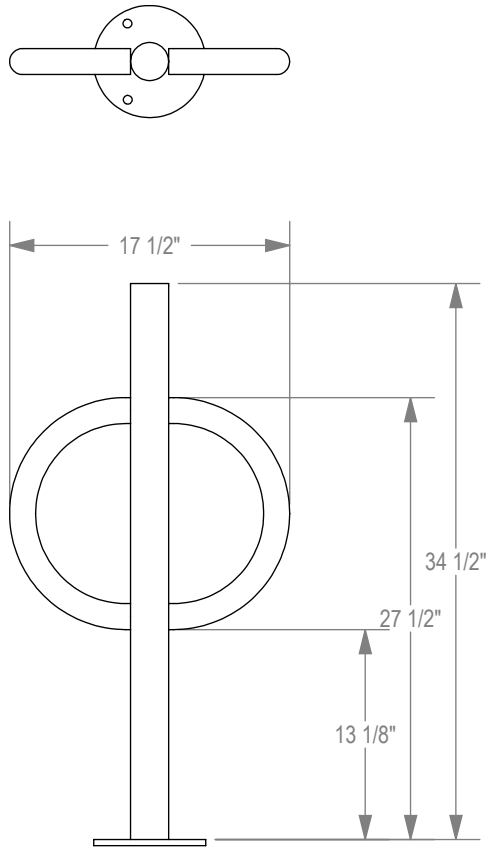
Contact Name & Phone #: Don Schroeder 608-836-3690

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

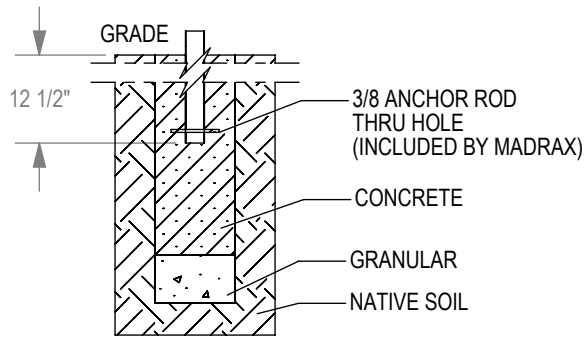
1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system? If non-sprinklered , fire lanes extend to within 150-feet of all portions of the exterior wall? If sprinklered , fire lanes are within 250-feet of all portions of the exterior wall?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs? a) Is the fire lane a minimum unobstructed width of at least 20-feet? b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet? c) Is the minimum inside turning radius of the fire lane at least 28-feet? d) Is the grade of the fire lane not more than a slope of 8%? e) Is the fire lane posted as fire lane? (Provide detail of signage.) f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.) g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Is the fire lane obstructed by security gates or barricades? If yes: a) Is the gate a minimum of 20-feet clear opening? b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet? If yes, does the area for turning around fire apparatus comply with IFC D103?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
6. Is any part of the building <u>greater than 30-feet</u> above the grade plane? 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? b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? c) Are there any overhead power or utility lines located across the aerial apparatus fire lane? d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species) e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet? f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants? <i>Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.</i> a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants? b) Is there at least 40' between a hydrant and the building? 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? d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb? 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<i>Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.</i>			

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

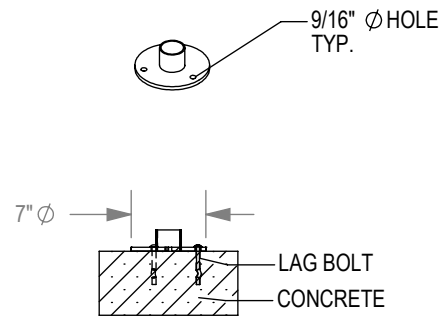
This worksheet is based on MGO 34.503 and IFC 2012 Edition Chapter 5 and Appendix D; please see the codes for further information.



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

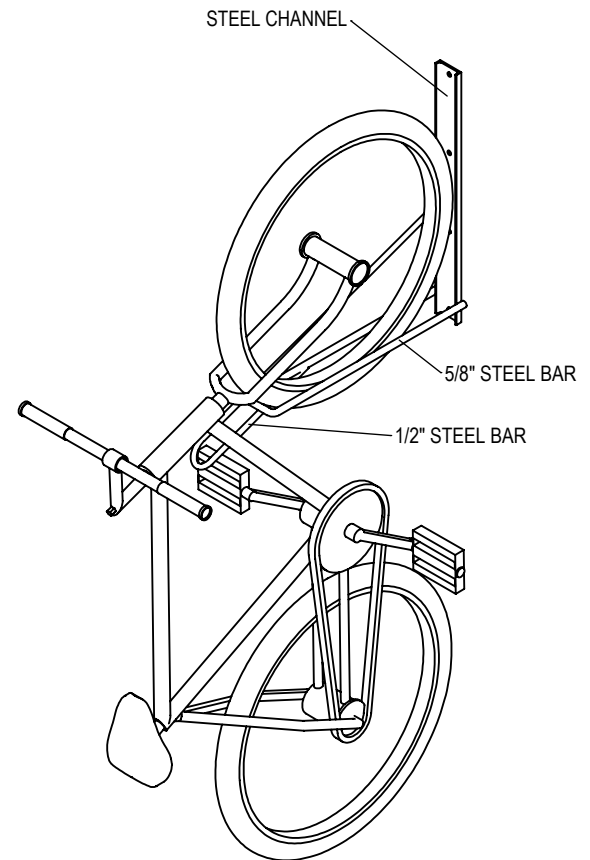
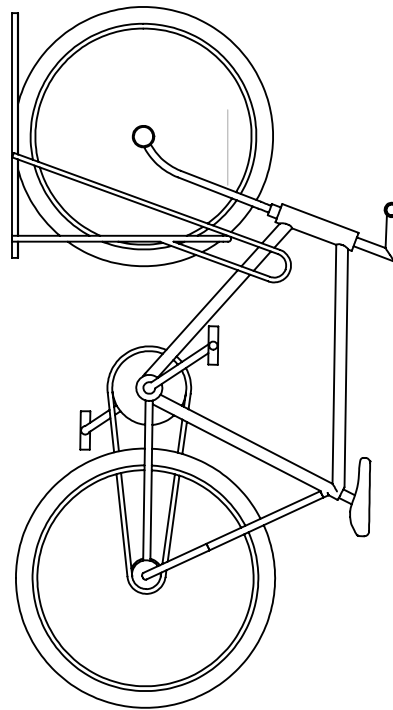
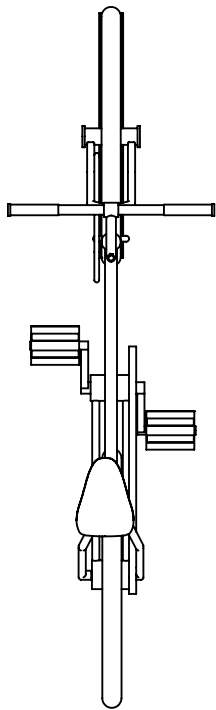
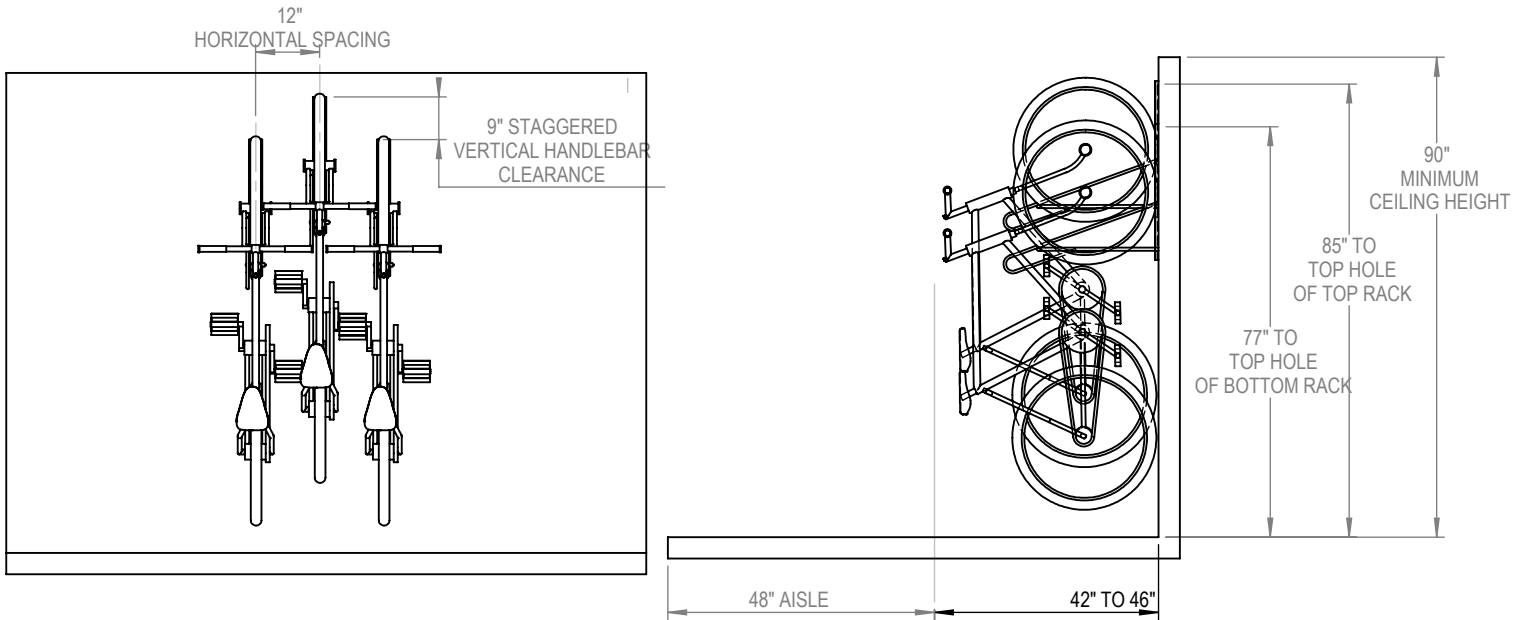
DATE: 8-20-12
 ENG: SMC

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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.



TRILARY, INC.
 1080 UNIEK DRIVE
 WAUNAKEE, WI 53597
 P(800) 448-7931, P(608) 849-1080, F(608) 849-1081
 WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM



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

DATE: 8-7-09
 ENG: BLW

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NOTES:

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2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.



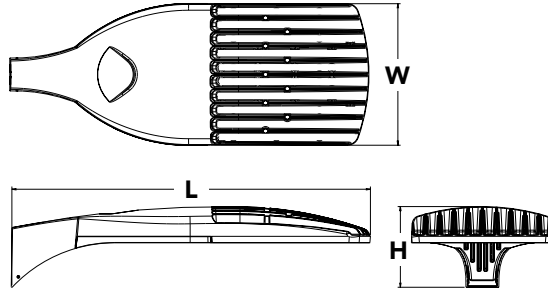
D-Series Size 1 LED Area Luminaire

d#series



Specifications

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



A+ Capable options indicated by this color background.

Catalog Number
Notes
Type

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

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 background¹

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](#)

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD

DSX1LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P4 P7 P2 P5 P8 P3 P6 P9 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 TSVS 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 ^{4,5} 120 ⁶ 208 ^{5,6} 240 ^{5,6} 277 ⁶ 347 ^{5,6,7} 480 ^{5,6,7}	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁸ RPUMBA Round pole universal mounting adaptor ⁸ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁹

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹⁰ PER NEMA twist-lock receptacle only (controls ordered separate) ¹¹ PER5 Five-wire receptacle only (controls ordered separate) ^{11,12} PER7 Seven-wire receptacle only (controls ordered separate) ^{11,12} DMG 0-10V dimming extend out back of housing for external control (leads exit fixture) DS Dual switching ^{13,14} PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ^{5,15,16} PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ^{5,15,16} PIRHN Network, Bi-Level motion/ambient sensor ¹⁷ PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,15,16}	PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{5,15,16} BL30 Bi-level switched dimming, 30% ^{5,14,18} BL50 Bi-level switched dimming, 50% ^{5,14,18} PNMTDD3 Part night, dim till dawn ^{5,19} PNMT5D3 Part night, dim 5 hrs ^{5,19} PNMT6D3 Part night, dim 6 hrs ^{5,19} PNMT7D3 Part night, dim 7 hrs ^{5,19} FAO Field adjustable output ²⁰	Shipped installed HS House-side shield ²¹ SF Single fuse (120, 277, 347V) ⁶ DF Double fuse (208, 240, 480V) ⁶ L90 Left rotated optics ¹ R90 Right rotated optics ¹ Shipped separately BS Bird spikes ²² EGS External glare shield ²²
		DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



Ordering Information

Accessories

Ordered and shipped separately.

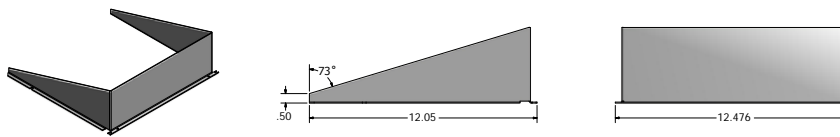
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²³
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²³
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²³
DSHORT SBK U	Shorting cap ²³
DSX1HS 30C U	House-side shield for 30 LED unit ²¹
DSX1HS 40C U	House-side shield for 40 LED unit ²¹
DSX1HS 60C U	House-side shield for 60 LED unit ²¹
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²⁴
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁴

For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

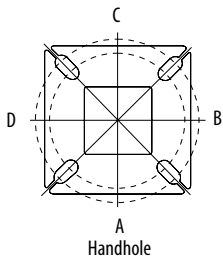
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO or P4, P7, P8, P9 or P13.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P1 or P10. Not available with BL30, BL50 or PNMT options.
- 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.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits.
- Reference Motion Sensor table on page 3.
- Reference PER table on page 3 to see functionality.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Not available with 347V, 480V, PNMT, DS. For PER5 or PER7, see PER Table on page 3. Requires isolated neutral.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7, see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



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)

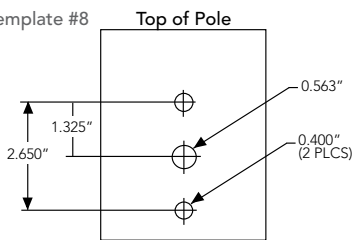
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

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.

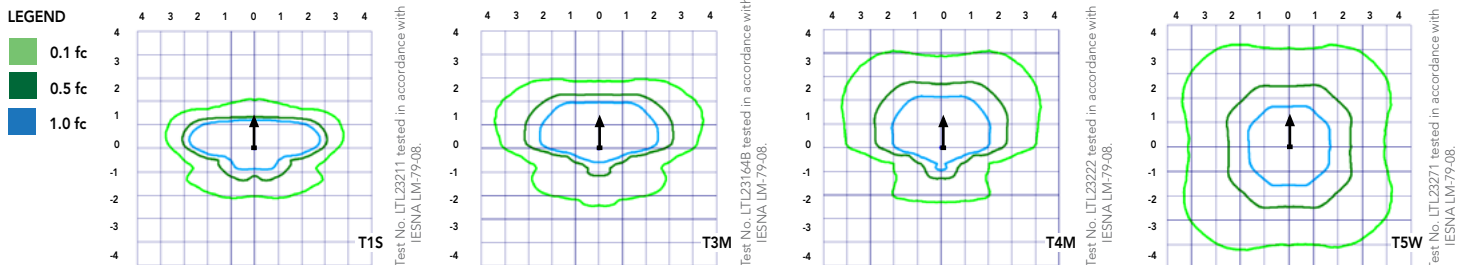
Template #8



Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



Performance Data

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	59°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	0	25000	50000	100000
Lumen Maintenance Factor	1.00	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	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

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 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
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130	3,640	1	0	1	70
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130	3,813	1	0	1	73
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131	3,689	1	0	1	71
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127	3,770	1	0	1	73
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131	3,752	1	0	1	72
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128	3,758	1	0	1	72
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131	3,701	1	0	1	71
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136	3,928	2	0	0	76
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136	3,881	2	0	0	75
				T5M	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136	3,930	2	0	1	76
				T5W	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135	3,820	3	0	1	73
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107					
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80					
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80					
				30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129	4,561
T2S	8,240	2	0					2	118	8,877	2	0	2	127	8,989	2	0	2	128	4,777	1	0	1	70
T2M	8,283	2	0					2	118	8,923	2	0	2	127	9,036	2	0	2	129	4,622	1	0	2	68
T3S	8,021	2	0					2	115	8,641	2	0	2	123	8,751	2	0	2	125	4,724	1	0	1	69
T3M	8,263	2	0					2	118	8,901	2	0	2	127	9,014	2	0	2	129	4,701	1	0	2	69
T4M	8,083	2	0					2	115	8,708	2	0	2	124	8,818	2	0	2	126	4,709	1	0	2	69
TFTM	8,257	2	0					2	118	8,896	2	0	2	127	9,008	2	0	2	129	4,638	1	0	2	68
TSVS	8,588	3	0					0	123	9,252	3	0	0	132	9,369	3	0	0	134	4,922	2	0	0	72
TSS	8,595	3	0					1	123	9,259	3	0	1	132	9,376	3	0	1	134	4,863	2	0	0	72
T5M	8,573	3	0					2	122	9,236	3	0	2	132	9,353	3	0	2	134	4,924	3	0	1	72
T5W	8,517	3	0					2	122	9,175	4	0	2	131	9,291	4	0	2	133	4,787	3	0	1	70
BLC	6,770	1	0					2	97	7,293	1	0	2	104	7,386	1	0	2	106					
LCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79					
RCCO	5,038	1	0					2	72	5,427	1	0	2	78	5,496	1	0	2	79					
30	1050	P3	102W					T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125	
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125					
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125					
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121					
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125					
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122					
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125					
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130					
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130					
				T5M	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130					
				T5W	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129					
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102					
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76					
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76					
				30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117	
T2S	13,421	3	0					3	107	14,458	3	0	3	116	14,641	3	0	3	117					
T2M	13,490	2	0					2	108	14,532	3	0	3	116	14,716	3	0	3	118					
T3S	13,064	3	0					3	105	14,074	3	0	3	113	14,252	3	0	3	114					
T3M	13,457	2	0					2	108	14,497	2	0	2	116	14,681	2	0	2	117					
T4M	13,165	2	0					3	105	14,182	2	0	3	113	14,362	2	0	3	115					
TFTM	13,449	2	0					3	108	14,488	2	0	3	116	14,672	2	0	3	117					
TSVS	13,987	4	0					1	112	15,068	4	0	1	121	15,259	4	0	1	122					
TSS	13,999	3	0					1	112	15,080	3	0	1	121	15,271	3	0	1	122					
T5M	13,963	4	0					2	112	15,042	4	0	2	120	15,233	4	0	2	122					
T5W	13,872	4	0					3	111	14,944	4	0	3	120	15,133	4	0	3	121					
BLC	11,027	1	0					2	88	11,879	1	0	2	95	12,029	1	0	2	96					
LCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72					
RCCO	8,205	1	0					3	66	8,839	1	0	3	71	8,951	1	0	3	72					
30	1400	P5	138W					T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116	
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116					
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117					
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113					
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116					
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114					
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116					
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121					
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121					
				T5M	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121					
				T5W	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120					
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95					
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0							

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	Lu-mens	B	U	G	LPW			
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118								
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118								
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119								
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115								
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118								
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116								
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118								
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123								
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123								
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123								
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122								
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97								
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72								
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72								
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115				
T2S	19,206	3	0					3	105	20,690	3	0	3	113	20,952	3	0	3	114								
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115								
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111								
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115								
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112								
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115								
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119								
T5S	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119								
T5M	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119								
T5W	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118								
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94								
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70								
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70								
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119				
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118								
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119								
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115								
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119								
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116								
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119								
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123								
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123								
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123								
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122								
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97								
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72								
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72								
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116				
T2S	25,548	3	0					4	106	27,522	3	0	4	114	27,871	3	0	4	116								
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116								
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113								
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116								
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113								
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116								
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121								
T5S	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121								
T5M	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120								
T5W	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120								
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95								
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71								
									15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	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.

