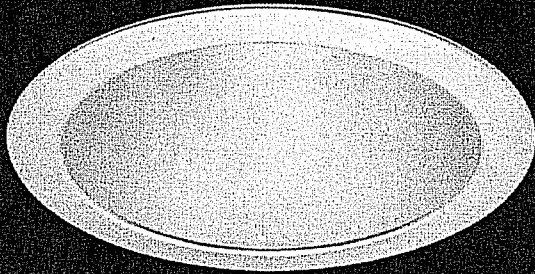


# id+ 4.5"

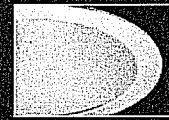
LED DOWNLIGHT



FOCAL POINT



clear diffuse



warm diffuse



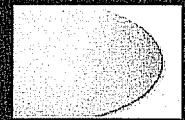
white painted flange



black reflector

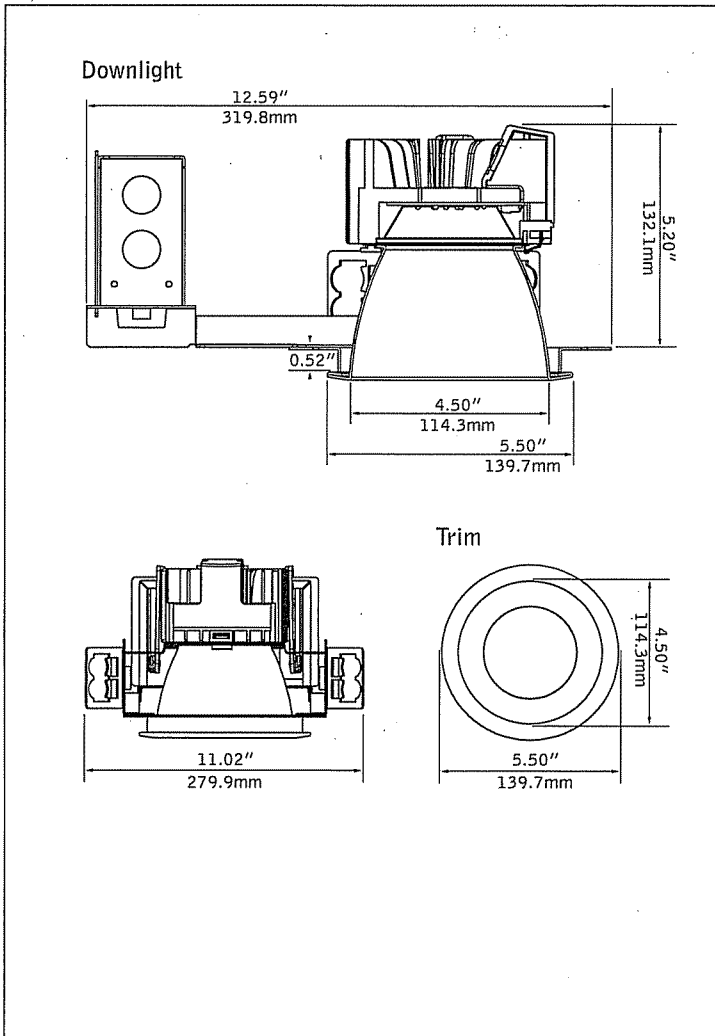


white reflector



trimless companion

## DIMENSIONAL DATA



## FEATURES

ChromaSure: Color consistency resulting in a 2-step MacAdam ellipse across the entire ID+ product line.

Field adjustability of ceiling thickness from 0.5" - 2.5".

Shallow housing.

50 degree cutoff to light source and its image.

Selection of dimming drivers available.

Right Light: Standard delivered lumen outputs 1000, 1500, 2000, 2500, and 3000.

## PERFORMANCE

PRODUCT OVERVIEW	
Lumen Output:	1000-3000lm
Wattage:	12-45W
LPW:	66-81
Spacing Criteria:	1.01-1.02
SDCM:	2
Lumen Maintenance:	L70 @ 63,000hrs

Clear Diffuse Reflector  
3500k

**Delivered Lumens: 2000lm**

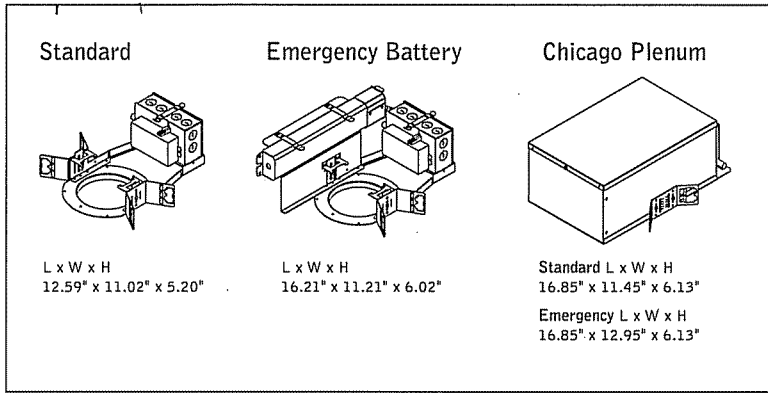
**Total System Watts: 26W**

Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit energystar.gov for model specifics.

fixture:

project:

**HOUSING DETAILS**



**HOUSING SPECIFICATIONS**

**Construction**

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Butterfly brackets allow mounting to 1/2 emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. UL & cUL listed for (6) #14 AWG (3 in, 3 out) 90°C conductors and feed through-branch wiring. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 2.5" thickness. For thicker ceiling consult factory. Order TZB option for TechZone compatible housing brackets. Fixture will not exceed 5 lb.

**Electrical**

Choice of constant current dimming drivers. Power factor > .9 typical.

**Emergency**

Emergency Battery Pack: Bodine BSL17C-C2. Emergency output —7W for 90 minutes. Maximum mounting height: 23.3ft. (Black reflector color: 18.1ft.)

**Labels**

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only. Specify wet listed (WL) for recessed ceiling applications in indoor and outdoor locations. Lutron Drivers not recommended for outdoor environments below 0°C.

**Lumen Maintenance**

Reported: L70 at >63,000 hours  
Derived from EPA TM-21 calculator

**Warranty**

LED System rated for operation in ambient environments up to 25°C. 5 year limited warranty.

**TRIM & LED SPECIFICATIONS**

**LED System**

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, CRI>80. Color accuracy within 2 SDCM. Aluminum heat sink provides appropriate thermal management.

**Aesthetics**

Parabolic reflector cone ensures glare free optics. Reflector is .050 spun aluminum. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Trims are self-flanged. Non-painted trim matches reflector finish. White painted flange may also be specified.

**Optics**

50-degree cut-off to light source and its image.

**PERFORMANCE CHART**

Delivered Lumens	System Watts	LPW
1000	12	81
1500	19	78
2000	26	76
2500	36	70
3000	45	66

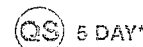
\*Based on 3000/3500K, Clear Diffuse reflector cone, 90CRI Multipliers: 2700K: 0.94, 4000K: 0.106, 90CRI Multipliers: 2700K: 0.71, 3000K/3500K: 0.83, 4000K: 0.94, Black Multiplier: 0.56, White Multiplier: 1.15. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

**HOUSING ORDERING**

<b>Housing Series</b>	FLC4D
ID+ 4.5" Round Downlight	FLC4D
<b>Trim Type</b>	RO
Round Overlap <small>(Click to view trimless cutsheet)</small>	RO
<b>Lumen Output</b>	
1000 Lumens	1000L
1500 Lumens	1500L
2000 Lumens	2000L
2500 Lumens	2500L
3000 Lumens	3000L
<b>Voltage</b>	
120V	120
277V**	277
<b>Driver</b>	
0-10V - 1% Dimming	L11
0-10V - 10% Dimming	LD1
Lutron A-Series	L3D
1% EcoSystem Digital <small>(Consult factory for 3-wire control)</small>	
DALI - 1% Dimming	D11
<b>Housing Type</b>	T
Thermally Protected, Non-IC	T
<b>Factory Options</b>	
Bar Hangers	BH
Chicago Plenum / National Plenum	CP
Emergency Battery <small>(Must order LC4EM trim)</small>	EM
TechZone Brackets	TZB
<b>TRIM &amp; LED MODULE</b>	
<b>Aperture</b>	
4.5" Round Reflector	LC4
4.5" Round Reflector - Emergency <small>(Required for "EM" option)</small>	LC4EM
<b>Trim Type</b>	RD
Round	RD
<b>Lumens Output</b>	
1000 Lumens	1000L
1500 Lumens	1500L
2000 Lumens	2000L
2500 Lumens	2500L
3000 Lumens	3000L
<b>Color Temperature</b>	
2700K	27K
2700K, 90CRI	927K
3000K	30K
3000K, 90CRI	930K
3500K	35K
3500K, 90CRI	935K
4000K	40K
4000K, 90CRI	940K
<b>Optic</b>	DN
Downlight	DN
<b>Color</b>	
Clear Diffuse	CD
Warm Diffuse	WD
Black <small>(Black Painted flange only)</small>	BK
White <small>(White Painted flange only)</small>	WH
<b>Flange Finish</b>	
Non-Painted <small>(Clear and warm diffuse only)</small>	NP
Black Painted	BP
White Painted	WP
<b>Factory Options</b>	
Wet Listed <small>(Not available with 90CRI)</small>	WL

A complete unit consists of two line items, housing and trim  
Example: FLC4D-RO-1500L-120-LD1-T | LC4-RD-1500L-35K-DN-CD-NP



\*For more information visit focalpointlights.com/reference or consult factory.

\*\*1500 and 2000 lumen outputs add 2 watts to system wattage.

Quickship is a limited offering, visit focalpointlights.com/quickship for specifics.

# id+ 4.5"

LED DOWNLIGHT

FLC4D-RO-1000L-120-L11-T / LC4-RO-1000L-35K / 40K-DN-CD-NP

Filename: FLC4DRO1000L\_35K\_40K\_DNCD.IES

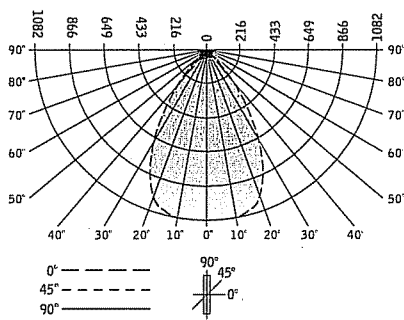
Lumens: 1082lm

Test #: 1100914

System Watts: 13W

LPW: 83

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle
0°	0°
5°	1082
15°	1080
25°	1046
35°	826
45°	398
55°	69
65°	6
75°	0
85°	0
90°	0

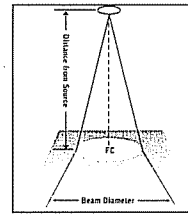
### LUMEN SUMMARY

Zone	Lumens	% Fixture	
0-30°	768	71.0	
0-40°	1014	93.7	
0-60°	1081	99.9	
0-90°	1082	100.0	
Total Luminaire	0-180°	1082	100.0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	68
6'	7.5'	30
8'	10.0'	17
10'	12.5'	11



Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# id+ 4.5"

LED DOWNLIGHT

FLC4D-RO-1500L-120-L11-T / LC4-RO-1500L-35K / 40K-DN-CD-NP

Filename: FLC4DRO1500L\_35K\_40K\_DNCD.IES

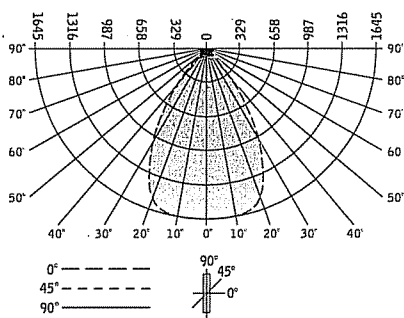
Lumens: 1676lm

Test #: 1100916

System Watts: 21W

LPW: 80

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle
0°	0°
5°	1645
15°	1645
25°	1599
35°	1272
45°	616
55°	111
65°	14
75°	4
85°	0
90°	0

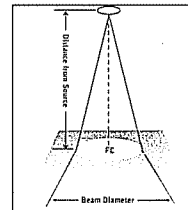
### LUMEN SUMMARY

Zone	Lumens	% Fixture	
0-30°	1178	70.3	
0-40°	1559	93.0	
0-60°	1671	99.7	
0-90°	1676	100.0	
Total Luminaire	0-180°	1676	100.0

### FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	103
6'	7.5'	46
8'	10.0'	26
10'	12.5'	16



Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

id+ 4.5"

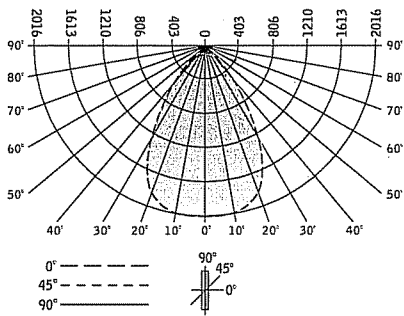
LED DOWNLIGHT

FLC4D-RO-2000L-120-L11-T / LC4-RO-2000L-35K / 40K-DN-CD-NP

Filename: FLC4DRO2000L\_35K\_40K\_DNCD.IES  
Test #: 1117165

Lumens: 2050  
System Watts: 27W  
LPW: 76

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle
0°	0°
0°	2016
5°	2013
15°	1938
25°	1555
35°	760
45°	136
55°	16
65°	5
75°	2
85°	1
90°	0

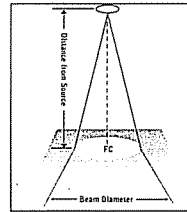
LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1436	70.1
0-40°	1907	93.0
0-60°	2042	99.6
0-90°	2050	100.0
Total Luminaire 0-180°	2050	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	126
6'	7.5'	56
8'	10.0'	31
10'	12.5'	20



Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

id+ 4.5"

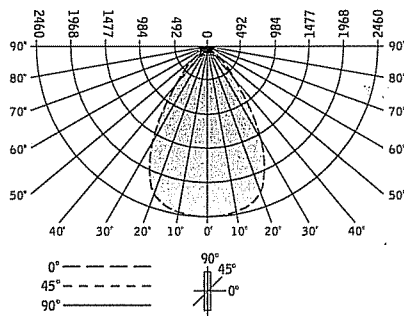
LED DOWNLIGHT

FLC4D-RO-2500L-120-L11-T / LC4-RO-2500L-35K / 40K-DN-CD-NP

Filename: FLC4DRO2500L\_35K\_40K\_DNCD.IES  
Test #: 1117163

Lumens: 2502  
System Watts: 36W  
LPW: 70

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle
0°	0°
0°	2460
5°	2457
15°	2365
25°	1897
35°	927
45°	166
55°	20
65°	6
75°	2
85°	1
90°	0

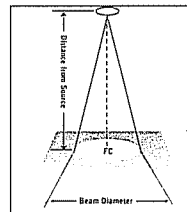
LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1753	70.1
0-40°	2326	93.0
0-60°	2492	99.6
0-90°	2502	100.0
Total Luminaire 0-180°	2502	100.0

FOOTCANDLE VALUES

0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	154
6'	7.5'	68
8'	10.0'	38
10'	12.5'	25



Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.



# id+ 4.5"

LED DOWNLIGHT

FLC4D-RO-3000L-120-L11-T / LC4-RO-3000L-35K / 40K-DN-CD-NP

Filename: FLC4RDO3000L\_35K\_40K\_DNCD.IES

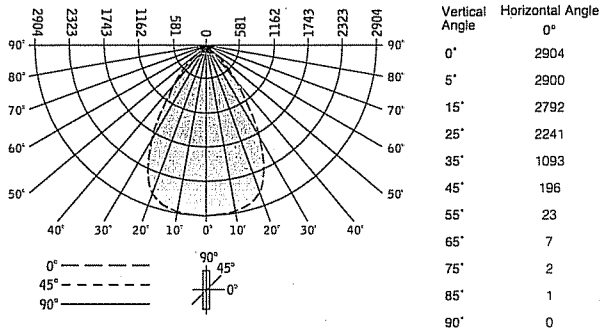
Lumens: 2953

Test #: 1117164

System Watts: 45W

LPW: 66

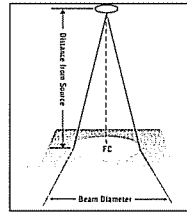
### CANDLEPOWER DISTRIBUTION



### LUMEN SUMMARY

Zone	Lumens	% Fixture	
0-30°	2070	70.1	
0-40°	2746	93.0	
0-60°	2942	99.6	
0-90°	2953	100.0	
<b>Total Luminaire</b>	<b>0-180°</b>	<b>2953</b>	<b>100.0</b>

### FOOTCANDLE VALUES



0° aiming angle - horizontal surface

Distance from source	Beam Diameter	Center Beam (FC)
4'	5.0'	182
6'	7.5'	81
8'	10.0'	45
10'	12.5'	29

Footcandle results based on AGI32; Reflectances=0/0/0; LLF=1

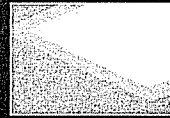
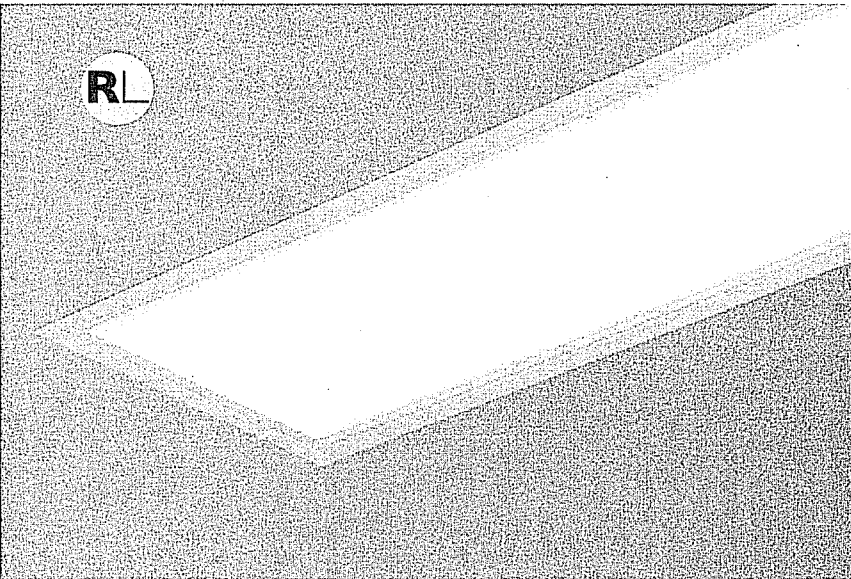
Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# Seem® 6

LED - WET LOCATION

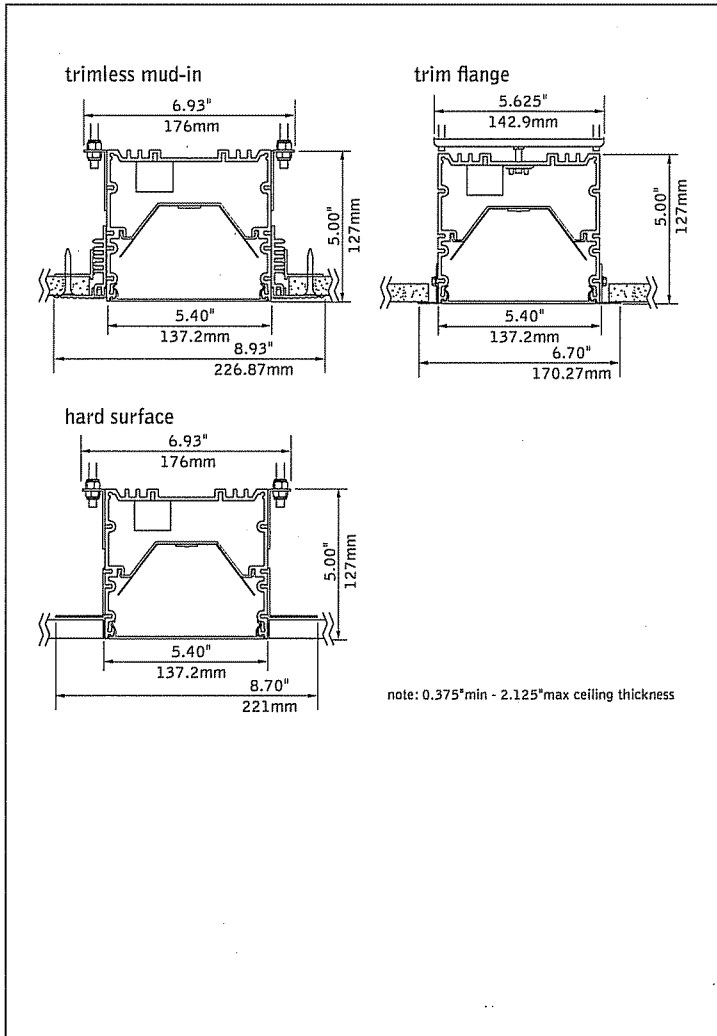


FOCAL POINT®



end detail

## DIMENSIONAL DATA



## FEATURES

Narrow extruded aluminum 6" aperture recessed slot LED suitable for wet location..

Integrates with ceiling for a clean, unobtrusive aesthetic.

Individual units in 1' increments up to 8'.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

## PERFORMANCE

PRODUCT OVERVIEW	
Lumen Output:	1500-4000lm
Wattage:	15-51W
LPW:	78-83
SDCM:	3
Lumen	L90 @
Maintenance:	131,000hrs

4' Flush Lens  
625 Lumens per foot  
**Delivered Lumens: 2500lm**  
**Total System Watts: 30W**

Photometric performance is measured in accordance with IESNA LM-79  
visit [focalpointlights.com](http://focalpointlights.com) for complete photometric data.

fixture:

project:

**SPECIFICATIONS**

**LED System**

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 3000K, 3500K or 4000K with CRI>80, 3SDCM. LED modules and drivers are replaceable from below.

**Construction**

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. XFW acceptable for use with wood, consult factory for Type IC availability. 2' unit weight: 18 lbs., 3' unit weight: 24 lbs., 4' unit weight: 30 lbs., 5' unit weight: 36 lbs.

**Optic**

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 8' continuous.

**Electrical**

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Dimming range 100% to 10%. Power factor > .9.

**Emergency Battery**

Bodine BSL310-CAN. Emergency output - 10 watts for 90 minutes. Maximum mounting height: 18ft. Emergency Circuit maximum mounting height: 21ft.

**Labels**

UL and cUL wet listed for recessed ceiling applications in indoor and outdoor locations. Lutron Drivers not recommended for outdoor environments below 0°C.

**Finish**

Polyester powder coat applied over a 5-stage pre-treatment.

**Lumen Maintenance**

Calculated: L90 at 131,000 hours      Reported: L90 at >61,000 hours  
Derived from EPA TM-21 calculator

**Warranty**

LED system rated for operation in ambient environments up to 25°C. 5 year limited warranty.

