URBAN DESIGN COMMISSION APPLICATION

UDC

City of Madison
Planning Division
126 S. Hamilton St.
P.O. Box 2985
Madison, WI 53701-2985
(608) 266-4635

Complete all sections of this application, including the desired meeting date and the action requested.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.

FOR OFFICE USE ONLY:

Paid _____ Receipt # _____

Date received _____

Received by _____

Aldermanic District _____

Zoning District _____

Urban Design District _____

Submittal reviewed by _____

1. Project Information

Address: 801 S. Whitney Way

Title: Well 12

2. Application Type (check all that apply) and Requested Date

UDC meeting date requested November 8, 2017

☐ New development ☐ Alteration to an existing or previously-approved development

☐ Informational ☐ Initial approval ☒ Final approval

3. Project Type

☐ Project in an Urban Design District

☐ Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)

☐ Project in the Suburban Employment Center District (SEC), 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 Residential Building Complex

Signage

☐ Comprehensive Design Review (CDR)

☐ Signage Variance (i.e. modification of signage height, area, and setback)

Other

☒ Please specify

Utility, Existing - Conditional Use

4. Applicant, Agent, and Property Owner Information

Applicant name Peter Holmgren Company Madison Water Utility

Street address 119 East Olin Street City/State/Zip Madison, WI 53713

Telephone 608.266.4651 Email pholmgren@madisonwater.org

Project contact person Bob Magnas Company Potter Lawson

Street address 749 University Row, Suite 300 City/State/Zip Madison, WI 53705

Telephone 608.274.2741 Email robertm@potterlawson.com

Property owner (if not applicant) _____

Street address _____ City/State/Zip _____

Telephone _____ Email _____

5. Required Submittal Materials

- ☒ **Application Form**
- ☒ **Letter of Intent**
  - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
  - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- ☒ **Development plans** (Refer to checklist provided below for plan details)
- ☒ **Filing fee**
- ☒ **Electronic Submittal***

Each submittal must include fourteen (14) 11" x 17" collated paper copies. Landscape and Lighting plans (if required) must be full-sized. Please refrain from using plastic covers or spiral binding.

Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also 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 legible when reduced.

**Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to udcapplications@cityofmadison.com. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

6. Applicant Declarations

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Matthew Tucker, Tim Parks, Janine Glaesner on September 21, 2017.
2. 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.

Applicant name Doug Hursh Relationship to property Architect

Authorized signature of **Property Owner** Pete Holmgren Date October 18, 2017

7. Application Filing 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. Credit cards may be used for application fees of less than $1,000.

Please consult the schedule below for the appropriate fee for your request:

- ☐ Urban Design Districts: $350 *(per §35.24(6) MGO).*
- ☐ Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : $150 *(per §33.24(6)(b) MGO)*
- ☐ Comprehensive Design Review: $500 *(per §31.041(3)(d)(1)(a) MGO)*
- ☐ Minor Alteration to a Comprehensive Sign Plan: $100 *(per §31.041(3)(d)(1)(c) MGO)*
- ☐ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: $300 *(per §31.041(3)(d)(2) MGO)*

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

URBAN DESIGN COMMISSION APPROVAL PROCESS UDC

Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- Initial Approval. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information what should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels.**

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

UDC

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
- ☐ Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☐ Contextual site information, including photographs and layout of adjacent buildings/structures
- ☐ Site Plan
- ☐ Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1"= 40' or larger

*** All plans must be legible, including the full-sized landscape and lighting plans (if required)*

2. Initial Approval

- ☐ Locator Map
- ☐ Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☐ 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 (*must be legible*)
- ☐ Building Elevations in both black & white and color for all building sides (include material callouts)
- ☐ PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

3. Final Approval

All the requirements of the Initial Approval (see above), **plus**:

- ☐ Grading Plan
- ☐ Proposed Signage (if applicable)
- ☐ Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- ☐ Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- ☐ PD text and Letter of Intent (if applicable)
- ☐ Samples of the exterior building materials (presented at the UDC meeting)

4. Comprehensive Design Review (CDR) and Variance Requests (*Signage applications only*)

- ☐ Locator Map
- ☐ Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
- ☐ Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- ☐ Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- ☐ Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- ☐ Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- ☐ Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

City of Madison Water Utility Unit Well 12 Updates
Letter of Intent for Land Use Zoning
October 18, 2017

Project Description

Well 12 will be converted to a two pressure zone well. This conversion will provide operational flexibility and reliability to the west side supply system. The conversion requires that the existing building be demolished followed by the construction of a new facility for feasibility. The building will be located on the footprint of the existing facility and its expansion will include new rooms for chlorine storage, fluoride storage and a restroom. New pumps and electrical equipment will be installed in the area of the existing building where the chemical feed system and the old pump is currently located.

The facility work described here will coincide with a separate Public Works contract for the water main improvements in the public right of way, which will connect a pipeline from the facility to Pressure Zone 8 at the intersection of Whitney Way and Odana Road.

Existing Conditions

The well is located on the north side of the beltline along South Whitney Way. It is located on the land between the exit ramp and the beltline. The original well and pump house was built in 1957 and was designed by water utility engineering staff. The rough limestone in an ashlar pattern is seen on many wells throughout Madison that were built during this era and is easily recognizable as a Water Utility Facility. The existing site has mature landscaping with several large trees and shrubs.

Proposed Design

The design of the building will respect the existing building. It will match the original taller portion of the building in height and the existing vernacular details will be incorporated into the new design as reinterpreted details with stone veneers, stone sills and repeating pier details.

Stone was chosen to clad the building, but knowing it will be impossible to match the weathered stone from the 1950's we are proposing to use a smooth finish stone in a more regular pattern. The color of the stone is intended to be similar to the existing building so that it will fit into the existing site context similar to the original building.

Site

The site changes are minimal. Additional asphalt is added based on the amount that has been lost by the building addition's footprint and space for an accessible stall has been added. The drive will be raised slightly to provide accessibility to the rear doors, today there is a large step up into the facility. The drive and parking area will be used by service vehicles and allows the vehicles to turn around on the site to exit onto Whitney Way facing the traffic.

Site Location: 801 South Whitney Way

Land Use Zoning Approval

The project is being submitted to be zoned as a conditional use.

Project Schedule

October 28, 2017	WDNR Plans and Specification Construction Summary Submittal
November 6, 2017	Plans out for Bid
November 8, 2017	UDC Meeting
November 20, 2017	Plan Commission
December 15, 2017	Bids received
January 30, 2018	Water Utility Board Approval
February 28, 2018	Contract Signed
February 28, 2018	Pre-Construction Meeting
March 28, 2018	Construction notice to proceed
April 30, 2018	Construction Start
July 30, 2019	Construction Completed

Project Team

Madison Water Utility 119 East Olin Avenue Madison, WI 53713	Alan Larson, PE, BCEE Peter Holmgren, PE
Engineer: SEH, Inc. 10 North Bridge Street Chippewa Falls, WI 54729	 Randy Sanford, PE Chad Katzenberger, PE
Architect: Potter Lawson Inc. 749 University Row, Suite 300 Madison WI, 53705	Doug Hursh, AIA, LEED AP

Building Size

Existing Building Demolition:	1,122 SF
New Building:	1,200 SF

Auto and Bike Parking Stalls

There is room for 2 maintenance vehicles to be parked on site. There are no bike parking stalls, the only visitors to the facility are water utility staff.

