



# URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100  
PO Box 2985; Madison, Wisconsin 53701-2985  
Phone: 608.266.4635 | Facsimile: 608.267.8739

This form may also be completed online at:  
<http://www.cityofmadison.com/planning/documents/UDCapplication.pdf>

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: <u>04/15/15</u>	<input type="checkbox"/> Informational Presentation
UDC Meeting Date: <u>04/22/15</u>	<input type="checkbox"/> Initial Approval
Combined Schedule Plan Commission Date (if applicable): <u>04/22/15</u>	<input checked="" type="checkbox"/> Final Approval

1. Project Address: 4901 Tradewinds Parkway  
Project Title (if any): 2015 Unit Well 31 Water Treatment Plant & Ground Storage Reservoir

2. This is an application for (Check all that apply to this UDC application):

New Development     Alteration to an Existing or Previously-Approved Development

**A. Project Type:**

- Project in an Urban Design District\* (public hearing-\$300 fee)
- Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) (\$150 fee, Minor Exterior Alterations)
- Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District (EC)
- Planned Development (PD)
  - General Development Plan (GDP)
  - Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Planned Residential Complex

**B. Signage:**

- Comprehensive Design Review\* (public hearing-\$300 fee)     Street Graphics Variance\* (public hearing-\$300 fee)
- Signage Exception(s) in an Urban Design District (public hearing-\$300 fee)

**C. Other:**

Please specify: \_\_\_\_\_

**3. Applicant, Agent & Property Owner Information:**

Applicant Name: Alan Larson, PE, BCEE  
Street Address: 119 East Olin Avenue  
Telephone: (608)266-4651 Fax: ( )

Company: Madison Water Utility  
City/State: Madison, WI Zip: 53713  
Email: ALarson@madisonwater.org

Project Contact Person: Randy Sanford  
Street Address: 10 North Bridge Street  
Telephone: (715)720-6200 Fax: (715)720-6300

Company: SEH, Inc  
City/State: Chippewa Falls, WI Zip: 54729  
Email: rsanford@sehinc.com

Project Owner (if not applicant): Same as Applicant  
Street Address: \_\_\_\_\_  
Telephone: ( ) Fax: ( )

City/State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Email: \_\_\_\_\_

**4. Applicant Declarations:**

- A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This
- B. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of Applicant Alan Larson

Relationship to Property MWU

Authorized Signature R. Mangano  
for Al Larson

Date 3/4/2015

## 5. Submission Requirements

Application: Each submittal must include **14 collated paper copies** (11" x 17" max.) and an **electronic copy** of all application materials. The electronic copy must include individual Adobe Acrobat PDF files compiled either on a non-returnable CD-ROM submitted with the paper copies, or in an e-mail sent to: [UDCApplications@cityofmadison.com](mailto:UDCApplications@cityofmadison.com). The transmittal shall include the name of the project, address, and applicant. Applicants unable to provide the materials electronically should contact the Secretary of the Urban Design Commission at 267-8740 for assistance. For an application to be considered complete and scheduled for a UDC meeting, both the paper copies and electronic copy need to be submitted prior to the application deadline. Late materials will not be accepted. An application is required for each UDC appearance. For projects also requiring Plan Commission approval, applicants must have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be easily read when reduced.

Fees: Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer, Madison, Wisconsin.

Project Plans: The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

### 1. Informational Presentation

- Locator Map
- Brief Narrative Description of the Project, Site Plan, and 2-dimensional images of proposed buildings or structures. Additional information may provide for a greater level of feedback from the Commission.
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Any and all relevant plans and information on which feedback from the UDC is requested.

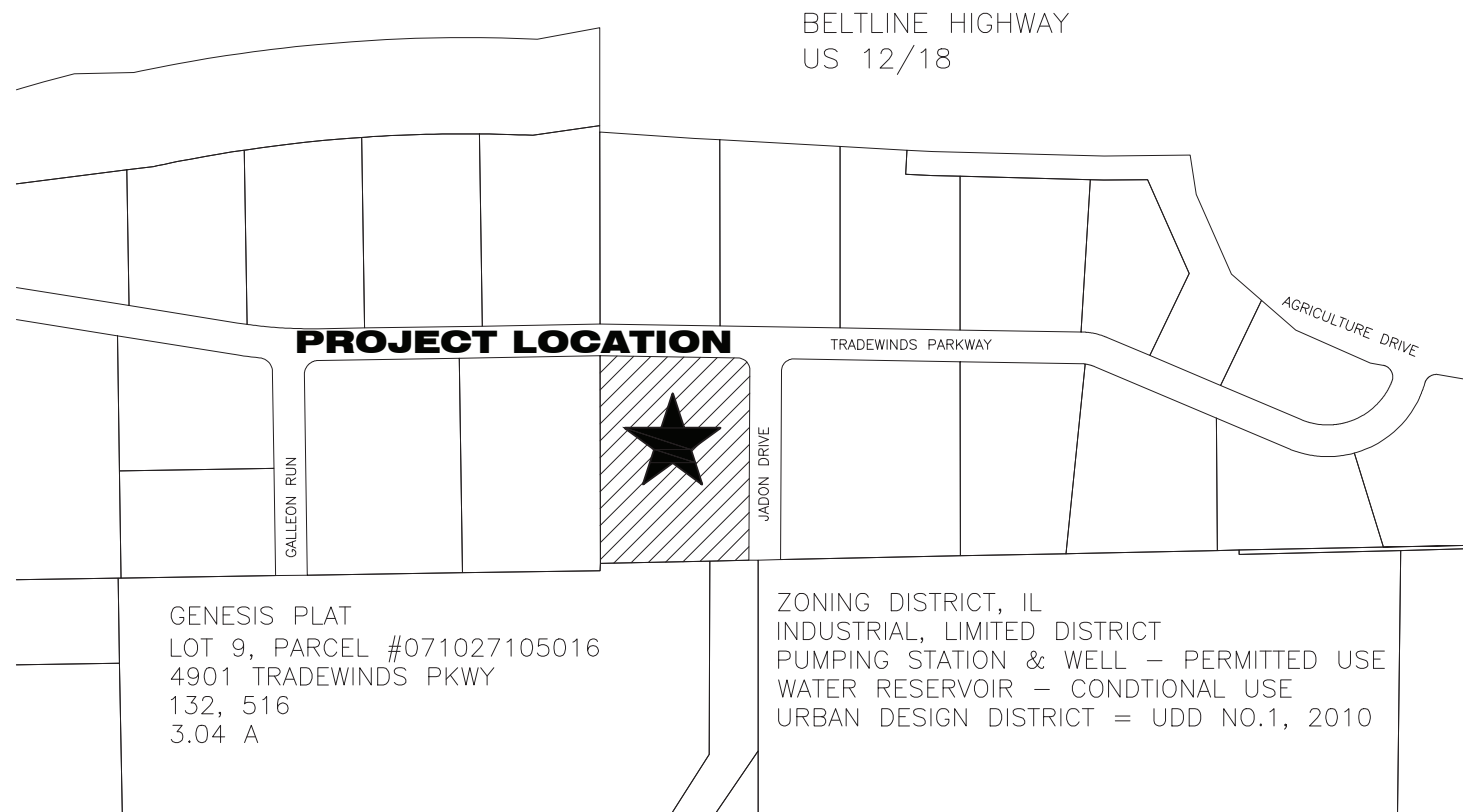
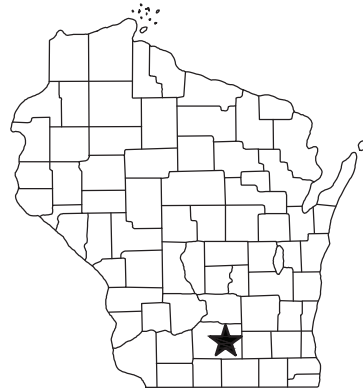
### 2. Initial Approval

- Locator Map
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- Landscape Plan and Plant List
- Building Elevations for all building sides
- PD text and letter of intent (if applicable)

### 3. Final Approval

- Locator Map
- Site Plan showing location of existing and proposed buildings
- Grading Plan
- Landscape Plan
- Plant List, including scientific name, size at planting, quantity and root condition for each species.
- Building Elevations for all building sides, colored with shadow lines, including exterior building materials and colors.
- Proposed Signage
- Lighting Plan, including fixture cut sheets and photometrics plan
- Utility/HVAC equipment location and screening details
- PD text and letter of intent (if applicable)
- Samples of the exterior building materials (presented at the UDC meeting)

# LAND USE / ZONING APPROVAL DRAWINGS FOR UNIT WELL 31 & WATER TREATMENT PLANT MADISON WATER UTILITY CITY OF MADISON, WISCONSIN



LIST OF SHEETS

- SHEET 1.....G1 – TITLE SHEET
- SHEET 2.....URBAN DESIGN DISTRICT NO. 1 OVERVIEW
- SHEET 3.....URBAN DESIGN DISTRICT NO. 1
- SHEET 4.....MARSH ROAD NEIGHBORHOOD DEVELOPMENT PLAN
- SHEET 5.....PROJECT LOCATION IN EXISTING WATER SYSTEM
- SHEET 6.....PROJECT SITE
- SHEET 7.....SURFACE WATER DATA VIEWER MAP
- SHEET 8-10.....GENESIS PLAT MAP
- SHEET 11.....G2 – UNIT WELL 31 SITE PLAN
- SHEET 12.....C2 – UNIT WELL 31 GRADING PLAN
- SHEET 13.....C1 – UNIT WELL 31 UTILITY PLAN
- SHEET 14.....SL – SITE LIGHTING PHOTOMETRIC PLAN
- SHEET 15.....L1 – LANDSCAPE PLAN
- SHEET 16.....L2 – LANDSCAPE DETAILS
- SHEET 17.....A01 – FLOOR PLANS
- SHEET 18.....A02 – BUILDING ELEVATIONS
- SHEET 19.....A03 – BUILDING ELEVATIONS
- SHEET 20.....A04 – TANK ELEVATIONS, SECTIONS & DETAILS
- SHEET 21.....A05 – BUILDING PERSPECTIVE
- SHEET 22.....A06 – BUILDING PERSPECTIVE



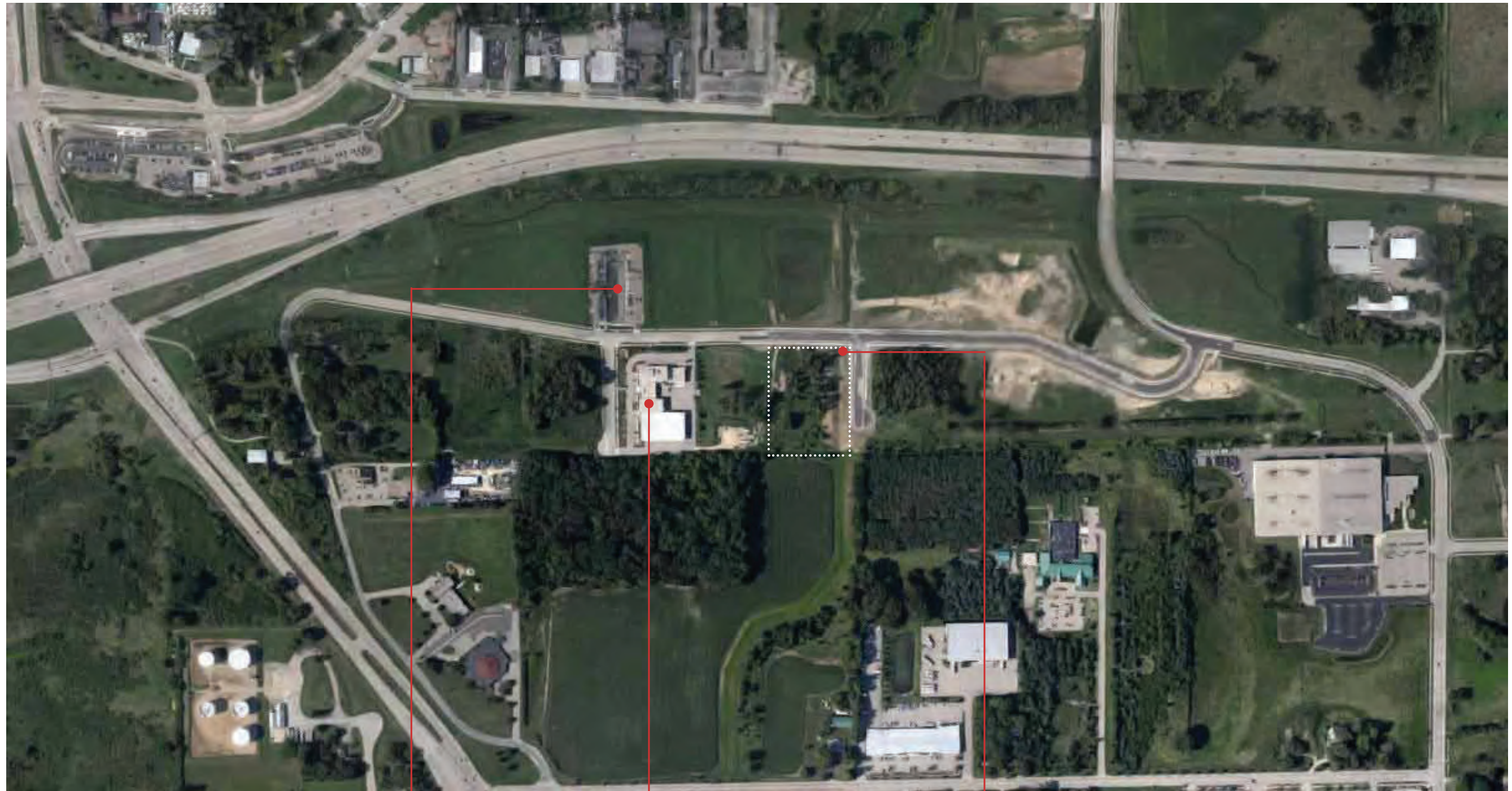
2015 WELL 31 WATER TREATMENT PLANT  
 & GROUND STORAGE RESERVOIR  
 MADISON, WISCONSIN

MARK	DATE	REVISIONS

SHEET FILE NO. MADWU 129083  
 PROJECT NO. 03-02-15  
 DESIGNED BY RANDY SANFORD  
 DRAWN BY JOSHUA BOHNERT  
 © 2015 Senix Engineering, Inc.