**4' PERFORMANCE CHART**

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Flush Lens	375LF	1500	18	83
	625LF	2500	30	83
	875LF	3500	44	80
	1000LF	4000	51	78

\*Based on 3500K, 4' lengths. \*Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

**ORDERING**

Luminaire Series	FSM6LWL	FSM6LWL
Seem 6 LED Wet Location	FSM6LWL	
<b>Shielding</b>		<b>FL</b>
Flush Satin Lens <small>(Ceiling applications only)</small>	FL	
<b>Lumen Output</b>		
375 Lumens per foot	375LF	
625 Lumens per foot	625LF	
875 Lumens per foot	875LF	
1000 Lumens per foot <small>(Not available with L3D driver)</small>	1000LF	
<b>Color Temperature</b>		
3000K	30K	
3500K	35K	
4000K	40K	
<b>Circuit</b>		<b>1C</b>
Single Circuit	1C	
<b>Voltage</b>		
120 Volt	120	
277 Volt	277	
UNV Volt <small>(Cannot be specified with EM option)</small>	UNV	
<b>Driver</b> <small>(See driver reference for driver quantities)</small>		
0-10V - 10% Dimming	LD1	
Lutron A-Series	L3D	
1% EcoSystem Digital <small>(Consult factory for 3-wire control)</small>		
0-10V - 1% Dimming <small>(Consult factory)</small>		
<b>Ceiling Configurations</b>		
Trim Flange Drywall <small>(3' minimum with Lutron Drivers)</small>	TF	
Trim Flange Wood <small>(3' minimum with Lutron Drivers)</small>	TFW	
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field <small>(Mounting equipment assembled in field)</small>	XFF	
Non-Drywall Hard Surface	XFN	
Hard Surface, Wood	XFW	
<b>Factory Options</b>		
Chicago Plenum	CP	
Emergency Circuit*	EC	
Emergency Battery Pack* <small>(4' lengths or longer)</small>	EM	
6' New York City Flex Whip	FNY	
6' Flex Whip	FW	
<b>Finish</b>		<b>WH</b>
Matte White Housing	WH	
<b>Luminaire Length</b> <small>(Lengths are nominal)</small>		
<small>(not available with combination of TF or TFW &amp; L3D options)</small>		
	2'	2'
	3'	3'
	4'	4'
	5'	5'
	6'	6'
	7'	7'
	8'	8'
<small>(Smaller increments available. Consult factory for details.)</small>		

# Seem®6

LED - FLUSH LENS

FSM6L-FL-375LF-35K-LD1-WH-4'

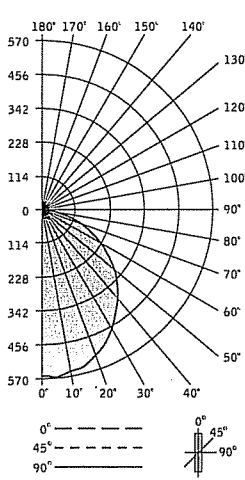
Filename: FSM6LFL375LF35K.IES

Lumens: 1475lm

System Watts: 18W

LPW: 82

## CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	566	566	566	566	566
5°	570	568	562	562	560
15°	551	544	538	536	534
25°	499	493	488	484	478
35°	430	420	415	411	400
45°	351	344	336	330	325
55°	267	267	261	252	241
65°	175	174	172	159	164
75°	93	95	93	86	88
85°	26	26	20	24	20
90°	7	6	2	6	4
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

## LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	430	29.1
0-40°	690	46.8
0-60°	1181	80.1
0-90°	1475	100.0
Total Luminaire 0-180°	1475	100.0

## LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal		
	0°	45°	90°
45°	3162	3028	2925
55°	2963	2902	2675
65°	2642	2586	2475
75°	2299	2299	2162
85°	1923	1490	1490

Go to [www.localpointlights.com](http://www.localpointlights.com) for additional photometric data.

# Seem®6

LED - FLUSH LENS

FSM6L-FL-625LF-35K-LD1-WH-4'

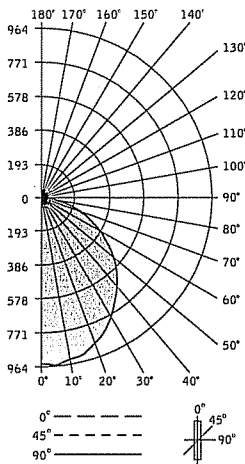
Filename: FSM6LFL625LF35K.IES

Lumens: 2495lm

System Watts: 31W

LPW: 80

## CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				
	0°	22.5°	45°	67.5°	90°
0°	957	957	957	957	957
5°	964	961	951	951	948
15°	932	920	910	907	903
25°	844	834	825	819	809
35°	727	711	701	695	676
45°	594	582	569	559	550
55°	452	452	442	427	408
65°	298	294	290	269	278
75°	158	161	158	146	149
85°	45	45	35	41	35
90°	13	9	3	9	6
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

## LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	727	29.1
0-40°	1167	46.8
0-60°	1998	80.1
0-90°	2495	100.0
Total Luminaire 0-180°	2495	100.0

## LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal		
	0°	45°	90°
45°	5348	5122	4947
55°	5013	4908	4525
65°	4469	4375	4186
75°	3888	3888	3657
85°	3253	2520	2520

Go to [www.localpointlights.com](http://www.localpointlights.com) for additional photometric data.

# Seem®6

LED - FLUSH LENS

FSM6L-FL-875LF-35K-LD1-WH-4'

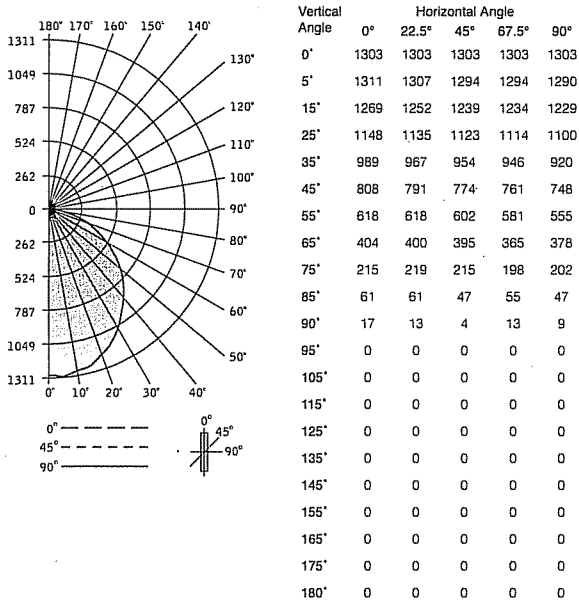
Filename: FSM6LFL875LF35K.IES

Lumens: 3395lm

System Watts: 45W

LPW: 75

## CANDLEPOWER DISTRIBUTION



## LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	989	29.1
0-40°	1587	46.8
0-60°	2718	80.1
0-90°	3395	100.0
<b>Total Luminaire 0-180°</b>	<b>3395</b>	<b>100.0</b>

## LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal		
	0°	45°	90°
45°	7277	6970	6732
55°	6821	6679	6158
65°	6081	5953	5696
75°	5290	5290	4976
85°	4426	3429	3429

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# Seem®6

LED - FLUSH LENS

FSM6L-FL-1000LF-35K-LD1-WH-4'

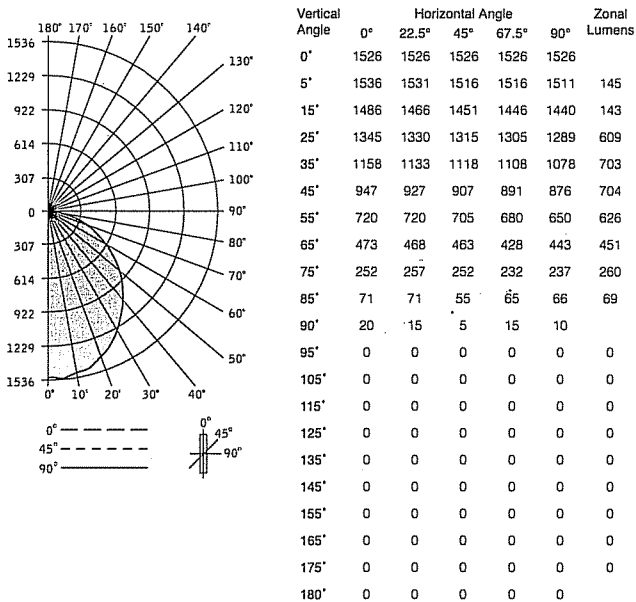
Filename: FSM6LFL1000LF35K.IES

Lumens: 3982lm

System Watts: 51W

LPW: 78

## CANDLEPOWER DISTRIBUTION



## LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30°	1167	29.3
0-40°	1871	47.0
0-60°	301	80.4
0-90°	3982	100.0
<b>Total Luminaire 0-180°</b>	<b>3982</b>	<b>100.0</b>

## LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal		
	0°	45°	90°
45°	8459	8099	7829
55°	7932	7766	7156
65°	7077	6929	6625
75°	6147	6147	5778
85°	5111	4016	4016

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

Type:  
 Job:  
 Catalog number:

/	/	/	/	/
Mfg.	Fixture	Electrical Module	Finish	Options
See page 2				See pages 3-4
				Optional Vertical Slipfitter Mount See page 4

Select pole from Kim Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

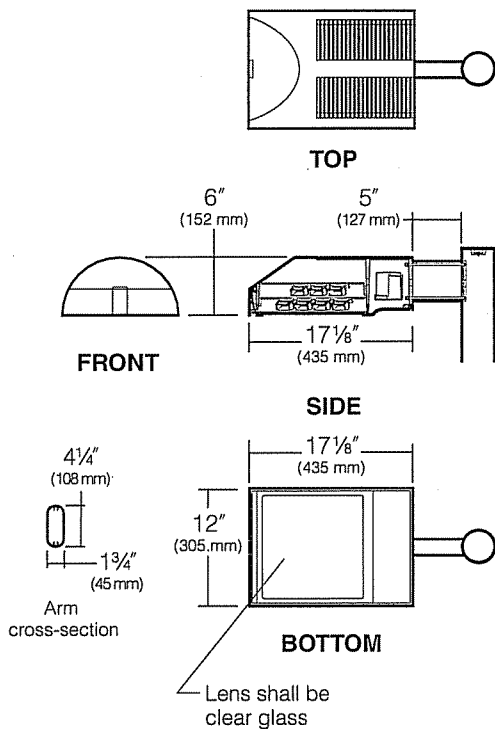
**Approvals:**

**Date:**  
**Page: 1 of 6**

## Specifications

### SAR-LED

60 Light Emitting Diodes  
 Total System Watts = 66W  
 Maximum Weight = 30 lbs.



**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket to provide an IP66 rating for the optical module. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Electronic Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, thermal control device and surge protector. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

**Optical Module:** Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task. The entire EmitterDeck fastens to the housing as a one-piece module.

**Support Arm:** One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Optional Wall Mounting:** A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept drawbolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

**Listed To:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

**Warranty:** Kim Lighting warrants The Archetype LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitters) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield® device, Surge Protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

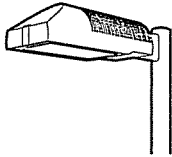


Patent Pending

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Type:

Job:










## Standard Features

### Mounting

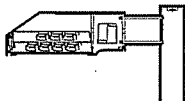
3SY configuration is available for round poles only.

Plan View:










						
EPA: 0.7	1.4	1.2	1.9	1.9	2.5	
Cat. No.: <input type="checkbox"/> 1SA	<input type="checkbox"/> 2SB	<input type="checkbox"/> 2SL	<input type="checkbox"/> 3ST	<input type="checkbox"/> 3SY	<input type="checkbox"/> 4SC	<input type="checkbox"/> 1W

### Fixture

Cat. No. designates fixture and optic



Flat Lens

SAR	x	E35	Light Distribution:		
					
<b>Housing Size:</b> SAR			E35 = 350mA		
<b>Distribution:</b> <input type="checkbox"/> 2 = Type II Full Cutoff <input type="checkbox"/> 3 = Type III Full Cutoff <input type="checkbox"/> 4 = Type IV Full Cutoff <input type="checkbox"/> 5 = Type V Square Full Cutoff <input type="checkbox"/> L = Type L Left Full Cutoff <input type="checkbox"/> R = Type R Right Full Cutoff			Type II	Type III	Type IV Forward Throw
					
			Type V Square	Type R Right	Type L Left

### Electrical Module

Cat. Nos. for Electrical Modules available:

60L	xK	x
<b>Source:</b> 60L = 60 LED's		<b>Voltage:</b>
<b>Color Temperature:</b>		<input type="checkbox"/> 120 = 120V
<input type="checkbox"/> 3K = 3000K		<input type="checkbox"/> 208 = 208V
<input type="checkbox"/> 4K = 4200K		<input type="checkbox"/> 240 = 240V
<input type="checkbox"/> 5K = 5100K		<input type="checkbox"/> 277 = 277V
<input type="checkbox"/> 2K = 580nm - Amber		<input type="checkbox"/> 347 = 347V <sup>2</sup>
		<input type="checkbox"/> 480 = 480V <sup>2</sup>

<sup>2</sup>Due to current unavailability of 347V and 480V drivers, specification of these voltages may feature an integral step-down transformer.

### Finish

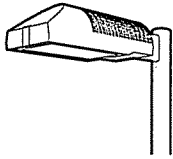
TGIC powder coat.

Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color<sup>1</sup>  
 Cat. No.:  BL  DB  LG  SG  PS  WH  CC

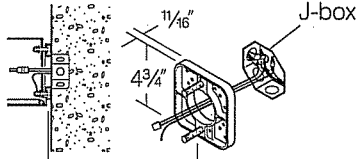

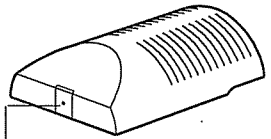
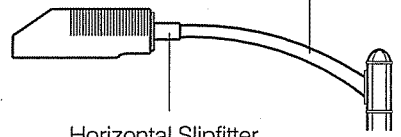
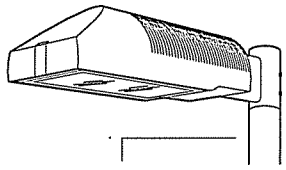
<sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_

Type:

Job:



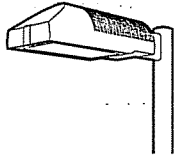
## Optional Features

<p><b>Wall Mounting</b>          Cat. No. <input type="checkbox"/> 1W  <input type="checkbox"/> No Option</p> <p>Select from Mounting on page 2.</p>	<p>Fixture mounts to 3" or 4" junction boxes by a cast aluminum adapter plate with fixture mounting bolts.</p> <p><b>NOTE:</b> Junction box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16. Quick-disconnect plug and wiring are provided to allow field connections prior to fixture mounting.</p>	 <p>Wall mount using adapter plate 3" or 4" J-box in wall (by others)</p>
<p><b>Polycarbonate Lens</b>          Cat. No. <input type="checkbox"/> LS  <input type="checkbox"/> No Option</p>	<p>Fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens.</p> <p><b>CAUTION:</b> Use only when vandalism is anticipated to be high.</p>	 <p>Flat Lens</p>
<p><b>Tamper-Resistant Latch</b>          Cat. No. <input type="checkbox"/> TL  <input type="checkbox"/> No Option</p>	<p>Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening.</p> <p><b>NOTE:</b> Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.</p>	 <p>Tamper-Resistant Latch</p>
<p><b>Horizontal Slipfitter Mount</b>          Cat. No. <input type="checkbox"/> HSF  <input type="checkbox"/> No Option</p>	<p>Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Cast aluminum slipfitter with set screw for an up or down 5° adjustment lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture and arm.</p>	<p>Davit-arm with 2" pipe-size fixture mount (by others)</p>  <p>Horizontal Slipfitter Mount by Kim</p>
<p><b>Vertical Slipfitter Mounts</b>          Cat. No. includes Mounting          Cat. No. (See right)  <input type="checkbox"/> No Option</p>	<p>Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" min. length). All mounting configurations can be used (1SA, 2SB, 2SL, 3ST, 3SY, 4SC). 4" square or round die-cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws, finished to match fixture and arm.</p> <p><b>NOTE:</b> 3SY only available on round slipfitter.</p> <p>Cat. No.  <input type="checkbox"/> VSF-1SA  <input type="checkbox"/> VSF-2SB  <input type="checkbox"/> VSF-2SL  <input type="checkbox"/> VSF-3ST  <input type="checkbox"/> VSF-3SY  <input type="checkbox"/> VSF-4SC</p> <p>Round</p> <p>Stainless steel set screws</p> <p>Square</p> <p>Cat. No.  <input type="checkbox"/> SVSF-1SA  <input type="checkbox"/> SVSF-2SB  <input type="checkbox"/> SVSF-2SL  <input type="checkbox"/> SVSF-3ST  <input type="checkbox"/> SVSF-4SC</p> <p>Mounting Configuration  <b>1SA</b> - single arm mount  <b>2SB</b> - 2 at 180°  <b>2SL</b> - 2 at 90°  <b>3ST</b> - 3 at 90°  <b>3SY</b> - 3 at 120°  <b>4SC</b> - 4 at 90°</p>	 <p>Pole with 2" pipe-size tenon (by others)</p> <p>Vertical Slipfitter Mount by Kim</p>



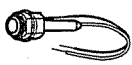
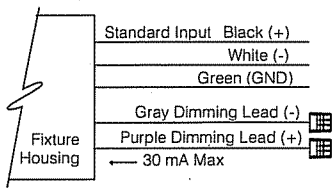


Type:

Job:



## Standard & Optional Features

<p><b>Neighbor Friendly Optic:</b>          Cat. No. <input type="checkbox"/> NFO  <input type="checkbox"/> No Option</p>	<p>Integrated Neighbor Friendly Optic on each PicoEmitter™ module to completely control unwanted backlight. Most effective with Type III and IV distributions.</p>	  <p>TYPE III-NFO    TYPE IV-NFO</p>
<p><b>Fusing</b>          Cat. No. (see right)  <input type="checkbox"/> No Option</p>	<p>Line Volts: 120V    208V    240V    277V    347V    480V          Cat. No.: <input type="checkbox"/> SF    <input type="checkbox"/> DF    <input type="checkbox"/> DF    <input type="checkbox"/> SF    <input type="checkbox"/> SF    <input type="checkbox"/> DF</p>	 <p>Single Fuse</p>
<p><b>0-10V Dimming Interface</b></p>	<p>0-10V Dimming Interface - Driver has 0-10V dimming interface with a range of 10-100%. Is compatible with most control systems. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming leads. Always consult with control company for compatibility.</p>	
<p><b>Photocell Receptacle</b>          Cat. No. <input type="checkbox"/> A-25  <input type="checkbox"/> No Option</p>	<p>Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA twist-lock base photocell (by-others). For multiple fixture pole mountings, one fixture has the receptacle to operate the others</p>	
<p><b>Photocell Control</b>          Cat. No. (See right)  <input type="checkbox"/> No Option</p>	<p>Fixture supplied with a fully gasketed button photocell within the electrical compartment.</p> <p>Cat. No.    Line Volts:  <input type="checkbox"/> A-30    120V  <input type="checkbox"/> A-31    208V  <input type="checkbox"/> A-32    240V  <input type="checkbox"/> A-33    277V  <input type="checkbox"/> A-35    347V  <input type="checkbox"/> A-34    480V</p>	
<p><b>NEMA Receptacle</b>          Cat. No. <input type="checkbox"/> NEMA7  <input type="checkbox"/> No Option</p>	<p>Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA twist-lock control module (by-others). Wires are attached to relevant components within the luminaire. For multiple fixture pole mountings, one fixture has the receptacle to operate the others.</p>	
<p><b>Occupancy Sensor up to 16'</b>          Cat. No. <input type="checkbox"/> SCL  <input type="checkbox"/> No Option</p>	<p>Occupancy Sensor up to 16' - Outdoor occupancy sensor with 0-10v interface dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Module colors available Black, Gray, and White.</p>	
<p><b>Occupancy Sensor up to 30'</b>          Cat. No. <input type="checkbox"/> SCH  <input type="checkbox"/> No Option</p>	<p>Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10v interface dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Module colors available Black, Gray, and White.</p>	

Type:  
 Job:

## Optional Features

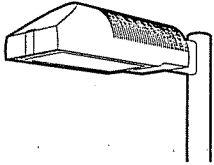
<p><b>Round Pole-Mounted Occupancy Sensor up to 16'</b>          Cat. No. <input type="checkbox"/> SCL-R  <input type="checkbox"/> No Option</p>	<p>Round Pole Mounted Occupancy Sensor up to 16' - Outdoor occupancy sensor with 0-10v interface dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for round pole mounting. Pole diameter needed.</p> <p><b>Ordering Example: SCL-R4*/277**/BL***</b>          *Pole Diameter, ** Voltage, *** Color</p>
<p><b>Square Pole-Mounted Occupancy Sensor up to 16'</b>          Cat. No. <input type="checkbox"/> SCL-S  <input type="checkbox"/> No Option</p>	<p>Square Pole Mounted Occupancy Sensor up to 16' - Outdoor occupancy sensor with 0-10v interface dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for square pole mounting.</p> <p><b>Ordering Example: SCL-S277**/BL***</b>          ** Voltage, *** Color</p>
<p><b>Round Pole-Mounted Occupancy Sensor up to 30'</b>          Cat. No. <input type="checkbox"/> SCH-R  <input type="checkbox"/> No Option</p>	<p>Round Pole Mounted Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10v interface dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for round pole mounting. Pole diameter needed.</p> <p><b>Ordering Example: SCH-R4*/277**/BL***</b>          *Pole Diameter, ** Voltage, *** Color</p>
<p><b>Square Pole-Mounted Occupancy Sensor up to 30'</b>          Cat. No. <input type="checkbox"/> SCH-S  <input type="checkbox"/> No Option</p>	<p>Square Pole Mounted Occupancy Sensor up to 30' - Outdoor occupancy sensor with 0-10v interface dimming control mounts directly to the underside of the luminaire. Wide 360° pattern. Module colors available Black, Gray, and White. Module is cut for square pole mounting.</p> <p><b>Ordering Example: SCH-S/277**/BL***</b>          ** Voltage, *** Color</p>
<p><b>Wireless Control</b>          Cat. No. <input type="checkbox"/> WIH-M  <input type="checkbox"/> No Option</p>	<p>In fixture WiHubb* wireless control module features on/off/variable and step dimming, SNAP protocol mesh network, AES-128 encryption detection, occupancy sensor interface and intuitive, user-friendly software. The most comprehensive and up to date information can be found at <a href="http://www.hubbell-automation.com/products/wihubb_infixture_module/">http://www.hubbell-automation.com/products/wihubb_infixture_module/</a>.</p>
<p><b>Wireless Control</b>          Cat. No. <input type="checkbox"/> WSI-M  <input type="checkbox"/> No Option</p>	<p>Hubbell Building Automation's wiSCAPE™ Fixture Module is a bidirectional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE Fixture Modules communicates wirelessly over a robust 2.4GHz ISM (Industrial, Scientific and Medical) certified meshed radio signal. The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments and challenges the legacy world of wired-systems. wiSCAPE wireless control technology adapts easily to complex automation situations for quick, simple and economical commissioning.</p>