Lot coverage & Useable Open Space

Total Lot Area:	46,000 SF	
Building and pavement area:	11,500 SF	25 % Coverage
Total open area:	34,500 SF	75% Open

Estimated Project Cost

$2,800,000

Hours of Operation

The well and pumps run 24 hours a day. The station is visited by water utility staff once per day to check operation and take readings.

An aerial view showing the pump house and the reservoir along South Whitney Way. The reservoir is the round building to the north of the pump house.

Whitney Way view of Existing Well

Proposed Well

D-Series Size 1
LED Wall Luminaire

d-series

Catalog Number	DSXW1LED-10C-1000-40K-TFTM-MVOLT-PIR
Notes	
Type	WALL LIGHT

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

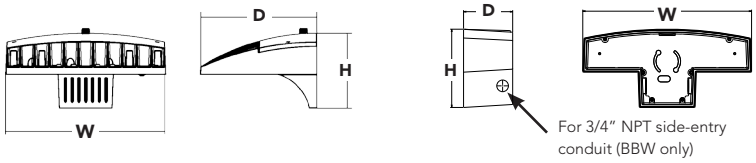
Specifications

Luminaire

Width:	13-3/4" (34.9 cm)	**Weight:**	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	**BBW Weight:**	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	**ELCW Weight:**	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



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.

Ordering Information

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

DSXW1 LED	10C	1000	40K	TFTM	MVOLT		PIR
Series	**LEDs**	**Drive Current**	**Color temperature**	**Distribution**	**Voltage**	**Mounting**	**Control Options**
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 Asymmetric diffuse	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 [2] 480 [2]	**Shipped included** (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) [3]	**Shipped installed** PE Photoelectric cell, button type [4] DMG 0-10V dimming driver (no controls) PIR 180° motion/ambient light sensor, <15' mtg ht [5] PIRH 180° motion/ambient light sensor, 15-30' mtg ht [5] PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [5] PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [5] ELCW Emergency battery backup (includes external component enclosure) [6]

	DDBXD
Other Options	**Finish** *(required)*

Shipped installed

SF	Single fuse (120, 277 or 347V) [7]
DF	Double fuse (208, 240 or 480V) [7]
HS	House-side shield [8]
SPD	Separate surface protection [9]

Shipped separately [8]

BSW	Bird-deterrent spikes
WG	Wire guard
VG	Vandal guard
DDL	Diffused drop lens

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

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

NOTES

1. 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).
2. Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
3. Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
4. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
5. PIR and PIR1FC3V 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).
6. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
7. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
8. Also available as a separate accessory; see Accessories information.
9. See the electrical section on page 3 for more details.