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			
					60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134	7,167	2	0
T2S	12,967	4	0	4					122	13,969	4	0	4	132	14,146	4	0	4	133	7,507	2	0	2	76			
T2M	13,201	3	0	3					125	14,221	3	0	3	134	14,401	3	0	3	136	7,263	2	0	2	73			
T3S	12,766	4	0	4					120	13,752	4	0	4	130	13,926	4	0	4	131	7,424	2	0	2	75			
T3M	13,193	4	0	4					124	14,213	4	0	4	134	14,393	4	0	4	136	7,387	2	0	2	75			
T4M	12,944	4	0	4					122	13,945	4	0	4	132	14,121	4	0	4	133	7,400	2	0	2	75			
TFTM	13,279	4	0	4					125	14,305	4	0	4	135	14,486	4	0	4	137	7,288	1	0	2	74			
TSVS	13,372	3	0	1					126	14,405	4	0	1	136	14,588	4	0	1	138	7,734	3	0	1	78			
T5S	13,260	3	0	1					125	14,284	3	0	1	135	14,465	3	0	1	136	7,641	3	0	0	77			
T5M	13,256	4	0	2					125	14,281	4	0	2	135	14,462	4	0	2	136	7,737	3	0	2	78			
TSW	13,137	4	0	3					124	14,153	4	0	3	134	14,332	4	0	3	135	7,522	3	0	2	76			
BLC	10,906	3	0	3					103	11,749	3	0	3	111	11,898	3	0	3	112								
LCCO	7,789	1	0	3					73	8,391	1	0	3	79	8,497	1	0	3	80								
RCCO	7,779	4	0	4					73	8,380	4	0	4	79	8,486	4	0	4	80								
60	700	P11	137W	T1S					16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132	8,952	2	0	2
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131	9,377	2	0	2	72			
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133	9,072	2	0	2	69			
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129	9,273	2	0	2	71			
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133	9,227	2	0	2	70			
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131	9,243	2	0	2	71			
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134	9,103	2	0	2	69			
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135	9,661	3	0	1	74			
				T5S	16,832	4	0	1	123	18,133	4	0	1	132	18,362	4	0	1	134	9,544	3	0	1	73			
				T5M	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134	9,665	3	0	2	74			
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133	9,395	4	0	2	72			
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110								
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79								
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79								
				60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121				
T2S	22,864	4	0					4	110	24,631	5	0	5	119	24,943	5	0	5	120								
T2M	23,277	4	0					4	112	25,075	4	0	4	121	25,393	4	0	4	123								
T3S	22,509	4	0					4	109	24,248	5	0	5	117	24,555	5	0	5	119								
T3M	23,263	4	0					4	112	25,061	4	0	4	121	25,378	4	0	4	123								
T4M	22,824	5	0					5	110	24,588	5	0	5	119	24,899	5	0	5	120								
TFTM	23,414	5	0					5	113	25,223	5	0	5	122	25,543	5	0	5	123								
TSVS	23,579	5	0					1	114	25,401	5	0	1	123	25,722	5	0	1	124								
T5S	23,380	4	0					2	113	25,187	4	0	2	122	25,506	4	0	2	123								
T5M	23,374	5	0					3	113	25,181	5	0	3	122	25,499	5	0	3	123								
TSW	23,165	5	0					4	112	24,955	5	0	4	121	25,271	5	0	4	122								
BLC	19,231	4	0					4	93	20,717	4	0	4	100	20,979	4	0	4	101								
LCCO	13,734	2	0					3	66	14,796	2	0	4	71	14,983	2	0	4	72								
RCCO	13,716	4	0					4	66	14,776	4	0	4	71	14,963	4	0	4	72								
60	1250	P13	231W					T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120				
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119								
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121								
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117								
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121								
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119								
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122								
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123								
				T5S	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122								
				T5M	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122								
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121								
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100								
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72								
									15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72				

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

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 drivers are 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 (1.01 ft²) 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 standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 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 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 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 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.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

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.





WST LED

Architectural Wall Sconce



Catalog
Number

Notes

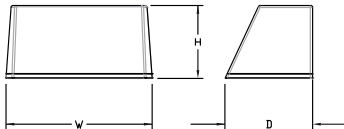
Type

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

Specifications

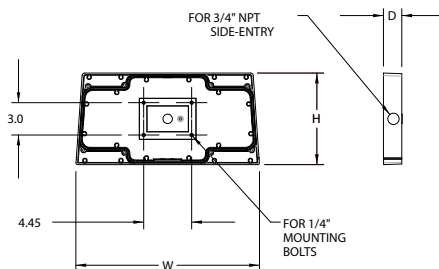
Luminaire

- Height:** 8-1/2"
(21.59 cm)
- Width:** 17"
(43.18 cm)
- Depth:** 10-3/16"
(25.9 cm)
- Weight:** 20 lbs
(9.1 kg)



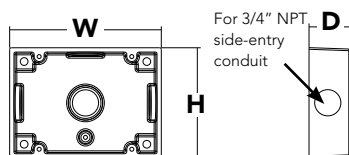
Optional Back Box (PBBW)

- Height:** 8.49"
(21.56 cm)
- Width:** 17.01"
(43.21 cm)
- Depth:** 1.70"
(4.32 cm)



Optional Back Box (BBW)

- Height:** 4"
(10.2 cm)
- Width:** 5-1/2"
(14.0 cm)
- Depth:** 1-1/2"
(3.8 cm)



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 background¹

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

See ordering tree for details.

A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED										
Series	Performance Package	Color temperature		Distribution		Voltage		Mounting		
WST LED	P1	1,500 Lumen package		27K	2700 K	VF	Visual comfort forward throw	MVOLT ¹	277 ²	Shipped included (blank) Surface mounting bracket Shipped separately BBW Surface-mounted back box ³ PBBW Premium surface-mounted back box ^{3,4}
	P2	3,000 Lumen package		30K	3000 K			120 ²	347 ²	
	P3	6,000 Lumen package		40K	4000 K			208 ²	480 ²	
				50K	5000 K			240 ²		

Options		Finish (required)			
PE	Photoelectric cell, button type ⁵	E7WC	Emergency battery backup, Non CEC compliant (cold, 7W) ^{10,11}	DDBXD	Dark bronze
PER	NEMA twist-lock receptacle only (controls ordered separate) ⁶	E7WHR	Remote emergency battery backup, Non CEC compliant (remote 7W) ^{10,12}	DBLXD	Black
PER5	Five-wire receptacle only (controls ordered separate) ⁶	E20WH	Emergency battery pack 18W constant power, CEC compliant ¹⁰	DNAXD	Natural aluminum
PER7	Seven-wire receptacle only (controls ordered separate) ⁶	E20WC	Emergency battery pack -20°C 18W constant power, CEC compliant ^{10,11}	DWHXD	White
PIR	Motion/Ambient Light Sensor, 8-15' mounting height ^{7,8}	E23WHR	Remote emergency battery backup, Non CEC compliant (remote 20W) ^{10,11,13}	DSSXD	Sandstone
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{7,8}	LCE	Left side conduit entry ¹⁴	DDBTXD	Textured dark bronze
PIRH	180° motion/ambient light sensor, 15-30' mounting height ^{7,8}	RCE	Right side conduit entry ¹⁴	DBLBXD	Textured black
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{7,8}	Shipped separately		DNATXD	Textured natural aluminum
SF	Single fuse (120, 277, 347V) ²	RBPW	Retrofit back plate ³	DWHGXD	Textured white
DF	Double fuse (208, 240, 480V) ²	VG	Vandal guard ¹⁵	DSSTXD	Textured sandstone
DS	Dual switching ⁹	WG	Wire guard ¹⁵		
E7WH	Emergency battery backup, Non CEC compliant (7W) ¹⁰				

Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTX U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate

NOTES

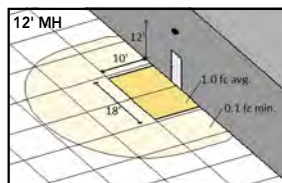
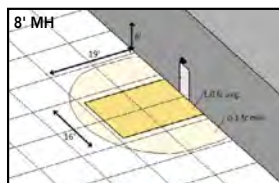
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Need to specify 120, 208, 240 or 277 voltage.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Not available with VG or WG. See PER Table.

- Reference Motion Sensor table.
- Not available with Emergency options, PE or PER options.
- Not available with 347/480V.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.

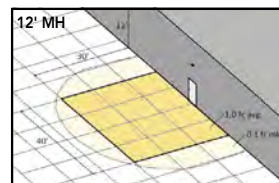
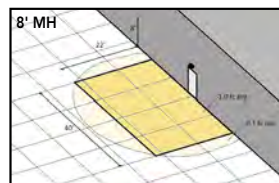
Emergency Battery Operation

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#). The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions. The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
	P2	25	0.21	0.13	0.11	0.1	---
30		---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
	P3	50	0.42	0.24	0.21	0.19	---
56		---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min

*for use with centralize Dusk to Dawn

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	⊘	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
Futureproof*	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture	
Futureproof* with Motion	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture	

✓ Recommended

⊘ Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

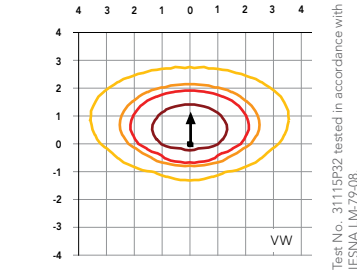
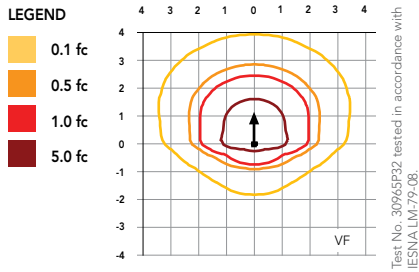
Lumen Output

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.

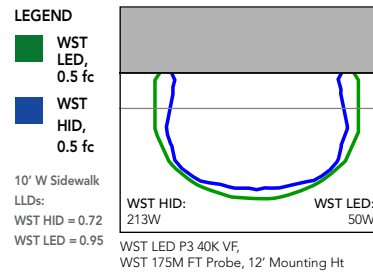
Performance Package	System Watts (MVOLT*)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
			VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
			VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
			VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1



Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

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. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED 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) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium 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.

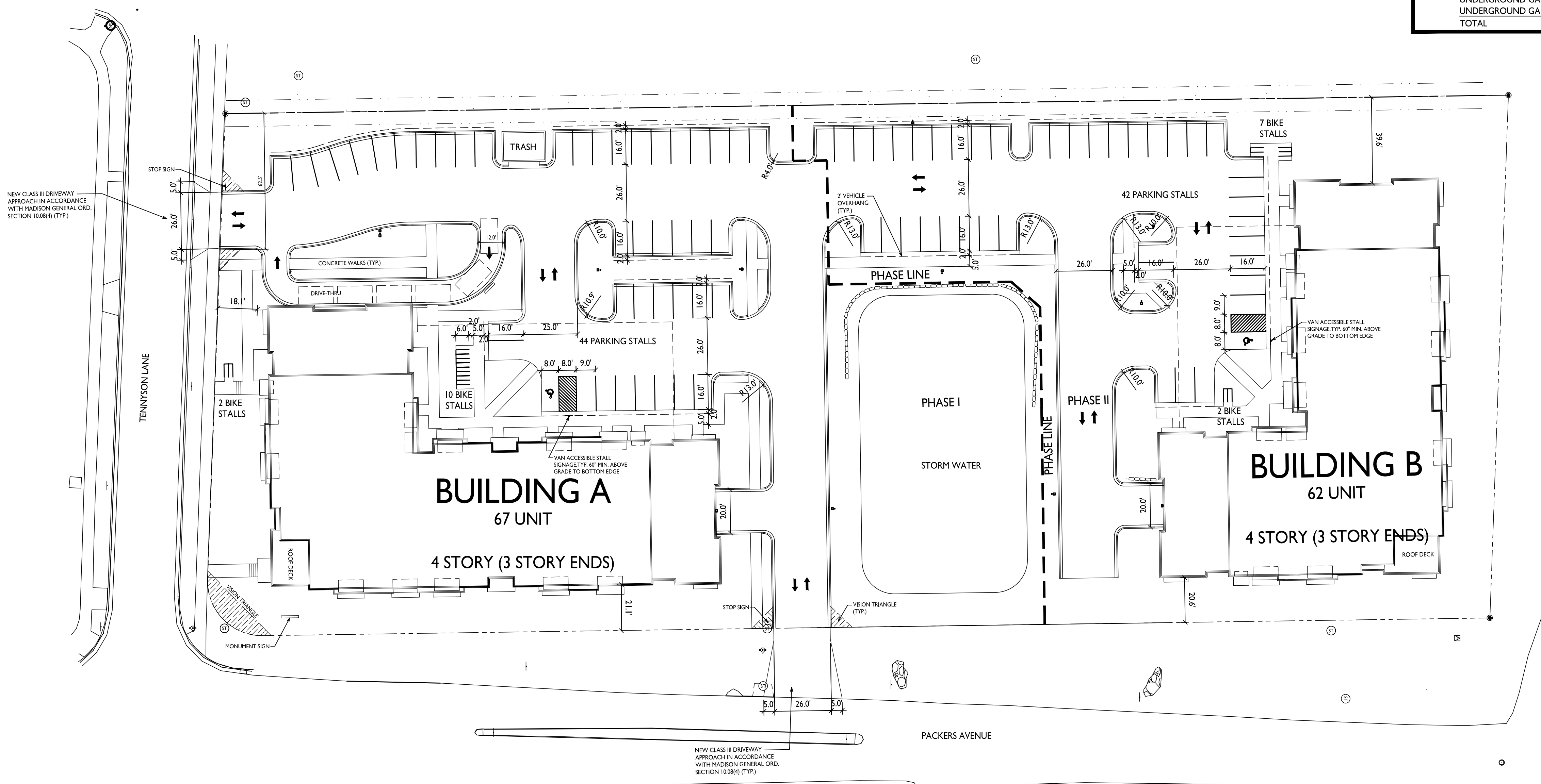
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Aerial Site
2002 Tennyson Ln,
Madison, WI



SITE DEVELOPMENT DATA		
DENSITIES		
TOTAL LOT AREA	141,322 S.F./ 2.56 ACRES	
DWELLING UNITS	129 DU	
LOT AREA/ D.U.	1,096 S.F. / DU	
DENSITY	40 UNITS/ACRE	
COMMERCIAL AREA	~2,000 S.F.	
BUILDING HEIGHT		
	3 & 4 STORIES	
PHASE I - BLDG A		
LOT AREA	82,357 S.F.	PHASE II - BLDG B
LOT COVERAGE (85% MAX.)	48,634 S.F. (59%)	38,432 S.F. (47%)
USABLE OPEN SPACE	19,381 (12,640 S.F. REQUIRED)	17,928 S.F. (12,320 S.F. REQUIRED)
DWELLING UNIT MIX:		
EFFICIENCY	8	7
ONE BEDROOM	47	39
ONE BEDROOM + DEN	-	1
TWO BEDROOM	12	15
TOTAL UNITS	67 UNITS	62 UNITS
VEHICLE PARKING STALLS:		
SURFACE	44	42
UNDERGROUND	62	57
TOTAL	106 VEHICLE STALLS	99 VEHICLE STALLS
	1.58 STALLS/UNIT	1.59 STALLS/UNIT
BICYCLE PARKING STALLS:		
SURFACE - RESIDENTIAL	3	3
SURFACE - GUEST	7	6
SURFACE - COMMERCIAL	2	-
UNDERGROUND GARAGE	51 (STD 2'X6')	59 (STD 2'X6')
UNDERGROUND GARAGE	13 (WALL MOUNT)	-
TOTAL	76 BIKE STALLS	68 BIKE STALLS



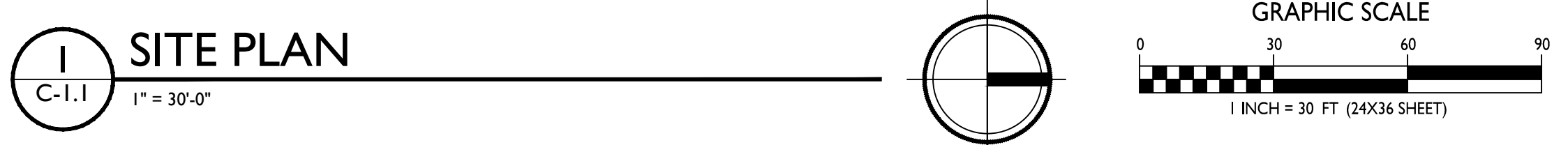
SHEET INDEX	
C-1.1	SITE PLAN
C-1.2	LIGHTING PLAN
C-1.3	FIRE ACCESS PLAN
C-1.4	LOT COVERAGE
C-1.5	USABLE OPEN SPACE
EXISTING CONDITIONS	
C-2	GRADING & EROSION CONTROL PLAN
C-3	UTILITY PLAN
LANDSCAPE PLAN	
L-1.1	LANDSCAPE PLAN
BASEMENT PLAN - BLDG A	
A-1.0a	BASEMENT PLAN - BLDG A
A-1.1a	FIRST FLOOR PLAN - BLDG A
A-1.2a	SECOND & THIRD FLOOR PLAN - BLDG A
A-1.3a	FOURTH FLOOR PLAN - BLDG A
BASEMENT PLAN - BLDG B	
A-1.0b	BASEMENT PLAN - BLDG B
A-1.1b	FIRST FLOOR PLAN - BLDG B
A-1.2b	SECOND & THIRD FLOOR PLAN - BLDG B
A-1.3b	FOURTH FLOOR PLAN - BLDG B
EXTERIOR ELEVATIONS - BLDG A	
A-2.1a	EXTERIOR ELEVATIONS - BLDG A
A-2.2a	EXTERIOR ELEVATIONS - RENDERED - BLDG A
A-2.3a	EXTERIOR ELEVATIONS - RENDERED - BLDG A
A-2.4a	EXTERIOR ELEVATIONS - RENDERED - BLDG A
A-2.5a	PERSPECTIVE - RENDERED - BLDG A & B
EXTERIOR ELEVATIONS - BLDG B	
A-2.1b	EXTERIOR ELEVATIONS - BLDG B
A-2.2b	EXTERIOR ELEVATIONS - BLDG B
A-5.1	TYPICAL UNIT FLOOR PLANS

- GENERAL NOTES:**
1. THE APPLICANT SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER THAT ABUTS THE PROPERTY THAT 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 ON CITY STREETS, AND ADJACENT TO THIS DEVELOPMENT SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.
 4. EXISTING STREET TREES SHALL BE PROTECTED. 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 ACCESS THE IMPACT TO THE TREE AND ROOT SYSTEM. TREE PRUNING SHALL BE COORDINATED WITH CITY FORESTRY. TREE PROTECTION SPECIFICATIONS CAN BE FOUND IN SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 5. 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).
 6. THE PUBLIC RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME. NO ITEMS SHOWN ON THIS SITE PLAN IN THE RIGHT-OF-WAY ARE PERMANENT AND MAY NEED TO BE REMOVED AT THE APPLICANT'S EXPENSE UPON NOTIFICATION BY THE CITY.