Additional information on controls can be found at <http://www.hubbellighting.com/solutions/controls/>

Type:

Job:

Page: 6 of 6



## Lumen Data

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≥80	≥80	≥70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance		
mA	100,000 hrs	(Calculated L70)
350	93.04%	565,000 Hrs

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	0.54	65
208	0.31	65
240	0.27	65
277	0.23	65
347	0.19	65
480	0.14	65

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	B1 U0 G1	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B2 U0 G1	TBD
4200K	TBD	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B3 U0 G1	TBD
5100K	TBD	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B0 U0 G1	B3 U0 G1	TBD

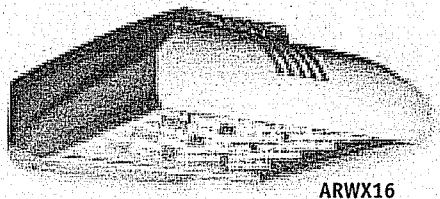
Absolute Lumens								
Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	TBD	3987	3827	3156	3922	3208	3907	TBD
4200K	TBD	5277	5065	4176	5191	4246	5171	TBD
5100K	TBD	5527	5305	4374	5437	4447	5416	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

# ArcheType X™ Wall

## ARWX09, ARWX16, ARWX25

VARIABLE DISTRIBUTION



### FEATURES

- First outdoor LED luminaires with infinitely adjustable LED modules that allow for the creation of custom Type "X" Distributions
- 3 Tenon Mount Housing Sizes – 9, 16 or 25 LEAR Modules
- Each individual LEAR Module allows for 0-70° of tilt and 355° of rotation
- Housing allows for 30° of adjustment (-5° down, +25° up)
- 10,500+, 19,000+ and 30,000+ lumen packages
- 3,000, 4,000 and 5,000k color temperatures

### ORDERING INFORMATION (Example)

<b>ARWX25</b>	<b>D</b>	<b>2</b>	<b>5K60UV</b>	<b>BL</b>	<b>A30</b>	<b>SF</b>	<b>NFO</b>	<b>WIR-RML-IO</b>	<b>EM</b>
<b>FIXTURE</b>		<b>ELECTRICAL MODULE</b>		<b>PHOTOCELL OPTIONS</b>			<b>CONTROLS</b>		
ARWX09 54 LEDs			<u>Color Temperature</u>	<u>Drive Current</u>	<u>Voltage</u>	A25-7 7-pin Photocell Receptacle	<u>Wireless</u>		
ARWX16 96 LEDs			3K 3000K	35 350mA	UV 120-277V	A30 120V Button Photocell	WIR-RML-IO 120 - 347V 1000' range WiScape RF mesh control system with off/on/dim, motion, photo, GPS location, alert, monitoring and metering capabilities.		
ARWX25 150 LEDs			4K 4000K	40 400mA	347 347V	A31 208V Button Photocell	<u>Motion/Occupancy Sensor</u>		
			5K 5000K	45 450mA	480 480V	A32 240V Button Photocell	SCL <sup>4</sup> Fixture Mounted Occupancy Sensor up to 16'		
<b>MOUNT DIRECTION</b>				50 500mA		A33 277V Button Photocell	SCH <sup>4</sup> Fixture Mounted Occupancy Sensor from 16' to 30'		
D Down				55 550mA		A34 480V Button Photocell			
U Up				60 600mA		A35 347V Button Photocell			
				65 650mA <sup>2</sup>					
<b>DISTRIBUTION</b>				70 700mA <sup>2</sup>					
1 Type I						<b>FIXTURE FINISH</b>	<b>FUSE OPTIONS</b>		
2 Type II						BL Black	SF 120, 277, 347 Line Volts		
3 Type III						DB Dark Bronze	DF 208, 240, 480 Line Volts		
4 Type IV						LG Light Gray			
G Grazer						PS Platinum Silver			
W Wall Wash						TT Titanium			
X Custom <sup>1</sup>						WH White			
						CC Custom Color <sup>3</sup>			
							<b>NFO OPTION</b>	<b>BATTERY BACKUP</b>	
							NFO Neighbor Friendly Optic	EM Integral Emergency Battery Backup <sup>5</sup>	

<sup>1</sup> Custom distributions must include custom IES file name.

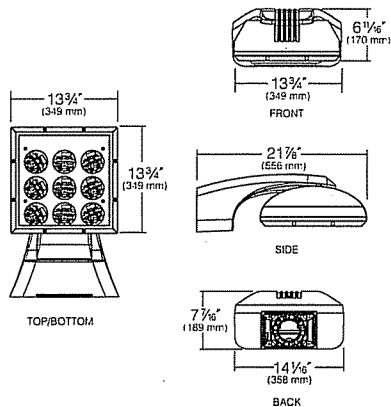
<sup>2</sup> 650mA and 700mA drive current not available on ARWX25.

<sup>3</sup> Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative.

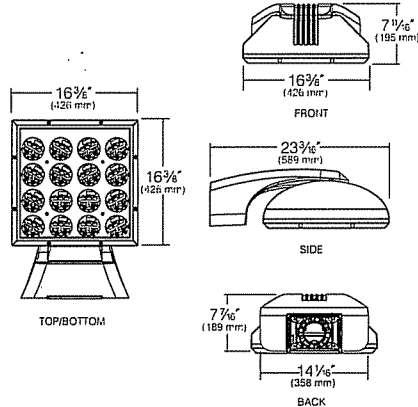
<sup>4</sup> Only applies when mounted in down position.

<sup>5</sup> Battery backup is rated at -45 to 85°C.

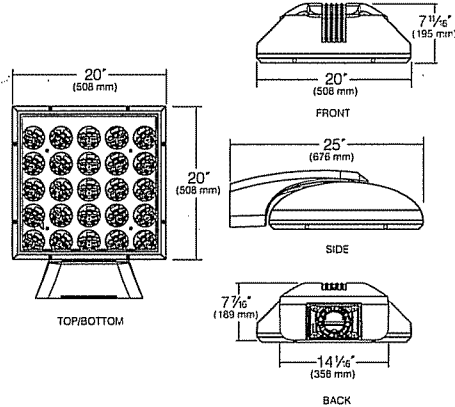
ARFX09



ARFX16



ARFX25



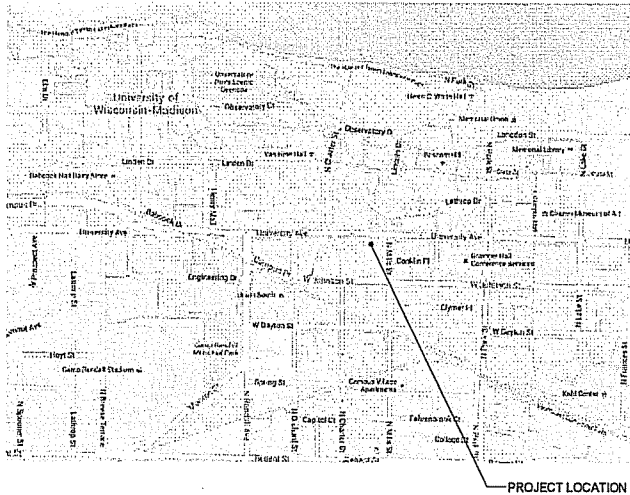


# CHEMISTRY BUILDING ADDITION AND RENOVATION

1101 UNIVERSITY AVENUE  
MADISON, WI

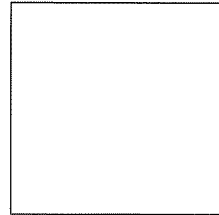
PROJECT NO. : 13B3G

## SITE LOCATION MAP

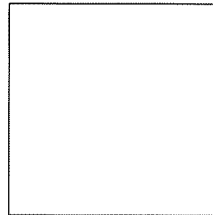


## STAMPS

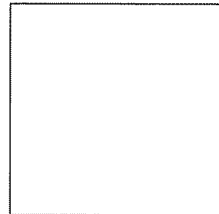
ARCHITECTURAL



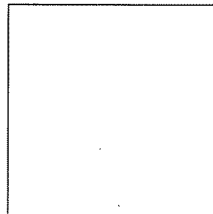
MECHANICAL



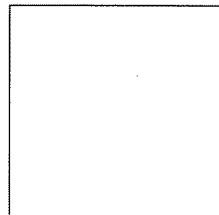
CIVIL



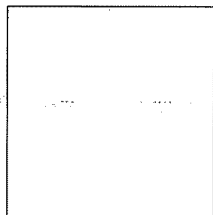
PLUMBING



STRUCTURAL



ELECTRICAL



## DESIGN TEAM

**ARCHITECT OF RECORD**  
STRANG, INC

**ARCHITECTURAL CONSULTANT**  
ARO EBERLE ARCHITECTS

**STRUCTURAL ENGINEERING**  
GRAEF ENGINEERING

**CIVIL ENGINEERING**  
GRAEF ENGINEERING

**LANDSCAPE ARCHITECTURE**  
GRAEF ENGINEERING

**MECHANICAL ENGINEERING**  
AFFILIATED ENGINEERS, INC

**ELECTRICAL ENGINEERING**  
AFFILIATED ENGINEERS, INC

**INFORMATION TECHNOLOGY**  
AFFILIATED ENGINEERS, INC

**PLUMBING ENGINEERING**  
THUNDERBIRD ENGINEERING, INC

**FIRE PROTECTION**  
THUNDERBIRD ENGINEERING, INC

**ARCHITECTURAL DESIGN**  
BALLINGER

**LABORATORY PLANNING AND DESIGN**  
BALLINGER

**BUILDING CODE CONSULTANT**  
JENSEN HUGHES

**COST ESTIMATING**  
MIDDLETON CONSTRUCTION CONSULTING

## PROJECT IMAGE



## SHEET INDEX

**GENERAL**  
T000 COVER SHEET

**CIVIL**  
C300 SITE LAYOUT PLAN  
C400 SITE GRADING PLAN  
C500 SITE UTILITY PLAN

**LANDSCAPE**  
L200 LANDSCAPE PLAN

**ARCHITECTURAL**  
A10S.1 FLOOR PLAN - SUB-BASEMENT - TOWER  
A10S.2 FLOOR PLAN - SUB-BASEMENT - DANIELS  
A100 FLOOR PLAN - BASEMENT - TOWER  
A100-d FLOOR PLAN - BASEMENT - DANIELS  
A101 FLOOR PLAN - 1ST FLOOR - TOWER  
A101-d FLOOR PLAN - 1ST FLOOR - DANIELS  
A102 FLOOR PLAN - 2ND FLOOR - TOWER  
A102-d FLOOR PLAN - 2ND FLOOR - DANIELS  
A104 FLOOR PLAN - 4TH FLOOR - TOWER  
A105 FLOOR PLAN - 5TH FLOOR - TOWER  
A105-6 FLOOR PLAN - 6TH FLOOR FIT OUT - TOWER  
A107-7 FLOOR PLAN - 7TH FLOOR FIT OUT - TOWER  
A108-8 FLOOR PLAN - 8TH FLOOR FIT OUT - TOWER  
A109 FLOOR PLAN - 9TH FLOOR - TOWER  
A401 EXTERIOR NORTH ELEVATION - TOWER  
A401-d EXTERIOR EAST ELEVATION - DANIELS  
A402 EXTERIOR EAST ELEVATION - TOWER  
A403 EXTERIOR SOUTH ELEVATION - TOWER  
A404 EXTERIOR WEST ELEVATION - TOWER  
A405 EXTERIOR EAST ELEVATION - DANIELS

**ELECTRICAL**  
E012 ELECTRICAL SITE LIGHTING PLAN  
E200 ELECTRICAL SITE PHOTOMETRICS



**STRANG**

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
TEL: 608 278 5200

**BALLINGER**

1 830 CHESTNUT ST. SUITE 1400  
PHILADELPHIA, PA 19107  
T 215 446 0000  
F 215 446 0001  
BALLINGER-AR.COM

Consultant:

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)



Project Address:  
1101 UNIVERSITY AVENUE  
MADISON, WI

Project Title:  
CHEMISTRY BUILDING  
ADDITION AND RENOVATION  
UNIVERSITY OF WISCONSIN-MADISON

Sheet Title:  
COVER SHEET

Revisions

No. Date Description

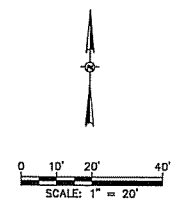
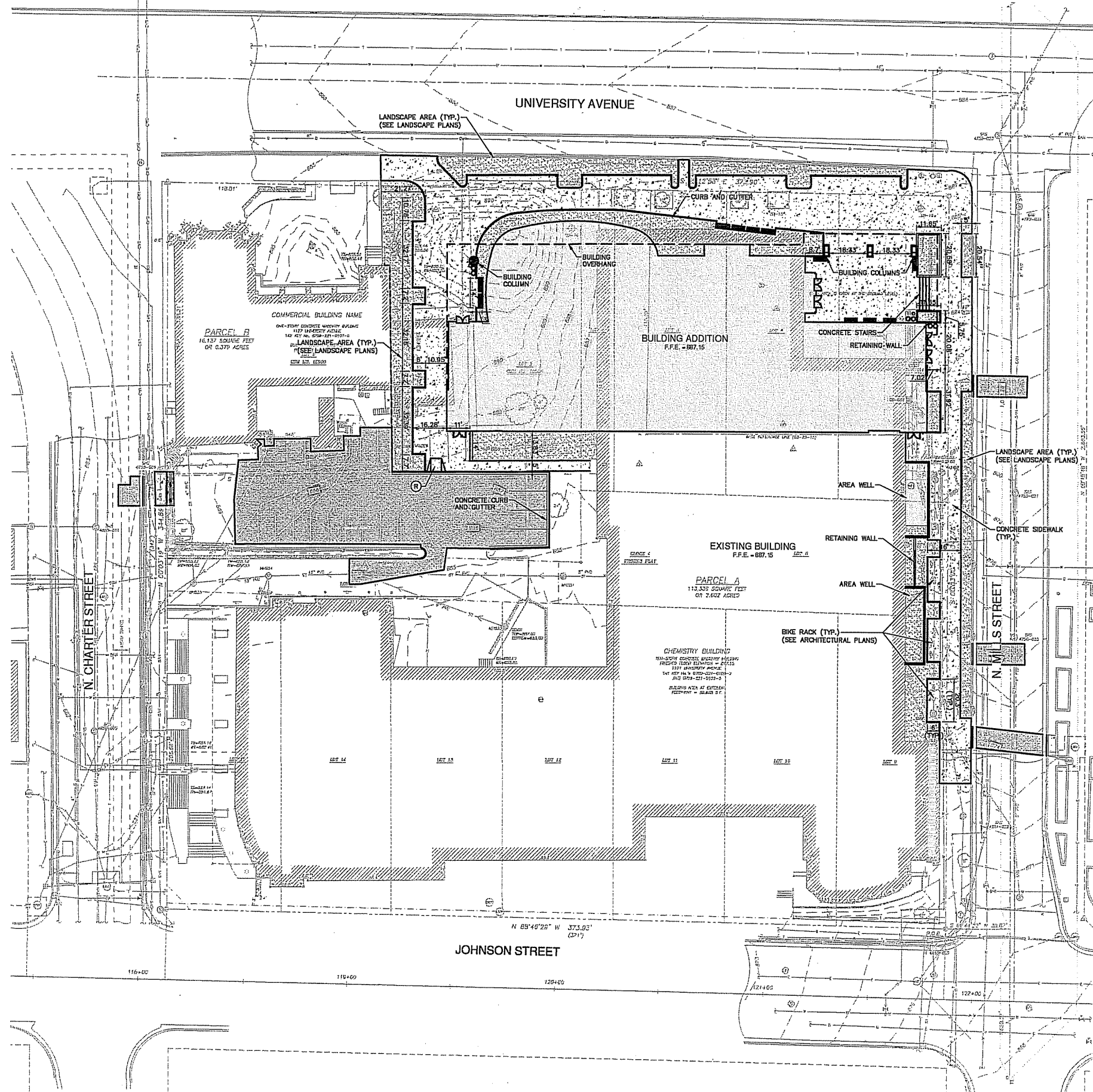
Graphic Scale N/A

DFD Number 13B3G

Set Type CITY REVIEW

Date Issued 09/21/2016

Sheet Number T000



- LEGEND**
- PROPOSED ASPHALT PAVEMENT
  - PROPOSED LANDSCAPE AREA
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED VERTICAL CURB
  - PROPOSED ADA RAMP WITH TRUNCATED DOMES

**GENERAL NOTES**

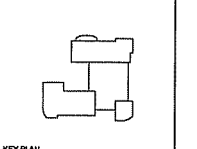
1. SEE SHEET C100 FOR GENERAL NOTES.

**LAYOUT NOTES**

1. THE BUILDING OUTLINES SHOWN ARE FOR REFERENCE PURPOSES ONLY AND SHALL NOT BE USED FOR STAKING PURPOSES. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER ON THE STAKING OF THE BUILDING.
2. SITE LIGHTS ARE SHOWN FOR REFERENCE PURPOSES ONLY AND THE CONTRACTOR SHALL REFER TO THE ELECTRICAL PLANS FOR DETAIL DESIGN INFORMATION. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER ON STAKING OF THE SITE LIGHTS.
3. ALL DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT OR FACE OF CURB WHERE CONCRETE CURB IS SHOWN.
4. STANDARD CURB RADIUS IS 3' UNLESS INDICATED OTHERWISE.
5. ALL PAVEMENT STRIPING SHALL BE WHITE IN COLOR.
6. REFER TO LANDSCAPING PLANS FOR SITE RESTORATION INFORMATION AND DETAILS.
7. HANDICAP PARKING STALLS SHALL BE FURNISHED WITH A CONCRETE WHEEL STOP WHEN ADJACENT TO FLUSH CONCRETE CURB AND GUTTER.
8. CONTRACTOR SHALL SUBMIT A CONCRETE JOINTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION. JOINTING PLAN SHALL INDICATE POUR SEQUENCE, LOCATION OF CONSTRUCTION, ISOLATION, CONTRACTION JOINTS, AND TYPE OF REINFORCEMENT.



Consultant:  
**GRAEF**  
 125 South 84th Street, Suite 401  
 Milwaukee, WI 53214-1469  
 414 / 259 1500  
 414 / 259 0037 fax  
 www.graef-usa.com



Project Title:  
**UW CHEMISTRY**  
 Agency/Institution:  
**UNIVERSITY OF WISCONSIN**  
 SHEET TITLE:  
**SITE LAYOUT PLAN**

State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)  
  
 Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Revisions	
No.	Description:

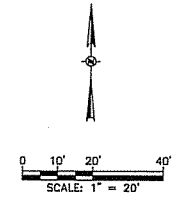
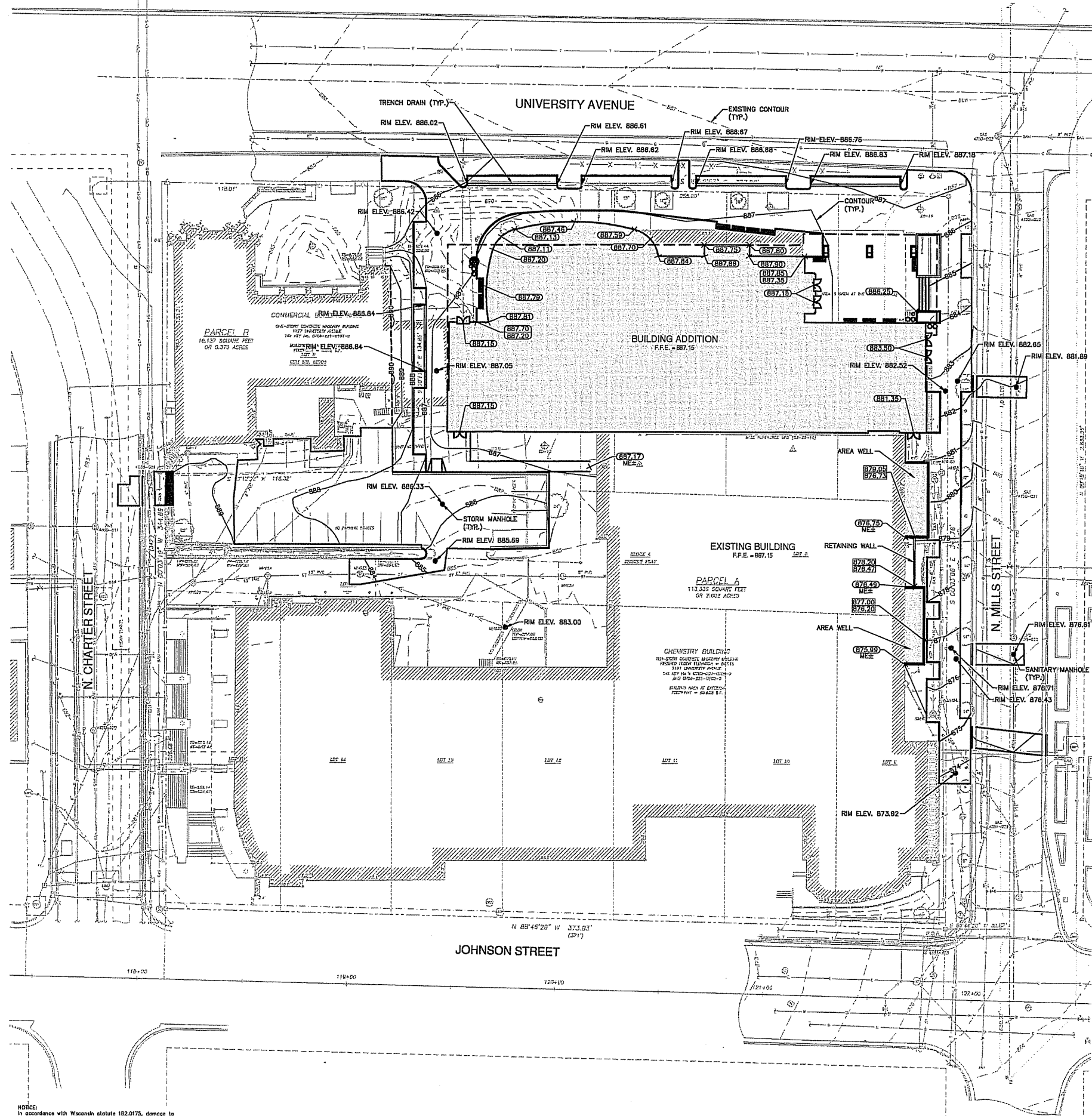
Graphic Scale	
DFD Number	1383G
Set Type	PR
Date Issued	8/28/2016
Sheet Number	C300

**NOTICE:**  
 In accordance with Wisconsin statute 182.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

**DISCLAIMER:**  
 The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

X:\IND\2016\20160809\CAD\Site\dwg\00C\_00\_C200\_Layout\_5056.dwg  
 9/19/2016 1:27 PM



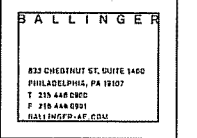


- LEGEND**
- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - PROPOSED VERTICAL CURB
  - PROPOSED MANHOLE
  - PROPOSED CATCH BASIN
  - PROPOSED ADA RAMP WITH TRUNCATED DOMES

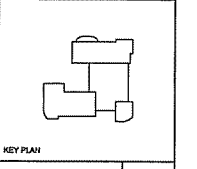
- GENERAL NOTES**
- SEE SHEET C100 FOR GENERAL NOTES.
- GRADING NOTES**
- ADA REGULATIONS REQUIRE A MAXIMUM SLOPE OF 1:20 (5%) ALONG THE LENGTH OF THE ACCESSIBLE ROUTE AND A MAXIMUM SLOPE OF 1:50 (2%) ACROSS THE WIDTH OF THE ACCESSIBLE ROUTE. ADA REGULATIONS REQUIRE A MAXIMUM SLOPE OF 1:50 (2%) IN ALL DIRECTIONS WITHIN AN ADA PARKING STALL AND ADJACENT UNLOADING ZONE.
  - RIM ELEVATIONS IN CURB AND GUTTER ARE FLANGE GRADES.