LITHONIA LIGHTING
One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com

Performance Data

Lumen Output

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

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)	350mA	14W	T2S	1,415	0	0	1	101	1,520	0	0	1	109	1,529	0	0	1	109	894	0	0	1	64
			T2M	1,349	0	0	1	96	1,449	0	0	1	104	1,458	0	0	1	104	852	0	0	1	61
			T3S	1,400	0	0	1	100	1,503	0	0	1	107	1,512	0	0	1	108	884	0	0	1	63
			T3M	1,386	0	0	1	99	1,488	0	0	1	106	1,497	0	0	1	107	876	0	0	1	63
			T4M	1,358	0	0	1	97	1,458	0	0	1	104	1,467	0	0	1	105	858	0	0	1	61
			TFTM	1,411	0	0	1	101	1,515	0	0	1	108	1,525	0	0	1	109	892	0	0	1	64
			ASYDF	1,262	0	0	1	90	1,355	1	0	1	97	1,363	1	0	1	97	797	0	0	1	57
	530 mA	20W	T2S	2,054	1	0	1	103	2,205	1	0	1	110	2,219	1	0	1	111	1,264	0	0	1	63
			T2M	1,957	1	0	1	98	2,102	1	0	1	105	2,115	1	0	1	106	1,205	0	0	1	60
			T3S	2,031	0	0	1	102	2,181	0	0	1	109	2,195	0	0	1	110	1,250	0	0	1	63
			T3M	2,010	1	0	1	101	2,159	1	0	1	108	2,172	1	0	1	109	1,237	0	0	1	62
			T4M	1,970	1	0	1	99	2,115	1	0	1	106	2,128	0	0	1	106	1,212	0	0	1	61
			TFTM	2,047	0	0	1	102	2,198	0	0	1	110	2,212	0	0	1	111	1,260	0	0	1	63
			ASYDF	1,830	1	0	1	92	1,966	1	0	1	98	1,978	1	0	1	99	1,127	0	0	1	56
	700 mA	27W	T2S	2,623	1	0	1	97	2,816	1	0	1	104	2,834	1	0	1	105	1,544	0	0	1	57
			T2M	2,499	1	0	1	93	2,684	1	0	1	99	2,701	1	0	1	100	1,472	0	0	1	55
			T3S	2,593	1	0	1	96	2,785	1	0	1	103	2,802	1	0	1	104	1,527	0	0	1	57
			T3M	2,567	1	0	1	95	2,757	1	0	1	102	2,774	1	0	1	103	1,512	0	0	1	56
			T4M	2,515	1	0	1	93	2,701	1	0	1	100	2,718	1	0	1	101	1,481	0	0	1	55
			TFTM	2,614	1	0	1	97	2,807	1	0	1	104	2,825	1	0	1	105	1,539	0	0	1	57
			ASYDF	2,337	1	0	1	87	2,510	1	0	1	93	2,526	1	0	1	94	1,376	0	0	1	51
	1000 mA	40W	T2S	3,685	1	0	1	92	3,957	1	0	1	99	3,982	1	0	1	100	2,235	1	0	1	58
			T2M	3,512	1	0	1	88	3,771	1	0	1	94	3,795	1	0	1	95	2,130	1	0	2	55
			T3S	3,644	1	0	1	91	3,913	1	0	1	98	3,938	1	0	1	98	2,210	1	0	2	57
			T3M	3,607	1	0	1	90	3,874	1	0	1	97	3,898	1	0	1	97	2,187	1	0	2	56
			T4M	3,534	1	0	1	88	3,795	1	0	1	95	3,819	1	0	1	95	2,143	1	0	2	55
			TFTM	3,674	1	0	1	92	3,945	1	0	1	99	3,969	1	0	1	99	2,228	1	0	2	57
			ASYDF	3,284	1	0	1	82	3,527	1	0	1	88	3,549	1	0	1	89	1,991	1	0	2	51
20C (20 LEDs)	350mA	24W	T2S	2,820	1	0	1	118	3,028	1	0	1	126	3,047	1	0	1	127	1,777	1	0	1	74
			T2M	2,688	1	0	1	112	2,886	1	0	1	120	2,904	1	0	1	121	1,693	1	0	1	71
			T3S	2,789	1	0	1	116	2,995	1	0	2	125	3,013	1	0	2	126	1,757	0	0	1	73
			T3M	2,761	1	0	1	115	2,964	1	0	2	124	2,983	1	0	2	124	1,739	1	0	1	72
			T4M	2,705	1	0	1	113	2,904	1	0	2	121	2,922	1	0	2	122	1,704	1	0	1	71
			TFTM	2,811	1	0	1	117	3,019	1	0	2	126	3,038	1	0	2	127	1,771	0	0	1	74
			ASYDF	2,513	1	0	1	105	2,699	1	0	2	112	2,716	1	0	2	113	1,584	1	0	1	66
	530 mA	36W	T2S	4,079	1	0	1	113	4,380	1	0	1	122	4,408	1	0	1	122	2,504	1	0	1	70
			T2M	3,887	1	0	1	108	4,174	1	0	1	116	4,200	1	0	1	117	2,387	1	0	1	66
			T3S	4,034	1	0	1	112	4,332	1	0	1	120	4,359	1	0	1	121	2,477	1	0	1	69
			T3M	3,993	1	0	1	111	4,288	1	0	1	119	4,315	1	0	1	120	2,451	1	0	2	68
			T4M	3,912	1	0	2	109	4,201	1	0	2	117	4,227	1	0	1	117	2,402	1	0	1	67
			TFTM	4,066	1	0	1	113	4,367	1	0	1	121	4,394	1	0	1	122	2,496	1	0	1	69
			ASYDF	3,635	1	0	2	101	3,904	1	0	2	108	3,928	1	0	2	109	2,232	1	0	1	62
	700 mA	47W	T2S	5,188	1	0	1	110	5,571	1	0	1	119	5,606	1	0	1	119	3,065	1	0	1	65
			T2M	4,945	1	0	1	105	5,310	1	0	1	113	5,343	1	0	1	114	2,921	1	0	1	62
			T3S	5,131	1	0	1	109	5,510	1	0	2	117	5,544	1	0	2	118	3,031	1	0	1	64
			T3M	5,079	1	0	2	108	5,454	1	0	2	116	5,488	1	0	2	117	3,000	1	0	1	64
			T4M	4,976	1	0	2	106	5,343	1	0	2	114	5,377	1	0	2	114	2,939	1	0	1	63
			TFTM	5,172	1	0	2	110	5,554	1	0	2	118	5,589	1	0	2	119	3,055	1	0	1	65
			ASYDF	4,624	1	0	2	98	4,966	1	0	2	106	4,997	1	0	2	106	2,732	1	0	1	58
	1000 mA	74W	T2S	7,205	1	0	1	97	7,736	1	0	1	105	7,785	1	0	1	105	4,429	1	0	1	61
			T2M	6,866	1	0	2	93	7,373	1	0	2	100	7,419	1	0	2	100	4,221	1	0	2	58
			T3S	7,124	1	0	2	96	7,650	1	0	2	103	7,698	1	0	2	104	4,380	1	0	2	60
			T3M	7,052	1	0	2	95	7,736	1	0	2	105	7,620	1	0	2	103	4,335	1	0	2	59
			T4M	6,910	1	0	2	93	7,420	1	0	2	100	7,466	1	0	2	101	4,248	1	0	2	58
			TFTM	7,182	1	0	2	97	7,712	1	0	2	104	7,760	1	0	2	105	4,415	1	0	2	60
			ASYDF	6,421	1	0	2	87	6,895	2	0	2	93	6,938	2	0	2	94	3,947	1	0	2	54

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

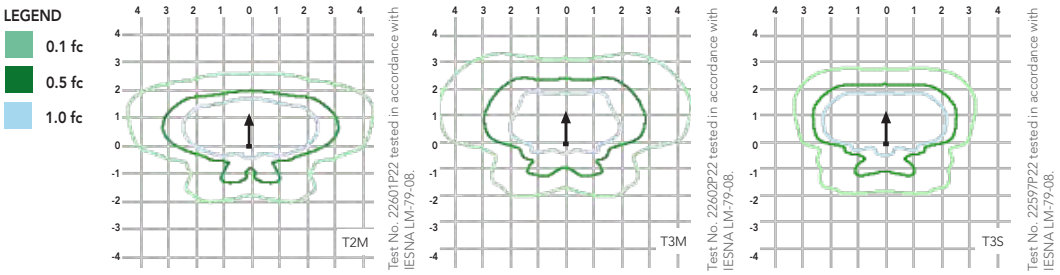
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120V	208V	240V	277V	347V	480V
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	24 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	74 W	0.69	0.40	0.35	0.30	0.23	0.17

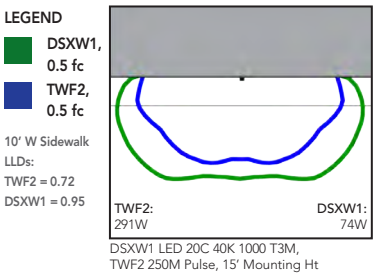
Photometric Diagrams

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

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



Distribution overlay comparison to 250W metal halide.



DSXW1 LED 20C 40K 1000 T3M, TWF2 250M Pulse, 15' Mounting Ht

Options and Accessories

T3M (left), ASYDF (right) lenses

HS - House-side shields

BSW - Bird-deterrent spikes

WG - Wire guard

VG - Vandal guard

DDL - Diffused drop lens

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 (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy 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 power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. 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 to confirm which versions are qualified.