SHEET TITLE  
 TITLE SHEET

SHEET  
 G1



Sleep Inn & Suites



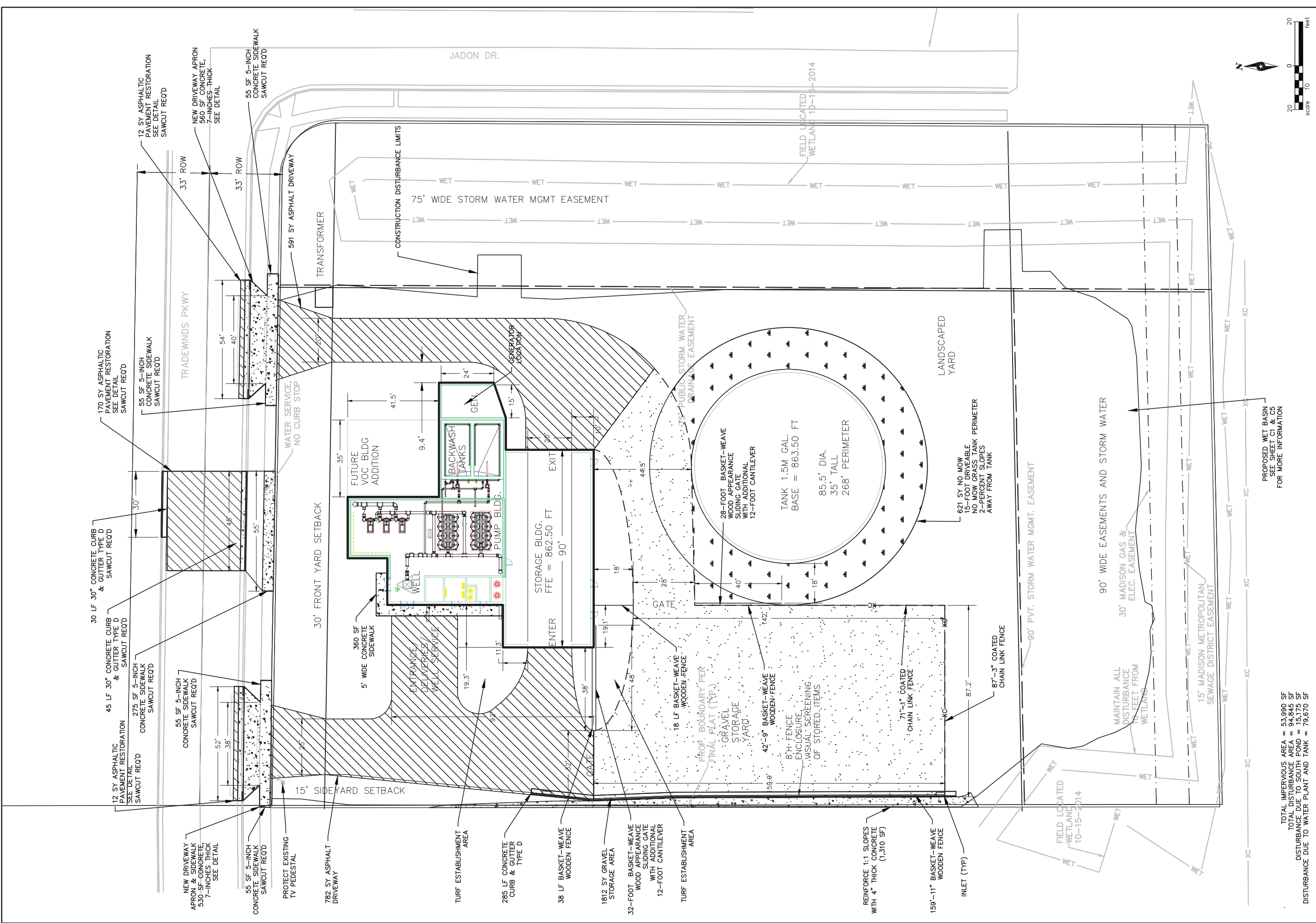
Bauer & Raether



Existing Site

Site Context Aerial  
City of Madison Well 31  
March 11, 2015

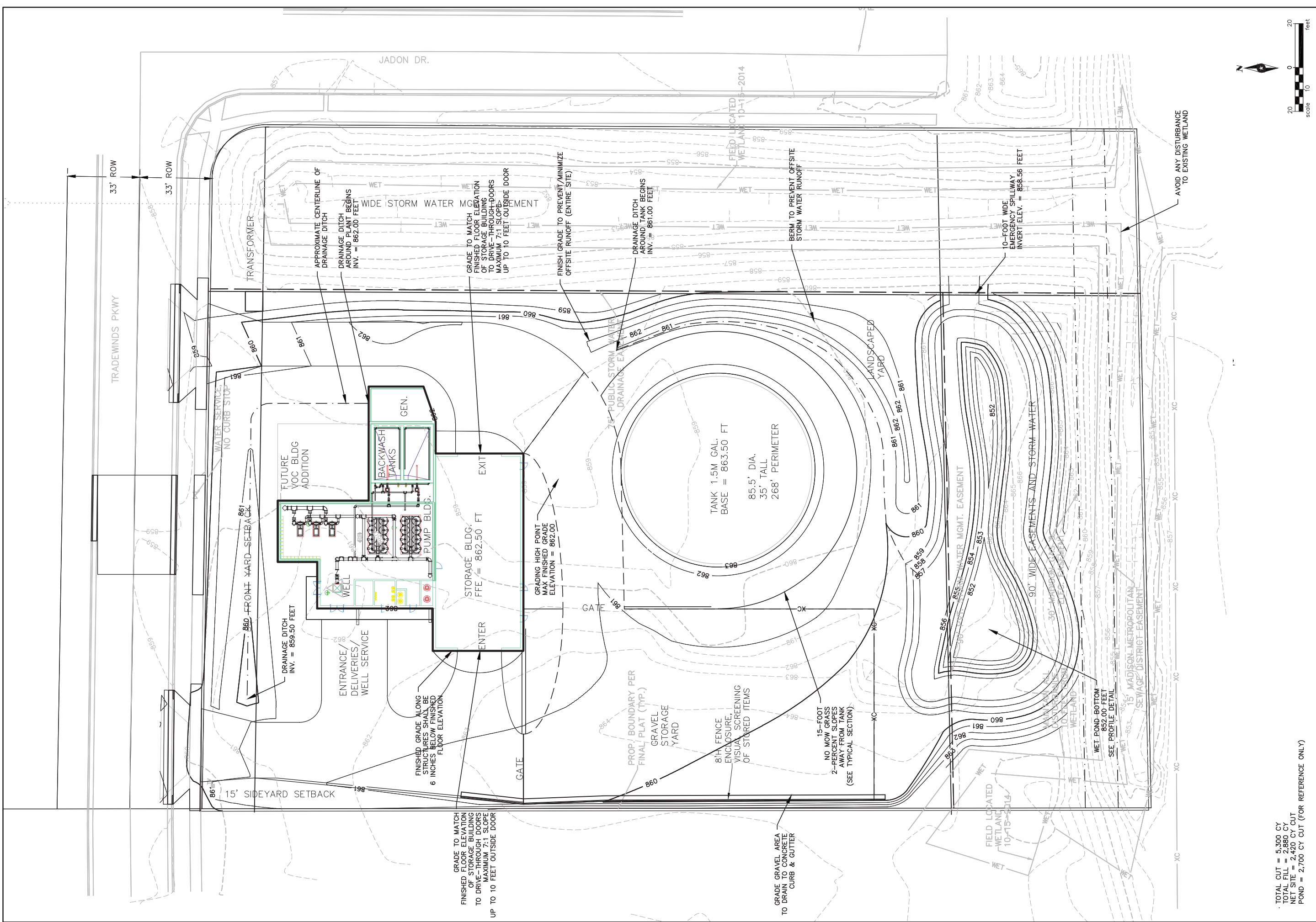




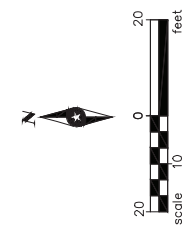
TOTAL IMPERVIOUS AREA = 53,990 SF  
TOTAL DISTURBANCE AREA = 94,845 SF  
DISTURBANCE DUE TO SOUTH POND = 15,175 SF  
DISTURBANCE DUE TO WATER PLANT AND TANK = 79,670 SF

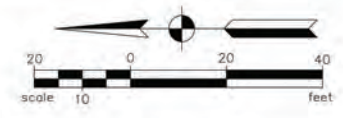
PROPOSED WET BASIN  
SEE SHEET C1 & C5  
FOR MORE INFORMATION





TOTAL CUT = 5,300 CY  
TOTAL FILL = 2,880 CY  
NET SITE = 2,420 CY CUT  
POND = 2,700 CY CUT (FOR REFERENCE ONLY)





10 N BRIDGE STREET  
CHIPPewa FALLS, WI 54729  
PHONE: 715.726.6200  
FAX: 715.861.5301  
WEBSITE: 800.472.5881  
www.sehinc.com



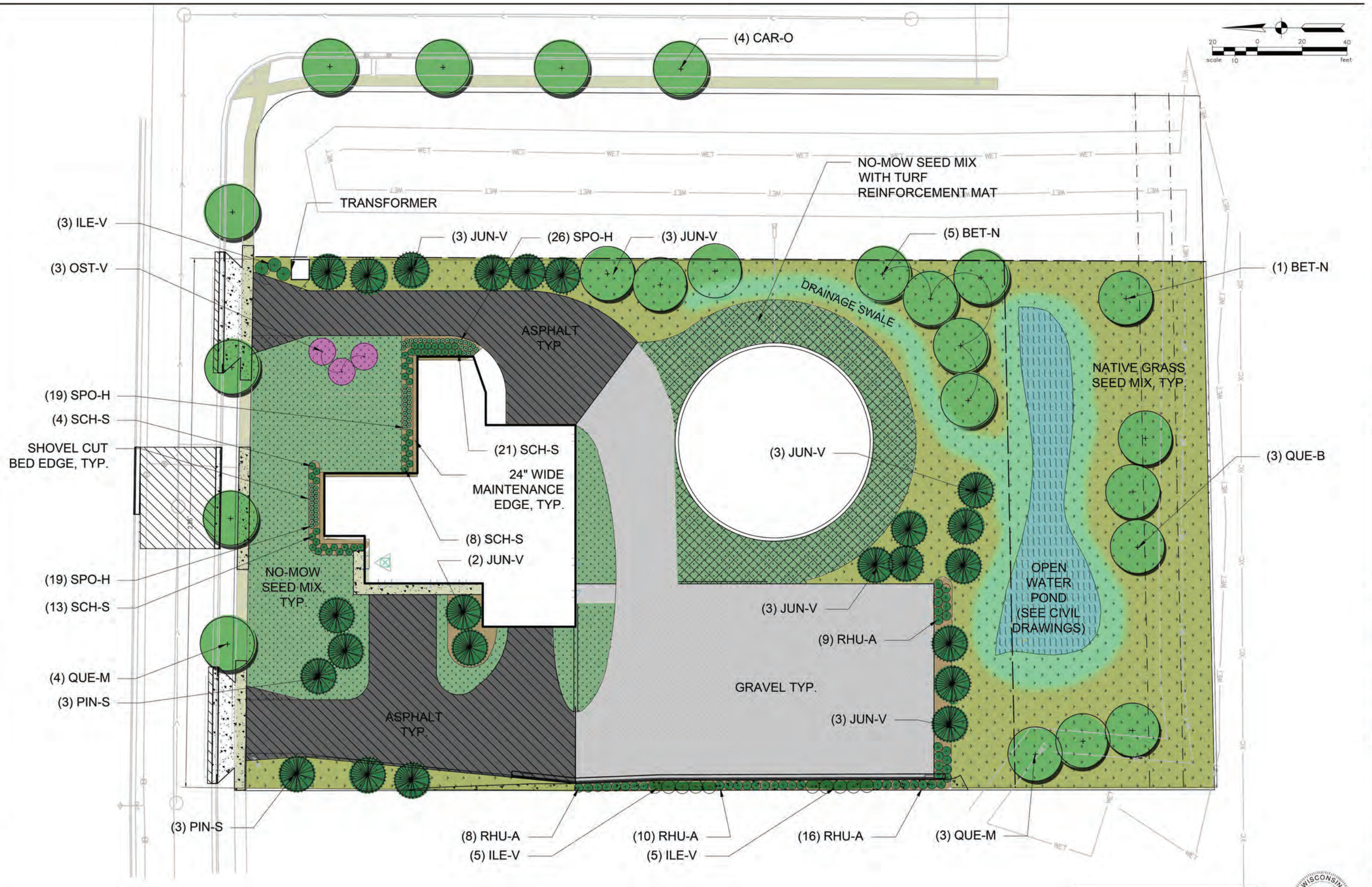
2015 WELL 31 WATER TREATMENT PLANT  
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION

SEH FILE NO. MADWI 129083  
PROJECT NO. 04-15-15  
ISSUE DATE JON RUBLE  
DESIGNED BY JON RUBLE  
DRAWN BY BETH MILLER  
Short Elliott Hendrickson, Inc. © (SEH)  
© 2015 Short Elliott Hendrickson, Inc.