**NOTICE:**  
 In accordance with Wisconsin statute 182.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

**DISCLAIMER:**  
 The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.



Consultant:  
**GRAEF**  
 125 South 84th Street,  
 Suite 401  
 Milwaukee, WI 53214-1469  
 414 / 259 1500  
 414 / 259 0037 fax  
 www.graef-usa.com



Project Title:  
**State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)**

Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

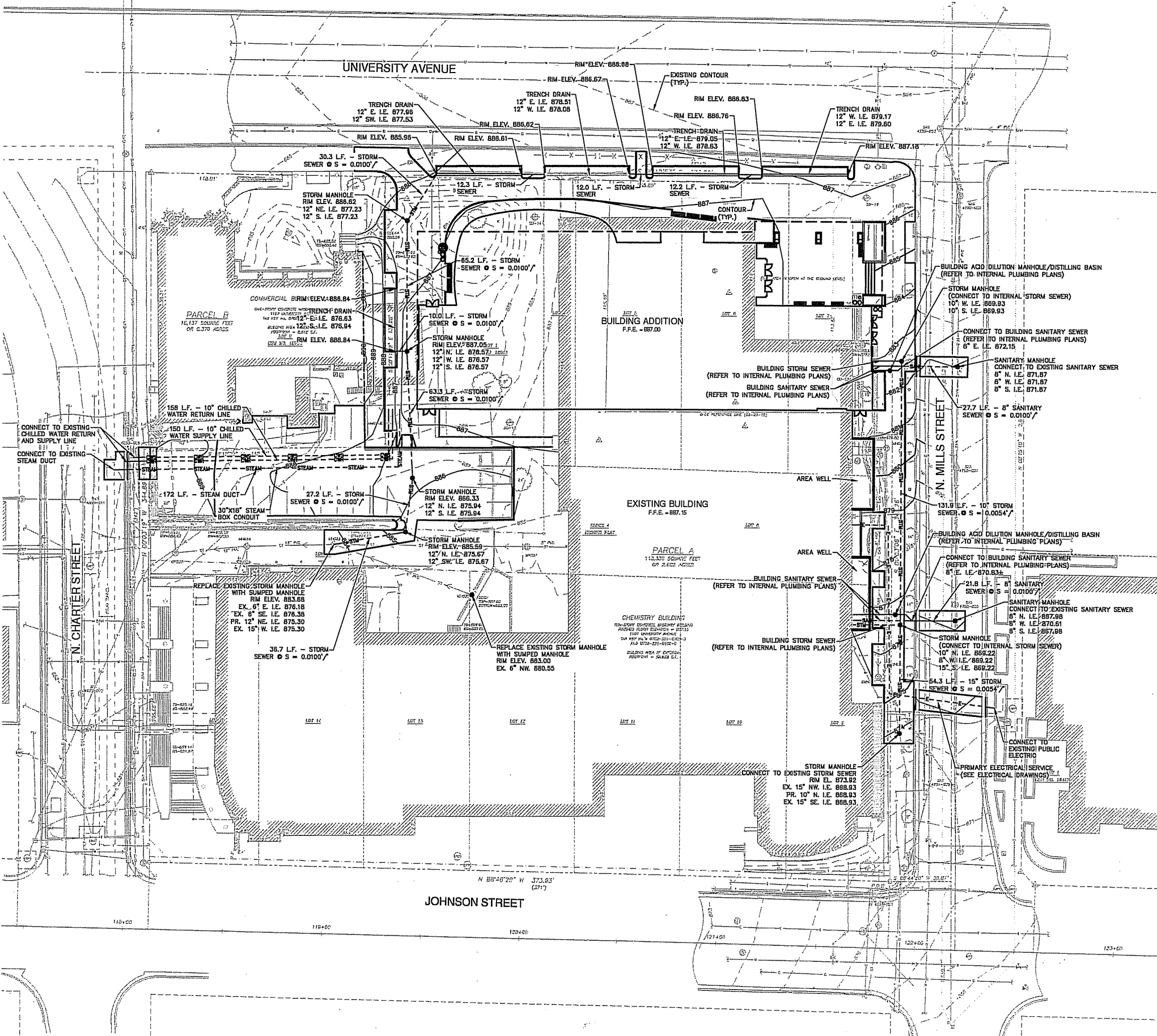
Project Title:  
**UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN**

Sheet Title:  
**SITE GRADING PLAN**

Revisions	
No.	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	8/28/2016
Sheet Number	C400

X:\MID\01\01\01\01\01\CAD\DWG\0101C\_00\_C300\_Grading\_5056  
 9/19/2016 1:23 PM



**NOTICE:**  
 In accordance with Wisconsin statute 182.075, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

**DISCLAIMER:**  
 The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

- LEGEND**
- PROPOSED STORM SEWER
  - PROPOSED SANITARY SEWER
  - PROPOSED WATER MAIN
  - PROPOSED ELECTRICAL
  - PROPOSED STEAM DUCT
  - PROPOSED CHILLED WATER SUPPLY LINE
  - PROPOSED CHILLED WATER RETURN LINE
  - PROPOSED TELECOM LINE
  - PROPOSED UTILITY EASEMENT
  - PROPOSED MANHOLE
  - PROPOSED CATCH BASIN
  - ▼ PROPOSED GATE VALVE
  - ▼ PROPOSED HYDRANT
  - PROPOSED UTILITY PLUG

**GENERAL NOTES**

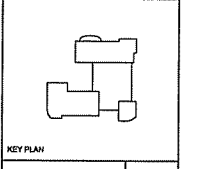
- SEE SHEET C100 FOR GENERAL NOTES.

- UTILITY NOTES**
- CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING INVERTS PRIOR TO INSTALLATION OF PROPOSED UTILITIES.
  - BUILDING LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL AND STATE PLUMBING CODES. SITE UTILITY CONTRACTOR SHALL STUB 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 IN WISCONSIN, LATEST EDITION.
  - CONTRACTOR SHALL CENTER ONE FULL LENGTH OF WATER PIPE ON SEWER AT WATER MAIN CROSSINGS, THAT BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE.
  - 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.
  - ALL SANITARY PRECAST MANHOLES SHALL CONFORM TO ASTM C-478 AND SHALL BE A MINIMUM OF 48-INCH DIAMETER WITH ECCENTRIC CONE TYPE PRECAST TOPS AND SHALL BE FITTED WITH AN EXTERNAL SEAL. FLAT TOP SLABS SHALL BE USED ONLY WITH APPROVAL OF THE VILLAGE ENGINEER.
  - CONTRACTOR SHALL PROVIDE DRAIN TILE AT ALL PROPOSED CATCH BASINS. SEE PLAN VIEW FOR DETAIL DESIGN INFORMATION.
  - BUILDING ROOF DRAINS SHALL BE SDR-35, ASTM D3034, PVC, UNLESS OTHERWISE NOTED.
  - RIM ELEVATIONS IN CURB AND GUTTER ARE FLANGE GRADES.
  - PIPE LENGTHS AND INVERTS ARE TO CENTER OF STRUCTURES.
  - CRUSHED STONE BACKFILL SHALL BE USED UNDER AND WITHIN 5' OF ALL PAVED AREAS.

**STRANG**  
 ARCHITECTURE  
 ENGINEERING  
 INTERIOR DESIGN  
 8411 MENARD POINT ROAD  
 MADISON, WI 53705-4305  
 T 608.278.0200

**BALLINGER**  
 823 CHESTNUT ST. SUITE 1400  
 PHILADELPHIA, PA 19107  
 T 215.444.5900  
 F 215.444.0900  
 BALLINGER@A-E.COM

Consultant:  
**GRÄEF**  
 125 South 84th Street,  
 Suite 401  
 Milwaukee, WI 53214-1469  
 414 / 259 1500  
 414 / 259 0037 fax  
 www.graef-usa.com



Project Title:  
**UW CHEMISTRY**  
 Agency/Institution:  
**UNIVERSITY OF WISCONSIN**  
 Street Title:  
**SITE UTILITY PLAN**

Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Revisions

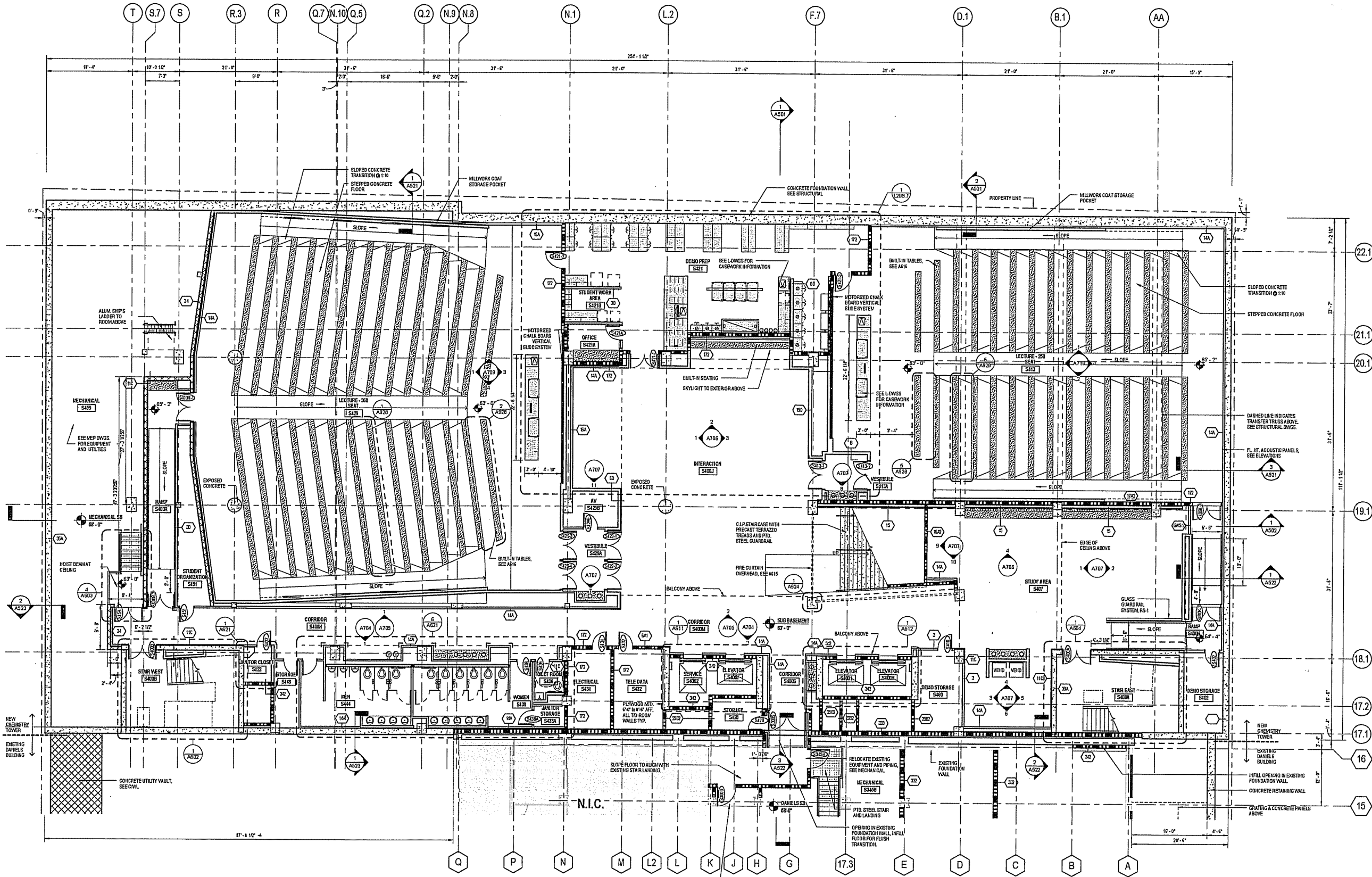
No.	Date:	Description:

Graphic Scale	
DFD Number	1383G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	C500

X:\IND\2016\20165009\CAD\Site\dwg\U00C\_00\_C400\_Utility\_5056  
 9/19/2016 1:01 PM



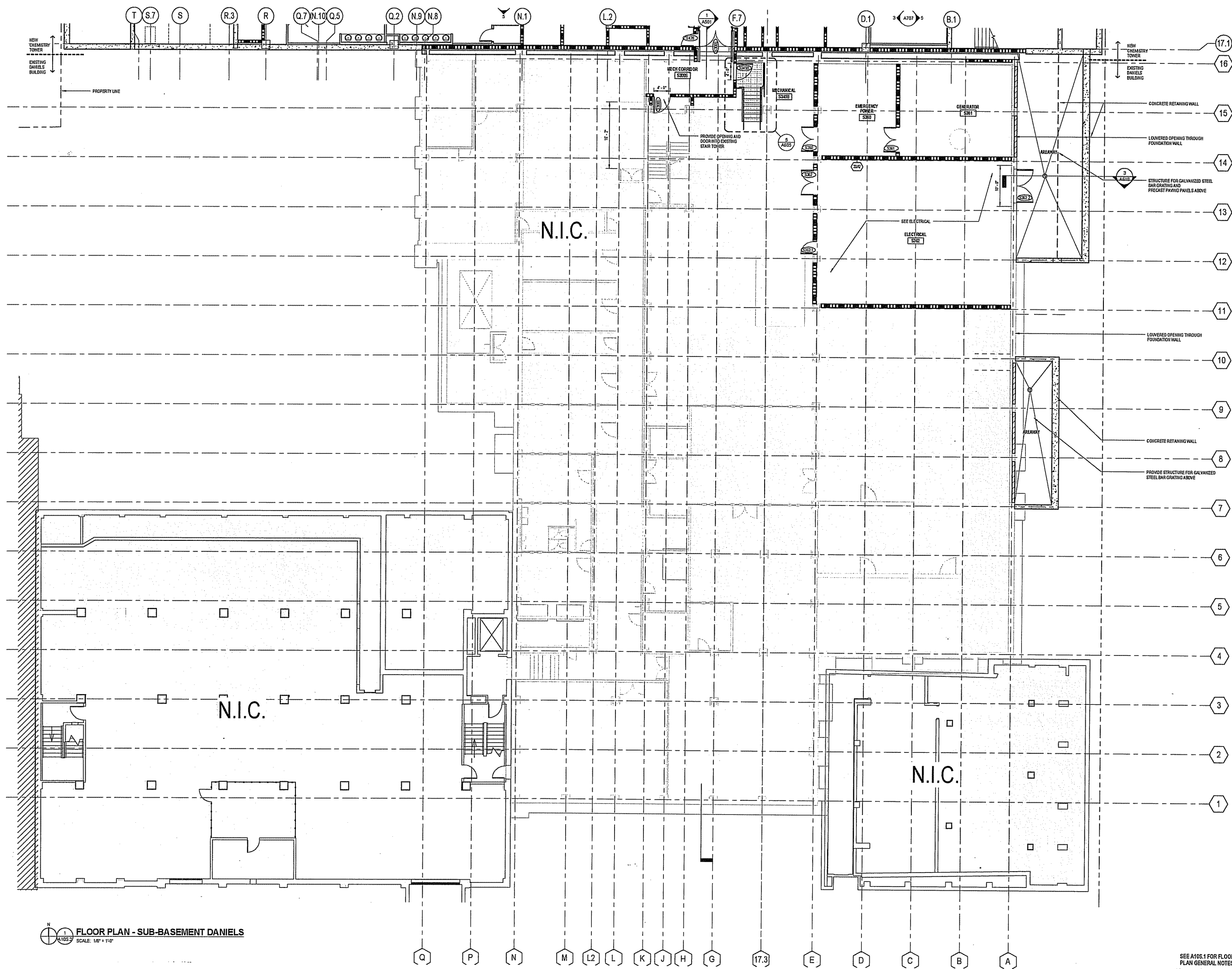




**FLOOR PLAN - SUB-BASEMENT**  
SCALE: 1/8" = 1'-0"

**FLOOR PLAN GENERAL NOTES**

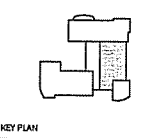
1. PROVIDE CONCEALED BMG WITH PARTITIONS AT ALL WALL-MOUNTED ITEMS, INCLUDING TOILET ACCESSORIES AND EQUIPMENT PROVIDED BY OTHERS. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER ITEMS THAT ARE WALL MOUNTED.
2. GLASS GUARDRAILS TO TERMINATE 1/4" FROM FACE OF INTERSECTING PARTITION, TYP.
3. SHADED AREA NOT INCLUDED.
4. UNO, ALL WALLS SHALL BE PAINTED QWB ON 2" METAL STUDS THAT EXTEND FROM FLOOR TO UNDERSIDE OF STRUCTURE FLOOR ABOVE.
5. 3-HOUR SEPARATION BETWEEN THE NEW BUILDING AND DANIELS IS TO BE CMU CONSTRUCTION, GROUTED SOLID AND IS TO EXTEND FROM FLOOR TO FLOOR.



**STRANG**  
 ARCHITECTURE  
 ENGINEERING  
 INTERIOR DESIGN  
 5411 MINERAL POINT ROAD  
 MADISON, WI 53705-4255  
 (608) 278-8200

**BALLINGER**  
 422 CHESTNUT ST., SUITE 1402  
 PHILADELPHIA, PA 19107  
 T 215 446 0200  
 F 215 446 0901  
 BALLINGER-AE.COM

Consultant:  
 State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)



State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)  
 Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
 UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN  
 Sheet Title:  
 FLOOR PLAN - SUB-BASEMENT-DANIELS

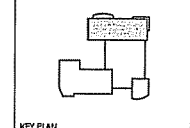
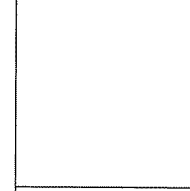
Revisions	
No.	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	02/28/2016
Sheet Number	A10S.2

**FLOOR PLAN - SUB-BASEMENT DANIELS**  
 SCALE: 1/8" = 1'-0"

SEE A10S.1 FOR FLOOR PLAN GENERAL NOTES

Consultant:



KEY PLAN

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)  
Project Address:  
1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

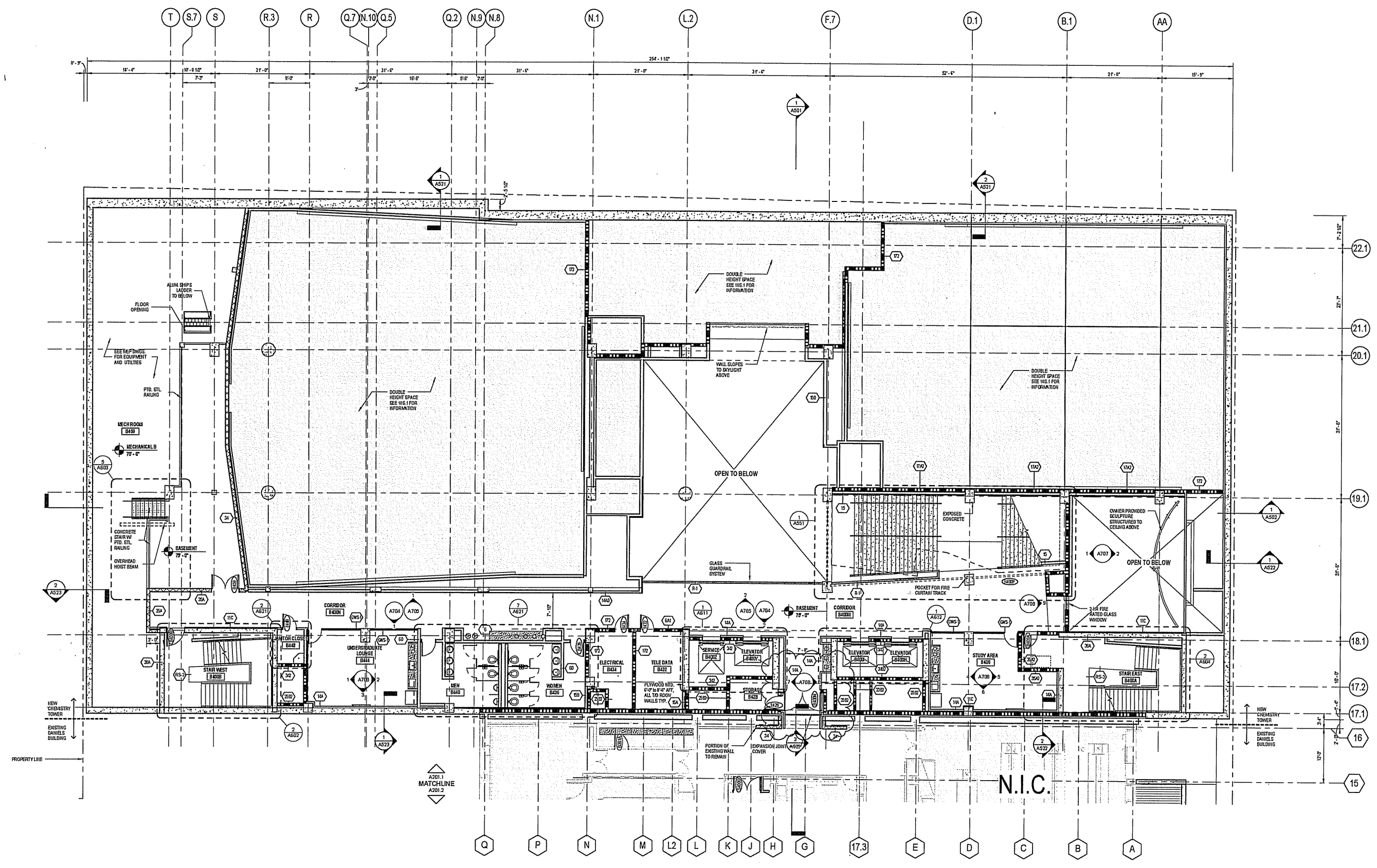
Project Title:  
UW CHEMISTRY  
Agency/Institution:  
UNIVERSITY OF WISCONSIN