WARRANTY

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

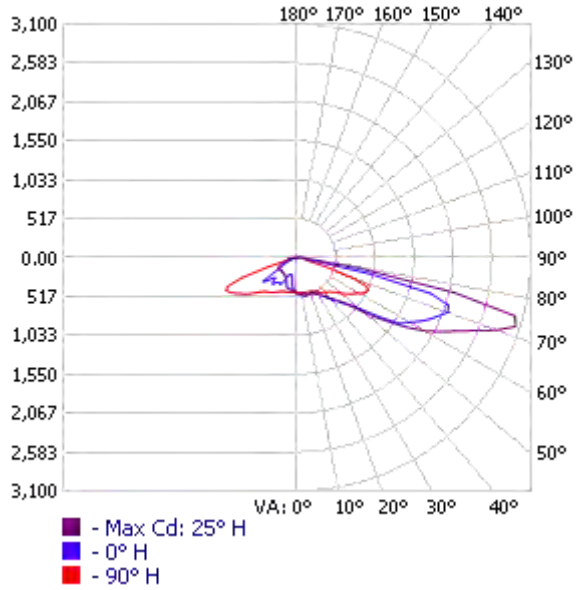
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

OUTDOOR PHOTOMETRIC REPORT
CATALOG: DSXW1 LED 10C 1000 40K TFTM MVOLT

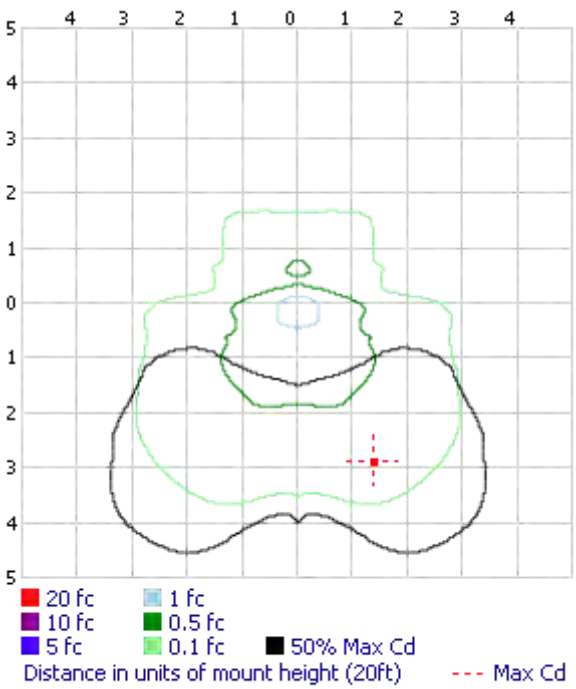
MANUFACTURER:	LITHONIA LIGHTING
TEST #:	LTL25753P106
TEST LAB:	SCALED PHOTOMETRY
TEST NOTES:	SCALED FROM ABSOLUTE TEST: LTL25753
TEST DATE:	1/11/2016
CATALOG:	DSXW1 LED 10C 1000 40K TFTM MVOLT
DESCRIPTION:	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE TFTM OPTIC, 4000K, @ 1000MA.
LAMP:	LED
LAMP OUTPUT:	TOTAL LUMINAIRE LUMENS: 3944.8, ABSOLUTE PHOTOMETRY *
BALLAST / DRIVER:	LED DRIVER
INPUT WATTAGE:	38.8
LUMINOUS OPENING:	RECTANGLE (L: 2.88", W: 12.48")
MAX CD:	3,040.9 AT HORIZONTAL: 25°, VERTICAL: 72.5°
ROADWAY CLASS:	SHORT, TYPE IV

No Photo Available

Polar Candela Distribution



Isofootcandle Plot



*TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.
*CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	360.3	9.1%
0-40	656.7	16.6%
0-60	1,835.3	46.5%
60-90	2,109.5	53.5%
70-100	1,026.7	26%
90-120	0.000	0%
0-90	3,944.8	100%
90-180	0.000	0%
0-180	3,944.8	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	44.1	1.1%	90-100	0.000	0%
10-20	121.9	3.1%	100-110	0.000	0%
20-30	194.3	4.9%	110-120	0.000	0%
30-40	296.5	7.5%	120-130	0.000	0%
40-50	438.8	11.1%	130-140	0.000	0%
50-60	739.7	18.8%	140-150	0.000	0%
60-70	1,082.8	27.4%	150-160	0.000	0%
70-80	906.9	23.0%	160-170	0.000	0%
80-90	119.9	3.0%	170-180	0.000	0%

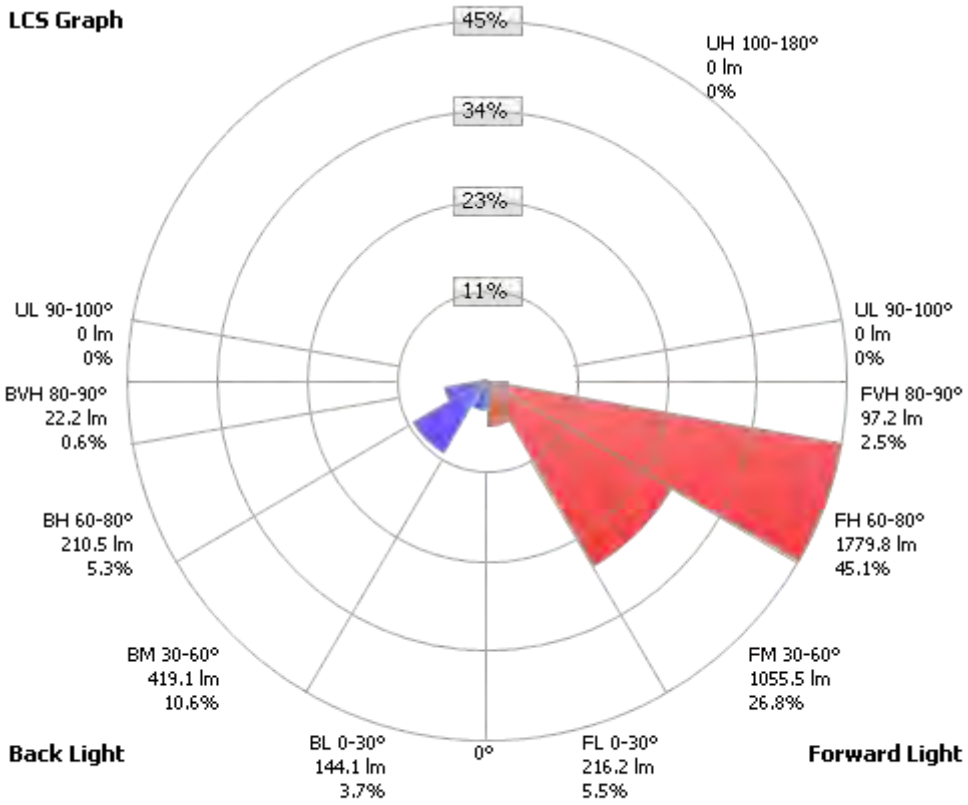
ROADWAY SUMMARY

DISTRIBUTION:	TYPE IV, SHORT
MAX CD, 90 DEG VERT:	0.000
MAX CD, 80 TO <90 DEG:	1,023.4

	LUMENS	% LAMP
DOWNWARD STREET SIDE:	3,148.7	79.8%
DOWNWARD HOUSE SIDE:	796.0	20.2%
DOWNWARD TOTAL:	3,944.7	100%
UPWARD STREET SIDE:	0.000	0%
UPWARD HOUSE SIDE:	0.000	0%
UPWARD TOTAL:	0.000	0%
TOTAL LUMENS:	3,944.7	100%