ISSUED
 Issued for Land Use - October 17, 2018
 Reissued for Land Use - October 23, 2018

PROJECT TITLE
GEBHARDT DEVELOPMENT

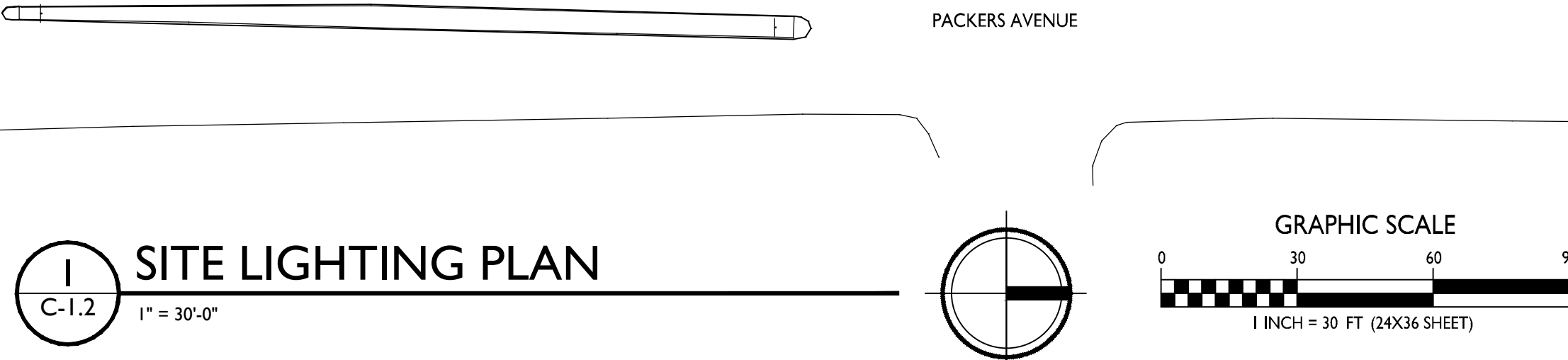
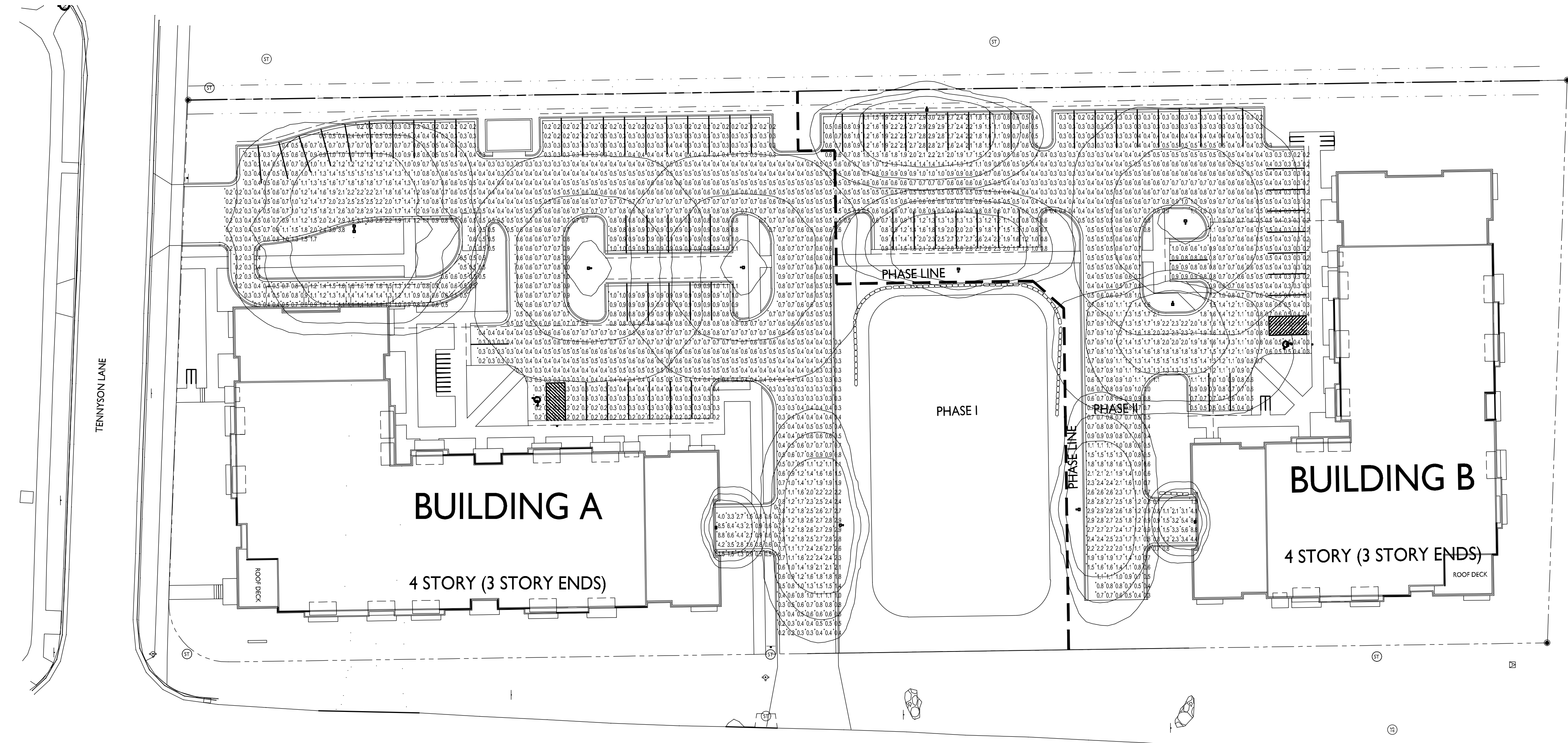
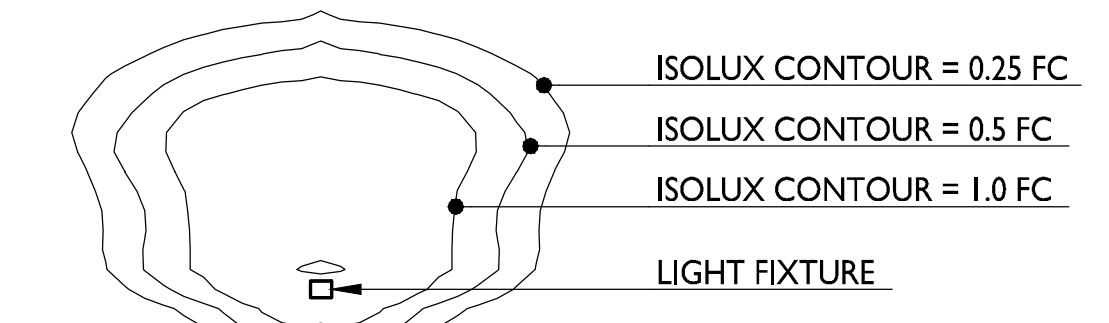
Packers Ave. & 2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
Site Plan



STATISTICS					
DESCRIPTION	SYMBOL	AVG.	MAX.	MIN.	MAX. / MIN. AVG. / MIN.
Parking Area Lighting	+	0.8 fc	3.8 fc	0.2 fc	19.0:1 4.0:1
Parking Garage Entry Lighting - Bldg A	+	2.3 fc	8.8 fc	0.5 fc	17.6:1 4.6:1
Parking Garage Entry Lighting - Bldg B	+	2.8 fc	8.8 fc	0.7 fc	12.6:1 4.0:1

LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY.	MANUF.	CATALOG	DESCRIPTION	FILE	MOUNTING
□	A	3	LITHONIA LIGHTING	DSXI LED PI 30K T5W MVOLT	DSXI LED PI 30K T5W MVOLT	DSXI_LED_PI_30K_T5W_MVOLT.ies	20'-0" POLE ON FLUSH CONC. BASE
□	B	1	LITHONIA LIGHTING	DSXI LED PI 30K T4M MVOLT HS	DSXI LED PI 30K T4M MVOLT WITH HOUSE SIDE SHIELD	DSXI_LED_PI_30K_T4M_MVOLT_HS.ies	20'-0" POLE ON FLUSH CONC. BASE
□	C	1	LITHONIA LIGHTING	DSXI LED PI 30K T4M MVOLT HS	DSXI LED PI 30K T4M MVOLT WITH HOUSE SIDE SHIELD	DSXI_LED_PI_30K_T4M_MVOLT_HS.ies	16'-0" POLE ON 2'-0" TALL CONC. BASE
□	D	3	LITHONIA LIGHTING	DSXI LED PI 30K T2S MVOLT HS	DSXI LED PI 30K T2S MVOLT WITH HOUSE SIDE SHIELD	DSXI_LED_PI_30K_T2S_MVOLT_HS.ies	16'-0" POLE ON 2'-0" TALL CONC. BASE
□	E	1	LITHONIA LIGHTING	DSXI LED PI 30K T2S MVOLT HS	DSXI LED PI 30K T2S MVOLT WITH HOUSE SIDE SHIELD	DSXI_LED_PI_30K_T2S_MVOLT_HS.ies	18'-0" POLE ON FLUSH CONC. BASE
□	F	2	LITHONIA LIGHTING	WST LED PI 27K VF MVOLT	WST LED, PERFORMANCE PACKAGE I, 2700K, VISUAL COMFORT FORWARD THROW, MVOLT	WST_LED_PI_27K_VF_MVOLT.IES	MOUNTED ON BUILDING 8'-0" ABOVE GRADE

EXAMPLE LIGHT FIXTURE DISTRIBUTION



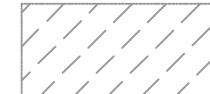
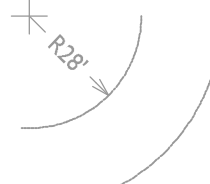
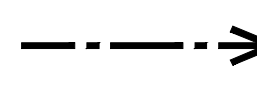

ISSUED
 Issued for Land Use - October 17, 2018
 Supplement for Land Use - October 23, 2018

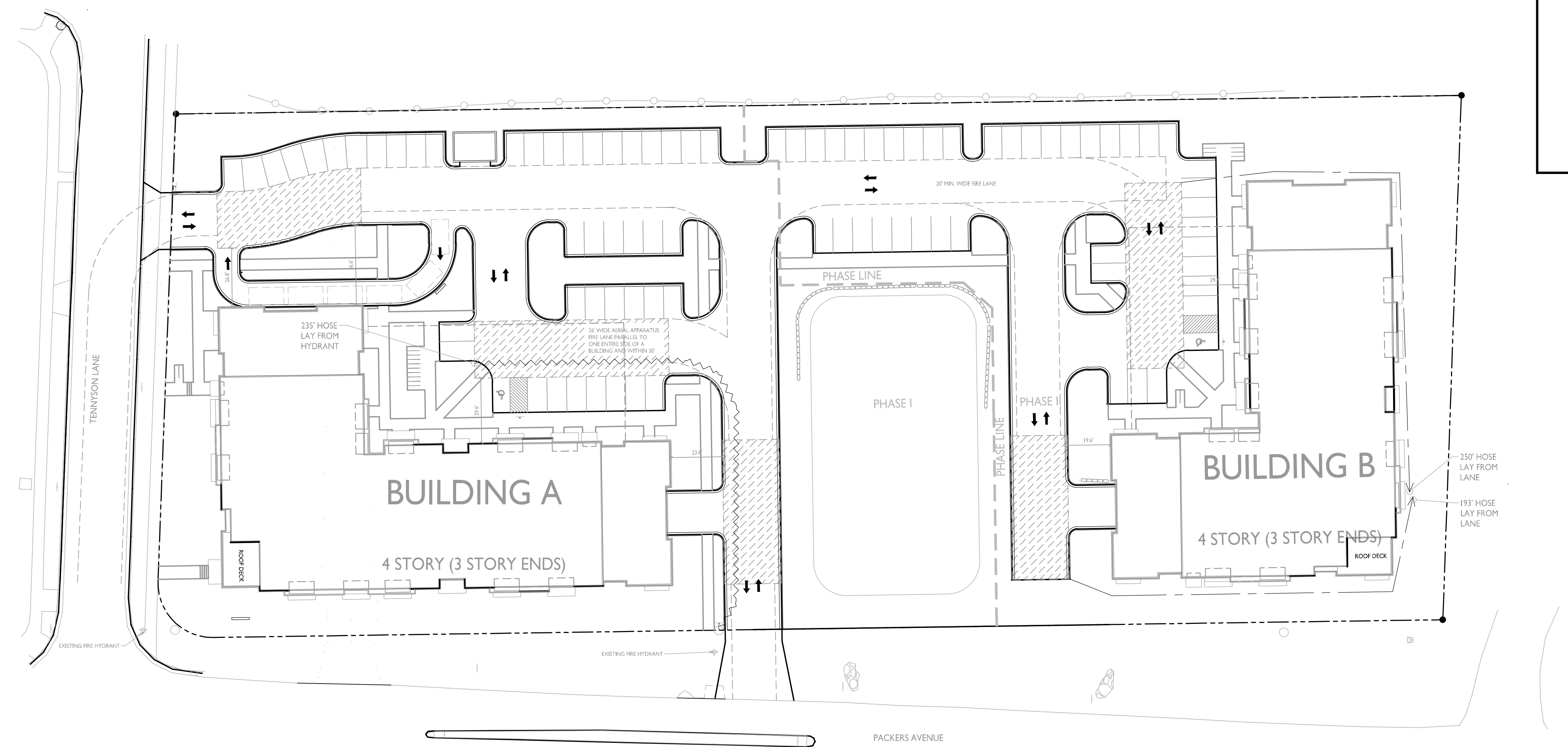
PROJECT TITLE
GEBHARDT DEVELOPMENT

Packers Ave. &
 2002 Tennyson Lane
 Madison, Wisconsin
 SHEET TITLE
Site Lighting Plan

SHEET NUMBER
C-1.2
 PROJECT NO. **1830**
 © Knothe & Bruce Architects, LLC

FIRE DEPARTMENT ACCESS PLAN

- AERIAL APPARATUS FIRE LANE MINIMUM 26' WIDE 
- MINIMUM 20' WIDE ACCESS LANE W/ 28' INSIDE RADIUS 
- MAXIMUM 250' HOSE LAY TO EXTERIOR WALL FROM FIRE LANE 
- MAXIMUM 500' HOSE LAY TO FIRE LANE FROM TWO FIRE HYDRANTS 



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Issued for Land Use - October 17, 2018
Supplement for Land Use - October 23, 2018

PROJECT TITLE
GEBHARDT
DEVELOPMENT

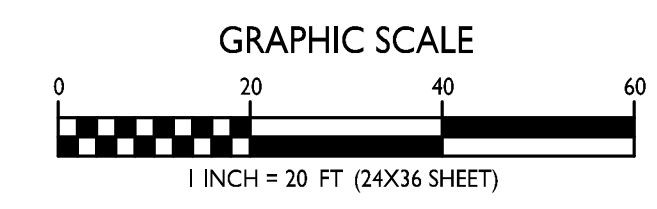
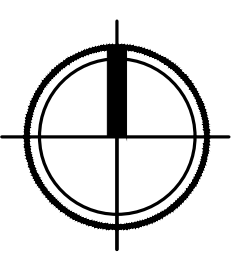
Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
Fire Department
Access Plan