Sheet Title:  
FLOOR PLAN - BASEMENT-TOWER

Revisions	
No.	Description
1	Revision 1

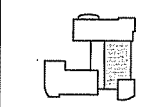
Graphic Scale	
DFD Number	1393G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A100

SEE A100.1 FOR FLOOR PLAN GENERAL NOTES



**FLOOR PLAN - BASEMENT**  
SCALE: 1/8" = 1'-0"





KEY PLAN

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)



Project Address:  
1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

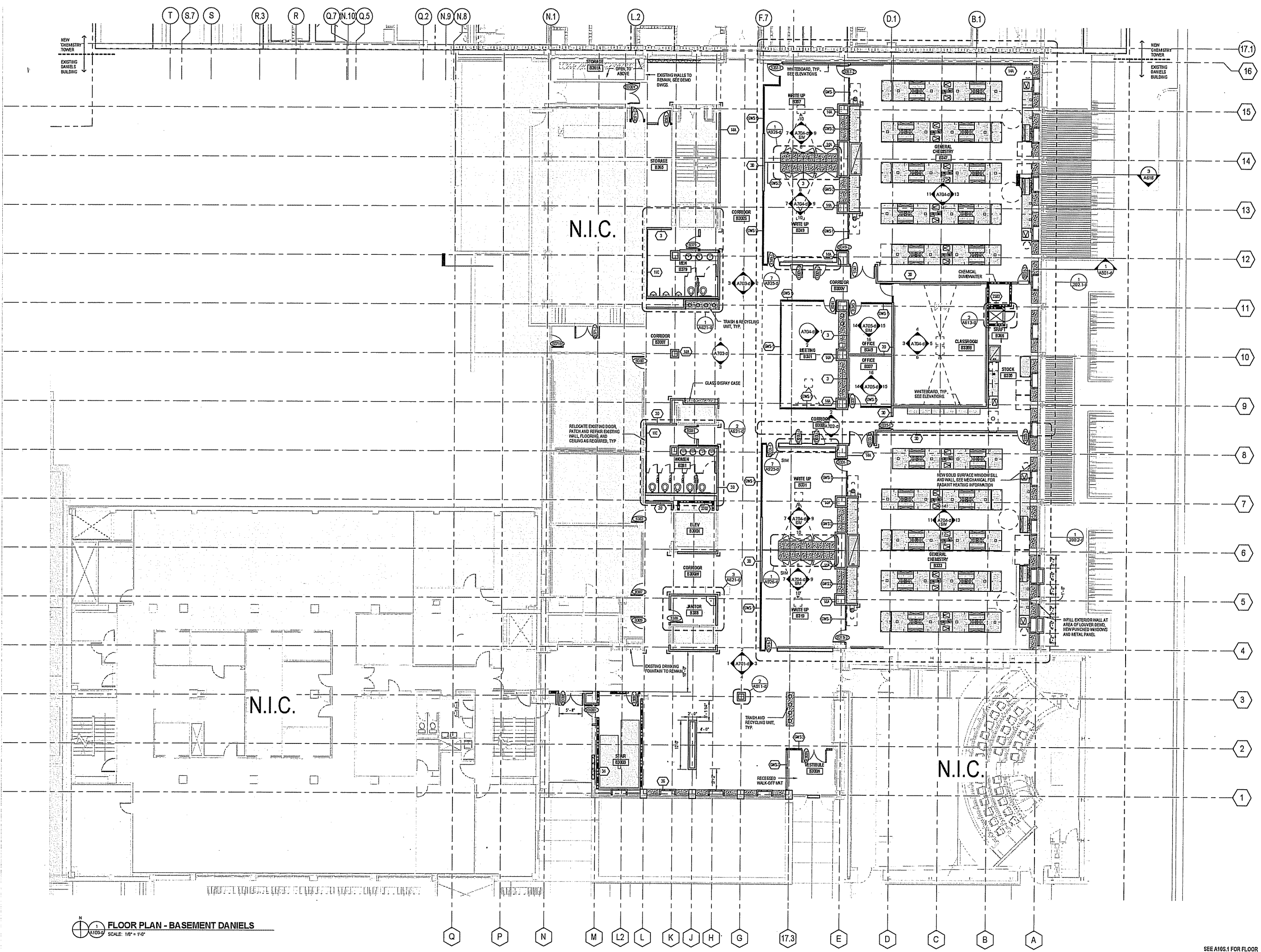
Project Title:  
UW CHEMISTRY  
Agency/Institution:  
UNIVERSITY OF WISCONSIN

Sheet Title:  
FLOOR PLAN - BASEMENT-DANIELS

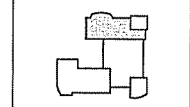
Revisions	
No.	Description

Graphic Scale	
DFD Number	1393G
Set Type	PR
Date Issued	8/28/2016
Sheet Number	A100-d

SEE A100.1 FOR FLOOR PLAN GENERAL NOTES

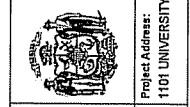


**FLOOR PLAN - BASEMENT DANIELS**  
SCALE: 1/8" = 1'-0"



KEY PLAN

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)



Project Address:  
1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

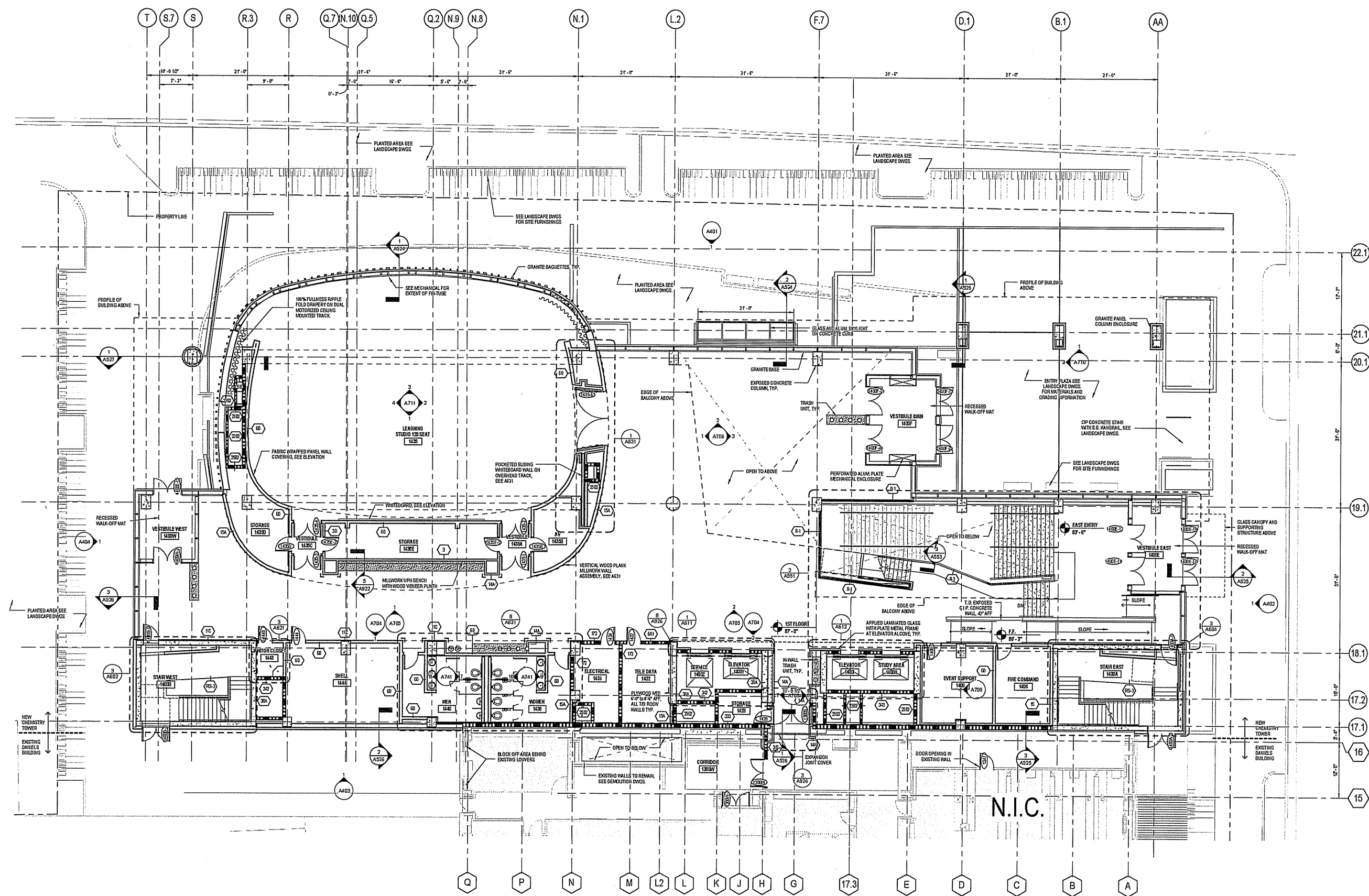
Project Title:  
UW CHEMISTRY  
Agency/Institution:  
UNIVERSITY OF WISCONSIN

Street Title:  
FLOOR PLAN - 1ST FLOOR-TOWER

Revisions	
No.	Description:

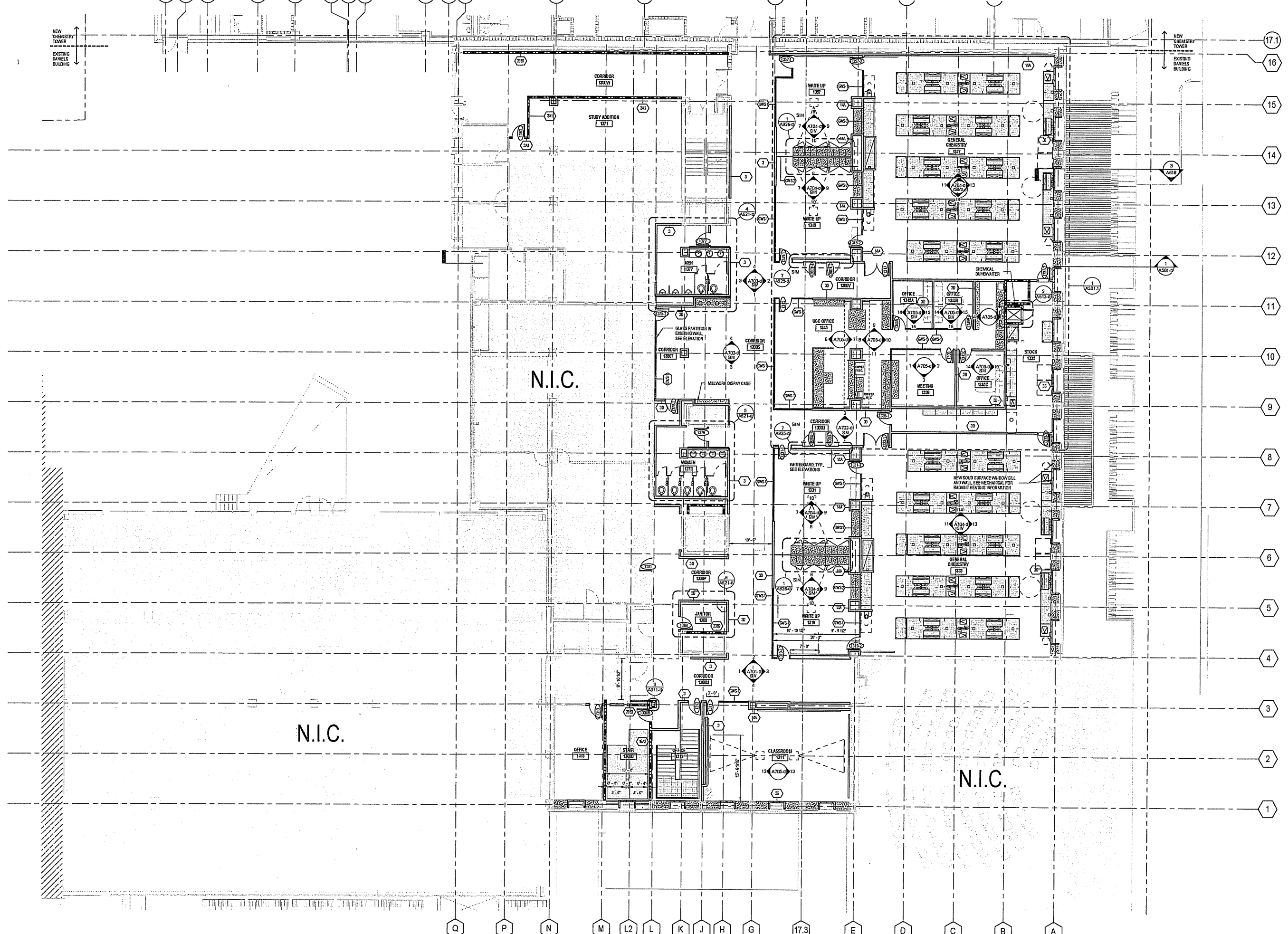
Graphic Scale	
DFD Number	1383G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A101

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



**FLOOR PLAN - 1ST FLOOR**  
SCALE: 1/8" = 1'-0"

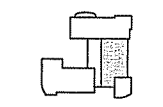
N.I.C.



**STRANG**  
 ARCHITECTURE  
 ENGINEERING  
 INTERIOR DESIGN  
 5411 MINERAL POINT ROAD  
 MADISON, WI 53705-4355  
 760.775.8200

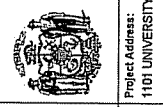
**BALLINGER**  
 1 832 CHESTNUT ST., SUITE 1400  
 PHILADELPHIA, PA 19107  
 T 215 448 8800  
 F 215 448 8801  
 BALLINGER-AE.COM

Consultant:



KEY PLAN

State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)



Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

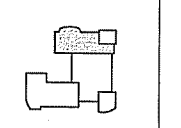
Project Title:  
 UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN  
 Sheet Title:  
 FLOOR PLAN - 1ST FLOOR DANIELS

Revisions	
No.	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A101-d


**FLOOR PLAN - 1ST FLOOR DANIELS**  
 SCALE: 1/8" = 1'-0"

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



KEY PLAN

State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)



Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
 UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN

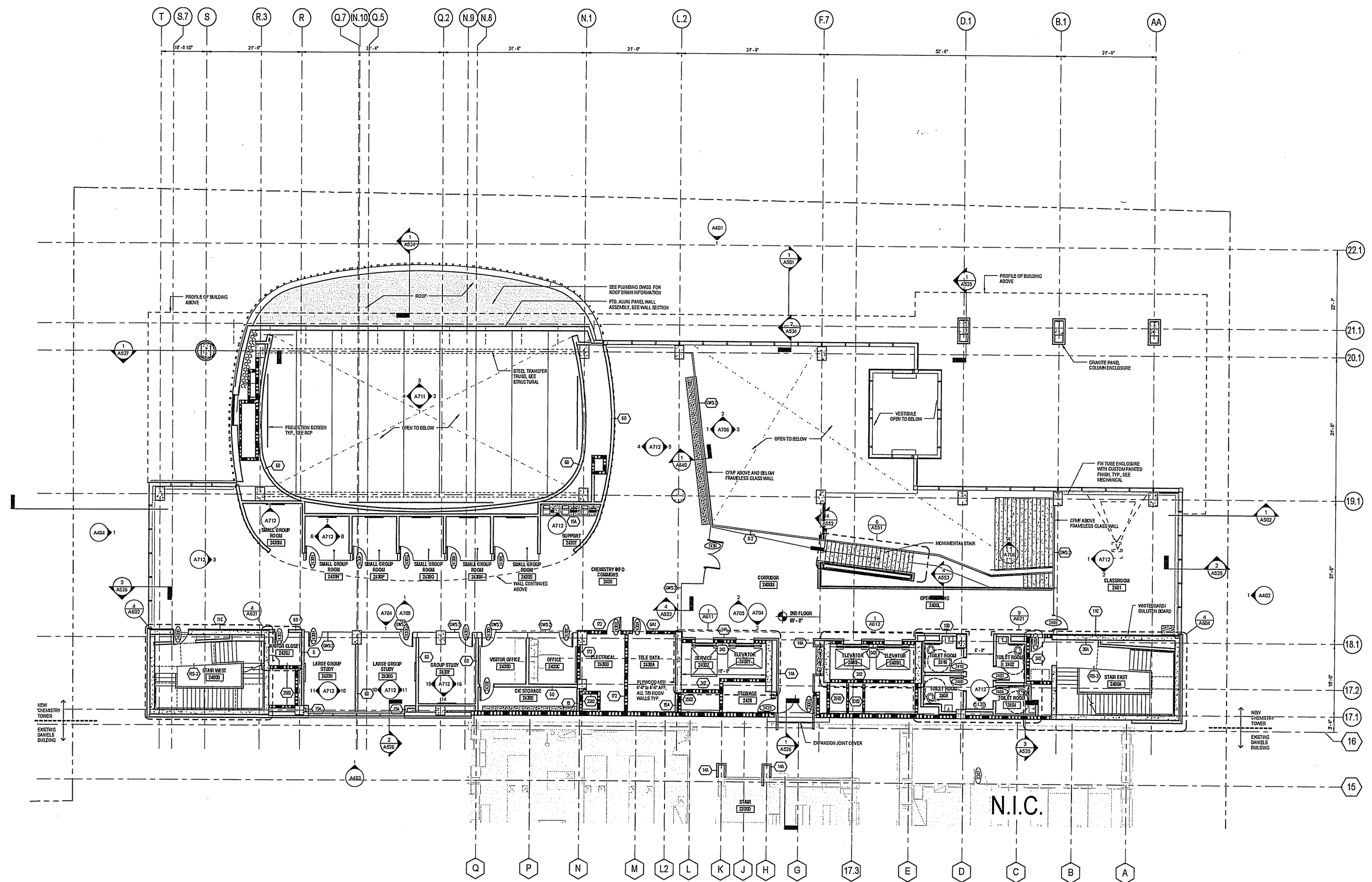
Sheet Title:  
 FLOOR PLAN - 2ND FLOOR-TOWER

Revisions	
No.	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	8/28/2016

Sheet Number	A102
--------------	------

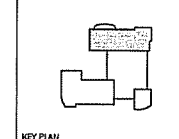
SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



**FLOOR PLAN - SECOND FLOOR**  
 SCALE: 1/8" = 1'-0"

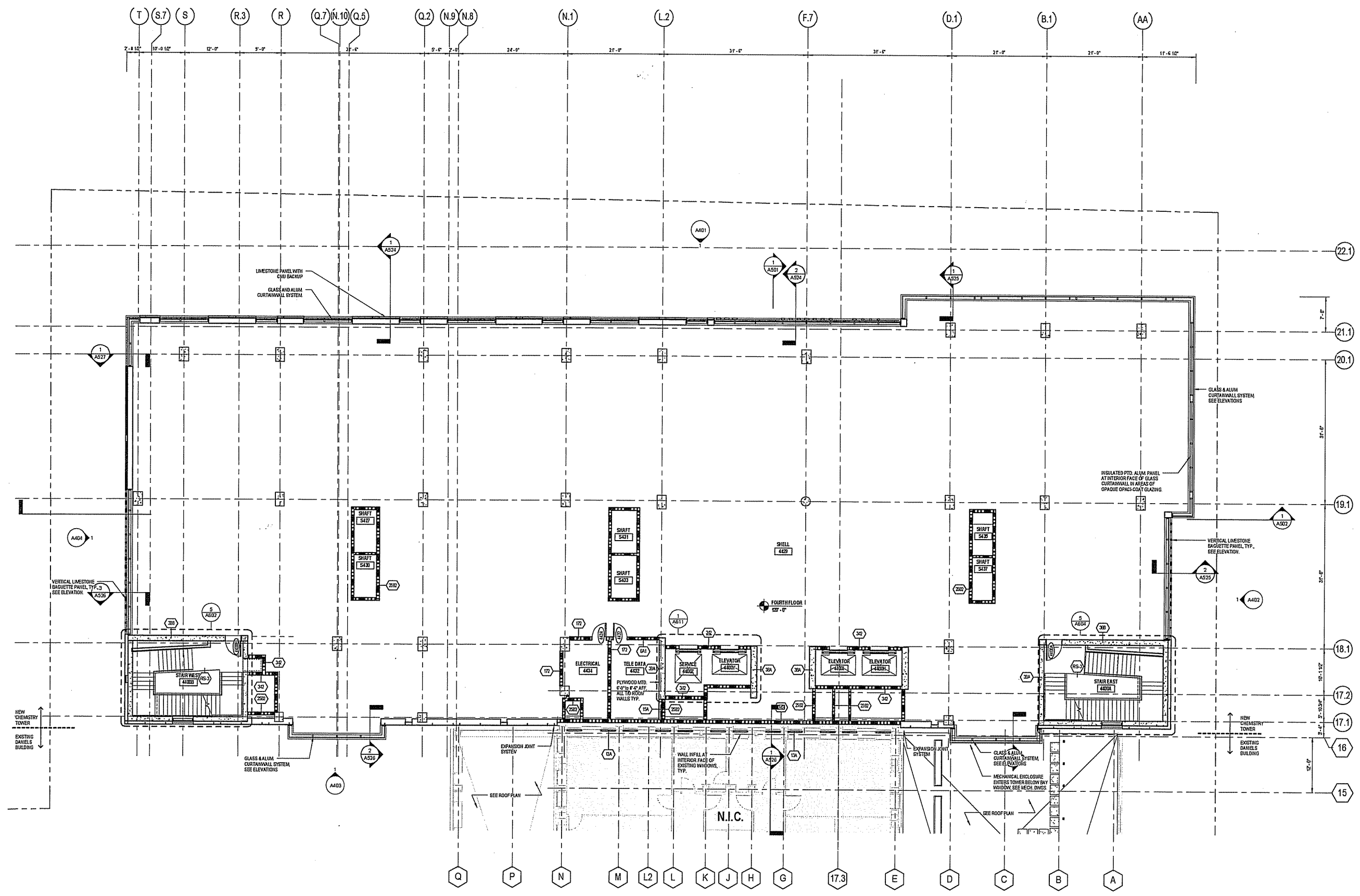






Revisions	
No.	Description:

Graphic Scale	
DFD Number	1383G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A104