SHEET TITLE

SHEET  
L1

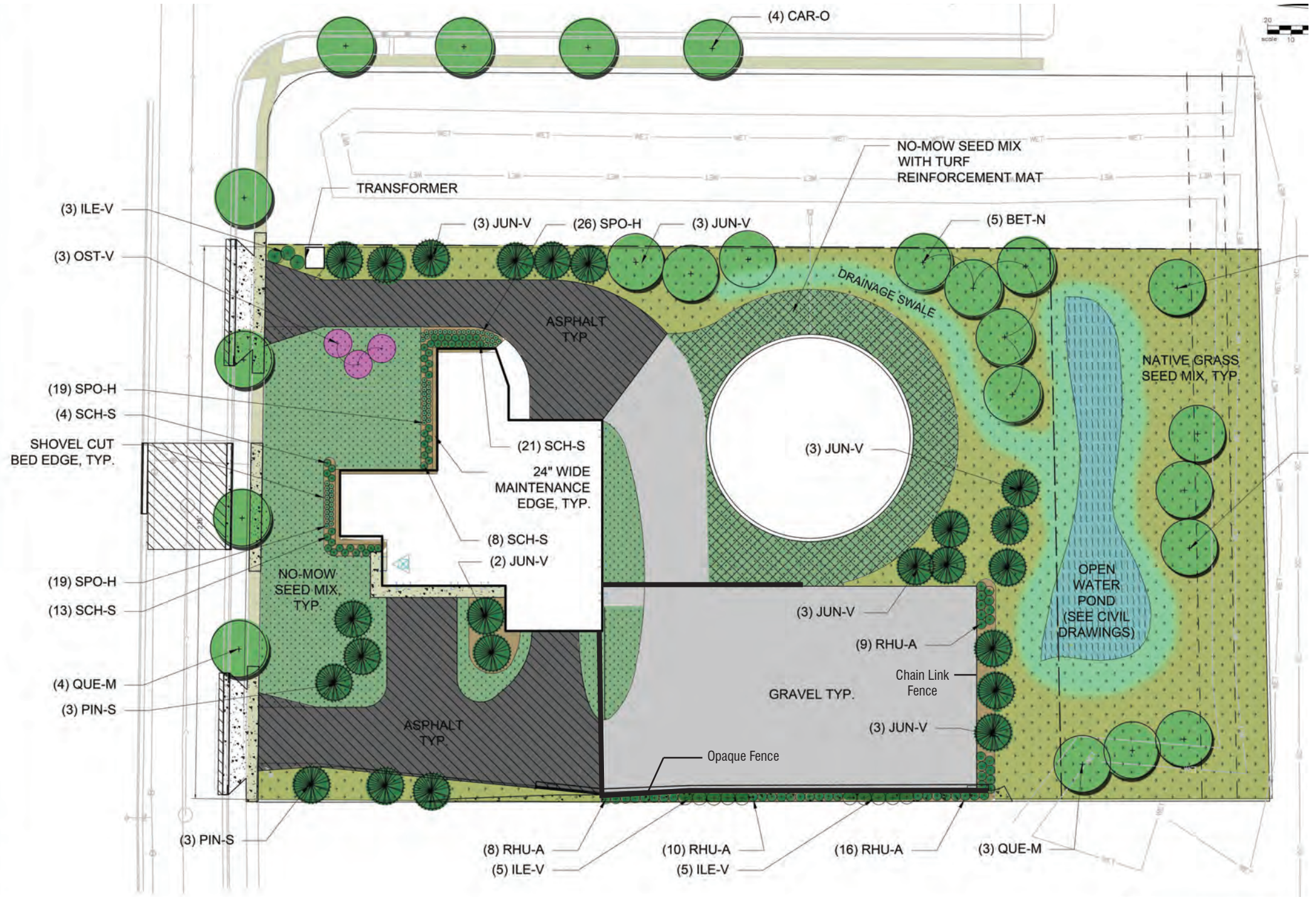


FOR REVIEW ONLY  
NOT FOR CONSTRUCTION



4/13/2015 10:06 AM

F:\AUD\MADISON WELL\_31\CAD\MAD129083\_L1.DWG







*Carya Ovata* - Shagbark Hickory



*Quercus Macrocarpa* - Bur Oak



*Betula Nigra* - River Birch



*Ostrya Virginiana* - Ironwood



*Cornus Stolonifera*  
Red Osier Dogwood



*Pinus Strobus* - Eastern White Pine



*Viburnum Lentago* - Nannyberry



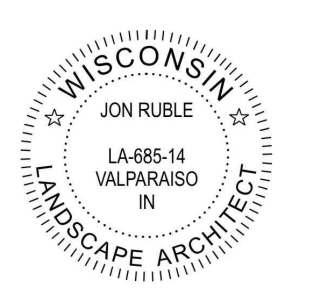
*Hypericum Kalmianum* - St. John's Wort



*Llex Verticillata* - Winterberry



No Mow Lawn Example



**PLANTING NOTES:**

- EXISTING SHRUBS FOUND ON SITE SHALL BE REMOVED. QUESTIONS REGARDING EXISTING PLANT MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL.
- THE LAYOUT OF ALL PLANTING BEDS AND INDIVIDUAL TREES SHALL BE STAKED BY THE CONTRACTOR IN ADVANCE OF INSTALLATION. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE LANDSCAPE ARCHITECT WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAKE MINOR ADJUSTMENTS AS NECESSARY. BED LAYOUT SHALL ALSO INCLUDE PERENNIAL GROUPINGS BY SPECIES.
- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE AND/OR AS DIRECTED BY LANDSCAPE ARCHITECT AND STOCKPILE FOR REUSE IN LOCATION APPROVED BY OWNER
- CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS
- ALL SEED & SOD AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL
- ALL PLANTING BEDS SHALL RECEIVE 18" DEPTH OF PREPARED SOIL.
- PAINT OR STAKE LIMITS OF SEEDING FOR REVIEW BY LANDSCAPE ARCHITECT & OWNER PRIOR TO SEEDING.
- NEW SEEDED AREAS TO BE TREATED WITH HERBICIDE TO KILL ALL EXISTING GROUND COVER. THERE SHALL BE A MINIMUM OF TWO (2) APPLICATIONS SEPARATED BY 10 DAYS. IF ALL EXISTING GROUND COVER VEGETATION IS NOT KILLED WITHIN 10 DAYS OF 2ND APPLICATION, A 3RD APPLICATION IS REQUIRED.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTING BEDS SHALL HAVE A SHOVEL CUT EDGE, UNLESS OTHERWISE SPECIFIED.
- ALL PLANTING BEDS AND PLANTED TREES SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH PER PLANTING DETAILS. MULCH SHALL BE CONSIDERED INCIDENTAL TO PLANT MATERIALS
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL BY THE LANDSCAPE ARCHITECT. ALL PLANT MATERIAL AND SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION.
- CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- PROVIDE 1 YEAR WARRANTY ON ALL PLANT MATERIAL
- NO-MOW LAWN SHALL INCLUDE A BLEND OF BUNCH-FORMING AND CREEPING FESCUES DERIVED FROM SPECIES THAT ARE NATIVE TO WISCONSIN. SPECIES MIX AND SEEDING RATES SHALL BE "NO-MOW LAWN MIX" AS PREPARED BY PRAIRIE NURSERY, OR APPROVED EQUIVALENT.
- NO-MOW LAWN SEED SHALL BE ESTABLISHED BY THE CONTRACTOR TO A DENSE, GREEN CONSISTENT LAWN VOID OF ANY BARE OR PATCHY AREAS LARGER THAN 3'X3'
- SEED PRIOR TO OCT. 15. IF SEEDED AFTER OCT. 15, MAINTAIN AND ESTABLISH LAWN UNTIL SPRING REVIEW

Lineal feet of frontage: 236  
Total Developed Area (sq. ft.): 92,484

**ORDINANCE 28.142 LANDSCAPE & SCREENING REQUIREMENTS**

Plant Type	Points	Minimum Size at Installation
Overstory Deciduous Tree	35	2.5 inch caliper
Ornamental Tree	15	1.5 inch caliper
Evergreen Tree	15	3 feet tall
Shrub, deciduous	2	18" or 3 gallon container size
Shrub, evergreen	3	18" or 3 gallon container size
Ornamental Grasses	2	18" or 3 gallon container size
Ornamental/decorative fencing or wall	4 per 10 ln.ft.	n/a

**Landscape Calculations & Distribution**

Landscape Calculations & Distribution	Plant Req.	Req. Points
Required Landscape Units:	154	771

Development Frontage Landscape	Plant Req.	Points
Overstory Deciduous Trees:	8	275
Ornamental Trees:	0	0 (2 may be used in the place of 1 Overstory Deciduous Tree)
Evergreen Trees:	0	0 (2 may be used in the place of 1 Overstory Deciduous Tree)
Shrub, deciduous	39	0
Shrub, evergreen	0	0
Ornamental Grasses	0	0
Frontage Fencing (in lineal feet)	236	0

**TOTAL POINTS: 275**

Development Landscape	Plants	Points
Overstory Deciduous Trees:	20	700
Ornamental Trees:	3	45
Evergreen Trees:	23	345
Shrub, deciduous	56	112
Shrub, evergreen	0	0
Ornamental Grasses	110	220

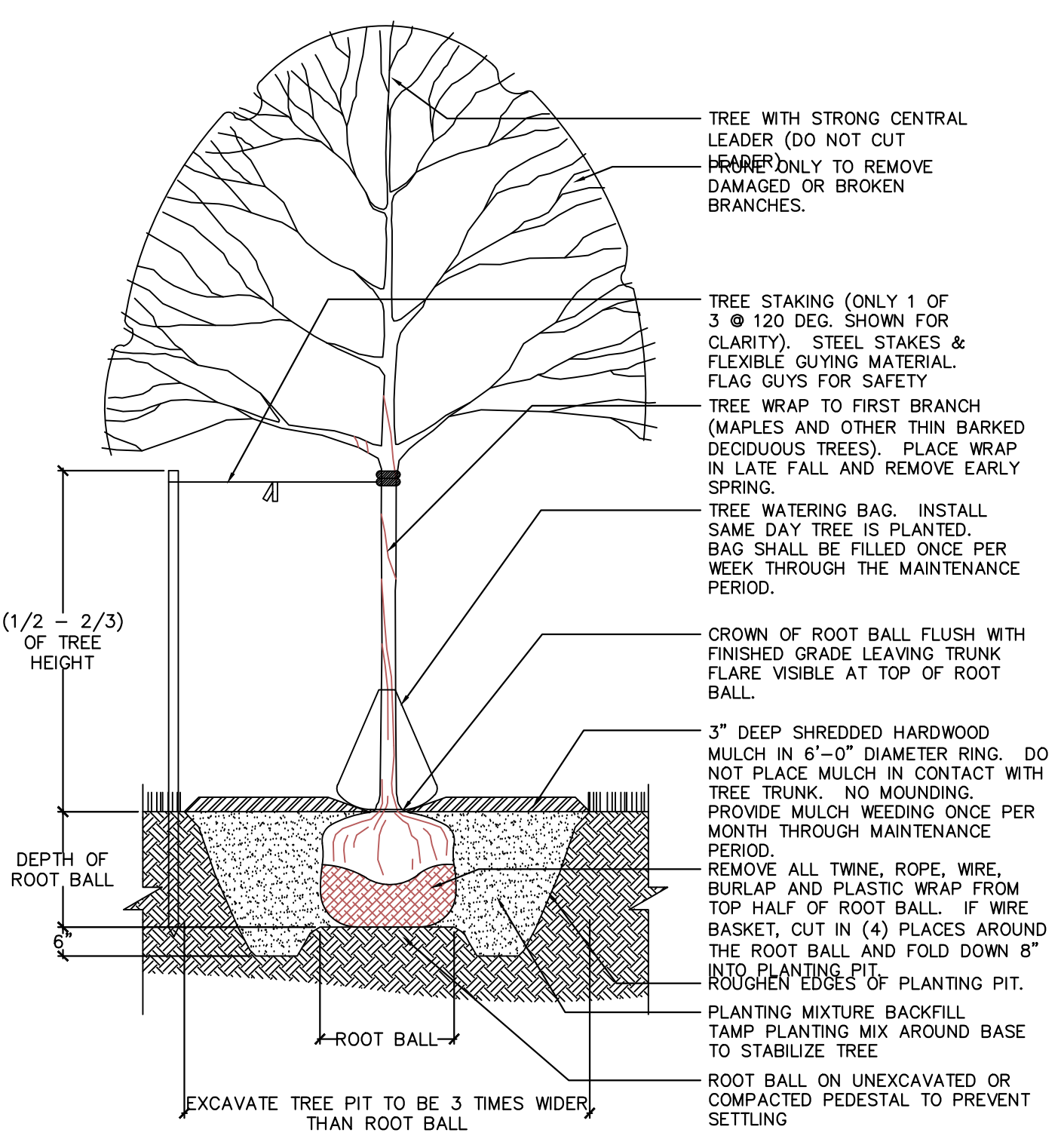
**TOTAL POINTS: 1422**

**4 ORDINANCE REQUIREMENTS**

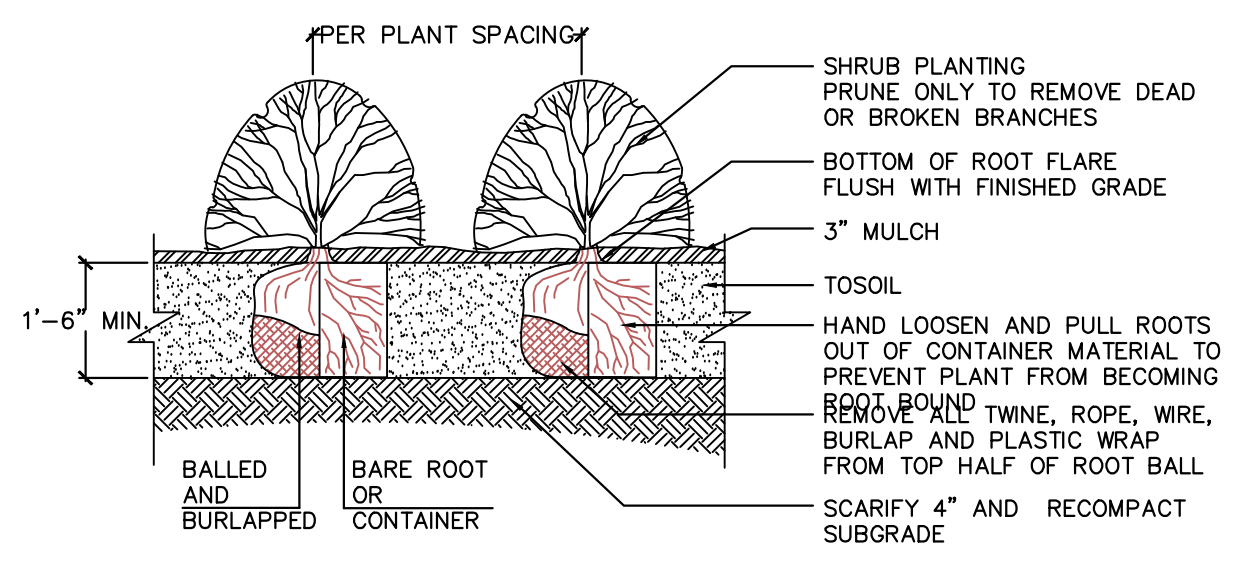
**Madison Wellhead 31  
Plant List**

Quantity	Code	Botanical Name	Common Name	Size	Spacing
<b>SHADE TREES</b>					
6	BET-N	<i>Betula nigra</i>	River Birch	2.5" cal.	24'
4	CAR-O	<i>Carya ovata</i>	Shagbark Hickory	2.5" cal.	24'
3	QUE-B	<i>Quercus bicolor</i>	Swamp White Oak	2.5" cal.	24'
7	QUE-M	<i>Quercus macrocarpa</i>	Bur Oak	2.5" cal.	24'
<b>20</b>					
<b>ORNAMENTAL TREES</b>					
3	OST-V	<i>Ostrya virginiana</i>	Ironwood (Eastern Hop Hornbeam)	8' B&B	12'
<b>3</b>					
<b>EVERGREEN TREES</b>					
17	JUN-V	<i>Juniperus virginiana</i>	Eastern Red Cedar	8' B&B	
6	PIN-S	<i>Pinus strobus</i>	Eastern White Pine	8' B&B	
<b>23</b>					
<b>SHRUBS</b>					
13	ILE-V	<i>Ilex verticillata</i>	Winterberry	#5	5'
43	RHU-A	<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Sumac	#5	3'
<b>56</b>					
<b>ORNAMENTAL GRASSES</b>					
46	SCH-S	<i>Schizachyrium scoparium 'Carousel'</i>	Carousel Little Bluestem	#3	30"
64	SPO-H	<i>Sporobolus heterolepis</i>	Prairie Dropseed	#3	24"
<b>110</b>					
<b>GRASSES</b>					
-	-	-	No-Mow Seed Mix		
-	-	-	Native Grass Seed Mix		