LCS TABLE

BUG RATING	B1 - U0 - G1	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	216.2	5.5%
MEDIUM(30-60):	1,055.5	26.8%
HIGH(60-80):	1,779.8	45.1%
VERY HIGH(80-90):	97.2	2.5%
BACK LIGHT		
LOW(0-30):	144.1	3.7%
MEDIUM(30-60):	419.1	10.6%
HIGH(60-80):	210.5	5.3%
VERY HIGH(80-90):	22.2	0.6%
UPLIGHT		
LOW(90-100):	0.000	0%
HIGH(100-180):	0.000	0%
TRAPPED LIGHT:	0.1	0%



Scale = Max LCS %

Trapped Light: 0.1lm, 0%

DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6 is designed for installation in many 3-1/2" and 4" square, octagon or round junction boxes. Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

Catalog #	SLD606-8-40-WH-JB/ SLD6TRMTBZ	Type
Project		SOFFIT LIGHT
Comments		Date
Prepared by		

SPECIFICATION FEATURES

CONSTRUCTION
- Die cast aluminum trim ring, and die formed aluminum frame

OPTICS
- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS
Accessories (sold separately)
SLD designer trims are accessory rings that attach to the SLD for a permanent finish. Refer to SLD accessories specification sheet for details.
- White (Paintable)
- Satin Nickel
- Tuscan Bronze

ELECTRICAL JUNCTION BOX MOUNTING
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" square, octagon, and round electrical junction boxes
  Note: Driver consumes 3 cubic inches of junction box
- Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings
  Note: Fire-rating is per the rating of the ceiling and applicable junction box, not the SLD.
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes
- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

LED
- Trilateral linear LED assembly is integrated in trim perimeter
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
  - 90 CRI can be used for California Title 24 compliance/ registered to Title 20
  - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- L70 at 50,000 hours projected in accordance with TM-21

WARRANTY
Cooper Lighting provides a five year limited warranty on the SLD LED

LED CHROMATICITY
- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL CONNECTIONS
Junction Box
- Compatible with 3-1/2" x 2" and 4" x 1-1/2" deep round, square and octagon boxes (2-1/8" deep boxes recommended)
- Supply Wire Adapter with LED quick connector included

LED DRIVER
- Driver is a 120V input, high efficiency, dimmable electronic power supply providing DC power to the LED array
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure
- Driver is replaceable if it should be required

DIMMING
- Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

COMPLIANCE
- cULus Listed ceiling and wall
- cULus Damp Location listed ceiling and wall
- cULus Wet Location Listed, ceiling only (shower rated)

continued...

SLD 600 Series

SLD6068xxWHJB
80CRI
2700K, 3000K, 3500K, and 4000K

SLD6069xxWHJB
90CRI
2700K, 3000K, 3500K, and 4000K

6" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	800	780
Input Voltage	120V	120V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.10 A	0.11 A
Input Power	12.2 W	13.2 W
Efficiency (4000K models)	66 lm/W	59 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

NOMENCLATURE

SLD 606 8 30 WH JB
606 = 6" SLD 600 Series
8 = >80 CRI
30 = 3000K
WH = Matte White
JB = Junction Box kit only

80 CRI nominal CCT 2700K 3000K 3500K 4000K

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.

90 CRI nominal CCT 2700K 3000K 3500K 4000K

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Title 20 Appliance Efficiency Database.

Powering Business Worldwide

- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® certified luminaire - consult ENERGY STAR® Certified Product List
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21

SLD 600 Series

SLD6068xxWH

80CRI

2700K, 3000K, 3500K, and 4000K

SLD6069xxWH

90CRI

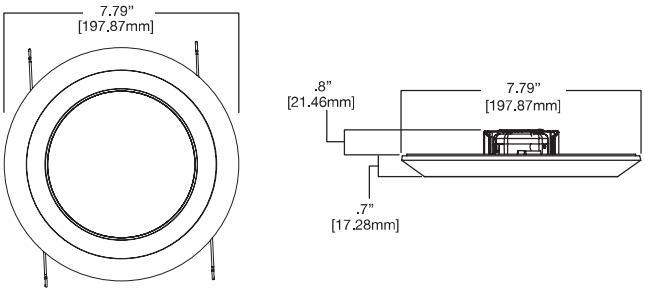
2700K, 3000K, 3500K, and 4000K

6" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: SLD606830WHJB
Order junction box separately, as supplied by others, to complete installation.

Models	Color Rendering Index	Color Temperature (CCT)	Finish	JB
SLD606= 6" Surface LED Downlight, 120V	**8**=80 CRI **9**=90 CRI	**27**=2700K **30**=3000K **35**=3500K **40**=4000K	**WH**=White	**JB**=Junction Box kit

Accessories

Designer Trims
Fit over the SLD for a designer finish
SLD6TRMSN=6" SLD Satin Nickel
SLD6TRMTBZ=6" SLD Tuscan Bronze
SLD6TRMWH=6" SLD White (paintable)

J-Box Spacer Extension Ring
Add 15/16" depth when SLD driver cannot fit into installed junction box
SLD6EXT=6" Surface LED J-Box Extender, 9.5" O.D.

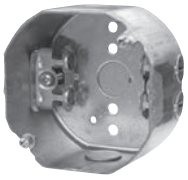
RAD Adapters
When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling)
SLD6RAD=6" SLD Round Surface J-Box Adapter, 7.92" O.D. (for 4-inch round or octagon junction boxes.)
SLD6SADPLT=6" SLD Square Surface J-Box Adapter Plate (For 4-inch square junction boxes, use with SLD6RAD.)

Spare Parts
SLD6ACCKIT=6" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades)
SLD6BRKT=6" Junction Box Bracket & Screws

Refer to SLD Accessories specification sheet for further information.

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES

TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

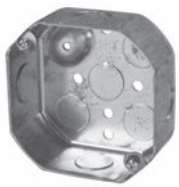


TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- **TP316 -** for non-metallic cable
- **TP317 -** for metal clad cable
- UL Listed
- Suitable for two-hour fire-rated ANSI/UL 263 when properly installed in a fire-rated ceiling or wall
- Refer to www.crouse-hinds.com

COMPATIBLE WITH MANY OTHER JUNCTION BOXES*

4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)

4" square deep steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

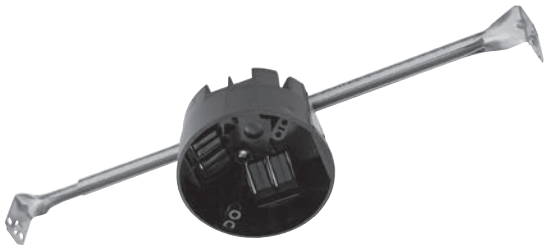
4" square standard steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)

4" round new work non-metallic light fixture/ fan box
4" diameter x 2-3/16"
(102mm x 56mm)

3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)

3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)

4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD6RAD adapter



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings.
Note: Fire-rating is per the rating of the ceiling and applicable junction box, not the SLD.