**FLOOR PLAN - FOURTH FLOOR**  
 SCALE: 1/8" = 1'-0"

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



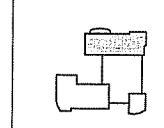
**STRANG**  
ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

3411 MEXICAL POINT ROAD  
MADISON, WI 53704-4293  
7608 376 9200

**BALLINGER**

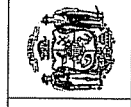
102 CHESTNUT ST., SUITE 1400  
PHILADELPHIA, PA 19102  
T 215 448 0900  
F 215 448 0901  
BALLINGER-AE.COM

Consultant:



KEY PLAN

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)



Project Address:  
1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
UW CHEMISTRY  
Agency/Institution:  
UNIVERSITY OF WISCONSIN

Sheet Title:  
FLOOR PLAN - 5TH FLOOR-TOWER

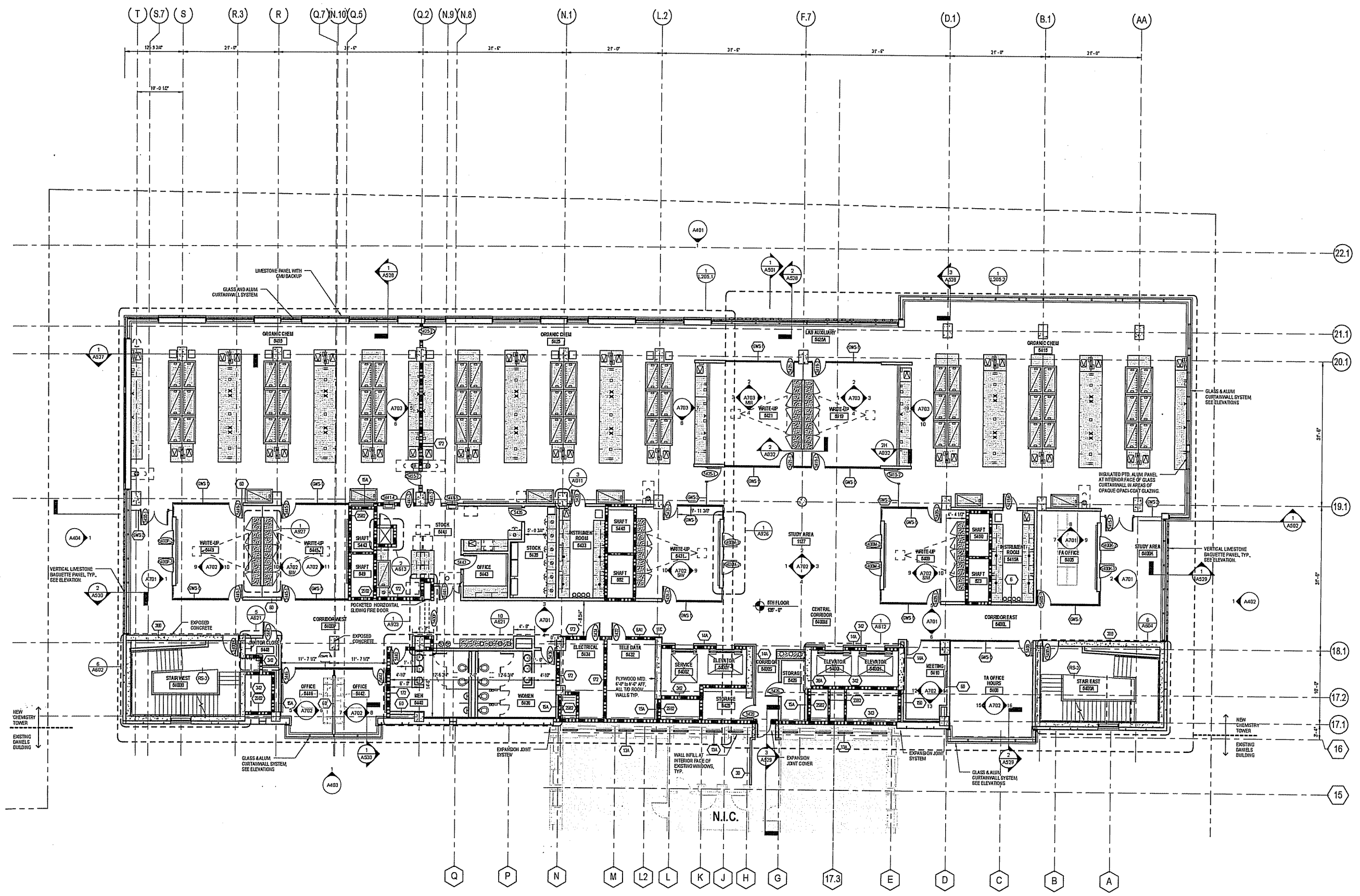
Revisions	
No.	Description:

Graphic Scale:

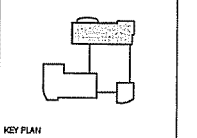
DFD Number	13B3G
Set Type	PR
Date Issued	9/28/2016

Sheet Number: **A105**

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



**FLOOR PLAN - FIFTH FLOOR**  
SCALE: 1/8" = 1'-0"



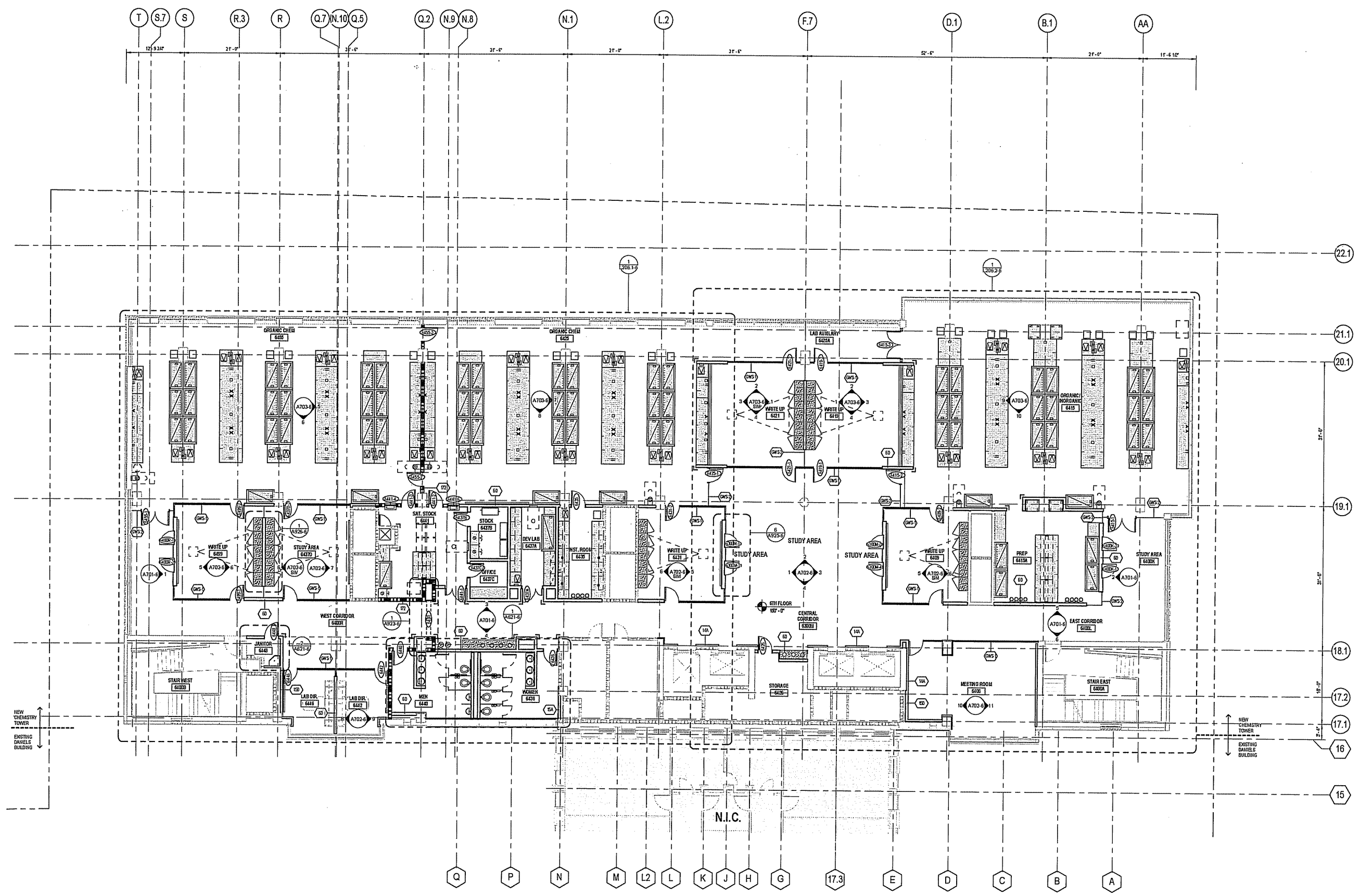
State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)  
 Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
 UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN  
 Sheet Title:  
 FLOOR PLAN - 6TH FLOOR FIT OUT-TOWER

Revisions	
No.	Description

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A106-6

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



**FLOOR PLAN - SIXTH FLOOR**  
 SCALE: 1/8" = 1'-0"

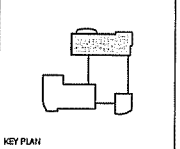


**STRANG**  
ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

8411 MINERAL POINT ROAD  
MADISON, WI 53704-4253  
7600 375 8200

**BALLINGER**

823 CHESTNUT ST. SUITE 1400  
PHILADELPHIA, PA 19107  
T: 215 446 0300  
F: 215 446 0901  
BALLINGER-AE.COM



State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)

Project Address:  
1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

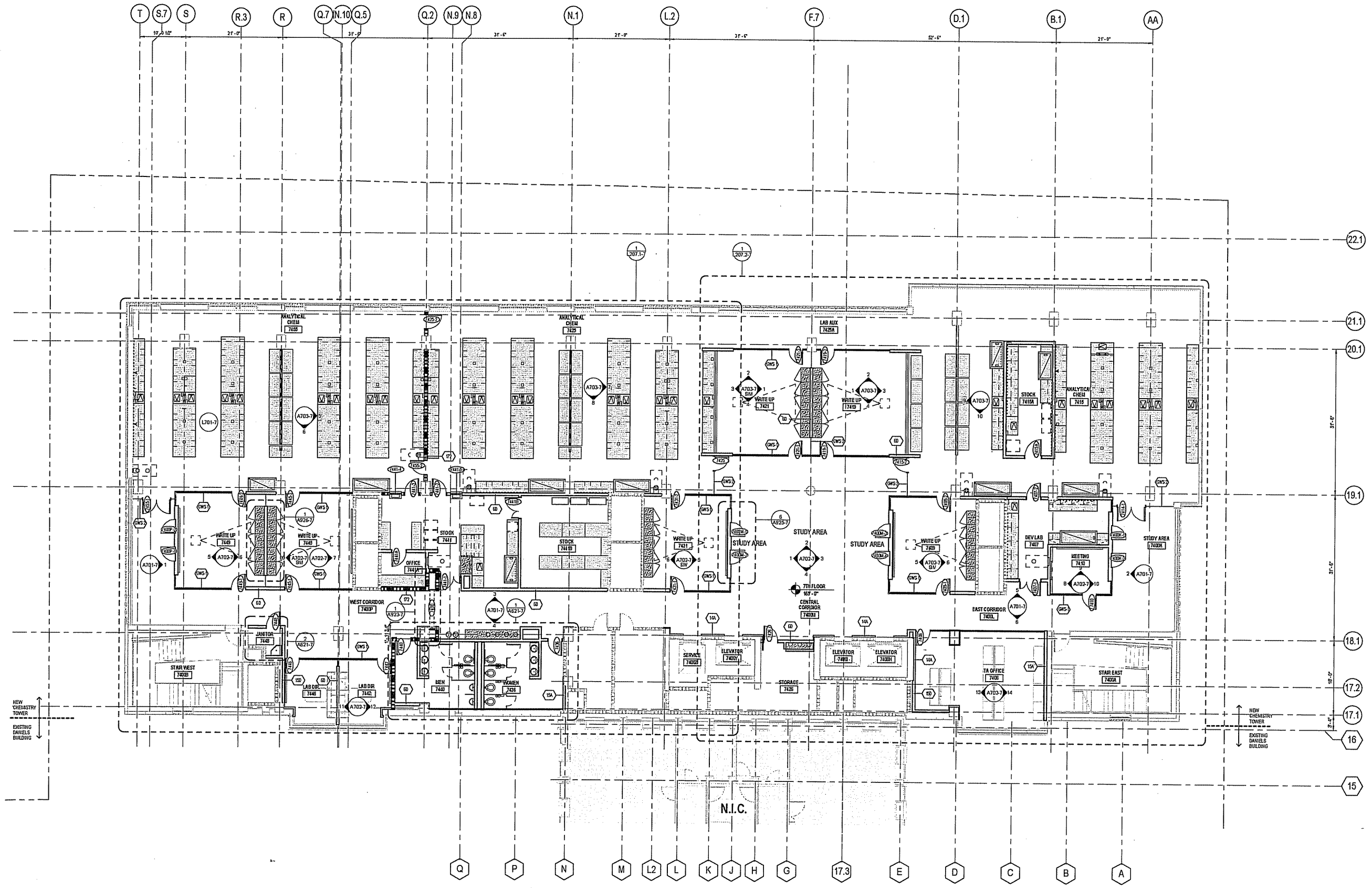
Project Title:  
UW CHEMISTRY  
Agency/Institution:  
UNIVERSITY OF WISCONSIN

Sheet Title:  
FLOOR PLAN - 7TH FLOOR FIT OUT-TOWER

Revisions	
No.	Date: Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A107-7

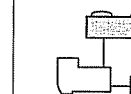


**FLOOR PLAN - SEVENTH FLOOR**  
SCALE: 1/8" = 1'-0"

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



Consultant:



KEY PLAN

State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)



Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
 UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN

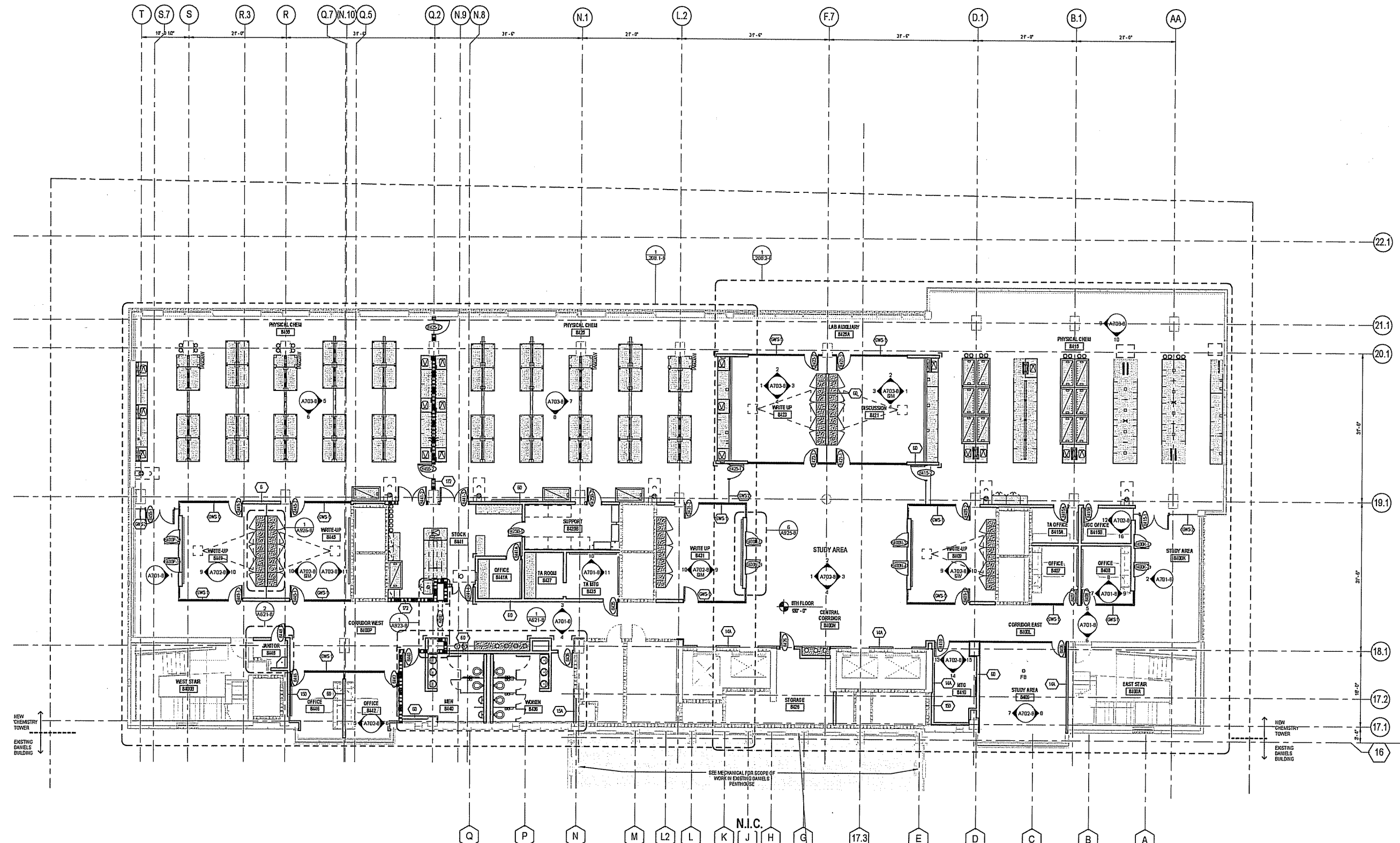
Sheet Title:  
 FLOOR PLAN - 8TH FLOOR FIT OUT-TOWER

Revisions

No. Date Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A108-8

SEE A108.1 FOR FLOOR PLAN GENERAL NOTES

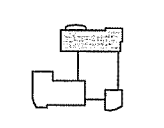


**FLOOR PLAN - 8TH FLOOR**  
 SCALE: 1/8" = 1'-0"

SEE MECHANICAL FOR SCOPE OF WORK IN EXISTING PANELS PERITHOISE

OPENING IN EXISTING PANELS EXTERIOR, REPAIR EXISTING WALL AS REQUIRED TO MAINTAIN THERMAL AND MOISTURE PROTECTION. EXTEND EXISTING FLOOR SLAB TO MEET FLOOR OF NEW ADDITION. PROVIDE EXPANSION JOINTS AT FLOOR, CEILING AND WALLS.

Consultant:



KEY PLAN

State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)  
 Project Address:  
 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
 UW CHEMISTRY  
 Agency/Institution:  
 UNIVERSITY OF WISCONSIN  
 Sheet Title:  
 FLOOR PLAN - 9TH FLOOR-TOWER