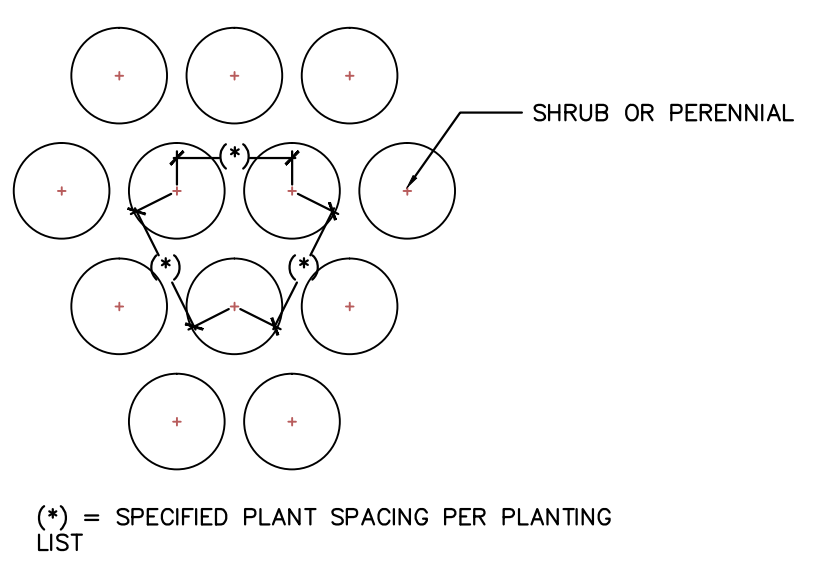
**5 PLANT SCHEDULE**



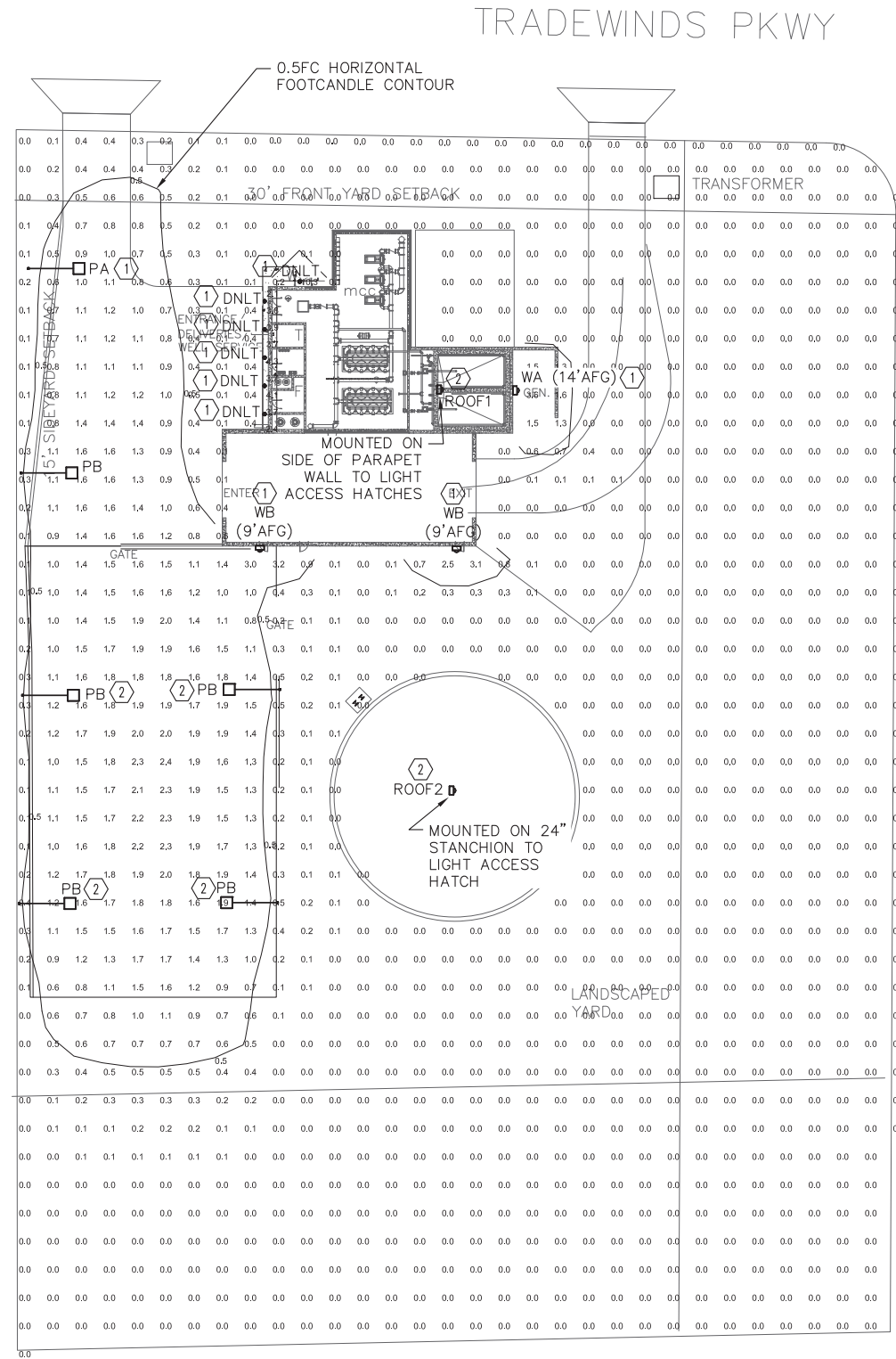
**1 TREE PLANTING DETAIL  
NOT TO SCALE**



**2 SHRUB PLANTING DETAIL  
NOT TO SCALE**



**3 PLANT SPACING DETAIL  
NOT TO SCALE**

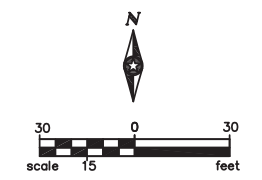


HORIZONTAL FOOTCANDLES AT 4-FT ABOVE GRADE

JADON DR.

- KEYED NOTES:**
- ① LIGHT CONTROLLED VIA PHOTOCELL (ON DUSK/DAWN)
  - ② LIGHT CONTROLLED VIA SWITCH (ONLY ON FOR MAINTENANCE WORK)

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
WA	WA	1	DSXW1 LED 20C 350 40K TFTM MVOLT	DSXW1 LED WITH 2 LIGHT ENGINES, 20 LED'S, 350mA DRIVER, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	LED	DSXW1_LED_20C_350_40K_TFTM_MVOLT.ies	Absolute	0,85	25
WB	WB	2	DSXW1 LED 10C 350 40K T3M MVOLT	DSXW1 LED WITH 1 LIGHT ENGINE, 10 LED'S, 350mA DRIVER, 4000K LED, TYPE 3 MEDIUM OPTIC	LED	DSXW1_LED_10C_350_40K_T3M_MVOLT.ies	Absolute	0,85	13,21
PA	PA	1	DSX1 LED 30C 530 40K T3M MVOLT HS	DSX1 LED WITH (1) 30 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 530mA WITH HOUSE SIDE SHIELD	LED	DSX1_LED_30C_530_40K_T3M_MVOLT_HS.ies	Absolute	0,85	52
PB	PB	5	DSX1 LED 40C 700 40K T3M MVOLT HS	DSX1 LED WITH (2) 20 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 700mA WITH HOUSE SIDE SHIELD	LED	DSX1_LED_40C_700_40K_T3M_MVOLT_HS.ies	Absolute	0,85	89
DNLT	DNLT	6	DOM6 600L DO6	603 delivered lumens	ONE 15-WATTLED, HORIZONTAL POS.	DOM6_600L_DO6.ies	Absolute	0,85	15,624
ROOF1	ROOF1	1	TWR1 LED 1 40K MVOLT	2100lm TWR1 LED WALLPACK	LED	TWR1_LED_1_40K_MVOLT.ies	Absolute	0,85	34,4
ROOF2	ROOF2	1	DSXF1 LED 1 AS3040K HMF MVOLT	D-SERIES FLOOD SIZE 1 WITH 1 COB, 4000K, (HMF) DISTRIBUTION, NEMA TYPE 6HX4V	LED	DSXF1_LED_1_AS30_40K_HMF_MVOLT.ies	Absolute	0,85	21



10 NORTH BRIDGE STREET  
CHIPPEWA FALLS, WI 54729  
PHONE: 715.720.6200  
FAX: 715.861.3501  
WWW.SEHINC.COM

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**2015 WELL 31 WATER TREATMENT PLANT  
MADISON, WISCONSIN**

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MARK	DATE	DESCRIPTION
XXXXXX		
03-02-15		RICK BOYA
		BRIAN FULLER

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SEH FILE NO. PROJECT NO. ISSUE DATE DESIGNED BY DRAWN BY  
XXXXXX 03-02-15 RICK BOYA BRIAN FULLER

Short, Elliott, Hendrickson, Inc.

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SHEET TITLE  
**SITE LIGHTING  
PHOTOMETRIC PLAN**

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SHEET  
**21**

**Powrtek**  
Engineering, Inc.

20711 WATERTOWN RD., SUITE C  
WAUKESHA, WI 53186  
VOICE: 262-827-9575  
FAX: 262-827-9615



# D-Series Size 1 LED Wall Luminaire



d<sup>series</sup>

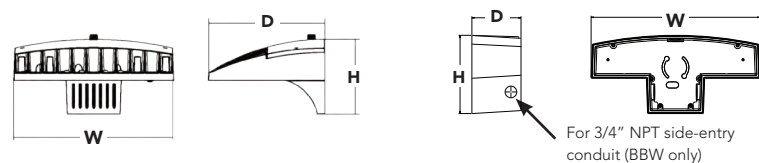
## Specifications Luminaire

**Width:** 13-3/4" (34.9 cm)  
**Depth:** 10" (25.4 cm)  
**Height:** 6-3/8" (16.2 cm)

## Back Box (BBW, ELCW)

**Width:** 13-3/4" (34.9 cm)  
**Depth:** 4" (10.2 cm)  
**Height:** 6-3/8" (16.2 cm)

**BBW Weight:** 5 lbs (2.3 kg)  
**ELCW Weight:** 10 lbs (4.5 kg)



Catalog Number LUMINAIRES - WA, WB

Notes

Type

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

## Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

## 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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
10C (10 LEDs)	530mA	20 W	T2S	1,843	1	0	1	92	1,956	1	0	1	98	1,729	1	0	1	86	1,264	0	0	1	63	
			T2M	1,756	1	0	1	88	1,864	1	0	1	93	1,648	1	0	1	82	1,205	0	0	1	60	
			T3S	1,822	0	0	1	91	1,934	0	0	1	97	1,710	0	0	1	86	1,250	0	0	1	63	
			T3M	1,804	1	0	1	90	1,914	1	0	1	96	1,693	1	0	1	85	1,237	0	0	1	62	
			T4M	1,767	1	0	1	88	1,876	1	0	1	94	1,658	0	0	1	83	1,212	0	0	1	61	
			TFTM	1,837	0	0	1	92	1,950	0	0	1	98	1,724	0	0	1	86	1,260	0	0	1	63	
			ASYDF	1,642	1	0	1	82	1,743	1	0	1	87	1,541	1	0	1	77	1,127	0	0	1	56	
			T2S	2,272	1	0	1	84	2,409	1	0	1	89	2,421	1	0	1	90	1,544	0	0	1	57	
			T2M	2,165	1	0	1	80	2,296	1	0	1	85	2,307	1	0	1	85	1,472	0	0	1	55	
			T3S	2,247	1	0	1	83	2,382	1	0	1	88	2,394	1	0	1	89	1,527	0	0	1	57	
			T3M	2,224	1	0	1	82	2,358	1	0	1	87	2,370	1	0	1	88	1,512	0	0	1	56	
			T4M	2,179	1	0	1	81	2,310	1	0	1	86	2,322	1	0	1	86	1,481	0	0	1	55	
	TFTM	2,265	1	0	1	84	2,401	1	0	1	89	2,413	1	0	1	89	1,539	0	0	1	57			
	ASYDF	2,025	1	0	1	75	2,147	1	0	1	80	2,158	1	0	1	80	1,376	1	0	1	51			
	T2S	3,011	1	0	1	75	3,190	1	0	1	80	3,202	1	0	1	80	2,235	1	0	1	58			
	T2M	2,870	1	0	1	72	3,040	1	0	1	76	3,051	1	0	1	76	2,130	1	0	2	55			
	T3S	2,978	1	0	1	74	3,155	1	0	1	79	3,166	1	0	1	79	2,210	1	0	2	57			
	T3M	2,948	1	0	1	74	3,123	1	0	1	78	3,134	1	0	1	78	2,187	1	0	2	56			
	T4M	2,888	1	0	1	72	3,059	1	0	1	76	3,071	1	0	1	77	2,143	1	0	2	55			
	TFTM	3,002	1	0	1	75	3,180	1	0	1	80	3,192	1	0	1	80	2,228	1	0	2	57			
	ASYDF	2,684	1	0	1	67	2,843	1	0	1	71	2,854	1	0	1	71	1,991	1	0	2	51			
	20C (20 LEDs)	530mA	36 W	T2S	3,649	1	0	1	101	3,876	1	0	1	108	3,429	1	0	1	95	2,504	1	0	1	70
				T2M	3,478	1	0	1	97	3,694	1	0	1	103	3,267	1	0	1	91	2,387	1	0	1	66
				T3S	3,609	1	0	1	100	3,833	1	0	1	106	3,390	1	0	1	94	2,477	1	0	1	69
T3M				3,572	1	0	1	99	3,794	1	0	1	105	3,356	1	0	1	93	2,451	1	0	2	68	
T4M				3,500	1	0	2	97	3,717	1	0	2	103	3,288	1	0	1	91	2,402	1	0	1	67	
TFTM				3,638	1	0	1	101	3,864	1	0	1	107	3,418	1	0	1	95	2,496	1	0	1	69	
ASYDF				3,252	1	0	2	90	3,454	1	0	2	96	3,056	1	0	2	85	2,232	1	0	1	62	
T2S				4,502	1	0	1	96	4,776	1	0	1	102	4,794	1	0	1	102	3,065	1	0	1	65	
T2M				4,290	1	0	1	91	4,552	1	0	1	97	4,569	1	0	1	97	2,921	1	0	1	62	
T3S				4,452	1	0	1	95	4,723	1	0	2	100	4,741	1	0	2	101	3,031	1	0	1	64	
T3M				4,407	1	0	2	94	4,675	1	0	2	99	4,693	1	0	2	100	3,000	1	0	1	64	
T4M				4,318	1	0	2	92	4,581	1	0	2	97	4,598	1	0	2	98	2,939	1	0	1	63	
TFTM		4,488	1	0	2	95	4,761	1	0	2	101	4,779	1	0	2	102	3,055	1	0	1	65			
ASYDF		4,012	1	0	2	85	4,257	1	0	2	91	4,273	1	0	2	91	2,732	1	0	1	58			
T2S		5,963	1	0	1	80	6,327	1	0	1	84	6,351	1	0	1	85	4,429	1	0	1	61			
T2M		5,683	1	0	2	76	6,029	1	0	2	80	6,052	1	0	2	81	4,221	1	0	2	58			
T3S		5,896	1	0	2	79	6,256	1	0	2	83	6,280	1	0	2	84	4,380	1	0	2	60			
T3M		5,837	1	0	2	78	6,193	1	0	2	83	6,216	1	0	2	83	4,335	1	0	2	59			
T4M		5,719	1	0	2	76	6,067	1	0	2	81	6,090	1	0	2	81	4,248	1	0	2	58			
TFTM		5,944	1	0	2	79	6,307	1	0	2	84	6,330	1	0	2	84	4,415	1	0	2	60			
ASYDF		5,314	1	0	2	71	5,638	2	0	2	75	5,660	2	0	2	75	3,947	1	0	2	54			

## Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED		350	40K							DDBXD
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options	Other Options	Finish (required)	
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium ASYDF Asym-metric diffuse	MVOLT <sup>1</sup> 120 <sup>1</sup> 208 <sup>1</sup> 240 <sup>1</sup> 277 <sup>1</sup> 347 <sup>2</sup> 480 <sup>2</sup>	Shipped included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) <sup>3</sup>	Shipped installed PE Photoelectric cell, button type <sup>4</sup> DMG 0-10V dimming driver (no controls) PIR 180° motion/ambient light sensor, <15' mtg ht <sup>5</sup> PIRH 180° motion/ambient light sensor, 15-30' mtg ht <sup>5</sup> ELCW Emergency battery backup (includes external component enclosure) <sup>6</sup>	Shipped installed SF Single fuse (120, 277 or 347V) <sup>7</sup> DF Double fuse (208, 240 or 480V) <sup>7</sup> HS House-side shield <sup>8</sup> SPD Separate surge protection <sup>9</sup> Shipped separately BSW Bird-deterrent spikes WG Wire guard VG Vandal guard DDL Diffused drop lens	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone	

## NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- PIR specifies the Sensor Switch SBGR-10-ODP control; PIRH specifies the Sensor Switch SBGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Emergency components located in back box housing. Emergency mode IES files located on product page at [www.lithonia.com](http://www.lithonia.com)
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- See the electrical section on page 3 for more details.

## Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory



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DSXW1-LED  
Rev. 9/17/14

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

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXW1 LED 20C 1000 platform 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).

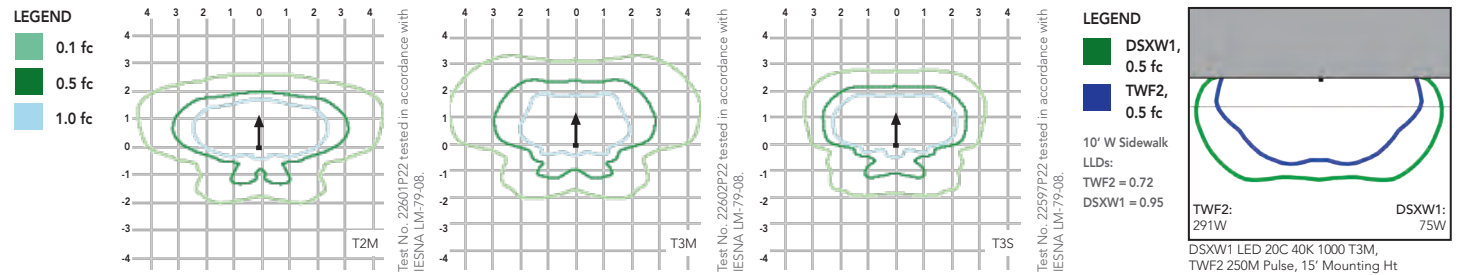
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isfootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



## Options and Accessories



## FEATURES & SPECIFICATIONS

### INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

### CONSTRUCTION

Two-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. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

### 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 textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (80 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 CRI) configurations.

### ELECTRICAL

Light engine(s) consist of 10 high-efficiency LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a

## Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	75 W	0.69	0.40	0.35	0.30	0.23	0.17



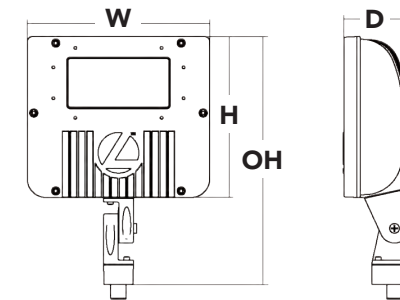
d#series

# D-Series Size 1 LED Flood Luminaire



## Specifications

EPA:	0.6 ft <sup>2</sup> (0.05 m <sup>2</sup> )
Depth:	3-1/8" (8.0 cm)
Width:	8-7/8" (22.4 cm)
Height:	7-3/4" (19.8 cm)
Overall Height:	12" (30.5 cm)
Weight:	7.2 lbs (3.3 kg)



## Ordering Information

EXAMPLE: DSXF1 LED 2 A530/40K MSP MVOLT THK DDBXD

DSXF1 LED	1	A530/40K	HMF	MVOLT	THK	DDBXD	
Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options	Finish (required)
DSXF1 LED	1 One COB engine 2 Two COB engines	<b>530 mA options:</b> A530/30K 3000K A530/40K 4000K A530/50K 5000K	NSP Narrow spot MSP Medium spot MFL Medium flood FL Flood WFL Wide flood WFR Wide flood, rectangular HMF Horizontal flood	MVOLT <sup>1</sup> 120 <sup>1</sup> 208 <sup>1</sup> 240 <sup>1</sup> 277 <sup>1</sup>	<b>Shipped included</b> THK Knuckle with 1/2" NPS threaded pipe IS Integral slipfitter (fits 2-3/8" O.D. tenon) <b>Shipped separately<sup>2</sup></b> DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required)	<b>Shipped installed</b> PE Photocontrol, button style <sup>3</sup> SF Single fuse (120, 277V) <sup>4</sup> <b>Shipped separately<sup>2</sup></b> UBV Upper/bottom visor (universal) FV Full visor VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White

### Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
DSXF1 LED 1 A530/40K WFL MVOLT THK DDBXD	DSXF1 LED 1 40K
DSXF1 LED 1 A530/50K WFL MVOLT THK DDBXD	DSXF1 LED 1 50K
DSXF1 LED 2 A530/40K WFL MVOLT THK DDBXD	DSXF1 LED 2 40K
DSXF1 LED 2 A530/50K WFL MVOLT THK DDBXD	DSXF1 LED 2 50K

## Accessories

Ordered and shipped separately.

DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" O.D. tenons; mates with 1/2" threaded knuckle (specify finish)
FRWB DDBXD U	Radius wall bracket, 2-3/8" O.D. tenon (specify finish)
FSPB DDBXD U	Steel square pole bracket, 2-3/8" O.D. tenon (specify finish)
DSXF1UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF1FV DDBXD U	Full visor accessory (specify finish)
DSXF1VG U	Vandal guard accessory

For more mounting options, visit our Floodlighting Accessories pages.

## NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF option) or photocontrol (PE).
- Also available as separate accessories; see Accessories information at left.
- Photocontrol (PE) requires 120, 208, 240 or 277 voltage option.
- Single fuse (SF) requires 120 or 277 voltage option.

## 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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

Light Engines	Drive Current (mA)	Performance Package	System Watts	Dist. Type	Field Angle		Beam Angle			30K (3000K, 70 CRI)			40K (4000K, 70 CRI)			50K (5000K, 70 CRI)		
					°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	
					°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	
1	530	A530/-K	19W	NSP	48	49	19	19	7062	1408	74	7300	1692	89	7277	1700	89	
					MSP	50	48	24	23	6782	1541	81	6740	1923	101	6719	1916	101
					MFL	60	60	47	46	2249	1316	69	2806	1581	83	2797	1588	84
					FL	85	84	63	62	1845	1752	92	1855	2105	111	1849	2115	111
					WFL	106	106	71	72	1301	1739	92	1391	1995	105	1387	2099	110
					WFR	107	88	85	64	1279	1764	93	1386	2119	112	1381	2129	112
					HMF	100	62	80	13	1445	771	41	1259	927	49	1255	931	49
2	530	A530/-K	37W	NSP	48	49	19	19	13,379	2668	72	13,803	3206	87	13,760	3221	87	
					MSP	50	48	24	23	12,850	2920	79	12,744	3643	98	12,704	3631	98
					MFL	60	60	47	46	4260	2493	67	5305	2995	81	5288	3009	81
					FL	85	84	63	62	3496	3320	90	3507	3989	108	3496	4008	108
					WFL	106	106	71	72	2465	3294	89	2630	3958	107	2622	3977	107
					WFR	107	88	85	64	2422	3342	90	2620	4015	109	2612	4034	109
					HMF	100	62	80	13	2738	1462	40	2381	1756	47	2374	1764	48

### 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	1.07
10°C / 50°F	1.04
20°C / 68°F	1.02
25°C / 77°F	1.00
30°C / 86°F	0.98
40°C / 104°F	0.95

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXF1 LED 2 A530 platform based on 8400 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	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.90	0.80

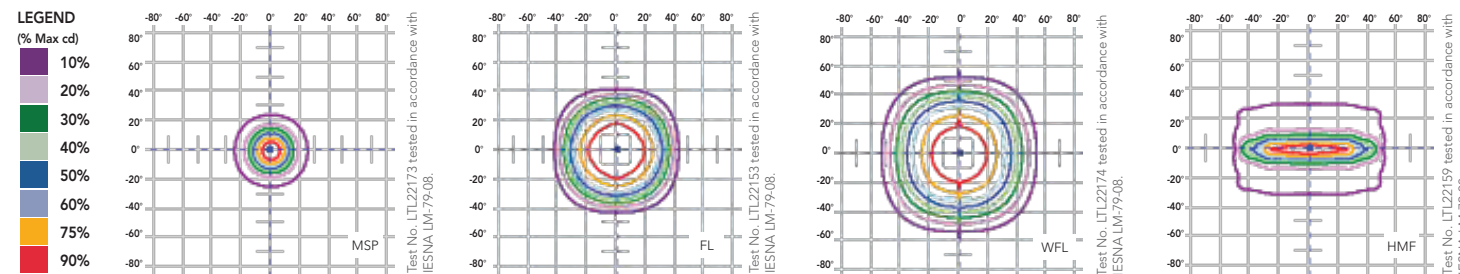
### Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
1	530	19W	0.16	0.1	0.09	0.08	-	-
2	530	37W	0.32	0.19	0.17	0.15	-	-

## Photometric Diagrams

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

Iscandela plots for the DSXF1 LED 2 A530/40K.



## Mounting, Options and Accessories



## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 Flood reflects the embedded high performance LED technology. It is ideal for landscape, signage and accent lighting in many commercial and residential applications.

### CONSTRUCTION

Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.6 ft<sup>3</sup>) for optimized 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.

### OPTICS

A variety of precision-molded vacuum-metallized specular reflectors are engineered for superior field-to-beam ratios, uniformity and spacing. Light engines are available in 3000K (70 CRI min.), 4000K (70 CRI min.) or 5000K (70 CRI min.) configurations. Optional visors offer additional versatility.

### ELECTRICAL

Light engine(s) consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L80). Single-engine unit uses a Class 2 electronic driver; dual-engine unit uses a Class 1 electronic driver. Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Integral adjustable knuckle with 1/2-14NPS threaded pipe, tenon slipfitter, or integral slipfitter, facilitates quick and easy installation to a variety of mounting accessories. This secure connection enables the D-Series Size 1 to withstand up to a 1.5 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.



# TWR1 LED LED Wall Luminaire

Catalog Number	LUMINAIRE - ROOF1
Notes	
Type	

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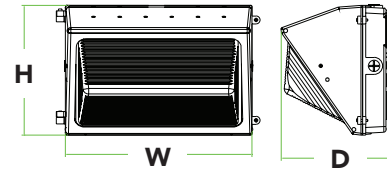
## Introduction

The popular TWR1 luminaire is now available with long-lasting, energy-efficient LED technology. Featuring a classic dayform, the TWR1 LED offers a traditional appearance and is powered by advanced LEDs.

The TWR1 LED luminaire is powerful yet energy efficient, capable of replacing up to a 320W metal halide luminaire while saving up to 80% in energy costs. Offering an expected service life of more than 20 years, the TWR1 LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

## Specifications

<b>Width:</b>	12-15/16" (32.9 cm)
<b>Height:</b>	9" (22.9 cm)
<b>Depth:</b>	7-1/2" (19 cm)
<b>Weight:</b>	11.95 lbs (5.42kg)



## Ordering Information

EXAMPLE: TWR1 LED 2 50K MVOLT

TWR1 LED	1	40K				DDBXD
Series	Performance Package	Color Temperature	Voltage	Controls		Finish
TWR1 LED	1 2100 lumens	40K 4000K <sup>1</sup>	MVOLT <sup>2</sup>	(blank) No controls		(blank) Dark bronze
	2 3500 lumens	50K 5000K <sup>1</sup>		PE <sup>3</sup> MVOLT Photo Control		
	3 4900 lumens					

### NOTES

- Correlated color temperature (CCT) shown is nominal per ANSI C78, 377-2008. Except TWR1 LED 1 50K which is 5400 CCT.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Photo control not available with 4000K.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The TWR1 LED combines traditional wall pack design with high-output LEDs to provide an energy-efficient, low maintenance LED wall pack suitable for replacing up to 320W MH fixtures. The traditional shape helps maintain building aesthetics when replacing only a portion of your building's wall packs. TWR1 LED is ideal for outdoor applications such as carpools, loading areas, driveways and parking areas.

### CONSTRUCTION

Rugged cast-aluminum housing with bronze polyester powder paint for lasting durability. Door is hinged on the side so door swings out of the way during installation and service. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. MVOLT driver operates on any line voltage from 120-277V (50/60Hz). 6kV surge protection. Rated for outdoor installations, -40°C minimum ambient.

### OPTICS

High-performance LEDs maintain up to 87% of light output at 100,000 hours of service life (L87/100,000 hours). Prismatic glass lens designed for superior lighting distribution, uniformity and fixture spacing. See Lighting Facts label and photometry reports for specific fixture performance.

### INSTALLATION

Designed for wall mounting above four feet from ground. Housing is configured for mounting directly over a standard 4" outlet box (by others) or for surface wiring via any of three convenient 1/2" threaded conduit entry hubs.

### LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations. Tested in accordance with IESNA LM-79 and LM-80 standards.

### WARRANTY

Five-year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications are subject to change without notice. Actual performance may differ as a result of end-user environment and application.

## 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. Actual performance may differ as a result of end-user environment and application.

Fixture Model Number	CCT	Drive Current	System Watts	Lumens	B	U	G	LPW	CRI
TWR1 LED 1 40K MVOLT	4000K	960mA	33W	2161	0	3	2	66	75
TWR1 LED 1 50K MVOLT	5000K	960mA	35W	2126	0	3	2	62	70
TWR1 LED 2 40K MVOLT	4000K	530mA	39W	3497	1	3	3	90	73
TWR1 LED 2 50K MVOLT	5000K	530mA	41W	3527	1	3	3	86	66
TWR1 LED 3 40K MVOLT	4000K	530mA	55W	4966	1	3	3	91	73
TWR1 LED 3 50K MVOLT	5000K	530mA	59W	4875	1	3	3	83	66

### Electrical Load

Fixture Model Number	Drive Current	System Watts	Current Load (A) @			
			120V	208V	240V	277V
TWR1 LED 1 40K MVOLT	960mA	33W	0.31	0.18	0.15	0.13
TWR1 LED 1 50K MVOLT	960mA	35W	0.34	0.20	0.17	0.15
TWR1 LED 2 40K MVOLT	530mA	39W	0.36	0.21	0.18	0.16
TWR1 LED 2 50K MVOLT	530mA	41W	0.40	0.23	0.20	0.17
TWR1 LED 3 40K MVOLT	530mA	55W	0.51	0.29	0.25	0.22
TWR1 LED 3 50K MVOLT	530mA	59W	0.56	0.32	0.28	0.24

### 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	1.01
20°C	68°F	1.00
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
40°C	104°F	0.98

### Projected LED Lumen Maintenance

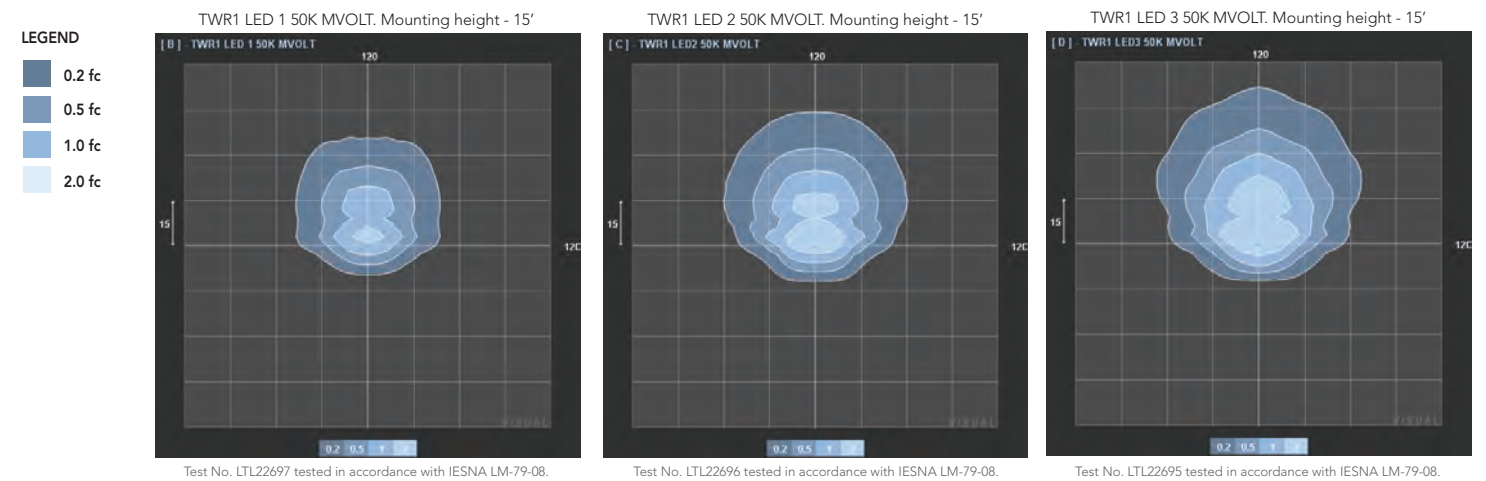
Data references the extrapolated performance projections in a 40°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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.