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the SLD mounting bracket in the box.

PRODUCT DATA

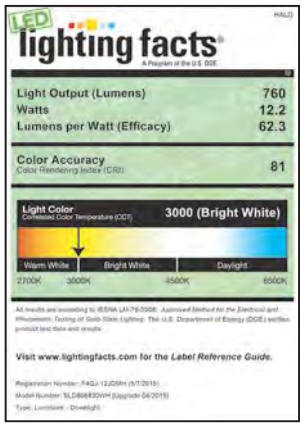
Cat No.	CRI	CCT	Lumens	Power (W)	LPW
SLD606827WH	80	2700	727	12.2	60
SLD606830WH	80	3000	760	12.2	62
SLD606835WH	80	3500	780	12.2	64
SLD606840WH	80	4000	800	12.2	66
SLD606927WH	92	2700	710	13.2	54
SLD606930WH	92	3000	735	13.2	56
SLD606935WH	92	3500	760	13.2	58
SLD606940WH	92	4000	780	13.2	59

Performance values are presented as typical for the model(s) indicated. Field results may vary.

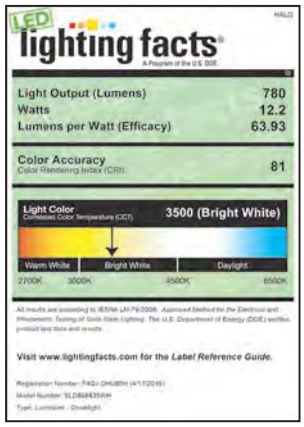
LIGHTING FACTS®

SLD606827WH - 80 CRI

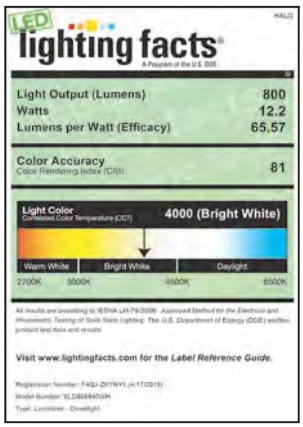
SLD606830WH - 80 CRI



SLD606835WH - 80 CRI

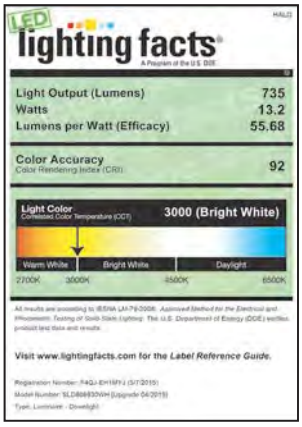


SLD606840WH - 80 CRI

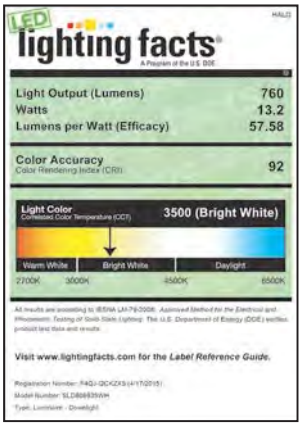


SLD606927WH - 90 CRI

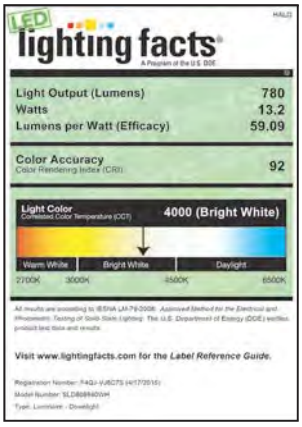
SLD606930WH - 90 CRI



SLD606935WH - 90 CRI



SLD606940WH - 90 CRI

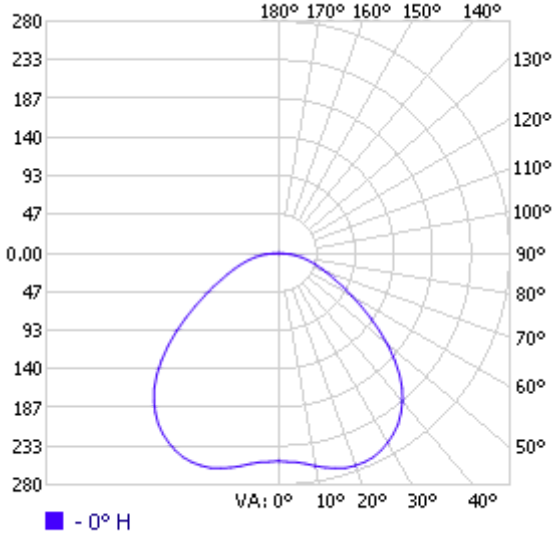


OUTDOOR PHOTOMETRIC REPORT
CATALOG: SLD606840WH

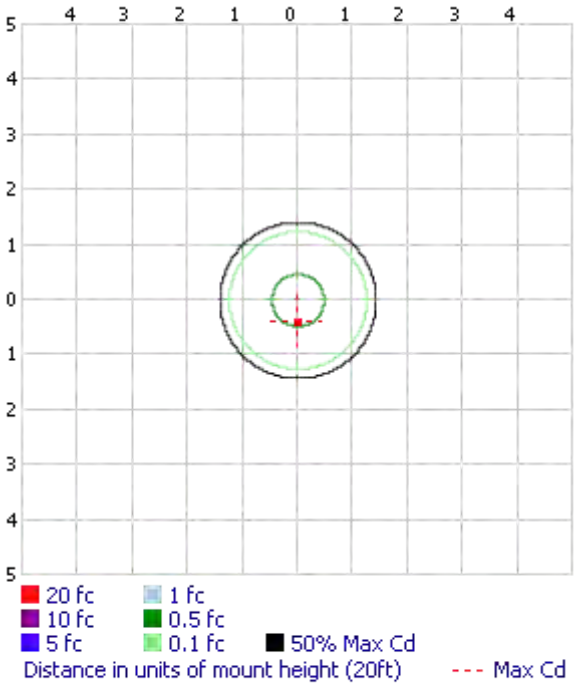
MANUFACTURER:	EATON - HALO (FORMER COOPER LIGHTING)
TEST #:	P166800 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14660)
TEST LAB:	INNOVATIONS CENTER-P1
CATALOG:	SLD606840WH
DESCRIPTION:	HALO 6 INCH SURFACE LED DOWNLIGHT
LAMP:	LED 80CRI / 4000K CCT ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET
LAMP OUTPUT:	TOTAL LUMINAIRE LUMENS: 799.9, ABSOLUTE PHOTOMETRY *
INPUT WATTAGE:	12.2
LUMINOUS OPENING:	CIRCULAR (DIA: 5")
MAX CD:	273.1 AT HORIZONTAL: 0°, VERTICAL: 20°
ROADWAY CLASS:	TYPE V