SHEET NUMBER

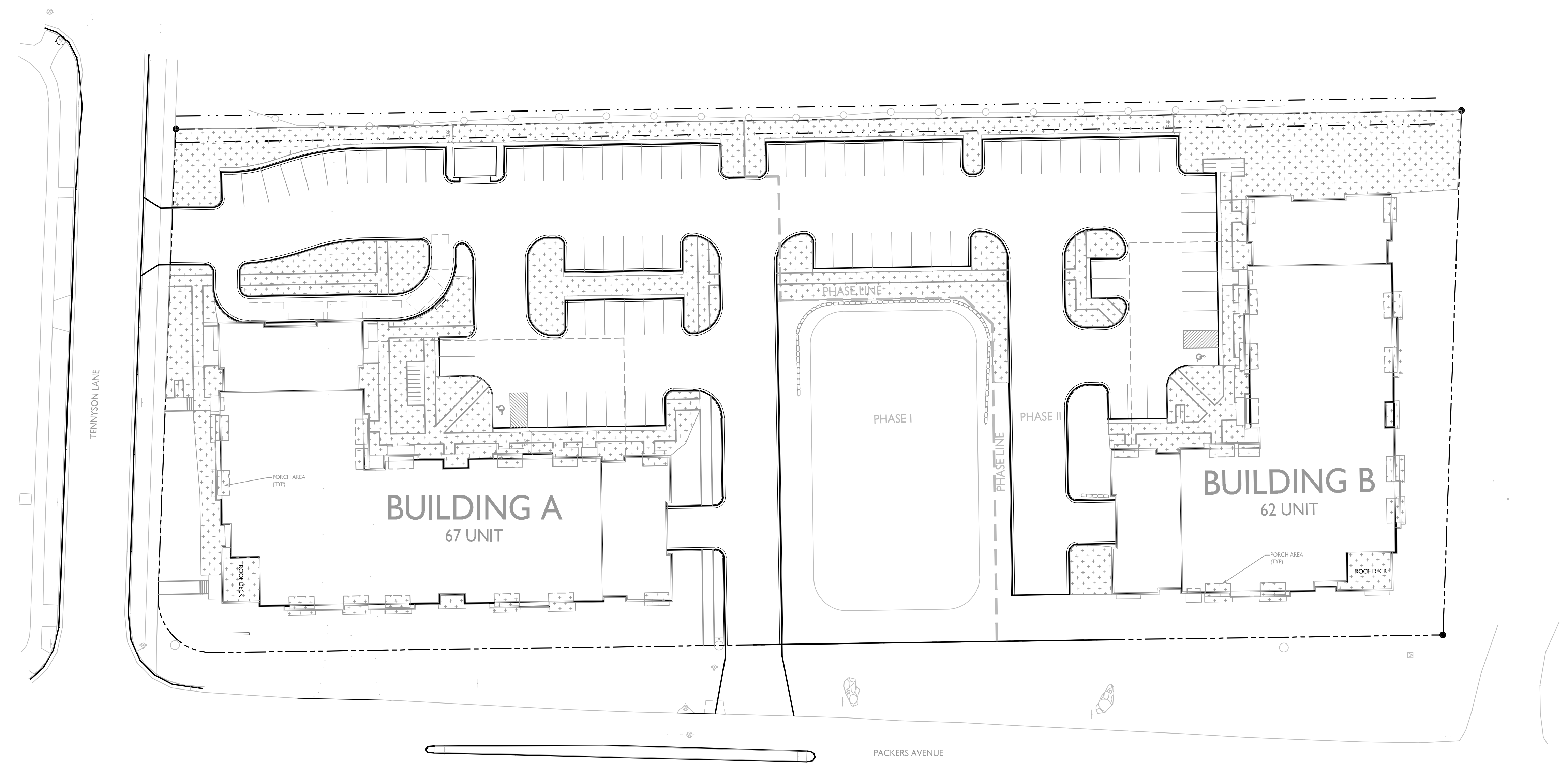
C-1.3

PROJECT NO. 1830
© Knothe & Bruce Architects, LLC

FIRE DEPARTMENT ACCESS PLAN
C-1.3 1" = 20'-0"



USABLE OPEN SPACE			
ZONING:	CCT		
REQUIRED OPEN SPACE:	160 S.F. / 1 LODGING ROOM 320 S.F. / >1- BEDROOM UNITS		
DWELLING UNITS:	<u>PHASE I (BLDG A)</u>	<u>PHASE II (BLDG B)</u>	
	55 UNITS x 160 SF = 8,800 S.F.	47 UNITS x 160 SF	= 7,520 S.F.
	12 UNITS x 320 SF = 3,840 S.F.	15 UNITS x 320 SF	= 4,800 S.F.
	67 UNITS = 12,640 S.F. REQ'D	62 UNITS	= 12,320 S.F. REQ'D
OPEN SPACE PROVIDED:			
BALCONIES & ROOF DECK	5,037 S.F.	4,377 S.F.	
SURFACE & PORCHES	14,344 S.F.	13,551 S.F.	
TOTAL	19,381 S.F. PROVIDED	17,928 S.F. PROVIDED	



ISSUED
 Issued for Land Use - October 17, 2018
 Supplement for Land Use - October 23, 2018

PROJECT TITLE
**GEBHARDT
 DEVELOPMENT**

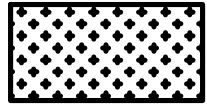
Packers Ave. &
 2002 Tennyson Lane
 Madison, Wisconsin
 SHEET TITLE
**Usable Open
 Space**

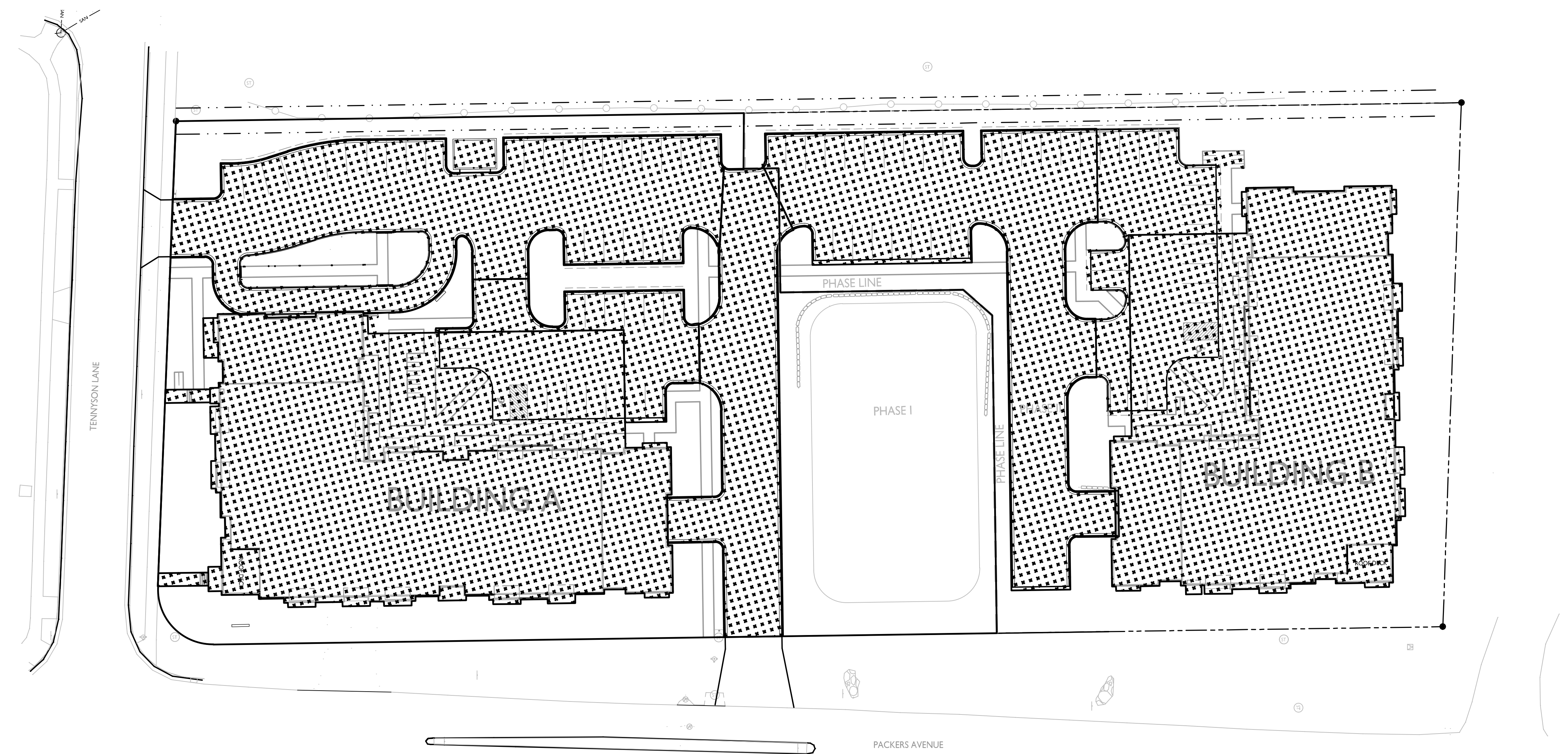
SHEET NUMBER

C-1.4
 PROJECT NO. **1830**
 © Knothe & Bruce Architects, LLC

USABLE OPEN SPACE
 C-1.4 1" = 20'-0"

GRAPHIC SCALE
 0 20 40 60
 1 INCH = 20 FT (24X36 SHEET)

LOT COVERAGE		
ZONING: CCT		
	<u>PHASE I (BLDG A)</u>	<u>PHASE II (BLDG B)</u>
AREA	82,357 S.F.	58,965 S.F.
MAX. COVERAGE ALLOWED	70,003 S.F. (85%)	50,120 S.F. (85%)
COVERAGE PROVIDED	48,634 S.F. (59%)	38,432 S.F. (65%)



ISSUED
 Issued for Land Use - October 17, 2018
 Supplement for Land Use - October 23, 2018

PROJECT TITLE
**GEBHARDT
 DEVELOPMENT**

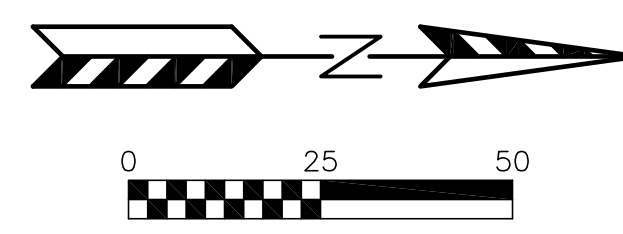
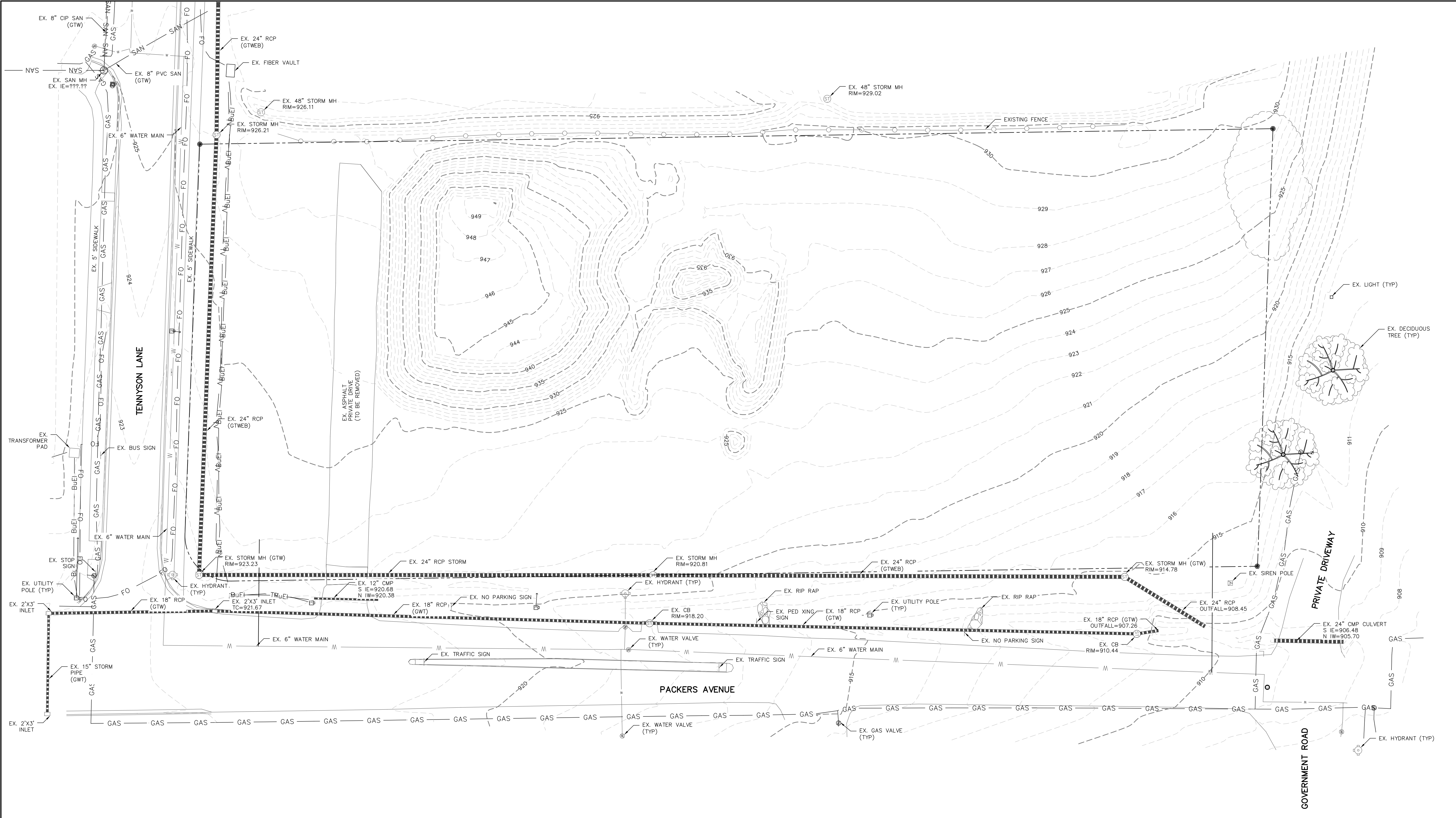
Packers Ave. &
 2002 Tennyson Lane
 Madison, Wisconsin
 SHEET TITLE
Lot Coverage

SHEET NUMBER

C-1.5
 PROJECT NO. **1830**
 © Knothe & Bruce Architects, LLC

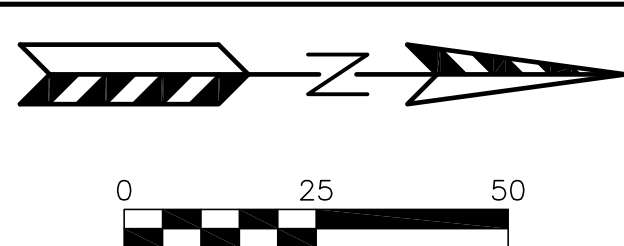
LOT COVERAGE
 C-1.5 1" = 20'-0"

GRAPHIC SCALE
 0 20 40 60
 1 INCH = 20 FT (24X36 SHEET)



PACKERS AVENUE DEVELOPMENT
EXISTING SITE PLAN
SHEET: C-1
DATED: OCTOBER 17, 2018

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Residential and Commercial Site Design Consultants
www.quamengineering.com
4604 Siggelkow Road, Suite A - McFarland, Wisconsin 53558
Phone (608) 838-7750; Fax (608) 838-7752



EROSION NOTES:
 THE STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PAD IS TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION, WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.
 EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
 CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1.
 EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.

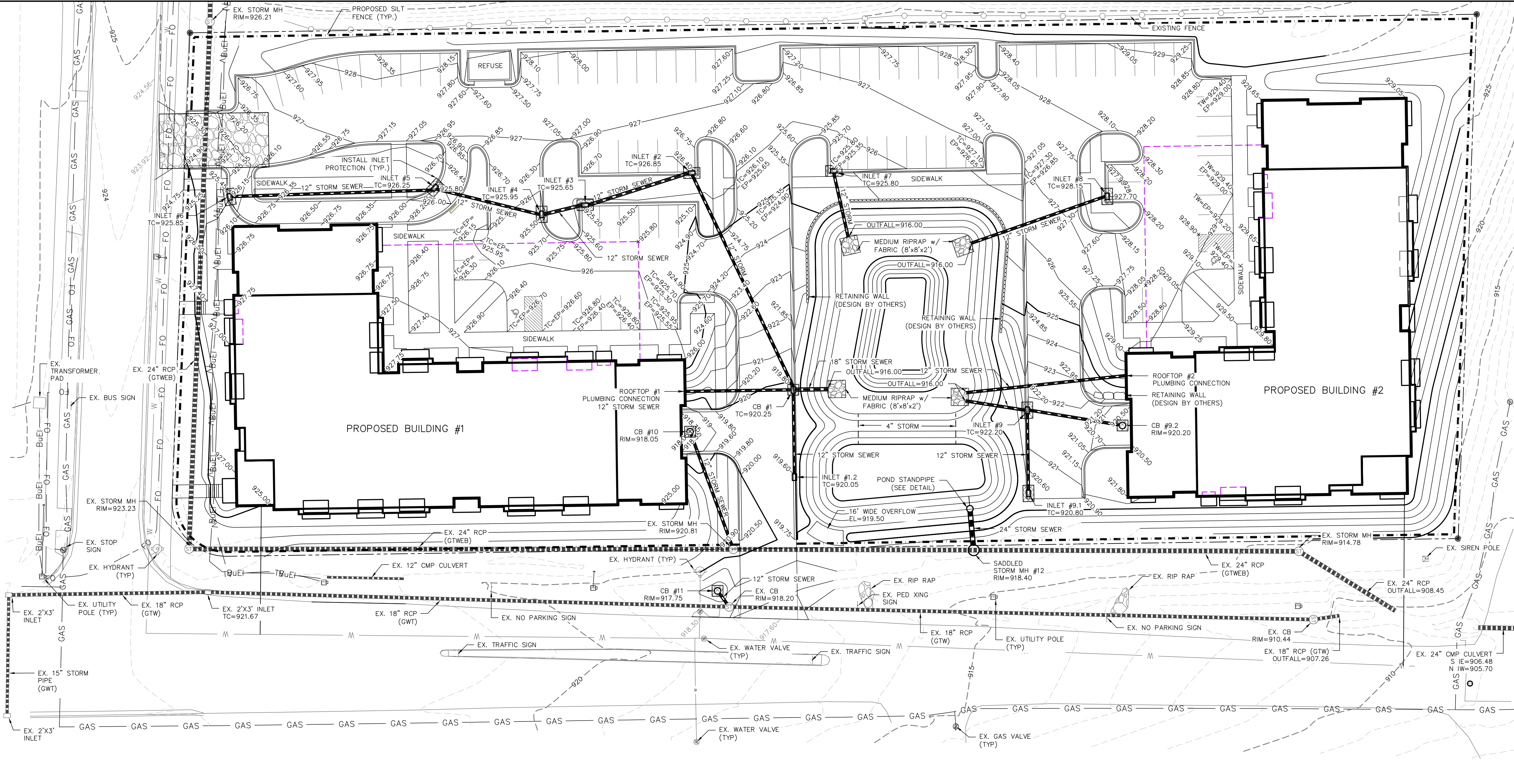
TIME SCHEDULE:
 JUNE 1, 2019 - JUNE 1, 2020 BUILDING #1
 JUNE 1, 2020 - JUNE 1, 2021 BUILDING #2

RESTORATION NOTES:
 ALL PVIOUSLY DISTURBED AREAS SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, SEED AND MULCH. ALL PVIOUSLY DISTURBED AREAS SHALL RECEIVE FERTILIZER EXCEPT NATIVE PLANTING AREAS. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. WET DETENTION NATIVE SEED MIXTURES SHALL BE USED FOR THE BOTTOM OF THE DETENTION POND. SEED MIXTURE 40 SHALL BE USED ON ALL OTHER DISTURBED AREAS. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX.
 SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET.
 FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. MULCH SHALL CONSIST OF HAY OR STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE.
 FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 8%; POTASH, NOT LESS THAN 8%.