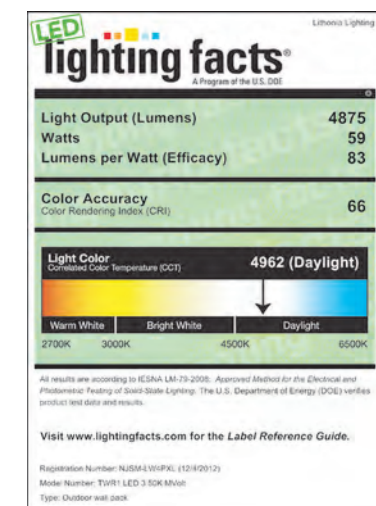
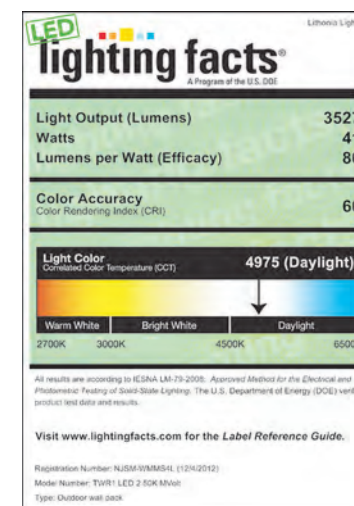
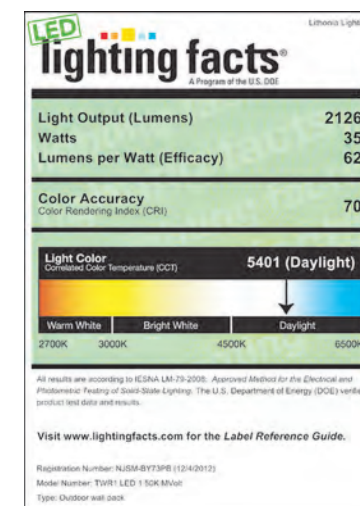
Operating Hours	0	25,000	50,000	60,000	100,000
LM Factor TWR1 LED 1	1.0	.93	.88	.86	.79
LM Factor TWR1 LED 2	1.0	.94	.91	.90	.86
LM Factor TWR1 LED 3	1.0	.94	.92	.91	.87

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting TWR1 LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



## Lighting Facts Labels



Catalog Number		POLES - PA, PB
Notes	Type	

## FEATURES & SPECIFICATIONS

**INTENDED USE** — Round tapered aluminum roadway pole with upsweep mast arm(s) for up to 40 foot mounting heights including rise of arm.

**CONSTRUCTION** — Shaft: Shaft is spun tapered from seamless 6063 alloy aluminum tubing and heat-treated to a T6 temper. Circumferential satin-brushed finish. Round in cross-section down length of shaft and cone tapered to the base diameter.

**Arm:** Body of mounting arm is tapered aluminum alloy 6063-T6 tube with 2-3/8" OD (2" NPS) pipe size at luminaire end. The pole end of the arm is welded to an aluminum alloy 6063-T6 mounting plate.

**Mounting:** Arm mounting plate bolts to the shaft using stainless steel bolts, nuts and washers. A grommet is provided for the 1-1/4" diameter wiring hole between the pole shaft and the bracket arm.

**Anchor base:** Cast from A356 aluminum alloy and heat treated to T6 temper. Base plate and shaft are circumferentially welded top and bottom.

**Anchor bolts:** Fabricated from carbon steel bar with minimum-yield strength of 55,000 psi. Upper portion of anchor bolt is galvanized per ASTM A-153. Each anchor bolt is furnished with two hex nuts and two flat washers.

**Grounding:** Provision located inside hand hole rim. Grounding hardware is not included (provided by others).

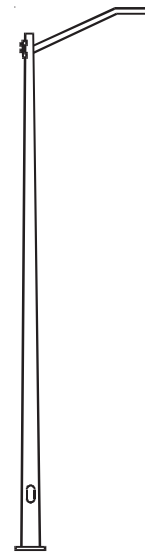
**Hand hole:** A nominal 3" x 5" or 4" or 6" reinforced flush covered hand hole is centered 18" above the base

**Hardware:** Stainless steel

**Top cap:** Removable top cap provided.

**Bolt covers:** A356 bolt covers included with anchor base unless otherwise specified.

**Finish:** Must specify finish.



Anchor Base Poles / Mounting Arm Combo

# RTAU

## ROUND TAPERED ALUMINUM POLE WITH UPSWEEP MAST ARM

20' to 40' Fixture Mounting Height

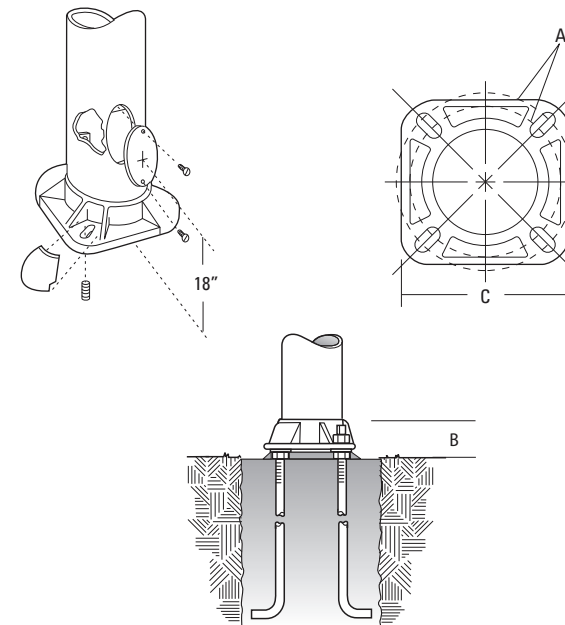
## RTAU Round Tapered Aluminum Poles with Mast Arm

### TECHNICAL INFORMATION

Catalog Number	Fixture mount ht. (ft) <sup>1</sup>	Mtg. arm length (feet)	Pole shaft diam. (in. x in.)	Wall thickness (in.)	EPA ft <sup>2</sup> with 1.3 gust	Max. Weight (lbs.)	Bolt circle (in.)	Bolt size (inches)	App. ship weight (pounds)
					100 mph				
RTAU 20 6E BMA US4	20'	4'	4.5" x 6"	0.156	2	65	9-10	.75 x 30 x 3	90
RTAU 20 6G BMA US6	20'	6'	4.5" x 6"	0.188	2	65	9-10	.75 x 30 x 3	100
RTAU 20 6G BMA US8	20'	8'	4.5" x 6"	0.188	1.74	65	9-10	.75 x 30 x 3	105
RTAU 25 7E BMA US4	25'	4'	4.5" x 7"	0.156	2	65	10-11	1 x 36 x 4	120
RTAU 25 7G BMA US6	25'	6'	4.5" x 7"	0.188	2	65	10-11	1 x 36 x 4	140
RTAU 25 8E BMA US8	25'	8'	4.5" x 8"	0.156	1.74	65	11-12	1 x 36 x 4	135
RTAU 30 8E BMA US4	30'	4'	4.5" x 8"	0.156	2	65	11-12	1 x 36 x 4	150
RTAU 30 8G BMA US6	30'	6'	4.5" x 8"	0.188	2	65	11-12	1 x 36 x 4	170
RTAU 30 8G BMA US8	30'	8'	4.5" x 8"	0.188	1.74	65	11-12	1 x 36 x 4	175
RTAU 35 8G BMA US4	35'	4'	4.5" x 8"	0.188	2	65	11-12	1 x 36 x 4	190
RTAU 35 8J BMA US6	35'	6'	4.5" x 8"	0.250	2	65	11-12	1 x 36 x 4	240
RTAU 35 8J BMA US8	35'	8'	4.5" x 8"	0.250	1.74	65	11-12	1 x 36 x 4	245
RTAU 40 8J BMA US4	40'	4'	4.5" x 8"	0.250	2	65	11-12	1 x 36 x 4	255
RTAU 40 8J BMA US6	40'	6'	4.5" x 8"	0.250	2	65	11-12	1 x 36 x 4	260
RTAU 40 10G BMA US8	40'	8'	6" x 10"	0.188	1.74	65	14-15	1 x 48 x 4	265

NOTES:

1 Denotes fixture mounting height, NOT nominal pole height.



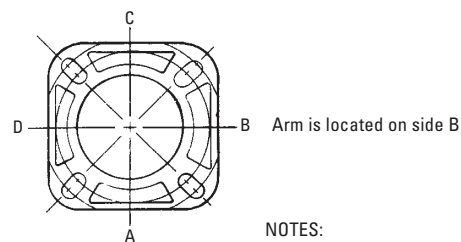
## ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RTAU 20 6G BMA US4 BA VD

RTAU	25FT	8E	BMA	US8	FBC/VD	ADB
Shaft/arm type	Nominal fixture mounting height		Mounting	Arm length <sup>3</sup>	Options	Finish <sup>4</sup>
RTAU	20 – 40 feet (See back page.)		BMA Bolt on mast arm	US4 4' arm length US6 6' arm length US8 8' arm length	<u>Shipped installed</u> L/AB Less anchor bolts FBC Full base cover VD Vibration damper TP Tamper proof H1-18Axx Horizontal arm bracket (1 fixture) <sup>1,2</sup> FDLxx Festoon outlet less electrical <sup>1</sup> CPL12xx 1/2" coupling <sup>1</sup> CPL34xx 3/4" coupling <sup>1</sup> CPL1xx 1" coupling <sup>1</sup> NPL12xx 1/2" threaded nipple <sup>1</sup> NPL34xx 3/4" threaded nipple <sup>1</sup> NPL1xx 1" threaded nipple <sup>1</sup> EHHxx Extra handhole <sup>1</sup>	<u>Standard colors</u> DDB Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum BA Brushed aluminum <u>Classic colors</u> DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue <u>Class 1 architectural anodized</u> ABL Black ADB Dark bronze ANA Natural <u>Architectural colors</u> (powder finish) <sup>4</sup>

## HANDHOLE ORIENTATION



NOTES:

- Specify location and orientation when ordering option.  
For 1st "x": Specify the height in feet above base of pole.  
Example: 5ft = 5 and 20ft = 20  
For 2nd "x": Specify orientation from handhole (A,B,C,D)  
Refer to the Handhole Orientation diagram on this page.
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard.
- Additional arm lengths and types available, some restrictions apply.
- Finish must be specified. Additional colors available; see [www.lithonia.com/archcolors](http://www.lithonia.com/archcolors) or Architectural Colors brochure (Form No. 794.3).

POLE DATA					
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description
6"	9" – 10"	4.75"	9.75"	ABTEMPLATE PJ50033	AB30-0
7"	10" – 11"	4.75"	10.5"	ABTEMPLATE PJ50034	AB36-0
8"	11" – 12"	4.25"	11.5"	ABTEMPLATE PJ50035	AB36-0
10"	14" – 15"	5.25"	14"	ABTEMPLATE PJ50481	AB481-0

### IMPORTANT:

- These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

### IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.





# D-Series Size 1 Mast Arm Mount LED Area Luminaire



(mast arm not included)

d#series

## Specifications

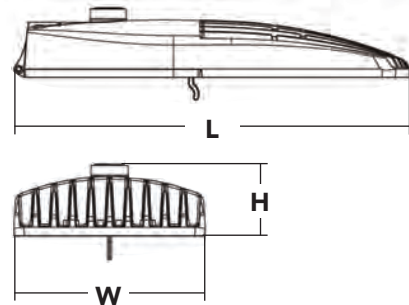
**EPA:** 0.9 ft<sup>2</sup>  
(0.08 m<sup>2</sup>)

**Length:** 27"  
(68.6 cm)

**Width:** 13"  
(33.0 cm)

**Height:** 5"  
(12.7 cm)

**Weight (max):** 26 lbs  
(11.8 kg)



## Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT MA DDBXD

DSX1 LED	Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Options	Finish (required)
DSX1 LED	Forward optics	30C 30 LEDs (one engine)	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K (80 CRI min.) 40K 4000 K (70 CRI min.) 50K 5000 K (67 CRI)	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 TSS Type V short TSM Type V medium TSW Type V wide	MVOLT <sup>1</sup> 120 <sup>1</sup> 208 <sup>1</sup> 240 <sup>1</sup> 277 <sup>1</sup> 347 <sup>2</sup> 480 <sup>2</sup>	MA Mast arm ready	Shipped installed (blank) No NEMA twist-lock receptacle (decorative cover), wildlife shield, trigger latch, and bridge fitter. DMG 0-10V dimming driver (no controls) PER NEMA twist-lock receptacle only (no controls) DCR Dimmable and controllable via ROAM® (no controls) <sup>3</sup> HS House-side shield <sup>4</sup> WTB Utility terminal block DS Dual switching <sup>5,6</sup> BUBLVL External bubble level L90 Left rotated optics <sup>7</sup> R90 Right rotated optics	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBL BXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Accessories

Ordered and shipped separately.