No Photo Available

Polar Candela Distribution



Isofootcandle Plot



*TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.
*CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	225.9	28.2%
0-40	383.1	47.9%
0-60	663.8	83%
60-90	136.1	17%
70-100	59.5	7.4%
90-120	0.000	0%
0-90	799.9	100%
90-180	0.000	0%
0-180	799.9	100%

LUMENS PER ZONE

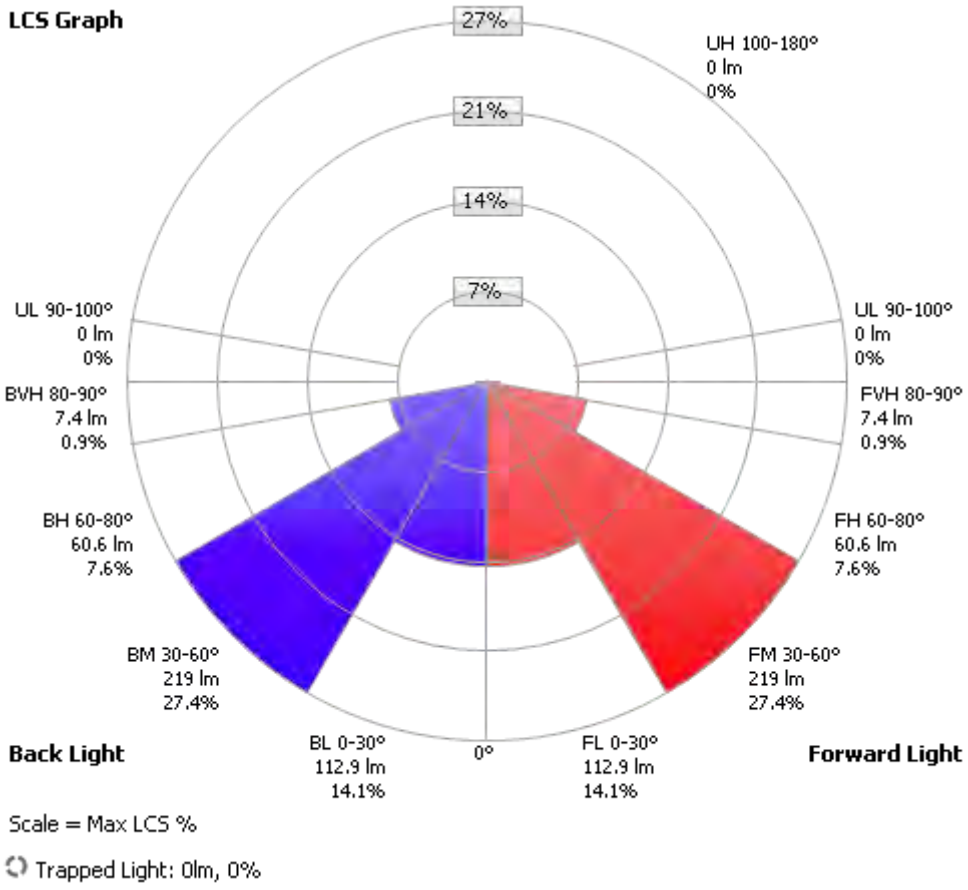
ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	24.5	3.1%	90-100	0.000	0%
10-20	76.3	9.5%	100-110	0.000	0%
20-30	125.1	15.6%	110-120	0.000	0%
30-40	157.2	19.7%	120-130	0.000	0%
40-50	158.7	19.8%	130-140	0.000	0%
50-60	122.0	15.3%	140-150	0.000	0%
60-70	76.6	9.6%	150-160	0.000	0%
70-80	44.6	5.6%	160-170	0.000	0%
80-90	14.9	1.9%	170-180	0.000	0%

ROADWAY SUMMARY

DISTRIBUTION:		TYPE V
MAX CD, 90 DEG VERT:		0.000
MAX CD, 80 TO <90 DEG:		28.5
	LUMENS	% LAMP
DOWNWARD STREET SIDE:	399.9	50%
DOWNWARD HOUSE SIDE:	399.9	50%
DOWNWARD TOTAL:	799.9	100%
UPWARD STREET SIDE:	0.000	0%
UPWARD HOUSE SIDE:	0.000	0%
UPWARD TOTAL:	0.000	0%
TOTAL LUMENS:	799.9	100%

LCS TABLE

BUG RATING	B1 - U0 - G0	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	112.9	14.1%
MEDIUM(30-60):	219.0	27.4%
HIGH(60-80):	60.6	7.6%
VERY HIGH(80-90):	7.4	0.9%
BACK LIGHT		
LOW(0-30):	112.9	14.1%
MEDIUM(30-60):	219.0	27.4%
HIGH(60-80):	60.6	7.6%
VERY HIGH(80-90):	7.4	0.9%
UPLIGHT		
LOW(90-100):	0.000	0%
HIGH(100-180):	0.000	0%
TRAPPED LIGHT:	0.000	0%