OWNER:
 TODD GEBHARDT
 3314 PACKERS AVENUE
 MADISON, WI 53704

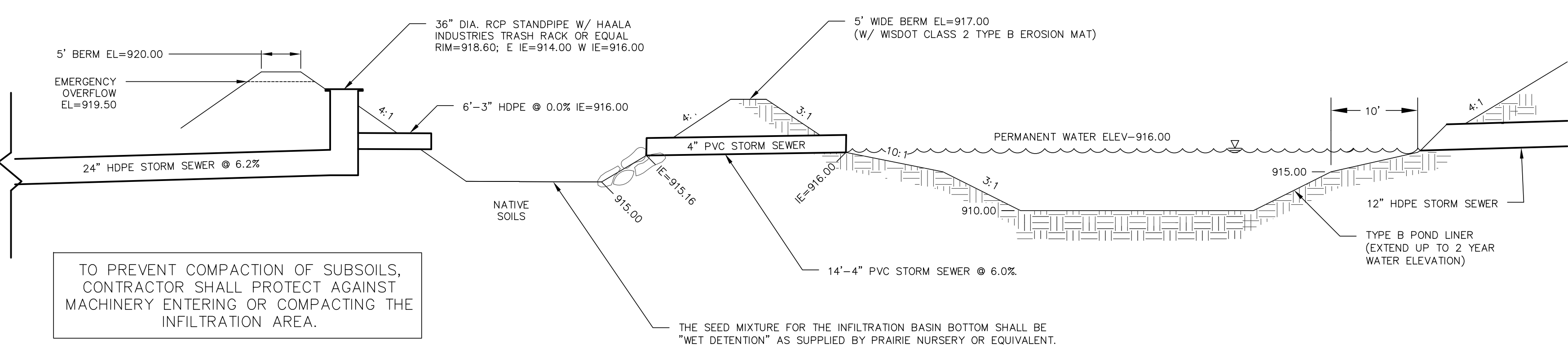
ENGINEER:
 QUAM ENGINEERING, LLC
 ATTN: RYAN QUAM
 4604 SIGELKOW ROAD, SUITE A
 MCFARLAND, WI 53558

 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
 TDD(FOR THE HEARING IMPAIRED)(800)542-2289
 WIS. STATUTE 182.0175 (1974)
 REQUIRES MIN. OF 3 WORK DAYS
 NOTICE BEFORE YOU EXCAVATE



INFILTRATION BASIN CONSTRUCTION SHALL CONFORM TO WISCONSIN DNR TECHNICAL STANDARD #1003

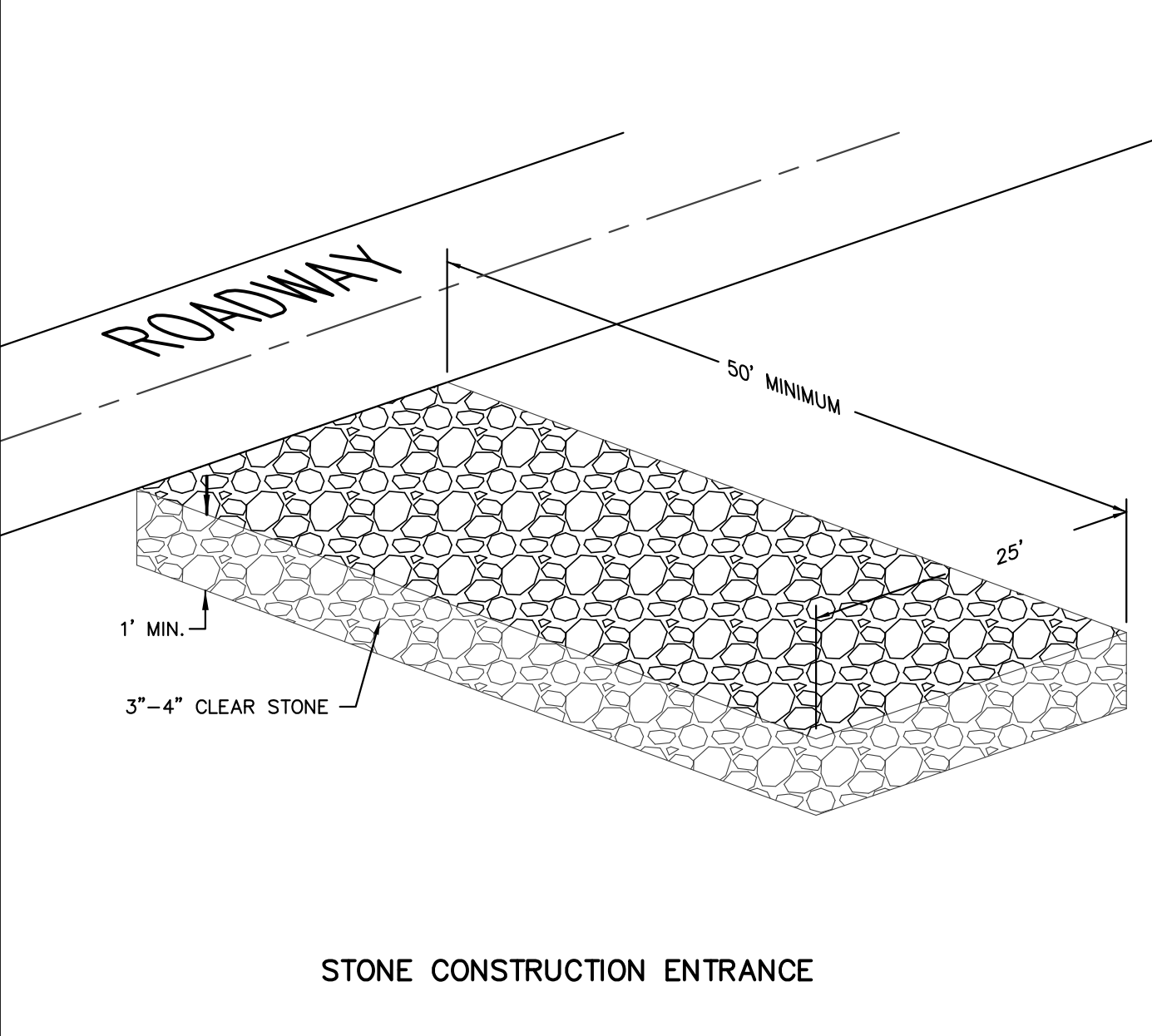
WET DETENTION BASIN CONSTRUCTION SHALL CONFORM TO WISCONSIN DNR TECHNICAL STANDARD #1001



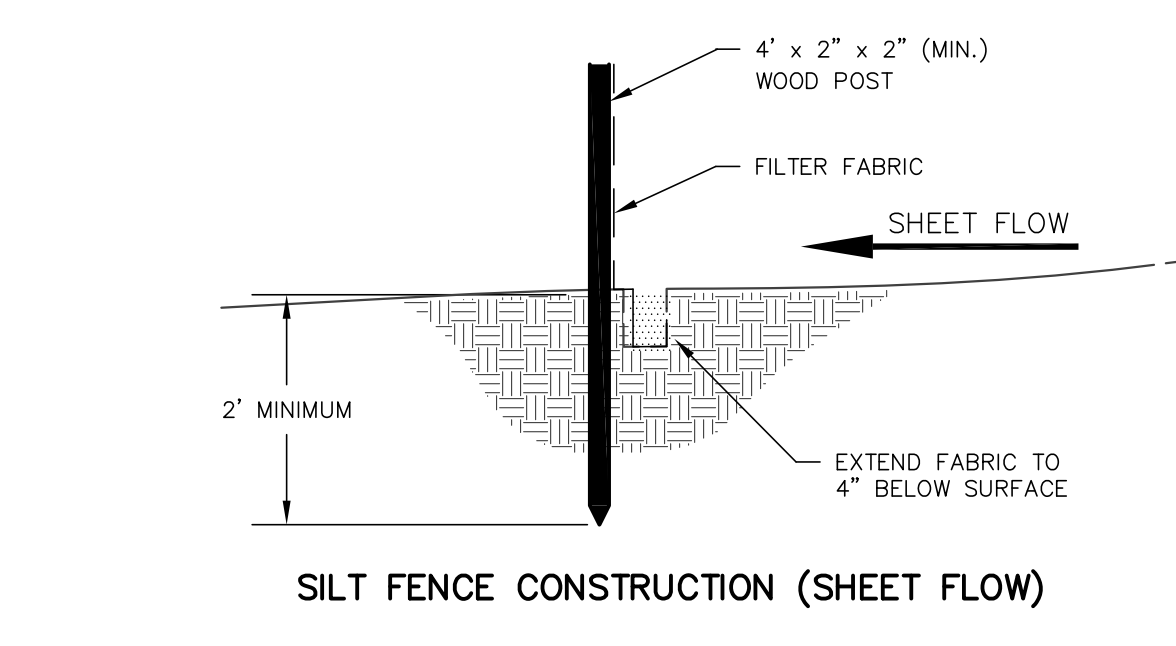
TO PREVENT COMPACTION OF SUBSOILS, CONTRACTOR SHALL PROTECT AGAINST MACHINERY ENTERING OR COMPACTING THE INFILTRATION AREA.

THE SEED MIXTURE FOR THE INFILTRATION BASIN BOTTOM SHALL BE "WET DETENTION" AS SUPPLIED BY PRAIRIE NURSERY OR EQUIVALENT.

WET DETENTION POND/INFILTRATION BASIN CROSS SECTION



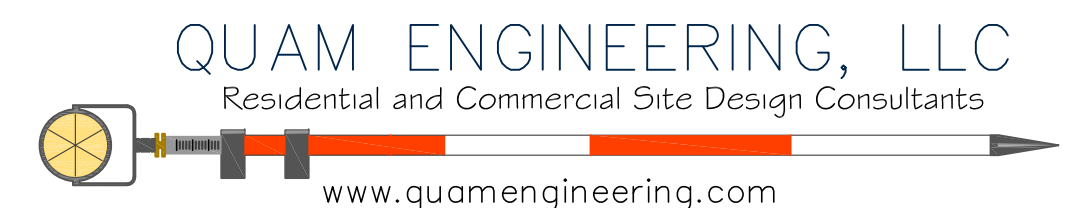
STONE CONSTRUCTION ENTRANCE



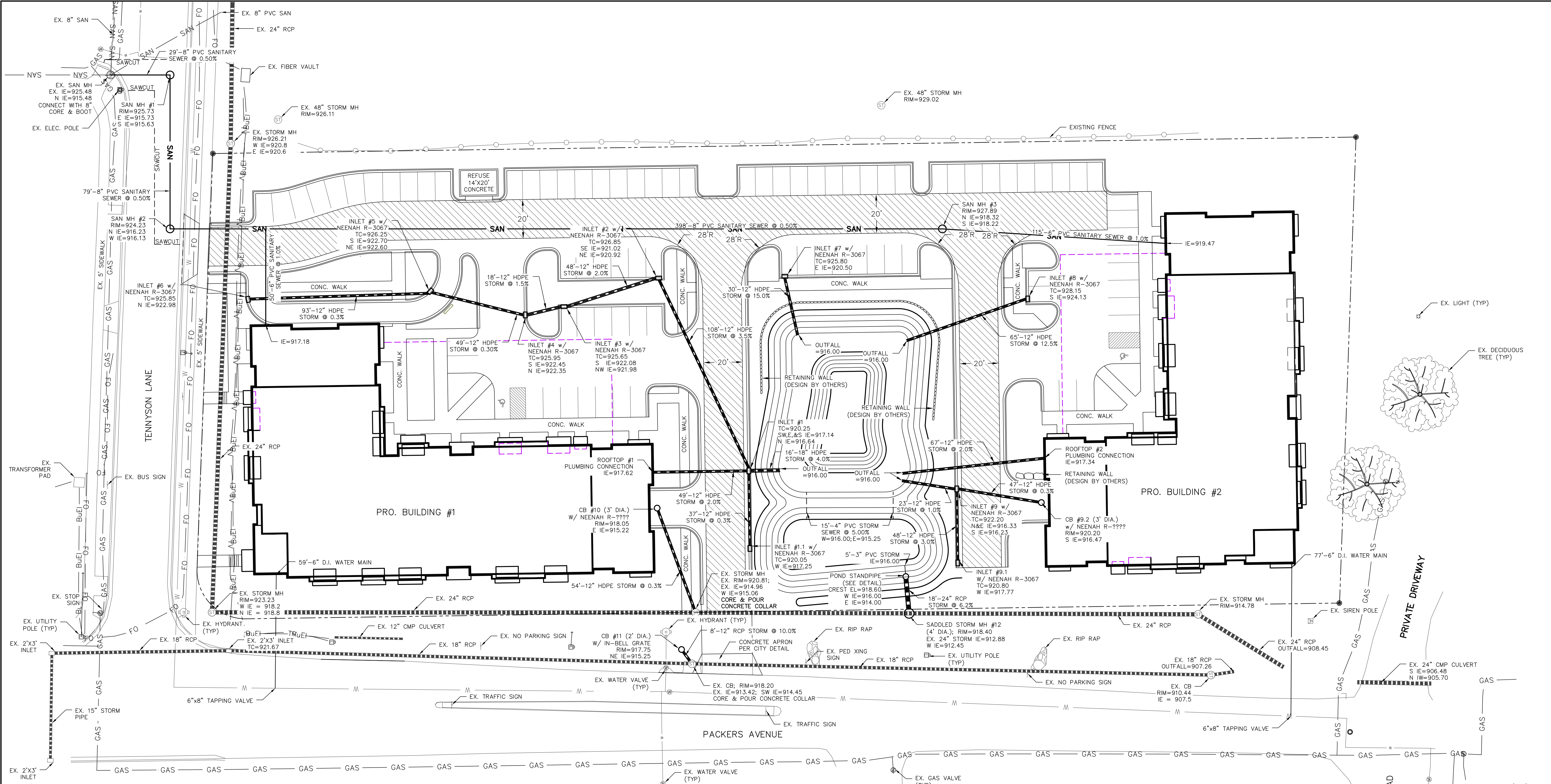
SILT FENCE CONSTRUCTION (SHEET FLOW)

PACKERS AVENUE DEVELOPMENT
 GRADING AND EROSION CONTROL PLAN

SHEET: C-2
 DATED: OCTOBER 17, 2018



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UTILITY NOTES:

ALL SANITARY SEWER, STORM SEWER AND WATER MAIN CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE CITY OF MADISON AND WISCONSIN DSPS STANDARDS.

THE LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM THE PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.

MAINTAIN AN 8 FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN PUBLIC SANITARY SEWER, WATER MAIN AND STORM SEWER. PROVIDE 18" MINIMUM VERTICAL SEPARATION WHERE SEWER CROSSES OVER WATER MAIN AND PROVIDE 12" MINIMUM VERTICAL SEPARATION WHERE WATER MAIN CROSSES OVER SEWER.

ANY UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ALL UNDERGROUND EXTERIOR NON-METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN

ORDER TO BE LOCATED IN ACCORDANCE WITH 182.0715(2r) OF STATE STATUTES.

THE CONTRACTOR SHALL VERIFY EXISTING SANITARY SEWER LATERAL INVERT IN PRIOR TO BUILDING CONSTRUCTION AND SHALL REPORT DISCREPANCIES PRIOR TO COMMENCING WORK TO THE ENGINEER OR BUILDING CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY OF MADISON PRIOR TO CONNECTING TO THE 6" WATER SERVICE.

BUILDING LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES. SITE UTILITY CONTRACTOR SHALL SUB LATERAL TO 5 FEET OUTSIDE BUILDING. SEE INTERIOR PLUMBING PLANS FOR CONTINUATION OF PIPING INTO BUILDING BY BUILDING PLUMBING CONTRACTOR IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION WISCONSIN, LATEST EDITION.

GENERAL CONTRACTOR SHALL COORDINATE WITH LOCAL GAS TELEPHONE, AND ELECTRICAL UTILITIES FOR EXACT LOCATION SIZE AND DEPTH OF NEW SERVICE.

SANITARY SEWER SHALL BE PVC ASTM D3034, SDR 35 UNLESS INDICATED OTHERWISE.

WATER MAIN SHALL BE AWWA C900 CLASS 150, DR-18 PVC UNLESS INDICATED OTHERWISE.