SBOR 10 ODP BZ 3V	Pole-mounted motion/ambient sensor, 8-15' mounting height, MVOLT (specify finish)
SBOR 6 ODP BZ 3V	Pole-mounted motion/ambient sensor, 15-30' mounting height, MVOLT (specify finish)
DLL127F 1.5 JU	Photocell - SSL twist-lock, MVOLT <sup>8</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>8</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>8</sup>
SC U	Shorting cap <sup>8</sup>
DSX1HS 30C U	House-side shield for 30 LED unit
DSX1HS 40C U	House-side shield for 40 LED unit
DSX1HS 60C U	House-side shield for 60 LED unit

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

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

Catalog Number LUMINAIRE - ROOF2

Notes

Type

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

## Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 - 400W metal halide in area and street lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

## 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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	30K (3000K, 80 minimum CRI)					40K (4000K, 70 minimum CRI)					50K (5000K, 67 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30C (30 LEDs)	700 mA	30C 700 -K	68 W	T1S	5,290	1	0	1	78	6,524	2	0	2	96	7,053	2	0	2	104
				T2S	5,540	1	0	1	81	6,833	2	0	2	100	7,387	2	0	2	109
				T2M	5,360	1	0	2	79	6,611	2	0	2	97	7,147	2	0	2	105
				T3S	5,479	1	0	1	81	6,757	1	0	2	99	7,305	2	0	2	107
				T3M	5,452	1	0	2	80	6,724	2	0	2	99	7,269	2	0	2	107
				T4M	5,461	1	0	2	80	6,736	2	0	2	99	7,282	2	0	2	107
				TFTM	5,378	1	0	2	79	6,633	1	0	2	98	7,171	1	0	2	105
				TSVS	5,708	2	0	0	84	7,040	3	0	0	104	7,611	3	0	1	112
				TSS	5,639	2	0	0	83	6,955	2	0	0	102	7,519	3	0	0	111
				TSM	5,710	3	0	1	84	7,042	3	0	1	104	7,613	3	0	2	112
	TSW	5,551	3	0	1	82	6,847	3	0	2	101	7,401	3	0	2	109			
	1000 mA	30C 1000 -K	105 W	T1S	7,229	2	0	2	69	9,168	2	0	2	87	9,874	2	0	2	94
				T2S	7,572	2	0	2	72	9,603	2	0	2	91	10,342	2	0	2	98
				T2M	7,325	2	0	2	70	9,291	2	0	2	88	10,005	2	0	3	95
				T3S	7,488	2	0	2	71	9,496	2	0	2	90	10,227	2	0	2	97
				T3M	7,451	2	0	2	71	9,450	2	0	2	90	10,177	2	0	2	97
				T4M	7,464	2	0	2	71	9,467	2	0	2	90	10,195	2	0	2	97
				TFTM	7,351	1	0	2	70	9,323	2	0	2	89	10,040	2	0	3	96
				TSVS	7,801	3	0	1	74	9,894	3	0	1	94	10,655	3	0	1	101
				TSS	7,803	3	0	2	74	9,774	3	0	1	93	10,526	3	0	1	100
TSM				7,707	3	0	0	73	9,897	3	0	2	94	10,658	4	0	2	102	
40C (40 LEDs)	700 mA	40C 700 -K	89 W	T1S	6,876	2	0	2	77	8,639	2	0	2	97	9,345	2	0	2	105
				T2S	7,202	2	0	2	81	9,049	2	0	2	102	9,788	2	0	2	110
				T2M	6,968	2	0	2	78	8,755	2	0	2	98	9,469	2	0	3	106
				T3S	7,122	2	0	2	80	8,948	2	0	2	101	9,679	2	0	2	109
				T3M	7,088	2	0	2	80	8,905	2	0	2	100	9,632	2	0	2	108
				T4M	7,100	2	0	2	80	8,920	2	0	2	100	9,649	2	0	2	108
				TFTM	6,992	1	0	2	79	8,785	2	0	2	99	9,502	2	0	2	107
				TSVS	7,421	3	0	0	83	9,323	3	0	1	105	10,085	3	0	1	113
				TSS	7,331	2	0	0	82	9,210	3	0	1	103	9,962	3	0	1	112
				TSM	7,423	3	0	2	83	9,326	3	0	2	105	10,087	4	0	2	113
	1000 mA	40C 1000 -K	138 W	T1S	9,521	2	0	2	69	11,970	2	0	2	87	12,871	3	3	0	93
				T2S	9,972	2	0	2	72	12,558	3	0	3	91	13,481	3	0	3	98
				T2M	9,648	2	0	3	70	12,149	3	0	3	88	13,043	3	0	3	95
				T3S	9,862	2	0	2	71	12,418	2	0	2	90	13,331	2	0	2	97
				T3M	9,814	2	0	2	71	12,358	3	0	3	90	13,267	3	0	3	96
				T4M	9,831	2	0	2	71	12,379	2	0	3	90	13,290	2	0	3	96
				TFTM	9,681	2	0	2	70	12,191	2	0	3	88	13,087	2	0	3	95
				TSVS	10,275	3	0	1	74	12,937	3	0	1	94	13,890	4	0	1	101
				TSS	10,150	3	0	1	74	12,782	3	0	1	93	13,721	3	0	1	99
				TSM	10,278	4	0	2	74	12,942	4	0	2	94	13,894	4	0	2	101
60C (60 LEDs)	700 mA	60C 700 -K	131 W	T1S	10,226	2	0	2	78	12,871	3	0	3	98	13,929	3	0	3	106
				T2S	10,711	2	0	2	82	13,481	3	0	3	103	14,589	3	0	3	111
				T2M	10,363	2	0	3	79	13,043	3	0	3	100	14,115	3	0	3	108
				T3S	10,592	2	0	2	81	13,331	2	0	2	102	14,427	3	0	3	110
				T3M	10,541	2	0	2	80	13,267	3	0	3	101	14,357	3	0	3	110
				T4M	10,559	2	0	2	81	13,290	2	0	3	101	14,382	3	0	3	110
				TFTM	10,398	2	0	3	79	13,087	2	0	3	100	14,163	2	0	3	108
				TSVS	11,036	3	0	1	84	13,890	4	0	4	106	15,032	4	0	1	115
				TSS	10,902	3	0	1	83	13,721	3	0	1	105	14,849	4	0	1	113
				TSM	11,039	4	0	2	84	13,894	4	0	2	106	15,036	4	0	2	115
1000 mA	60C 1000 -K	209 W	T1S	14,017	3	0	3	67	17,632	3	0	3	84	19,007	3	0	3	91	
			T2S	14,681	3	0	3	70	18,467	3	0	3	88	19,908	3	0	3	95	
			T2M	14,204	3	0	3	68	17,867	3	0	3	85	19,260	3	0	3	92	
			T3S	14,518	3	0	3	69	18,262	3	0	3	87	19,687	3	0	3	94	
			T3M	14,448	3	0	3	69	18,173	3	0	4	87	19,591	3	0	4	94	
			T4M	14,473	3	0	3	69	18,205	3	0	3	87	19,625	3	0	4	94	
			TFTM	14,253	2	0	3	68	17,928	3	0	4	86	19,326	3	0	4	92	
			TSVS	15,127	4	0	1	72	19,028	4	0	1	91	20,512	4	0	1	98	
			TSS	14,943	4	0	1	71	18,797	4	0	1	90	20,263	4	0	1	97	
			TSM	15,131	4	0	2	72	19,033	4	0	2	91	20,517	5	0	3	98	
TSW	14,710	4	0	2	70	18,503	5	0	3	89	19,946	5	0	3	95				

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60Hz).
- Not available with single board, 530 mA product (30C 530 or 60C 530 DS). Not available with DCR.
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; requires NEMA twist-lock receptacle. Not available with 347 or 480V. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: [sales@roamservices.net](mailto:sales@roamservices.net).
- Also available as a separate accessory; see Accessories information at left.
- Requires two light engines. Provides 50% dimming capability via two independent drivers, each operating half the luminaire. N/A with PER, DCR, WTB or 530mA with 347V or 480V.
- Requires an additional switched line.
- Available with 60 LEDs (60C option) only.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • [www.lithonia.com](http://www.lithonia.com)

DSX1-MA-LED



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## 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	1.02
10°C	50°F	1.01
20°C	68°F	1.00
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	1.00
40°C	104°F	0.99

### Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
30	530	52	0.52	0.30	0.26	0.23	--	--
	700	68	0.68	0.39	0.34	0.30	0.24	0.17
	1000	105	1.03	0.59	0.51	0.45	0.36	0.26
40	530	68	0.67	0.39	0.34	0.29	0.23	0.17
	700	89	0.89	0.51	0.44	0.38	0.31	0.22
	1000	138	1.35	0.78	0.67	0.58	0.47	0.34
60	530	99	0.97	0.56	0.48	0.42	0.34	0.24
	700	131	1.29	0.74	0.65	0.56	0.45	0.32
	1000	209	1.98	1.14	0.99	0.86	0.69	0.50

### 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).

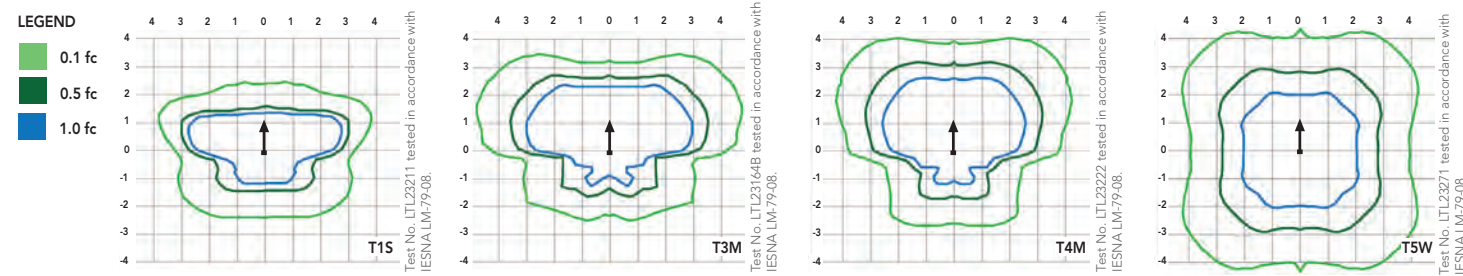
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX1 LED 60C 1000			
	1.0	0.95	0.93	0.88
	DSX1 LED 60C 700			
	1.0	0.99	0.98	0.96

## 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 (20').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for area and street lighting applications.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Low EPA (0.9 ft<sup>2</sup>) 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 lighting distribution, uniformity, and pole spacing. Light engines are available in 3000K (>80 CRI), 4000K (>70 CRI) or 5000K (67 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 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 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 or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Four-bolt mast arm mount provides easy, secure installation for nominal 1-1/4" to 2" diameter arms (1-5/8" to 2-3/8" O.D.) and enables the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. Housing includes cast-in wildlife shield. Die-cast trigger latch on door provides tool-less entry for easy and secure opening with one hand; top-side leveling crosshairs and internal bubble level assist with installation.

### LISTINGS

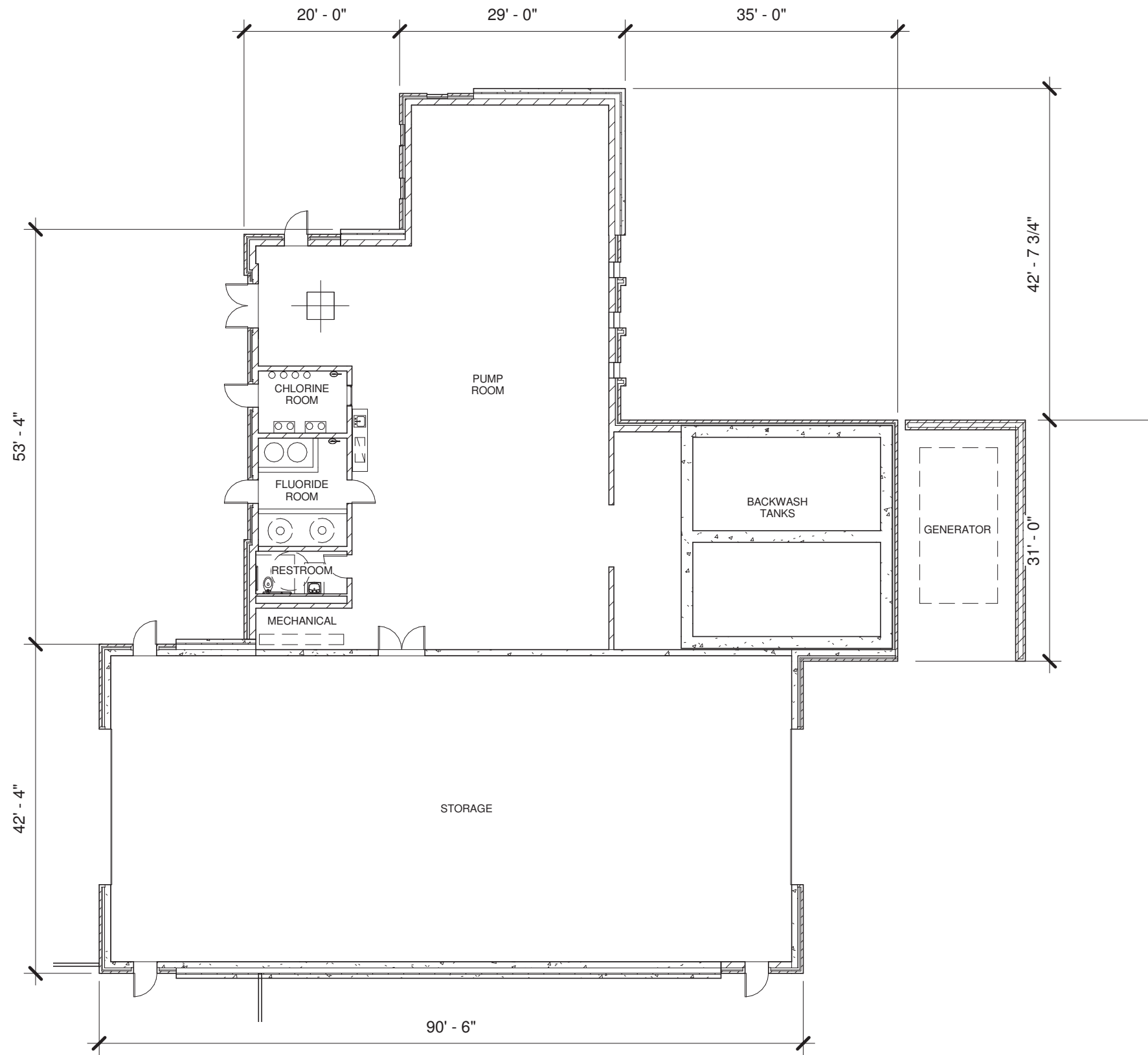
UL Listed for wet locations. Light engines are IP66 rated. Rated for -40°C minimum ambient. U.S. D663,462 S. International patents pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

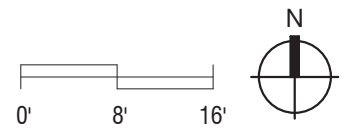
Five year limited warranty. Full warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.