Revisions

No. Date Description

No.	Date	Description

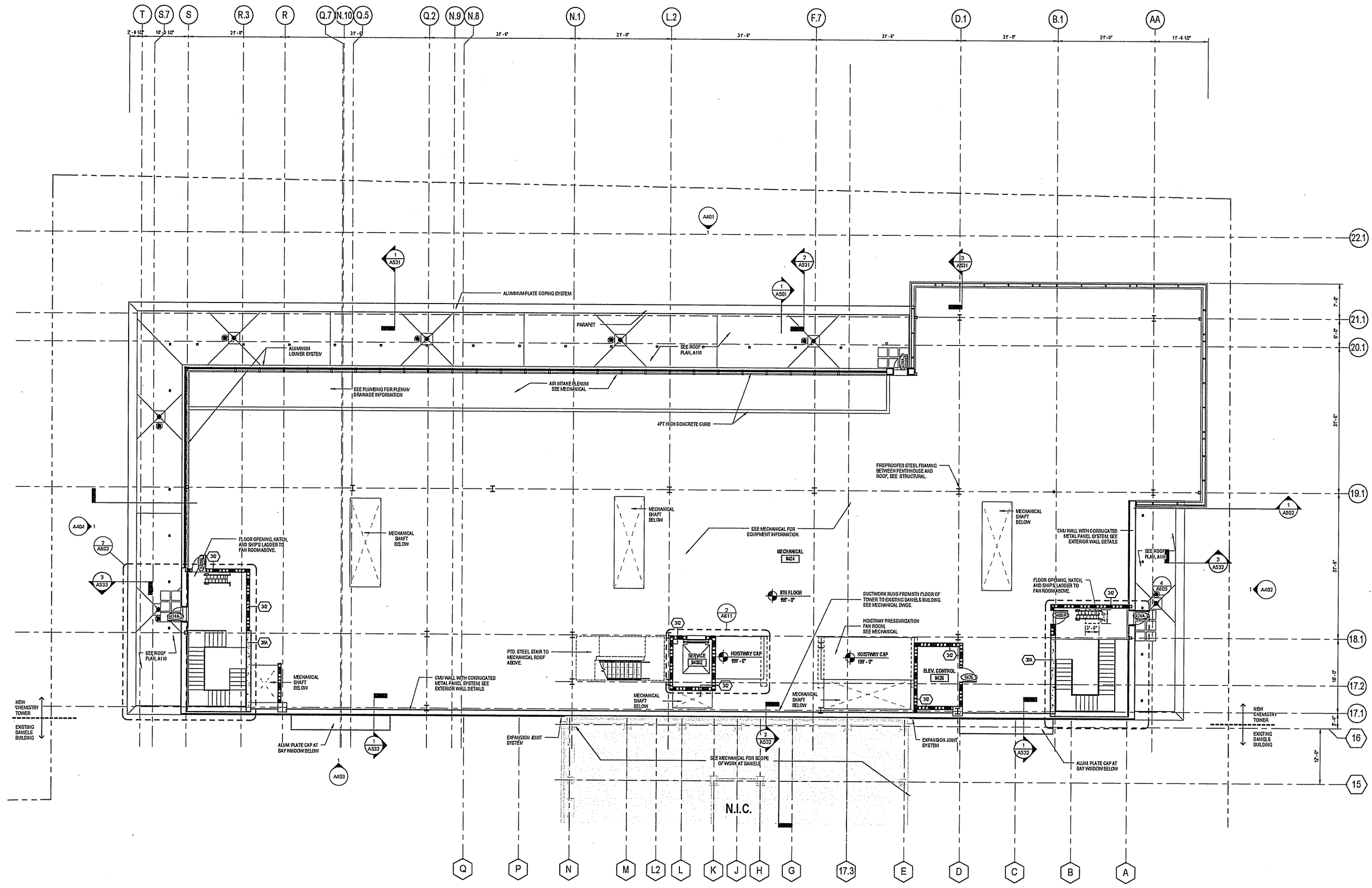
Graphic Scale

DFD Number 13B3G

Set Type PR

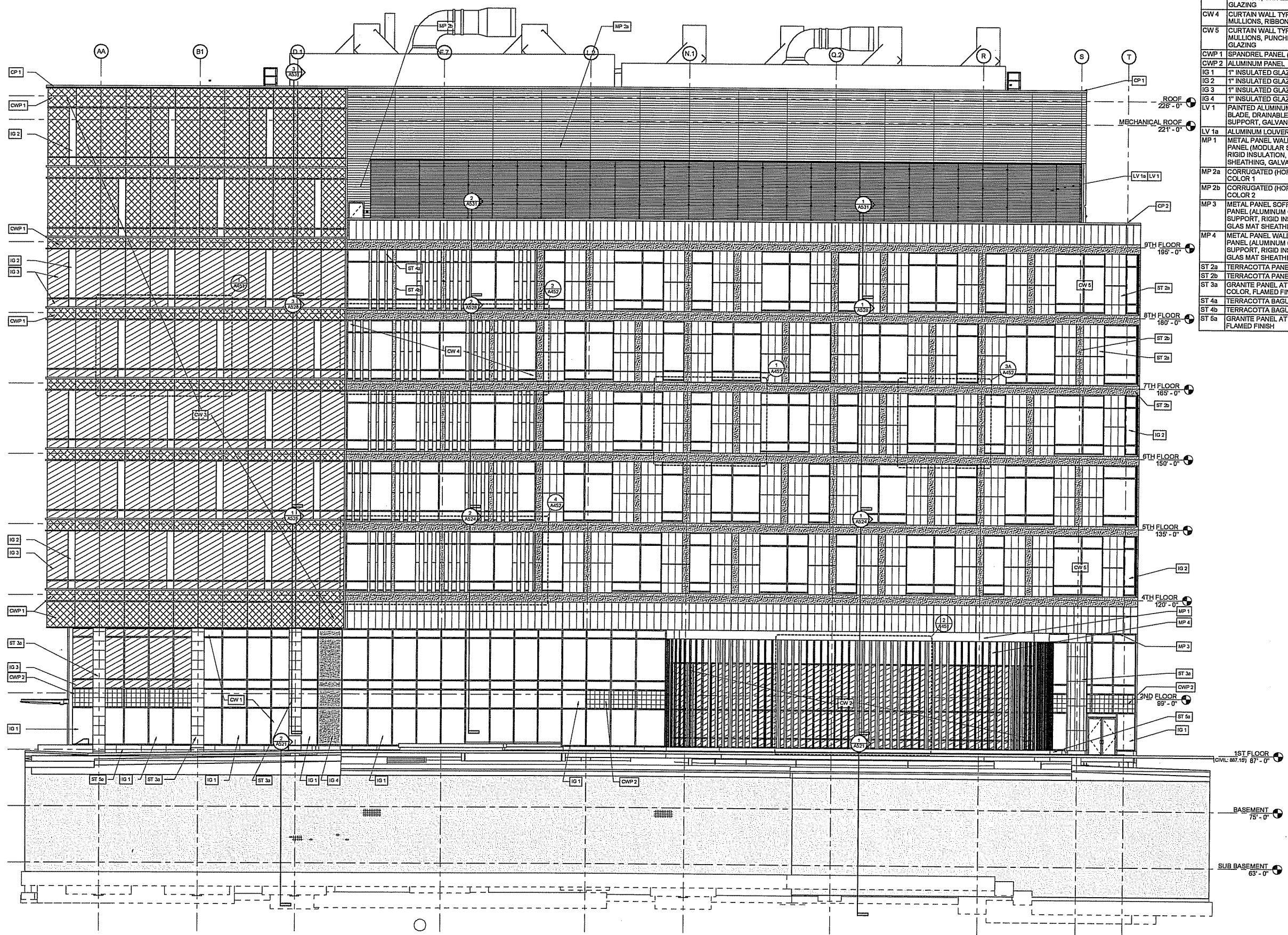
Date Issued 9/28/2016

Sheet Number A109

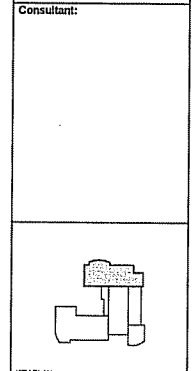


**FLOOR PLAN - 9TH FLOOR**  
 SCALE: 1/8" = 1'-0"

SEE A105.1 FOR FLOOR PLAN GENERAL NOTES



KEYNOTE LEGEND	
CP 1	METAL COPING, COLOR 1
CP 2	METAL COPING AT STONE, COLOR 2
CW 1	CURTAIN WALL TYPE 1: 10 1/4" x 2 1/2" ALUMINUM MULLIONS, 1" INSULATED GLAZING
CW 2	CURTAIN WALL TYPE 2: 10 1/4" x 2 1/2" ALUMINUM MULLIONS, ALUMINUM CAP EXTENSIONS ON VERTICAL MULLIONS, SEGMENTED FRAME, 1" INSULATED GLAZING
CW 3	CURTAIN WALL TYPE 3: 8 1/4" x 2 1/2" ALUMINUM MULLIONS, UNITIZED SYSTEM, 1" INSULATED GLAZING
CW 4	CURTAIN WALL TYPE 4: 7 1/4" x 2 1/2" ALUMINUM MULLIONS, RIBBON, 1" INSULATED GLAZING
CW 5	CURTAIN WALL TYPE 5: 7 1/4" x 2 1/2" ALUMINUM MULLIONS, PUNCHED OPENING, 1" INSULATED GLAZING
CWP 1	SPANDREL PANEL (OPACI COAT GLASS), FRIT
CWP 2	ALUMINUM PANEL
IG 1	1" INSULATED GLAZING, CLEAR, TYPE 60
IG 2	1" INSULATED GLAZING, CLEAR, TYPE 40
IG 3	1" INSULATED GLAZING, FRIT 60%
IG 4	1" INSULATED GLAZING, COLOR FILM
LV 1	PAINTED ALUMINUM MECHANICAL LOUVER WITH 6" BLADE, DRAINABLE, 50% OPEN ON PANEL SUPPORT, GALVANIZED METAL STUDS
LV 1a	ALUMINUM LOUVER, COLOR 1
MP 1	METAL PANEL WALL SYSTEM 1: SMOOTH METAL PANEL (MODULAR SYSTEM), PANEL SUPPORT, RIGID INSULATION, VAPOR BARRIER, GLAS MAT SHEATHING, GALVANIZED METAL STUDS
MP 2a	CORRUGATED (HORIZONTAL) METAL PANEL, COLOR 1
MP 2b	CORRUGATED (HORIZONTAL) METAL PANEL, COLOR 2
MP 3	METAL PANEL SOFFIT SYSTEM: SMOOTH METAL PANEL (ALUMINUM COMPOSITE MATERIAL), PANEL SUPPORT, RIGID INSULATION, VAPOR BARRIER, GLAS MAT SHEATHING, GALVANIZED METAL STUDS
MP 4	METAL PANEL WALL SYSTEM 3: SMOOTH METAL PANEL (ALUMINUM COMPOSITE MATERIAL), PANEL SUPPORT, RIGID INSULATION, VAPOR BARRIER, GLAS MAT SHEATHING, GALVANIZED METAL STUDS
ST 2a	TERRACOTTA PANEL: COLOR "1", FINISH "b"
ST 2b	TERRACOTTA PANEL: COLOR "1", FINISH "a"
ST 3a	GRANITE PANEL AT COLUMN: VIRGINIA MIST COLOR, FLAMED FINISH
ST 4a	TERRACOTTA BAGUETTE: COLOR "1", FINISH "a"
ST 4b	TERRACOTTA BAGUETTE: COLOR "1", FINISH "b"
ST 5a	GRANITE PANEL AT BASE: VIRGINIA MIST COLOR, FLAMED FINISH



Project Title:  
**CHEMISTRY BUILDING  
 ADDITION AND RENOVATION**  
 Agency/Institution:  
**UNIVERSITY OF WISCONSIN-MADISON**

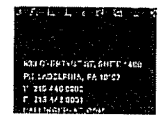
Sheet Title:  
**EXTERIOR NORTH ELEVATION - TOWER**

Revisions		
No.	Date	Description

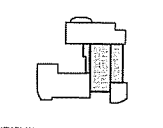
Graphic Scale:   
 DFD Number: 1383G  
 Set Type: PR  
 Date Issued: 9/28/2016  
 Sheet Number: A401

**1 EXTERIOR NORTH ELEVATION - TOWER**  
 SCALE: 1/8" = 1'-0"





Consultant:



State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)

Project Address:  
700 UNIVERSITY AVENUE  
MADISON, WI

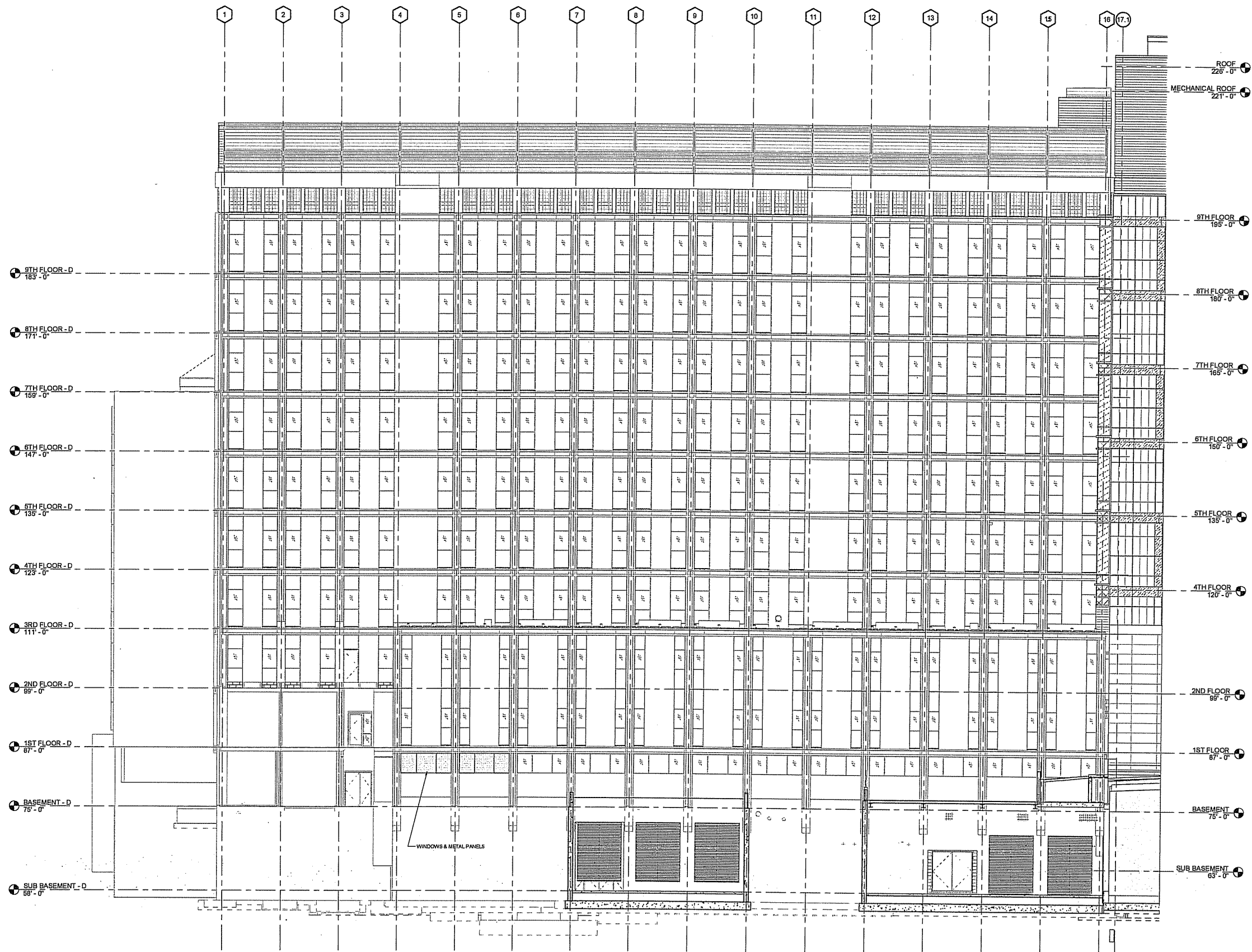
Project Title:  
CHEMISTRY DANIELS RENOVATION  
- GENERAL CHEMISTRY  
Agency / Institution:  
UNIVERSITY OF WISCONSIN-MADISON

Sheet Title:  
EXTERIOR EAST ELEVATION - DANIELS

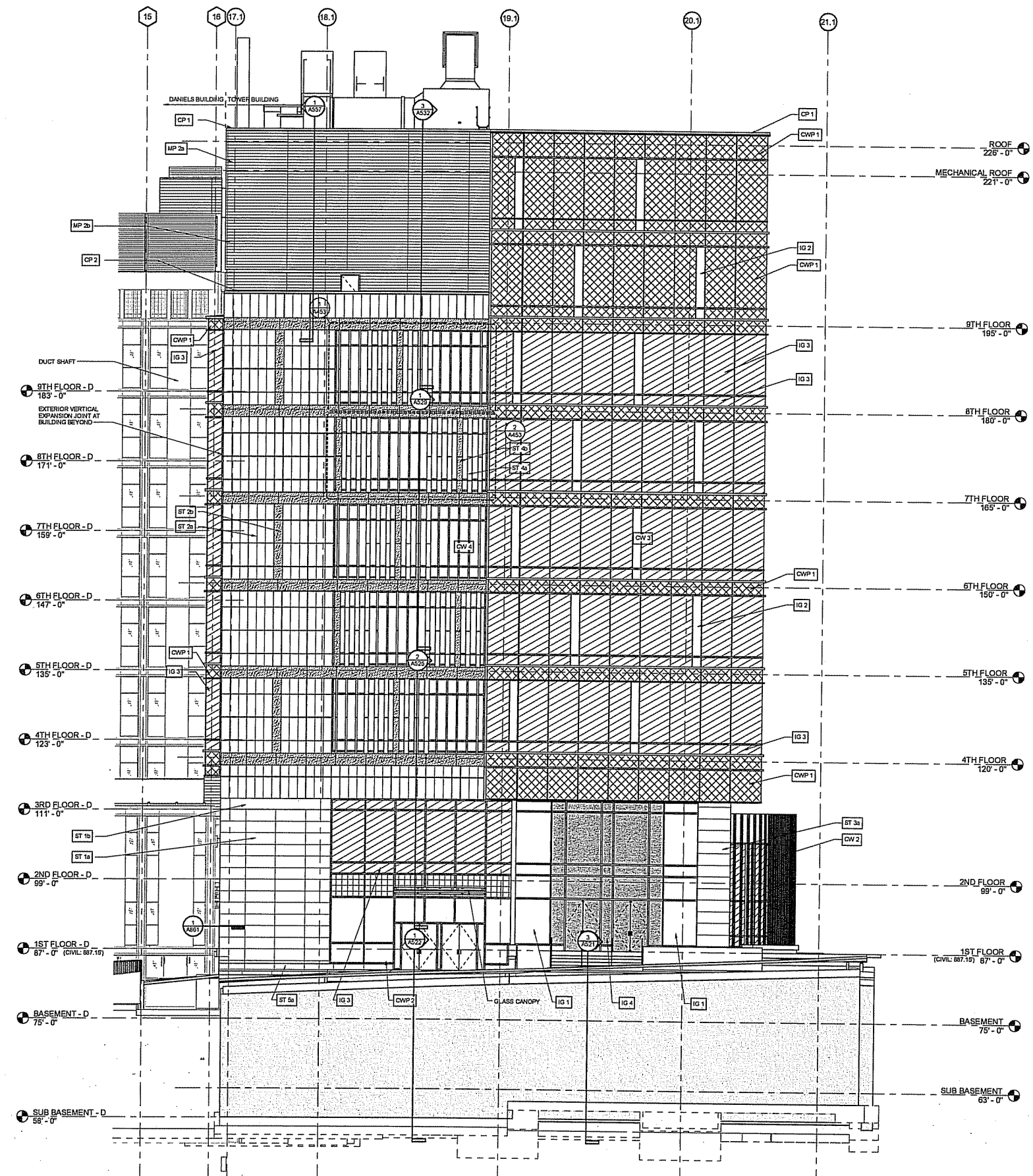
Revisions

No.	Date:	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	8/28/2016
Sheet Number	A401-d



1 EXTERIOR EAST ELEVATION - DANIELS RENOVATION  
SCALE: 1/8" = 1'-0"



1  
A402  
EXTERIOR EAST ELEVATION - TOWER  
SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND	
CP 1	METAL COPING, COLOR 1
CP 2	METAL COPING AT STONE, COLOR 2
CW 2	CURTAIN WALL TYPE 2: 10 1/4" x 2 1/2" ALUMINUM MULLIONS, ALUMINUM CAP EXTENSIONS ON VERTICAL MULLIONS, SEGMENTED FRAME, 1" INSULATED GLAZING
CW 3	CURTAIN WALL TYPE 3: 8 1/4" x 2 1/2" ALUMINUM MULLIONS, UNITIZED SYSTEM, 1" INSULATED GLAZING
CW 4	CURTAIN WALL TYPE 4: 7 1/4" x 2 1/2" ALUMINUM MULLIONS, RIBBON, 1" INSULATED GLAZING
CWP 1	SPANDREL PANEL (OPACI COAT GLASS), FRIT
CWP 2	ALUMINUM PANEL
IG 1	1" INSULATED GLAZING, CLEAR, TYPE 60
IG 2	1" INSULATED GLAZING, CLEAR, TYPE 40
IG 3	1" INSULATED GLAZING, FRIT 60%
IG 4	1" INSULATED GLAZING, COLOR FILM
MP 2a	CORRUGATED (HORIZONTAL) METAL PANEL: COLOR 1
MP 2b	CORRUGATED (HORIZONTAL) METAL PANEL: COLOR 2
ST 1a	TERRACOTTA PANEL: GREY COLOR, CUSTOM PROFILE FINISH "a"
ST 1b	TERRACOTTA PANEL: GREY COLOR, SMOOTH FINISH
ST 2a	TERRACOTTA PANEL: COLOR "1", THREE FINISHES
ST 2b	TERRACOTTA PANEL: COLOR "1", FINISH "b"
ST 3a	GRANITE PANEL AT COLUMN: VIRGINIA MIST COLOR, FLAMED FINISH
ST 4a	TERRACOTTA BAGUETTE: COLOR "1", FINISH "a"
ST 4b	TERRACOTTA BAGUETTE: COLOR "1", FINISH "b"
ST 5a	GRANITE PANEL AT BASE: VIRGINIA MIST COLOR, FLAMED FINISH

**STRANG**  
ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

8411 GENERAL POINT ROAD  
MADISON, WI 53726-4255  
TEL: 608 278 9230

Consultant:

KEY PLAN

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)

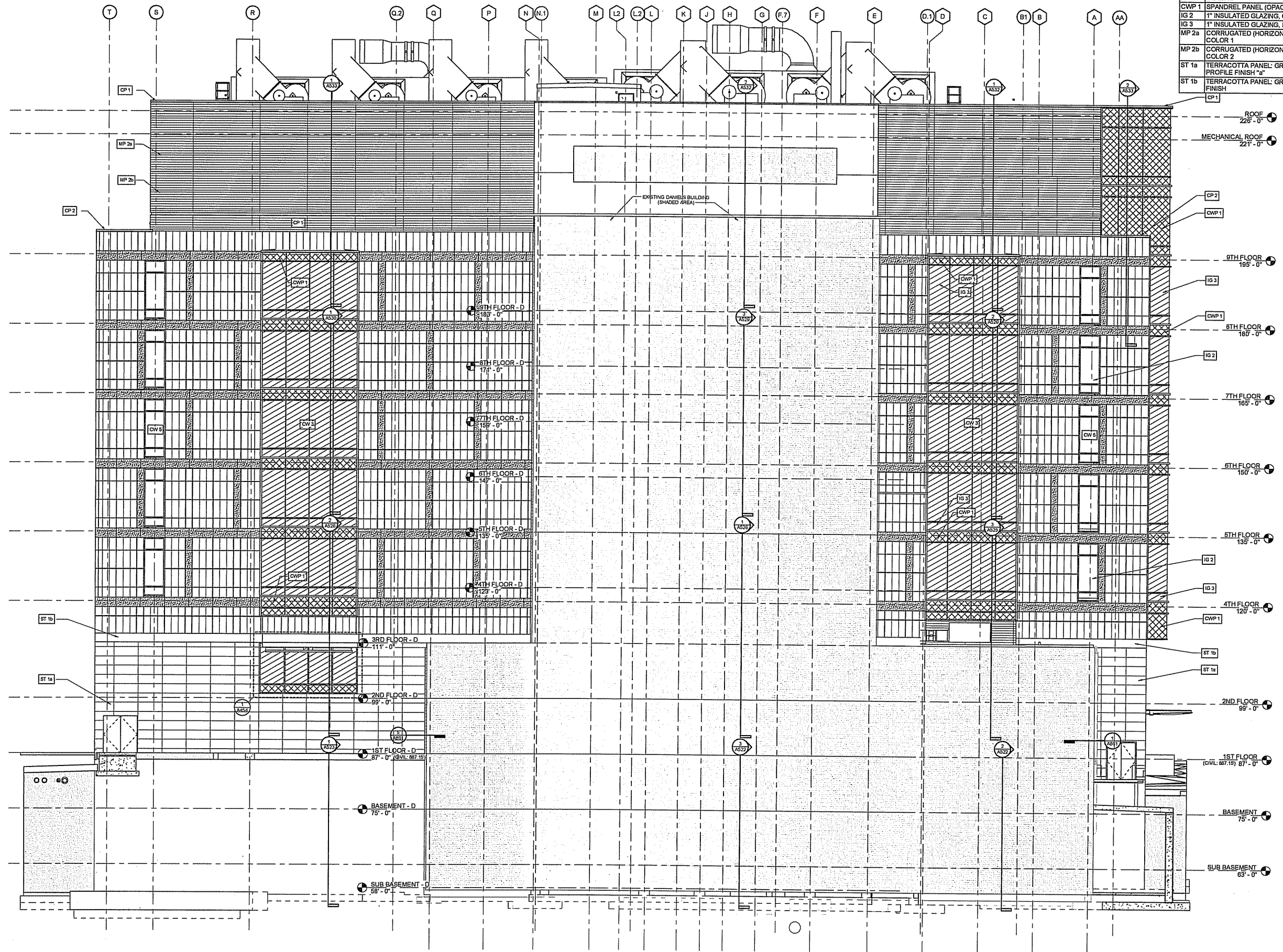
Project Address:  
1101 UNIVERSITY AVENUE  
MADISON, WI

Project Title:  
CHEMISTRY BUILDING  
ADDITION AND RENOVATION  
Agency/Institution:  
UNIVERSITY OF WISCONSIN-MADISON