GENERAL NOTES:

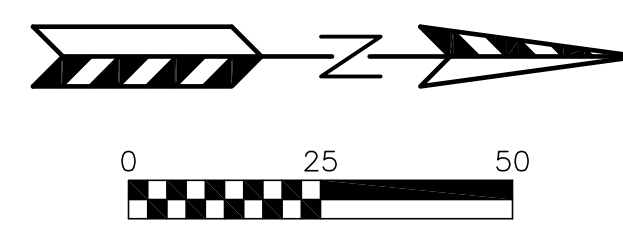
ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A PRE-APPROVED CONTRACTOR AUTHORIZED TO WORK IN THE RIGHT-OF-WAY.

THE CONTRACTOR 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.

THE CONTRACTOR SHALL OBTAIN A CONNECTION PERMIT AND EXCAVATION PERMIT PRIOR TO COMMENCING THE STORM SEWER CONSTRUCTION.

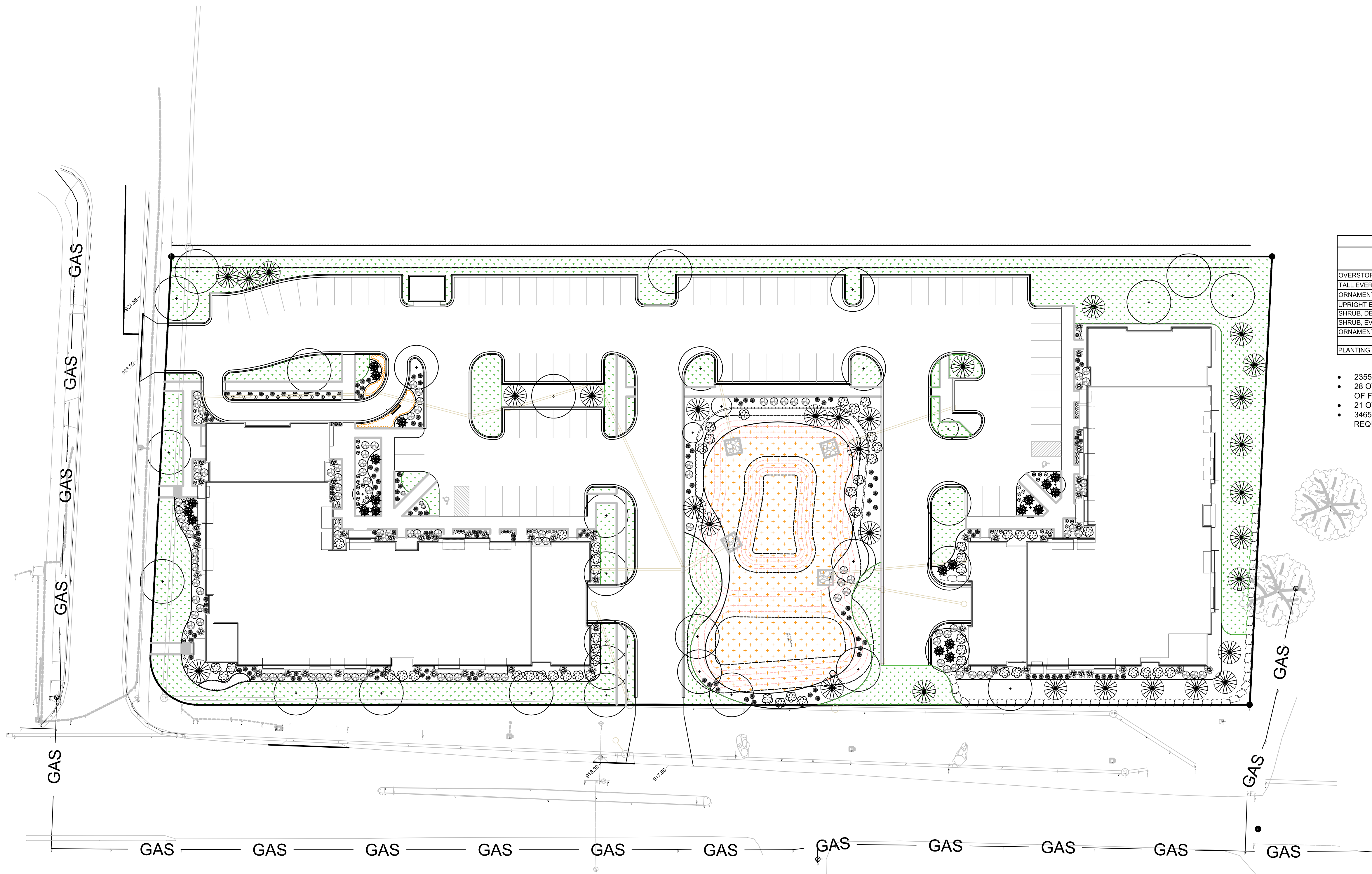
ANY DAMAGE TO THE PAVEMENT ON SILICON PRAIRIE PARKWAY OR ADJACENT TO THE DEVELOPMENT WHICH IS DAMAGED BY THE CONSTRUCTION, SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PAVEMENT PATCHING CRITERIA.

CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY CONNECTION AND STORM SEWER CONNECTION INVERTS PRIOR TO BUILDING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER.



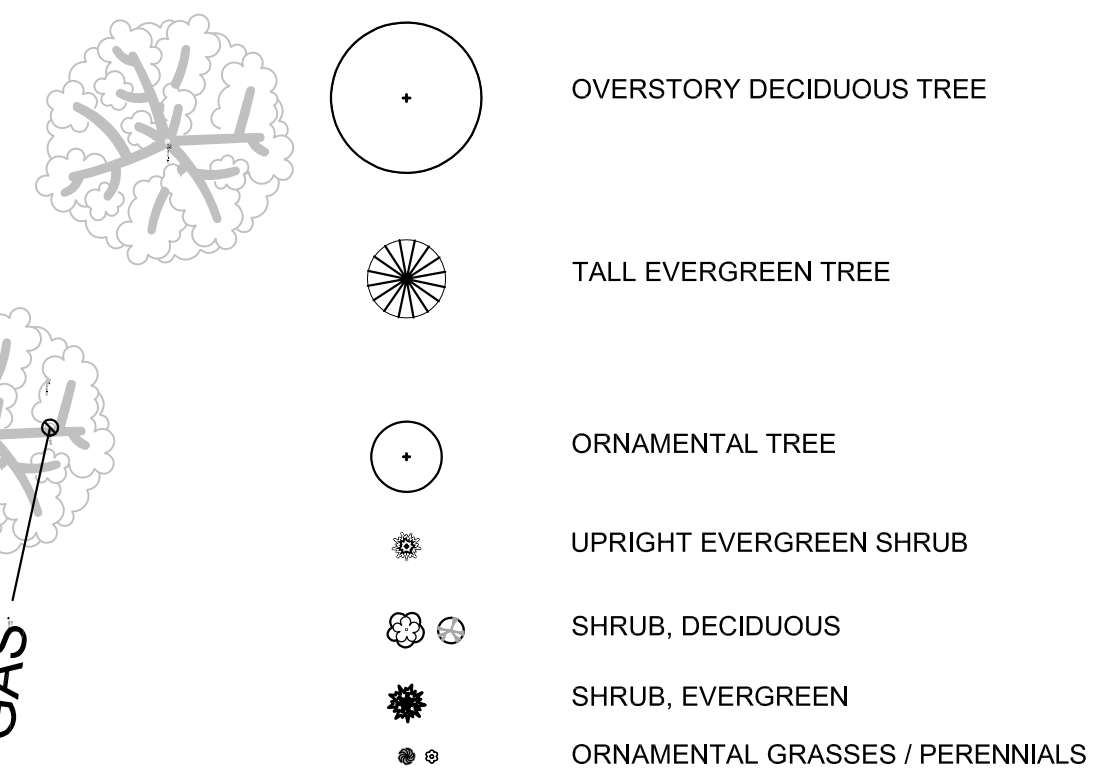
PACKERS AVENUE DEVELOPMENT
 UTILITY AND FIRE LANE PLAN
 SHEET: C-3
 DATED: OCTOBER 17, 2018

QUAM ENGINEERING, LLC
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 Phone (608) 838-7750; Fax (608) 838-7752



CITY OF MADISON LANDSCAPE POINTS			
PLANT TYPE / ELEMENT	MINIMUM INSTALLATION SIZE	QUANTITY	POINTS ACHIEVED
OVERSTORY DECIDUOUS TREE	2" CALIPER	31	1085
TALL EVERGREEN TREE	5-6' TALL	31	1085
ORNAMENTAL TREE	1" CALIPER	6	90
UPRIGHT EVERGREEN SHRUB	3-4' TALL	55	550
SHRUB, DECIDUOUS	#3 GALLON	155	465
SHRUB, EVERGREEN	#3 GALLON	21	63
ORNAMENTAL GRASSES / PERENNIALS	#1 GALLON	218	436
		TOTAL	3795
PLANTING AREA		7930 sqft	

- 2355 POINTS ARE NEEDED FOR THE SQUARE FEET OF DEVELOPED AREA
- 28 OVERSTORY TREES & 137 SHRUBS ARE REQUIRED FOR THE LINEAR FEET OF FRONTAGE
- 21 OVERSTORY TREES ARE REQUIRED FOR THE AMOUNT OF ASPHALT AREA
- 3465 SQUARE FEET OF PLANTING AREA & 21 OVERSTORY TREES ARE REQUIRED FOR THE AMOUNT OF ASPHALT AREA



since 1897

MCKAY
NURSERY COMPANY

790 S. Monmouth St.
Waterloo, WI 53594

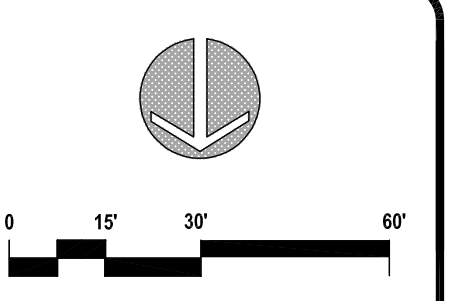
P: 800-234-7342
www.mckaynursery.com

an employee owned company



Landscape Design for:
PACKERS AVENUE DEVELOPMENT

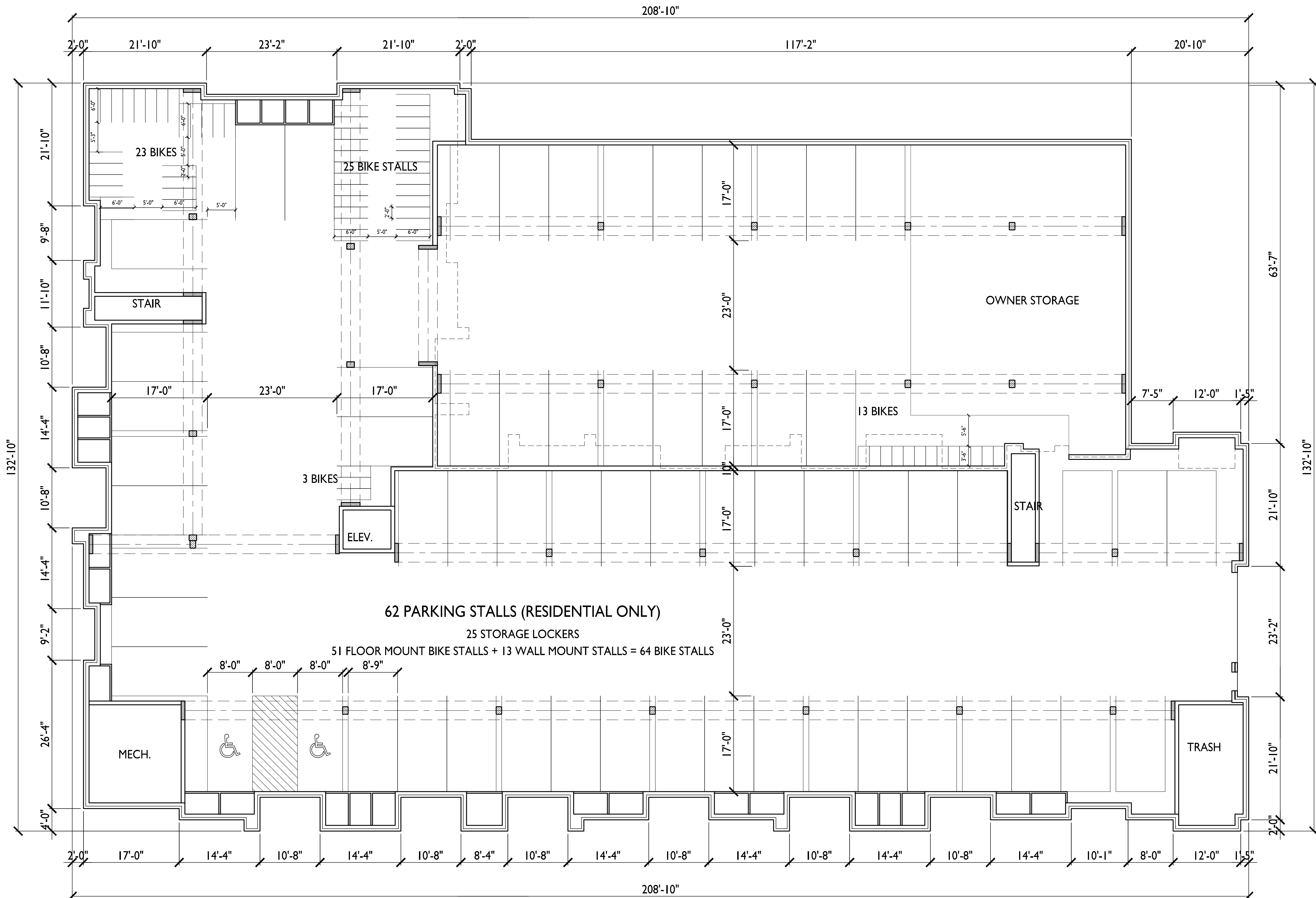
MADISON, WI



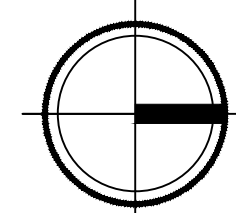
811
Know what's below.
Call before you dig.

This drawing remains the property of the undersigned, and no use of it shall be made without their consent. The undersigned and McKay Nursery Company assume no responsibility for accuracy, zoning compliance, structural integrity and all details and dimensions.

DRAWN BY rudolph / bogie
DATE 10.15.18
REVISION DATES
PROJECT NUMBER 181003 gebhardt
CAD FILE 2018 ProjectsZastrow
SCALE 1" = 30'
SHEET 1 OF 1
SHEET NUMBER 1



I BASEMENT FLOOR PLAN - BLDG A
A-1.0a 1/8" = 1'-0"





knothe-bruce
ARCHITECTS

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

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Issued for Land Use- October 17, 2018

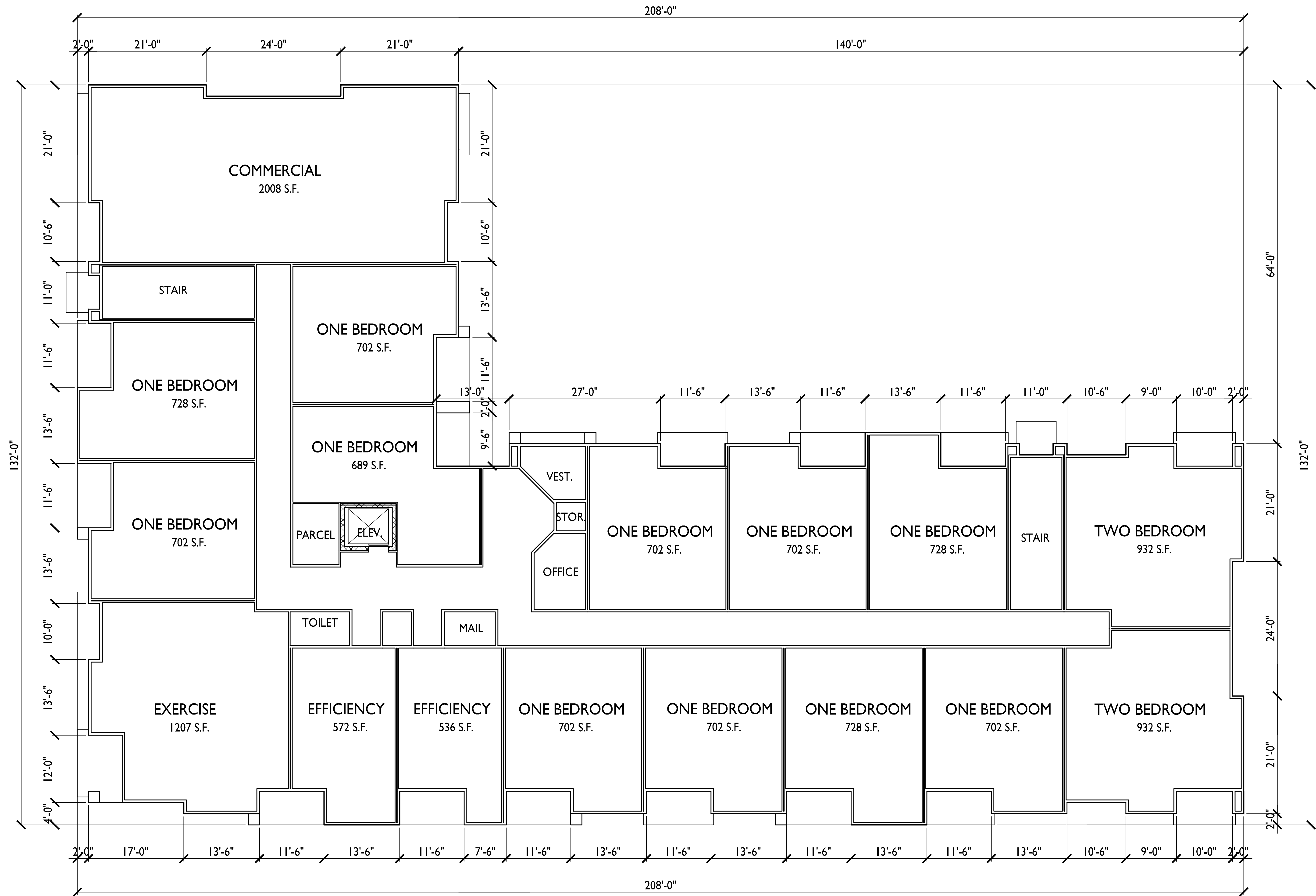
PROJECT TITLE
GEBHARDT
DEVELOPMENT

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
First Floor Plan -
Building A