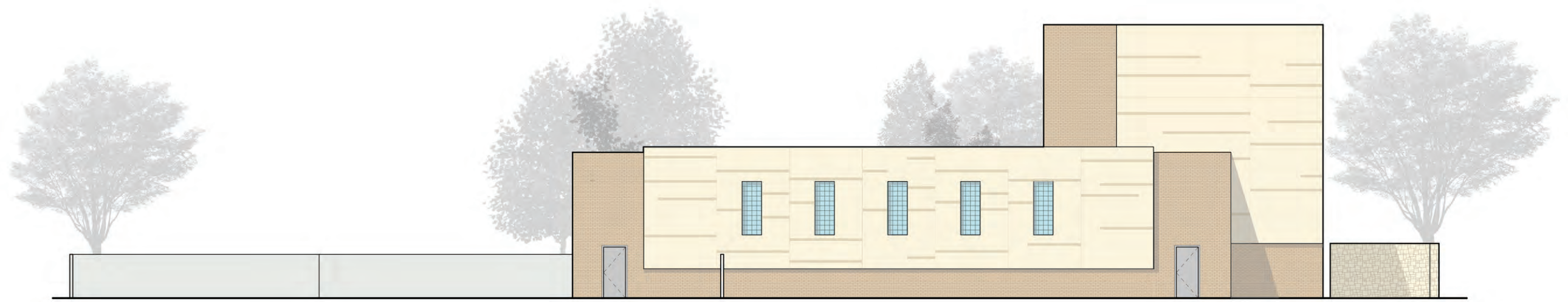
**FLOOR PLAN**

2015 WELL 31 WATER TREATMENT PLANT  
04/15/15

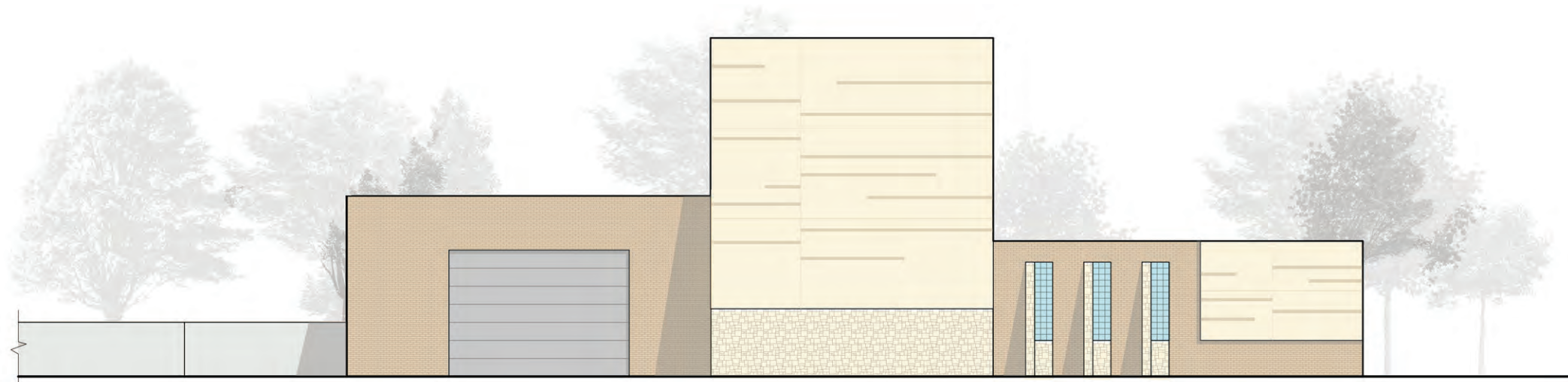




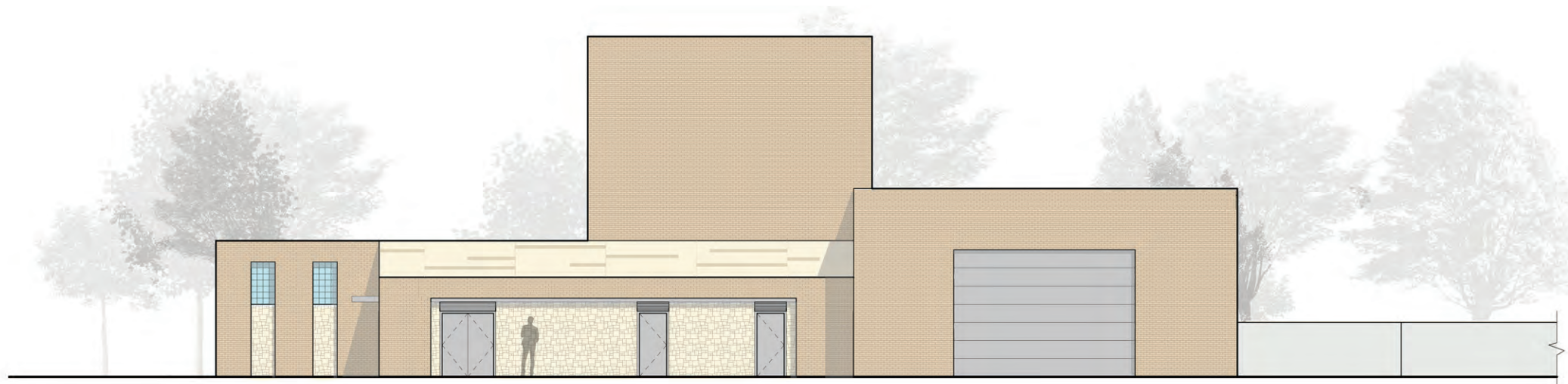
2 NORTH ELEVATION  
A02 1/8" = 1'-0"



1 SOUTH ELEVATION  
A02 1/8" = 1'-0"



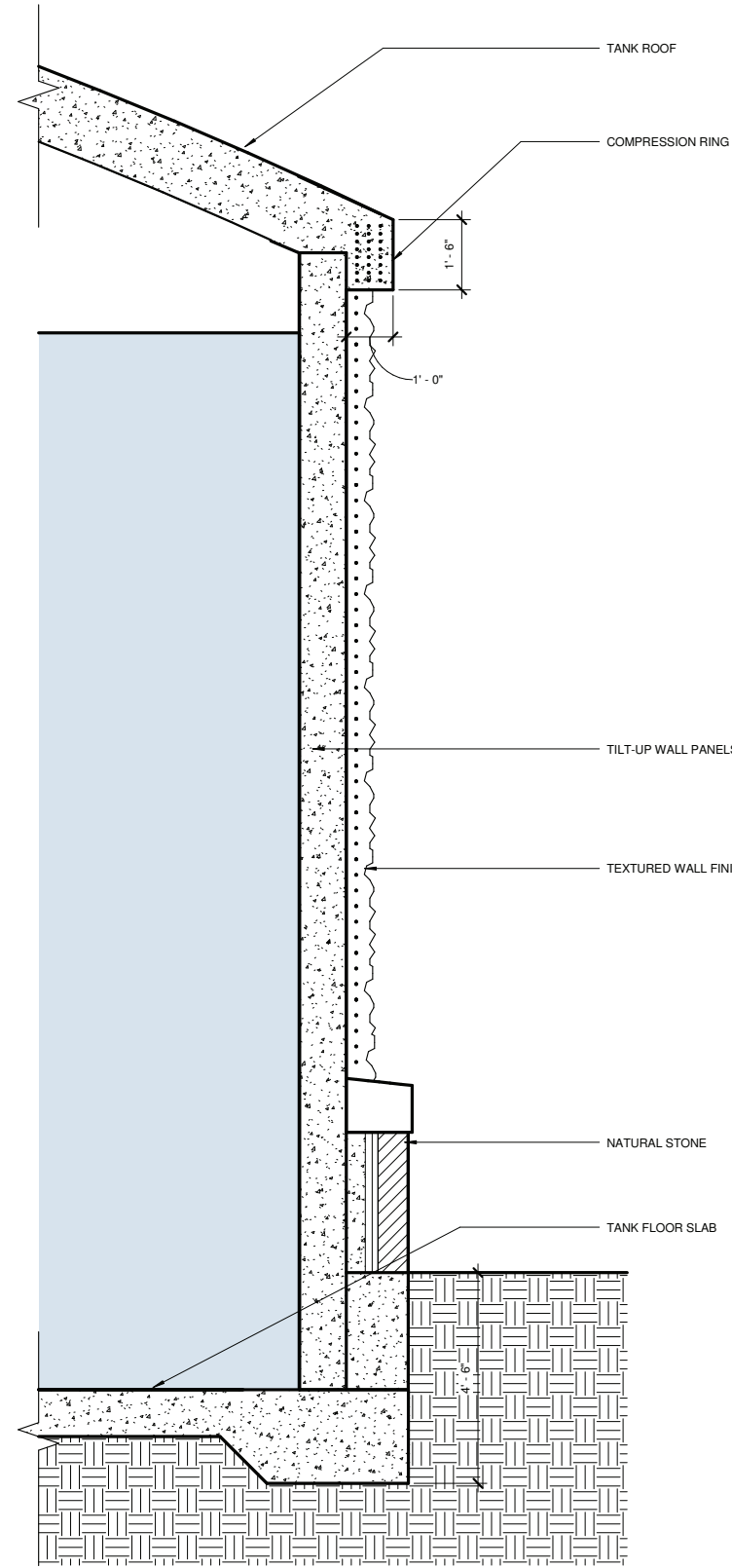
2 EAST ELEVATION  
A03 1/8" = 1'-0"



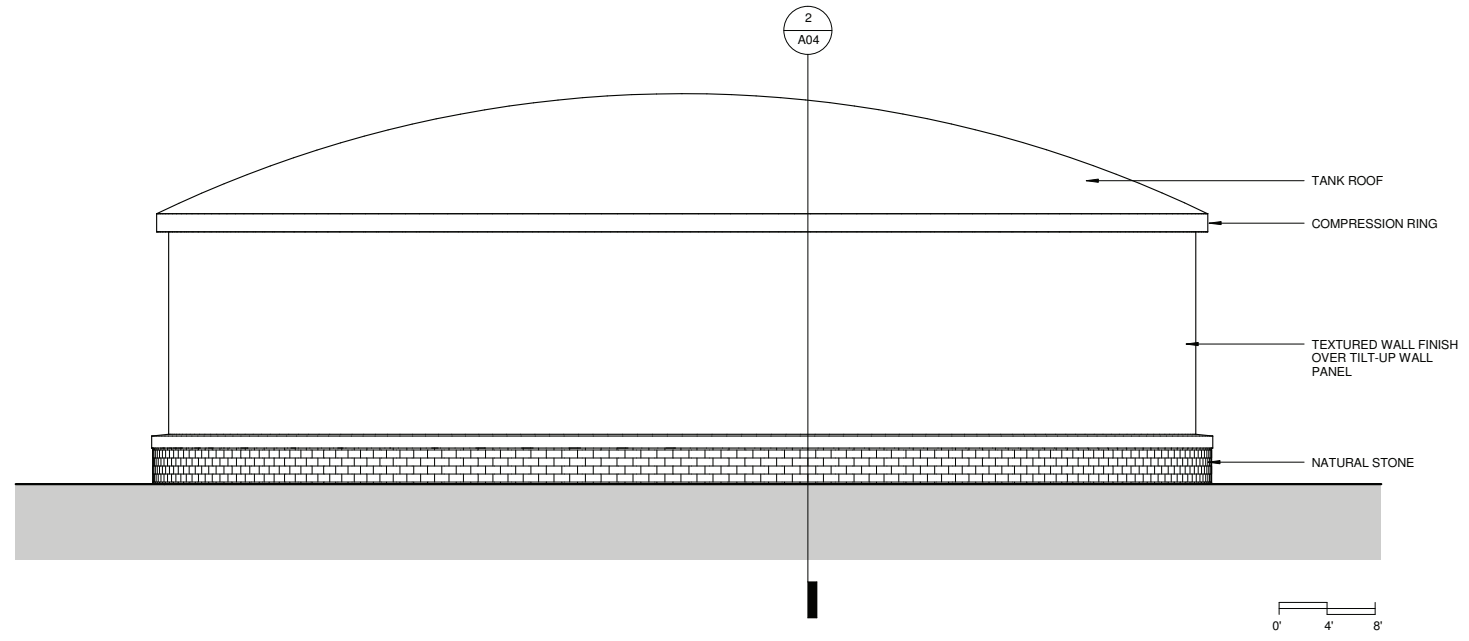
1 WEST ELEVATION  
A03 1/8" = 1'-0"



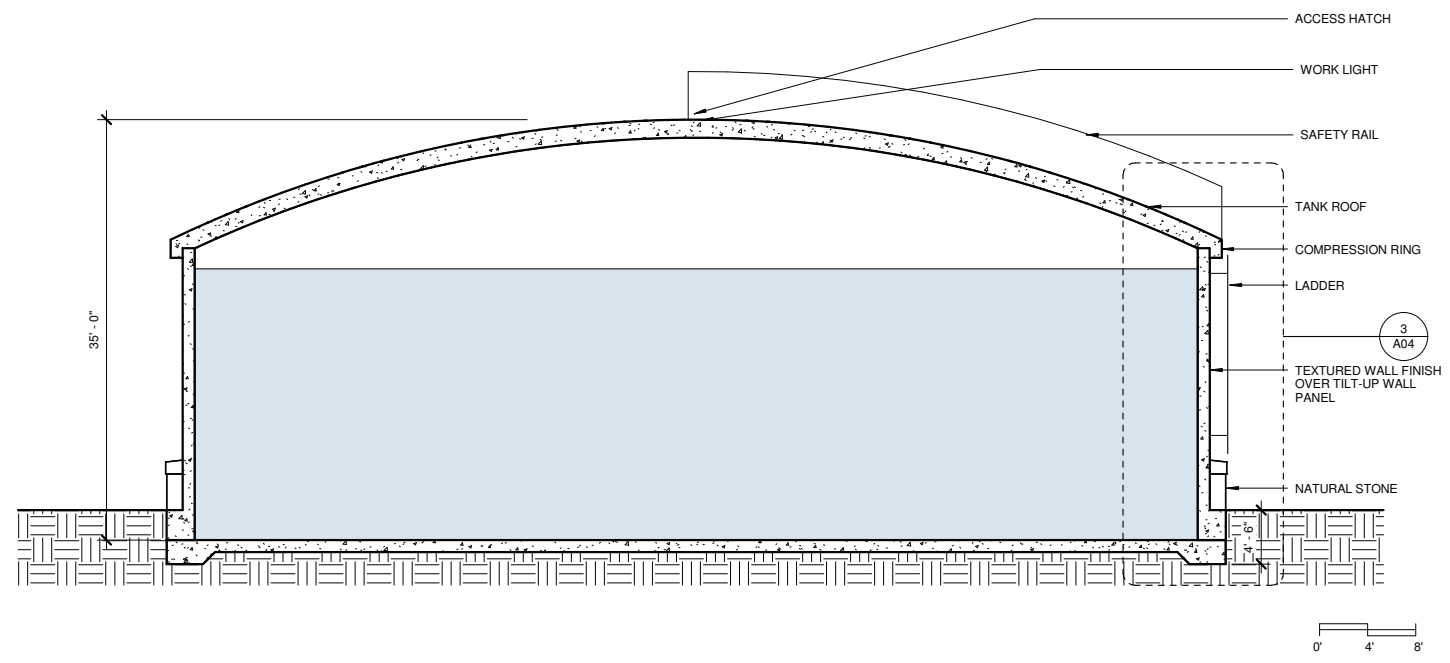




**3** TANK WALL SECTION  
A04 1/2" = 1'-0"



**1** TANK ELEVATION  
A04 1/8" = 1'-0"



**2** TANK SECTION  
A04 1/8" = 1'-0"

MARK	DATE	DESCRIPTION

FILE NO.	Project Number
CITY PROJECT NO.	Issue Date
ISSUE DATE	Designer
DESIGNED BY	Author
DRAWN BY	

Short Elliott Hendrickson, Inc. © SEH