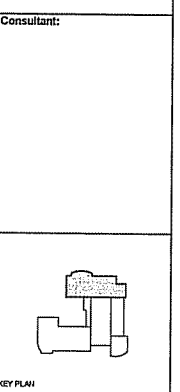
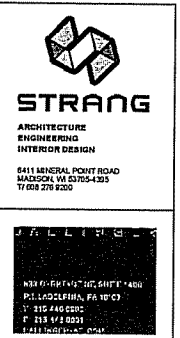
Sheet Title:  
EXTERIOR EAST ELEVATION - TOWER

Revisions		
No.	Date:	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	8/28/2016
Sheet Number	A402



KEYNOTE LEGEND	
CP 1	METAL COPING, COLOR 1
CP 2	METAL COPING AT STONE, COLOR 2
CW 3	CURTAIN WALL TYPE 3: 8 1/4" x 2 1/2" ALUMINUM MULLIONS, UNITIZED SYSTEM, 1" INSULATED GLAZING
CW 5	CURTAIN WALL TYPE 5: 7 1/4" x 2 1/2" ALUMINUM MULLIONS, PUNCHED OPENING, 1" INSULATED GLAZING
CWP 1	SPANDREL PANEL (OPACI COAT GLASS), FRIT
IG 2	1" INSULATED GLAZING, CLEAR, TYPE 40
IG 3	1" INSULATED GLAZING, FRIT 60%
MP 2a	CORRUGATED (HORIZONTAL) METAL PANEL: COLOR 1
MP 2b	CORRUGATED (HORIZONTAL) METAL PANEL: COLOR 2
ST 1a	TERRACOTTA PANEL: GREY COLOR, CUSTOM PROFILE FINISH "a"
ST 1b	TERRACOTTA PANEL: GREY COLOR, SMOOTH FINISH



State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)

Project Address:  
 1401 UNIVERSITY AVENUE  
 MADISON, WI

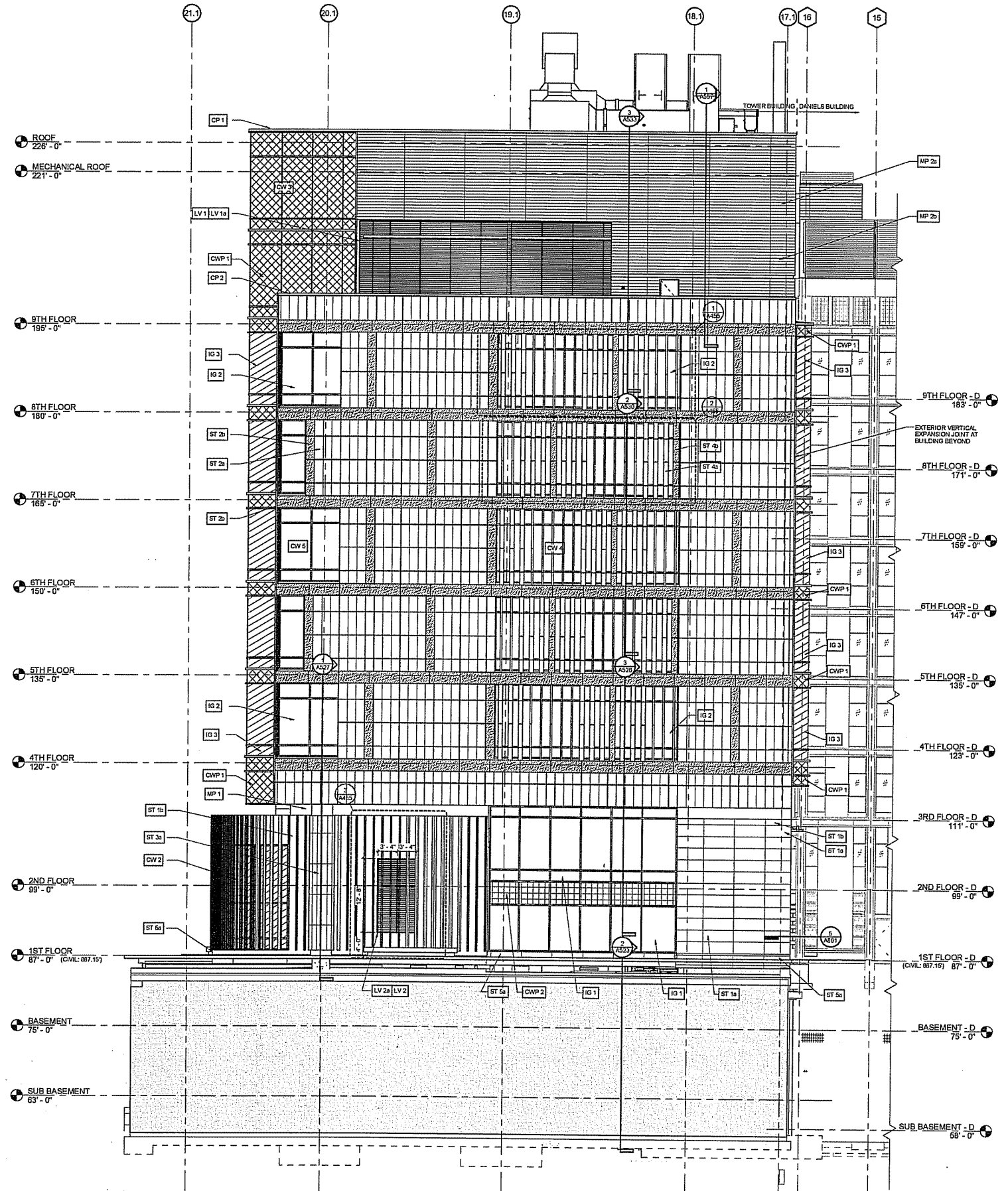
Project Title:  
**CHEMISTRY BUILDING  
 ADDITION AND RENOVATION**  
 Agency/Institution:  
**UNIVERSITY OF WISCONSIN-MADISON**

Sheet Title:  
**EXTERIOR SOUTH ELEVATION - TOWER**

Revisions	
No.	Description:

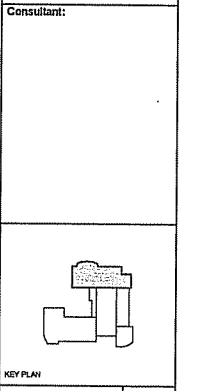
Graphic Scale	
DFD Number	1383G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A403





1  
A404 EXTERIOR WEST ELEVATION - TOWER  
SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND	
CP 1	METAL COPING, COLOR 1
CP 2	METAL COPING AT STONE, COLOR 2
CW 2	CURTAIN WALL TYPE 2: 10 1/4" x 2 1/2" ALUMINUM MULLIONS, ALUMINUM CAP EXTENSIONS ON VERTICAL MULLIONS, SEGMENTED FRAME, 1" INSULATED GLAZING
CW 3	CURTAIN WALL TYPE 3: 8 1/4" x 2 1/2" ALUMINUM MULLIONS, UNITIZED SYSTEM, 1" INSULATED GLAZING
CW 4	CURTAIN WALL TYPE 4: 7 1/4" x 2 1/2" ALUMINUM MULLIONS, RIBBON, 1" INSULATED GLAZING
CW 5	CURTAIN WALL TYPE 5: 7 1/4" x 2 1/2" ALUMINUM MULLIONS, PUNCHED OPENING, 1" INSULATED GLAZING
CWP 1	SPANDREL PANEL (OPACI COAT GLASS), FRIT
CWP 2	ALUMINUM PANEL
IG 1	1" INSULATED GLAZING, CLEAR, TYPE 60
IG 2	1" INSULATED GLAZING, CLEAR, TYPE 40
IG 3	1" INSULATED GLAZING, FRIT 60%
LV 1	PAINTED ALUMINUM MECHANICAL LOUVER WITH 6" BLADE, DRAINABLE, 50% OPEN ON PANEL SUPPORT, GALVANIZED METAL STUDS
LV 1a	ALUMINUM LOUVER: COLOR 1
LV 2a	ALUMINUM LOUVER: COLOR 2
MP 1	METAL PANEL WALL SYSTEM 1: SMOOTH METAL PANEL (MODULAR SYSTEM), PANEL SUPPORT, RIGID INSULATION, VAPOR BARRIER, GLAS MAT SHEATHING, GALVANIZED METAL STUDS
MP 2a	CORRUGATED (HORIZONTAL) METAL PANEL: COLOR 1
MP 2b	CORRUGATED (HORIZONTAL) METAL PANEL: COLOR 2
ST 1a	TERRACOTTA PANEL: GREY COLOR, CUSTOM PROFILE FINISH "a"
ST 1b	TERRACOTTA PANEL: GREY COLOR, SMOOTH FINISH
ST 2a	TERRACOTTA PANEL: COLOR "1", THREE FINISHES
ST 2b	TERRACOTTA PANEL: COLOR "1", FINISH "b"
ST 3a	GRANITE PANEL AT COLUMN: VIRGINIA MIST COLOR, FLAMED FINISH
ST 4a	TERRACOTTA BAGUETTE: COLOR "1", FINISH "a"
ST 4b	TERRACOTTA BAGUETTE: COLOR "1", FINISH "b"
ST 5a	GRANITE PANEL AT BASE: VIRGINIA MIST COLOR, FLAMED FINISH



State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)

Project Address:  
1101 UNIVERSITY AVENUE  
MADISON, WI

Project Title:  
CHEMISTRY BUILDING  
ADDITION AND RENOVATION  
Agency/Institution:  
UNIVERSITY OF WISCONSIN-MADISON

Sheet Title:  
EXTERIOR WEST ELEVATION - TOWER

Revisions		
No.	Date	Description

Graphic Scale: 1" = 10'-0"

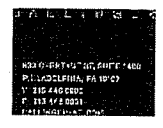
DFD Number: 13B3G

Set Type: PR

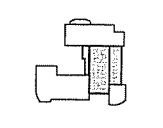
Date Issued: 9/28/2016

Sheet Number: A404

KEYNOTE LEGEND	
LV 2b	ALUMINUM LOUVER: COLOR 3
STR 8	METAL BAR GRATING, REFER TO STRUCTURAL PLANS S100.2
STR 9	CONCRETE RETAINING WALL, REFER TO STRUCTURAL PLANS S105.2



Consultant:



KEY PLAN

State of Wisconsin  
Department of Administration  
Division of Facilities Development (DFD)

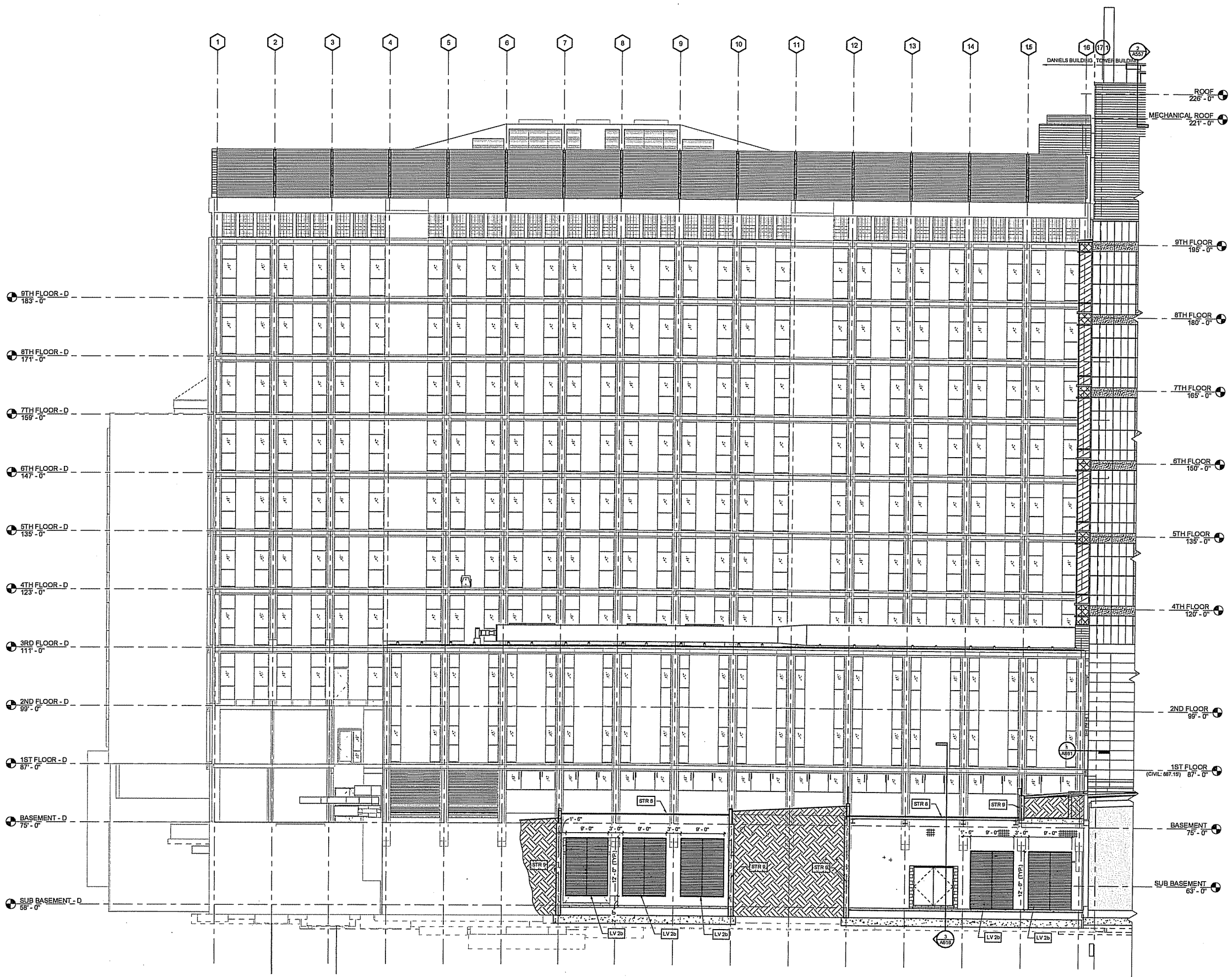
Project Address:  
1101 UNIVERSITY AVENUE  
MADISON, WI

Project Title:  
CHEMISTRY BUILDING  
ADDITION AND RENOVATION  
Agency/Institution:  
UNIVERSITY OF WISCONSIN-MADISON

Sheet Title:  
EXTERIOR EAST ELEVATION - DANIELS

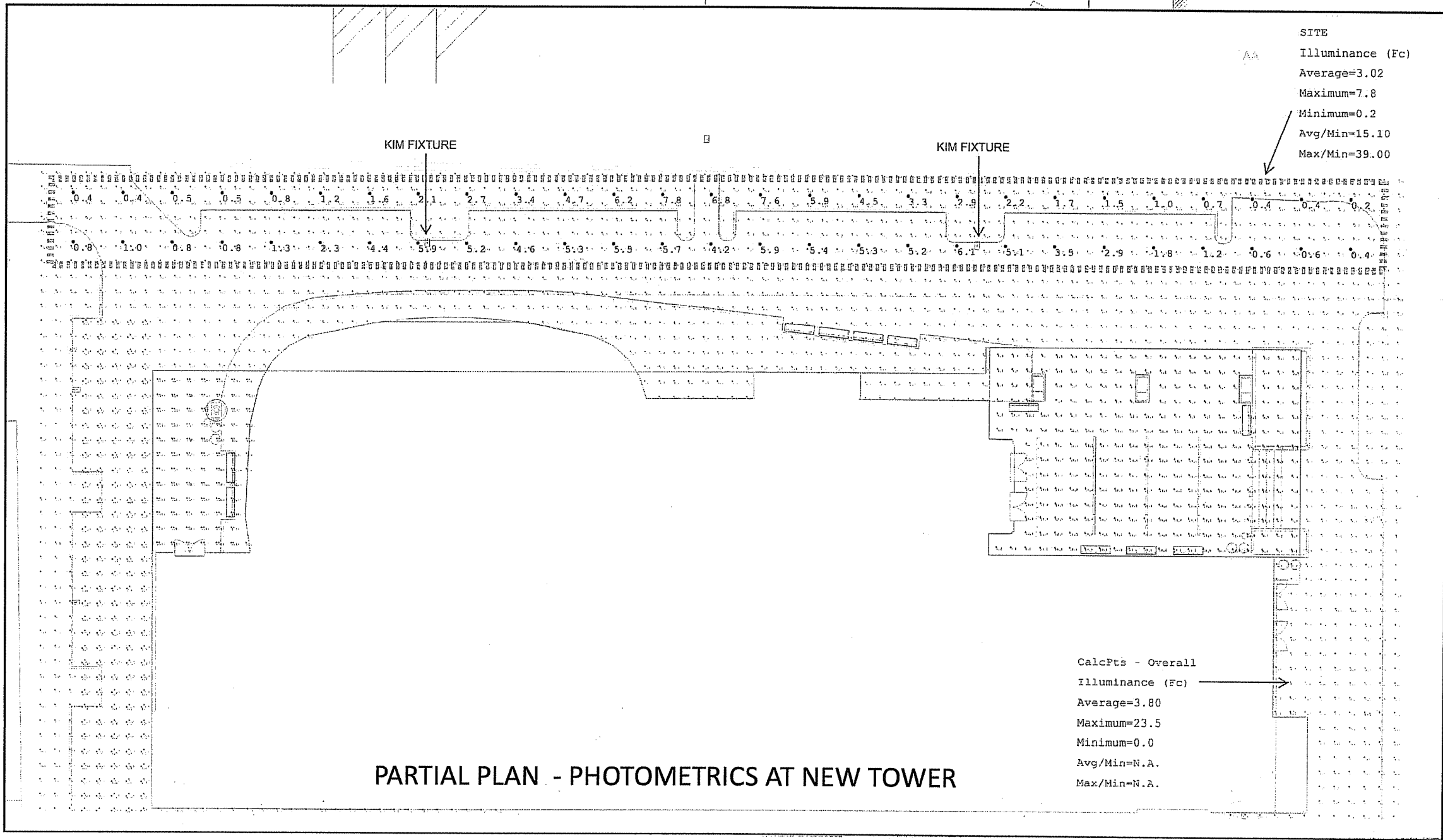
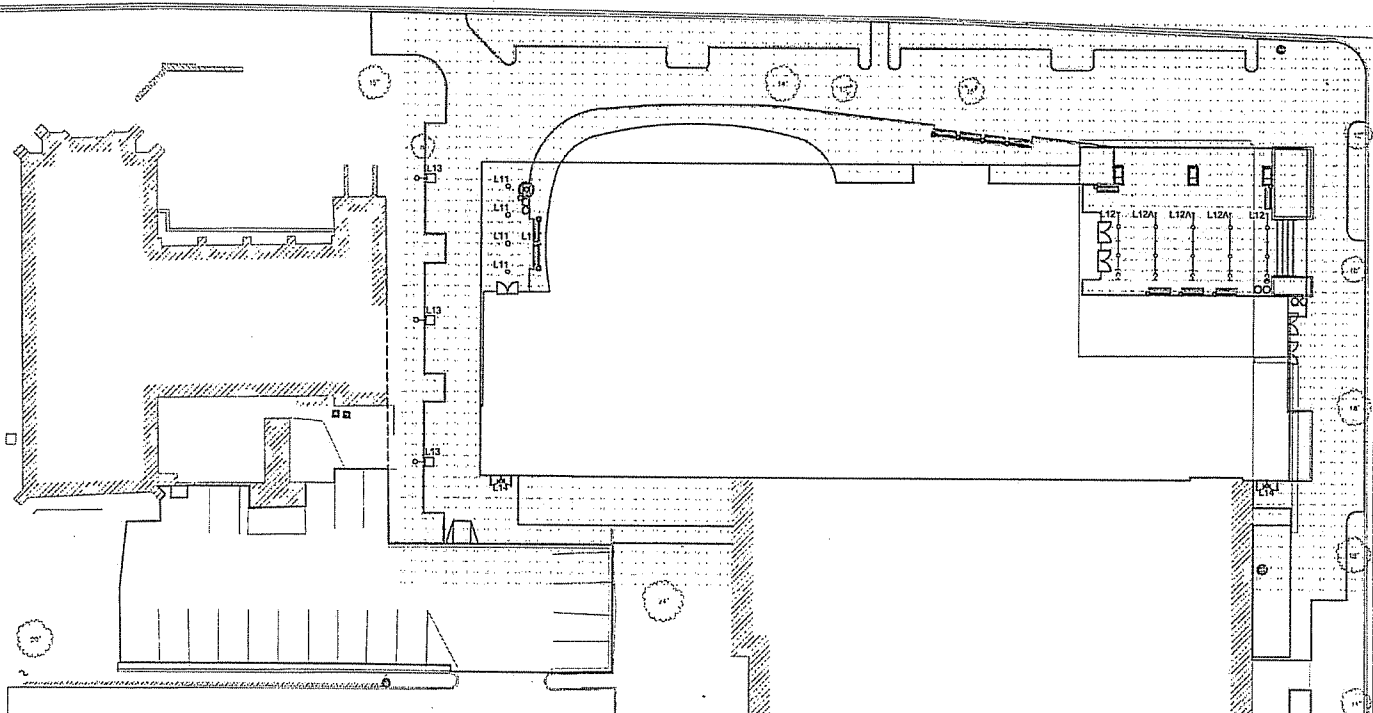
Revisions	
No.	Description:

Graphic Scale	
DFD Number	13B3G
Set Type	PR
Date Issued	9/28/2016
Sheet Number	A405



**EXTERIOR EAST ELEVATION - DANIELS**  
SCALE: 1/8" = 1'-0"






SITE  
 Illuminance (Fc)  
 Average=3.02  
 Maximum=7.8  
 Minimum=0.2  
 Avg/Min=15.10  
 Max/Min=39.00

CalcPts - Overall  
 Illuminance (Fc)  
 Average=3.80  
 Maximum=23.5  
 Minimum=0.0  
 Avg/Min=N.A.  
 Max/Min=N.A.

PARTIAL PLAN - PHOTOMETRICS AT NEW TOWER



Consultant:  
**AEI Affiliated Engineers**  
 Affiliated Engineers, Inc.  
 530 Research Park Boulevard  
 Watson, Wisconsin 53719  
 Tel 608 235.2816 Fax 608 235.2814

KEY PLAN  
 State of Wisconsin  
 Department of Administration  
 Division of Facilities Development (DFD)  
  
 Project Address: 1101 UNIVERSITY AVENUE, MADISON, WISCONSIN

Project Title:  
**UW CHEMISTRY**  
 Agency/Institution:  
**UNIVERSITY OF WISCONSIN**  
 Sheet Title:  
**ELECTRICAL SITE PHOTOMETRICS**

Revisions

No.	Date	Description

Graphic Scale: N/A  
 DFD Number: 13B3G  
 Set Type: CITY REVIEW  
 Date Issued: 20 Sept. '16  
 Sheet Number: E200