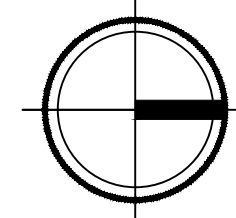
SHEET NUMBER

A-1.1a

PROJECT NO. 1830
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1 FIRST FLOOR PLAN - BLDG A
A-1.1a 1/8" = 1'-0"





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Issued for Land Use- October 17, 2018

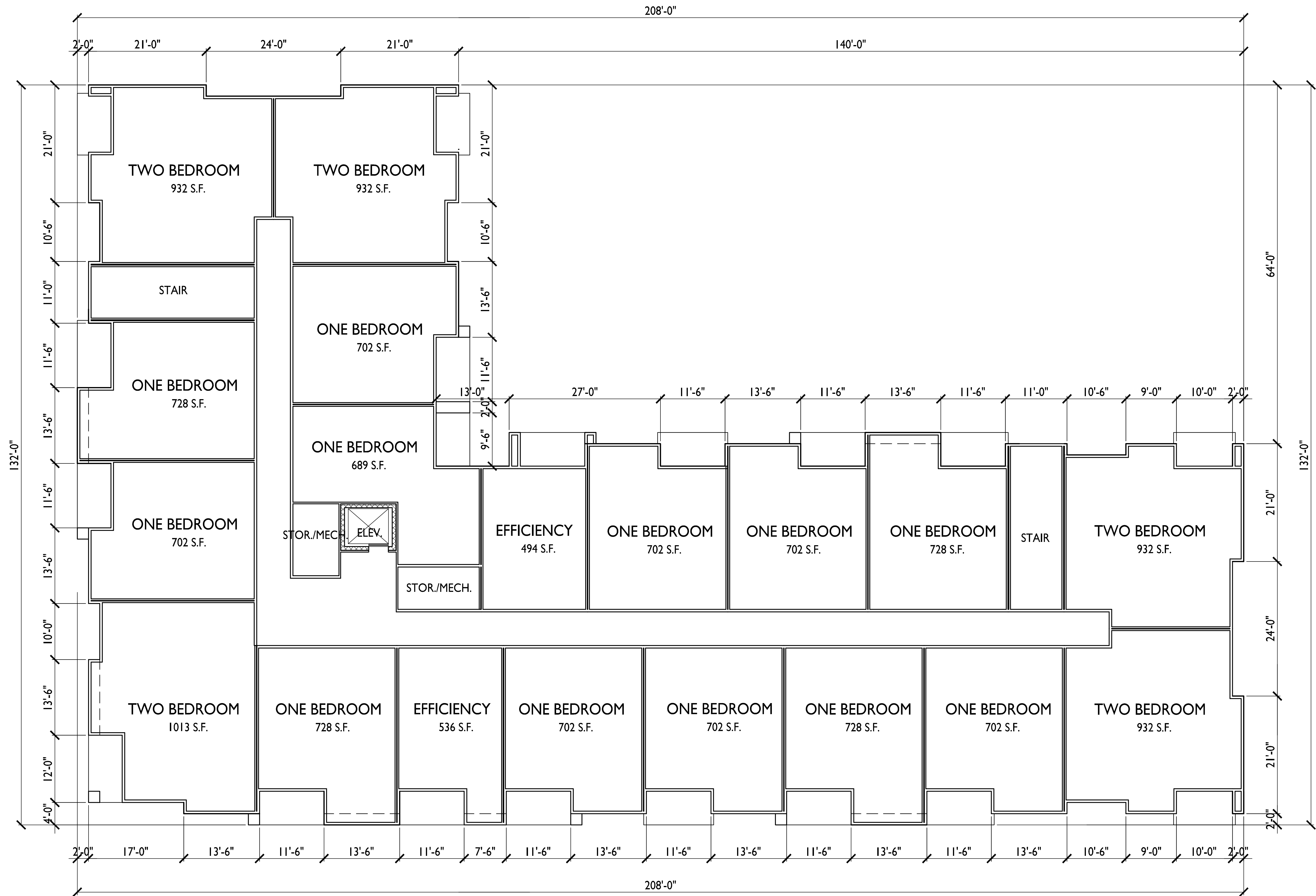
PROJECT TITLE
**GEBHARDT
DEVELOPMENT**

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
**Second & Third
Floor Plan -
Building A**

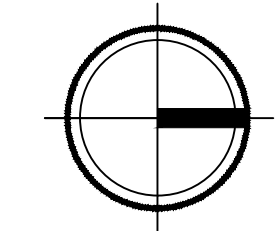
SHEET NUMBER

A-1.2a

PROJECT NO. **1830**
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SECOND & THIRD FLOOR PLAN - BLDG A
A-1.2a 1/8" = 1'-0"





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Issued for Land Use- October 17, 2018

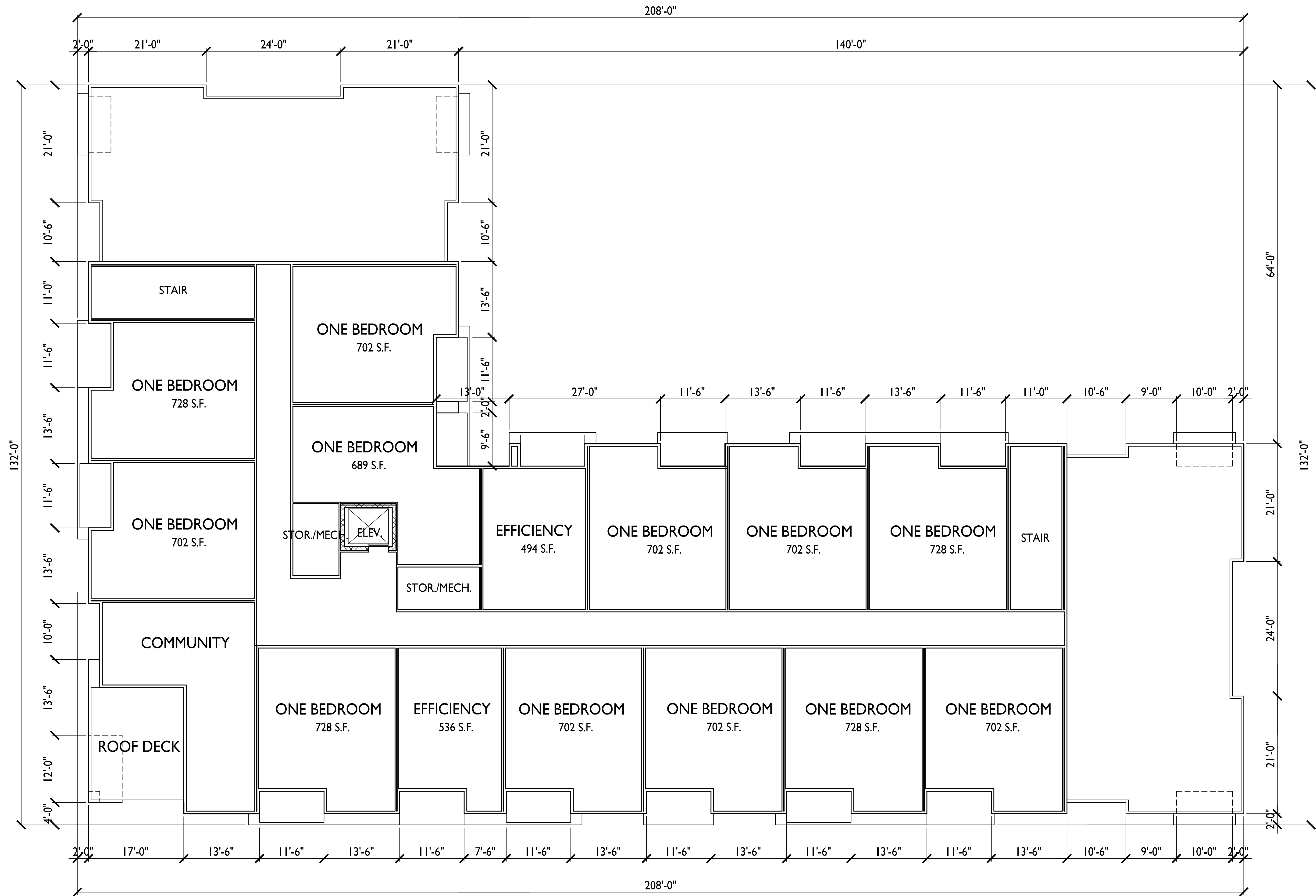
PROJECT TITLE
**GEBHARDT
DEVELOPMENT**

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
**Fourth Floor Plan
- Building A**

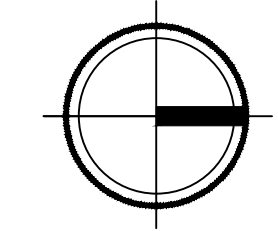
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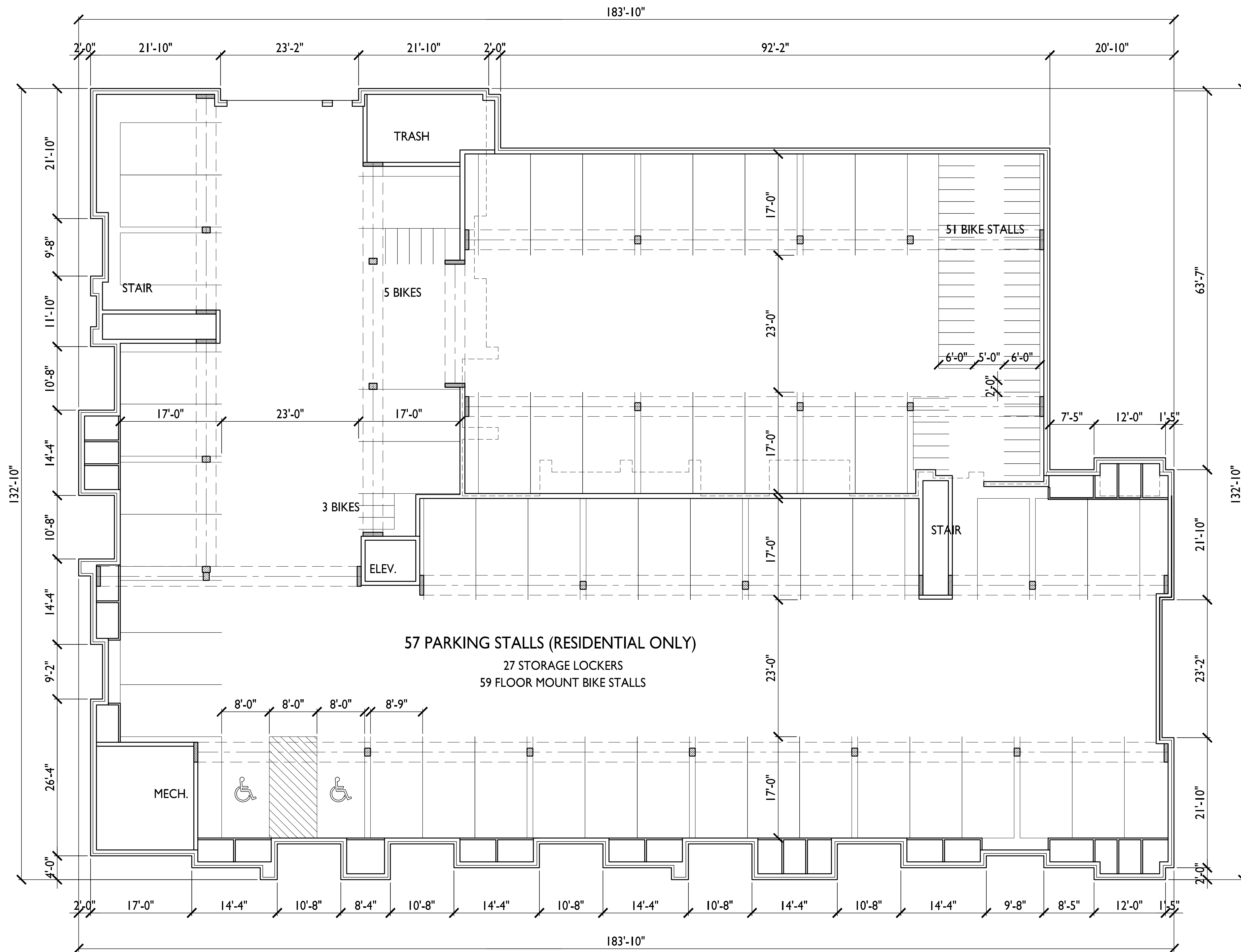
A-1.3a

PROJECT NO. **1830**
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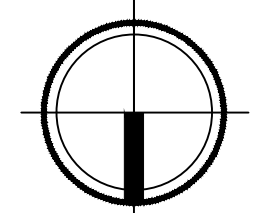


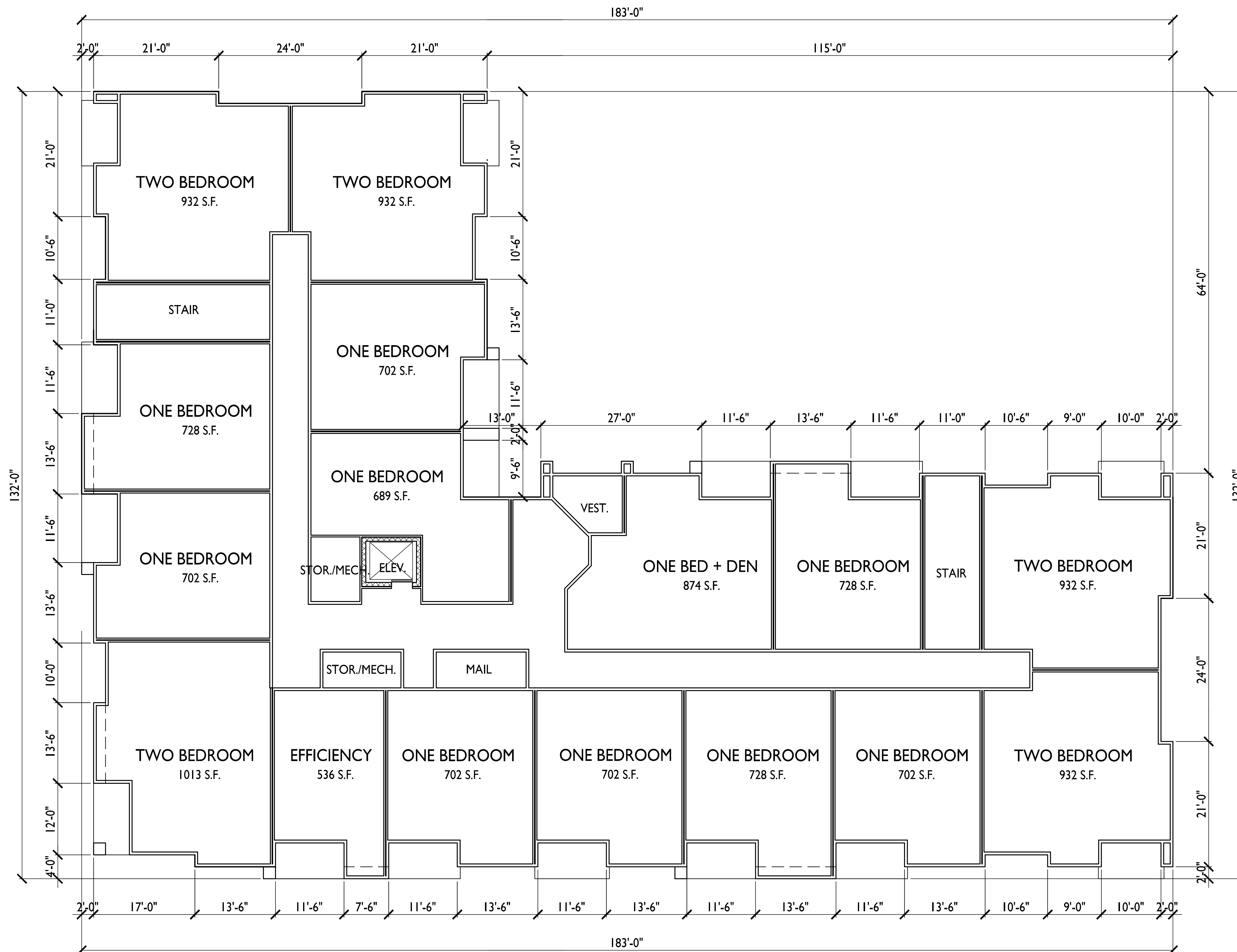
1 FOURTH FLOOR PLAN - BLDG A
A-1.3a 1/8" = 1'-0"



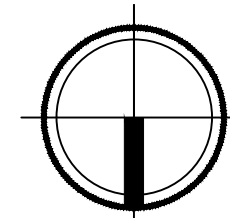


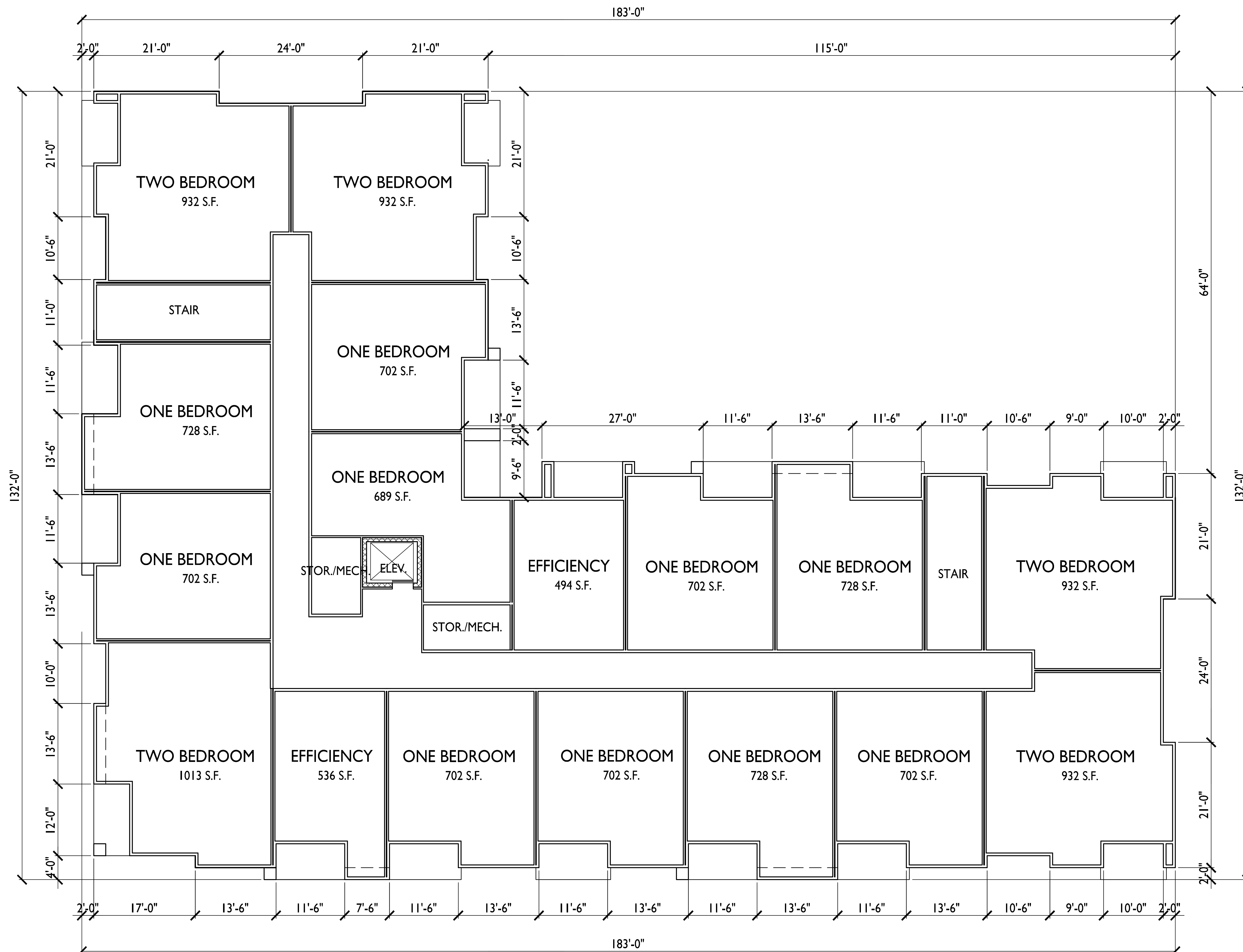
I BASEMENT FLOOR PLAN - BLDG B
A-1.0b 1/8" = 1'-0"



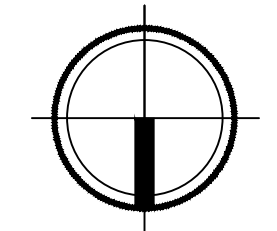


FIRST FLOOR PLAN - BLDG B
A-1.1b 1/8" = 1'-0"





1 SECOND & THIRD FLOOR PLAN - BLDG B
A-1.2b 1/8" = 1'-0"







1 A - EAST ELEVATION ALONG PACKERS
A-2.1a 1/8" = 1'-0"



2 A - SOUTH ELEVATION ALONG TENNYSON LANE
A-2.1a 1/8" = 1'-0"



SIGNAGE

ISSUED
ISSUED TO PLANNING - Oct. 17, 2018

1 WEST ELEVATION
A-2.2a 1/8" = 1'-0"



- TYPICAL MATERIALS
- COMPOSITE SIDING AND TRIM
- VINYL / FIBERGLASS WINDOWS
- COMPOSITE SIDING AND TRIM
- COMPOSITE PANEL
- ALUM. RAILING
- CAST STONE SILLS
- STONE VENEER

SIGNAGE

2 NORTH ELEVATION
A-2.2a 1/8" = 1'-0"

PROJECT TITLE
**GEBHARDT
DEVELOPMENT**

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
**Elevations -
Building A
67 Unit**

SHEET NUMBER

A-2.2a

PROJECT NO. **1830**
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1 A - East Elevation
A-2.1 1/8" = 1'-0"



2 A - West Elevation
A-2.1 1/8" = 1'-0"

PROJECT TITLE

SHEET TITLE
Building
Elevations

SHEET NUMBER

A-2.1

PROJECT NUMBER 1830
© 2015 Knothe & Bruce Architects, LLC

TYPICAL MATERIALS

- BOARD AND BATTON VERTICAL SIDING
- VINYL/FIBERGLASS WINDOWS
- COMPOSITE SIDING AND TRIM
- ALUM. RAILING
- CAST STONE SILLS
- STONE VENEER



1 A - North Elevation
A-2.2 1/8" = 1'-0"



2 A - South Elevation
A-2.2 1/8" = 1'-0"



1 A - East Elevation - Color
A-2.3 1/8" = 1'-0"



2 A - West Elevation - Color
A-2.3 1/8" = 1'-0"

PROJECT TITLE

SHEET TITLE
Colored Elevations

SHEET NUMBER

A-2.3

PROJECT NUMBER **1830**

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TYPICAL MATERIALS

- COMPOSITE SIDING AND TRIM
- VINYL/FIBERGLASS WINDOWS
- COMPOSITE PANEL
- COMPOSITE SIDING AND TRIM
- ALUM. RAILING
- CAST STONE SILLS
- STONE VENEER

1 A - North Elevation - Color
A-2.4 1/8" = 1'-0"



2 A - South Elevation - Color
A-2.4 1/8" = 1'-0"

PROJECT TITLE

SHEET TITLE
Colored Elevations

SHEET NUMBER

A-2.4

PROJECT NUMBER **1830**

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VIEW FROM CORNER OF PACKERS AVE. & TENNYSON LANE

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
October 23, 2018
A-2.5





ISSUED
Issued for Land Use - October 23, 2018

1 B - NORTH ELEVATION
A-2.1b 1/8" = 1'-0"



PROJECT TITLE
**GEBHARDT
DEVELOPMENT**

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
**Elevations -
Building B
62 unit**

2 B - EAST ELEVATION ALONG PACKERS
A-2.1b 1/8" = 1'-0"

SHEET NUMBER

A-2.1b

PROJECT NO. **1830**
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1 B - SOUTH ELEVATION
A-2.2b 1/8" = 1'-0"

ISSUED
Issued for Land Use - October 23, 2018



2 B - WEST ELEVATION
A-2.2b 1/8" = 1'-0"

PROJECT TITLE
**GEBHARDT
DEVELOPMENT**

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
**Elevations -
Building B
62 Unit**

SHEET NUMBER

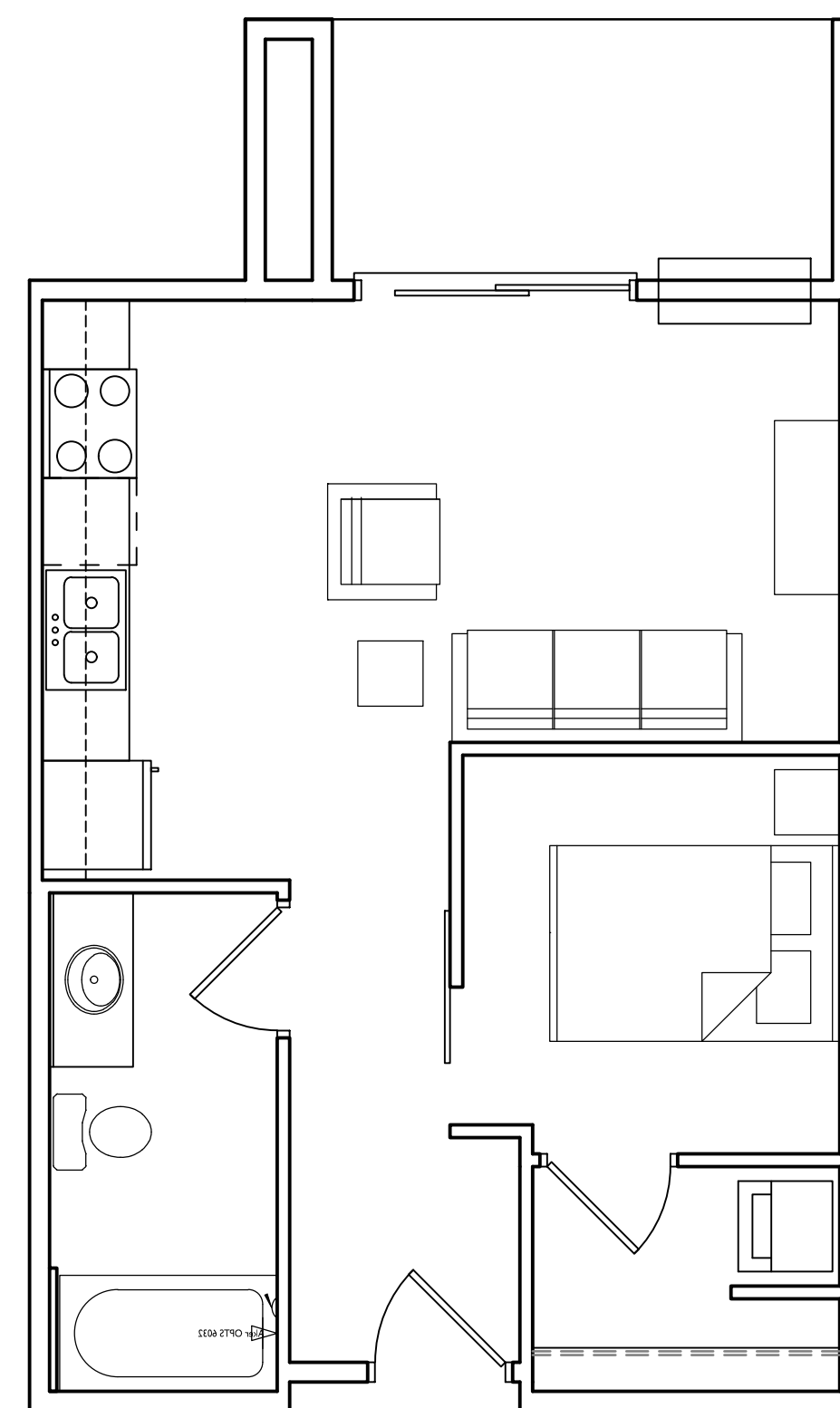
A-2.2b

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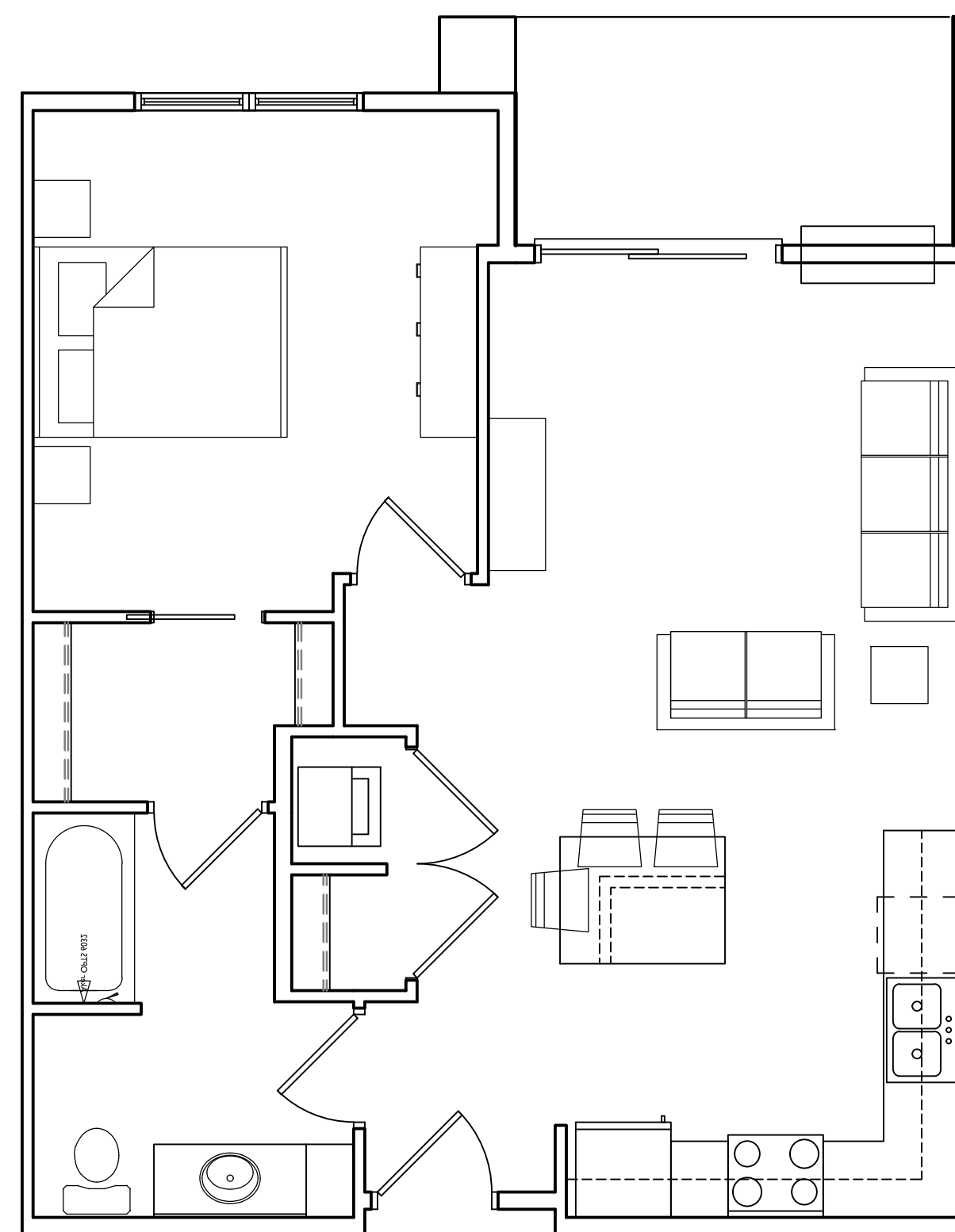


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ARCHITECTS

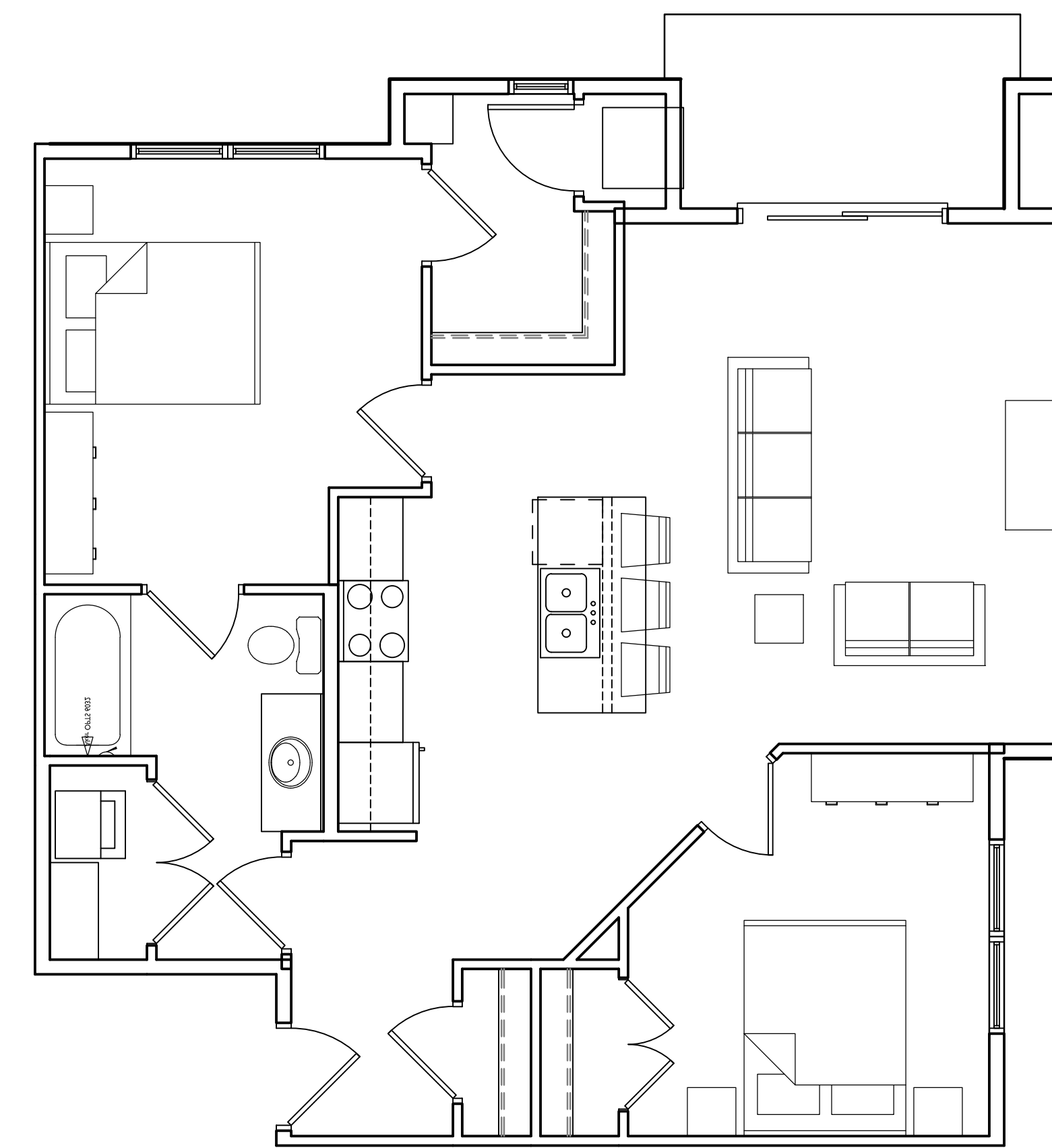
Phone: 7601 University Ave, Ste 201
608.836.3690 Middleton, WI 53562



I EFFICIENCY PLAN
A-5.1 1/4" = 1'-0"



I ONE BEDROOM PLAN
A-5.1 1/4" = 1'-0"



I TWO BEDROOM PLAN
A-5.1 1/4" = 1'-0"

ISSUED
Issued for Land Use- October 17, 2018

PROJECT TITLE
**GEBHARDT
DEVELOPMENT**

Packers Ave. &
2002 Tennyson Lane
Madison, Wisconsin
SHEET TITLE
Typical Unit Plans

SHEET NUMBER

A-5.1

PROJECT NO. **1830**
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