Scale = Max LCS %

Trapped Light: 0lm, 0%

PLOTTED: 9-27-2016 2:42 PM
PLOT SCALE: 1:2

CONSTRUCTION DRAWINGS FOR UNIT WELL 12 IMPROVEMENTS AND CONVERSION TO A TWO ZONE WELL

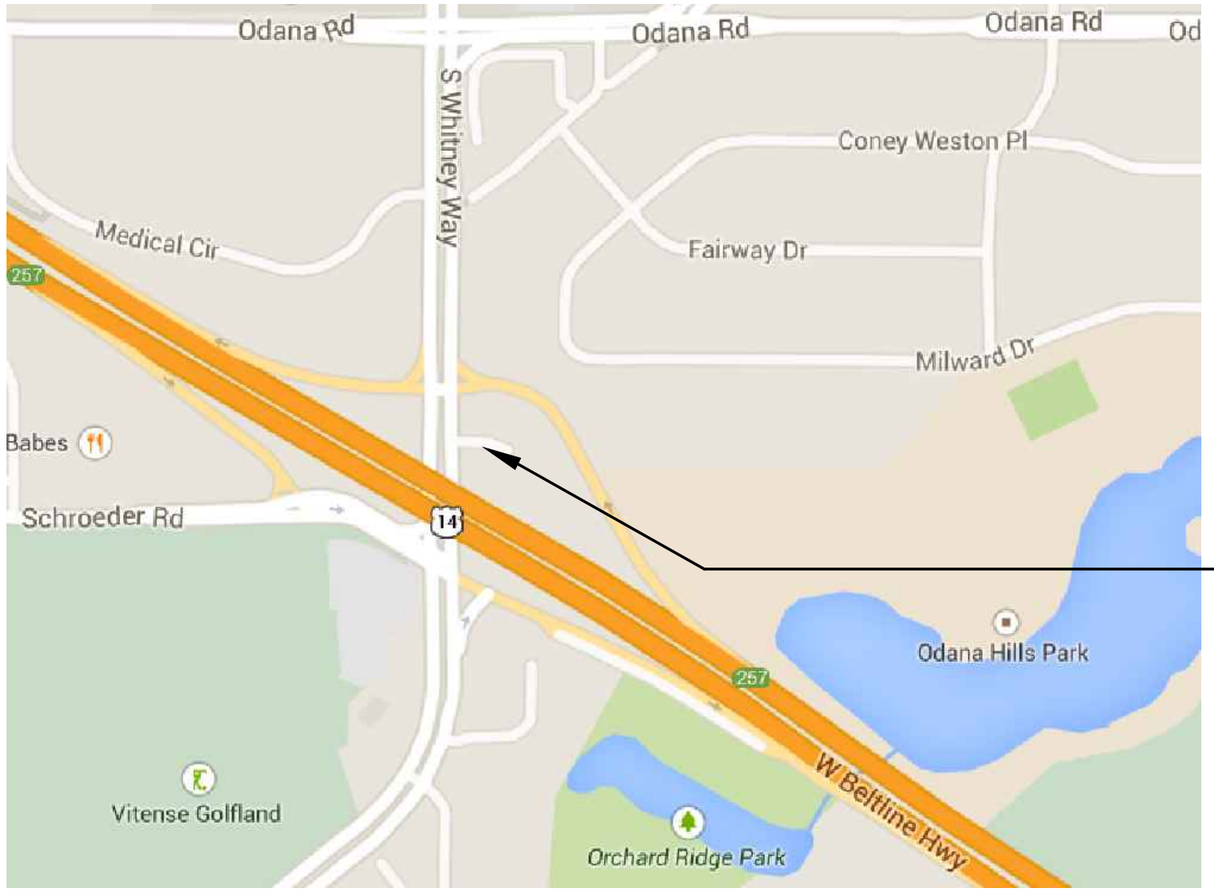
CONTRACT NO. 7498
MUNIS NO. * * * *
MADISON, WISCONSIN

PUBLIC IMPROVEMENT PROJECT APPROVED BY THE COMMON COUNCIL OF MADISON, WI

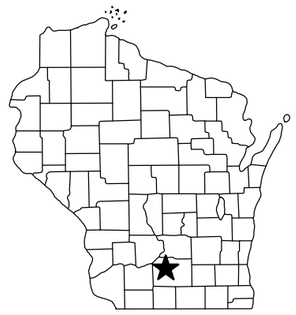
SHEET NUMBERING LEGEND

SHEET P2

- P2 — CONSECUTIVE SEQUENCE DRAWING NUMBER
- DISCIPLINE
  - G GENERAL
  - R REMOVAL
  - C CIVIL
  - A ARCHITECTURAL
  - S STRUCTURAL
  - P PROCESS
  - M MECHANICAL & PLUMBING
  - E ELECTRICAL



PROJECT LOCATION



Madison Water Utility

N

10 NORTH BRIDGE STREET
CHIPPEWA FALLS, WI 54729
PHONE: 715.720.6200
FAX: 888.908.8166
WATS: 800.472.2461
www.sehinc.com

SEH

Madison Water Utility

UNIT WELL 12 IMPROVEMENTS AND CONVERSION TO A TWO ZONE WELL
MADISON WATER UTILITY
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
		REVISIONS

SEH FILE NO. MADWU 130564
PROJECT NO.
ISSUE DATE SEPT. 2016
DESIGNED BY RANDY SANFORD
DRAWN BY CHRIS EPSTEIN

SHEET TITLE
TITLE SHEET

SHEET
G1

M:\KO\W\MADWU\130564\5-DESIGN\6.17.16 DRAWINGS\01.TITLE SHEET.DWG
SAVED: 9-27-2016 2:14 PM USER: CHRIS EPSTEIN
XREFs: P:\KO\W\Madwu\128154\5-Design\51-drawings\Tank dwg\2-new border

ALL ITEMS ON THIS SHEET ARE EXISTING.

1. SURVEY CONTROL POINT.
2. BURIED ELECTRICAL POWER LINE.
3. BURIED COMMUNICATION LINE.
4. BURIED GAS LINE.
5. STORM SEWER.
6. SANITARY SEWER.
7. WATER MAIN.
8. FITTING.
9. 10" GATE VALVE.
10. ELECTRICAL ENCLOSURE.
11. OVERHEAD POWER POLE.
12. APPARENT SANITARY MANHOLE. INV = 977.9'±.
13. TREE.
14. ASPHALT PAVEMENT EDGE.
15. 5' CONCRETE SIDEWALK.
16. CONCRETE STOOP.
17. CONCRETE CURB & GUTTER.
18. LIGHT POLE.
19. GUY WIRE.
20. ELECTRICAL BOX.
21. STORM INLET.
22. CONCRETE STORM BOX CULVERT. BOX CULVERT SHALL NOT BE UNDERMINED DURING CONSTRUCTION.
23. BURIED STORM SEWER JUNCTION BOX.

Notes:

1. The horizontal datum and bearings are based on the Dane County Coordinate System.

2. The location and extent of underground utilities, if shown, are based upon existing drawings provided by the utility owners, above ground evidence and Wisconsin diggers hotline.. There is no guarantee as to the accuracy or the completeness of this information. The size and location should be considered approximate. Additional underground utilities may be present. Verification of the existence and location of all utilities should be obtained from the utility owners prior to any planning or design. In accordance with Wisconsin Statute, the location of the utilities shall be confirmed prior to any demolition or construction.

SOUTH WHITNEY WAY

RESERVOIR NO. 12
150,000 GALLONS

DENSE TREES

10" DIP (1957)

48" RCP (1964)

10" CIP (1957)

EXISTING WELL HOUSE NO. 12
FFE = 994.74'

33.0'

35.3'

29.2'

21.9'

19.5'

10" CIP

12" CIP

60" RCP (1965)

12" CI (1964) @ 0.58%

CONCRETE PAD

HIGH POINT

U.S. HWY 12 (W. BELTLINE HWY)

T-BUR

P-BUR

G

E

SURVEY CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	472703.75'	797437.63'	993.67'	PK
2	472666.09'	797352.36'	989.58'	CHISX

N

0 10 20 Feet

PLOTTED: 12-16-2016 3:06 PM
PLOT SCALE: 1:2

C:\PROJECTS\K0\W\MADWU\130564\5-DESIGN\SECOND DESIGN\51-DRAWINGS\10-CIVIL\SHEETS\C0.1_EXISTING TOPO_130564.dwg MA130564_Aerial MA130564_BaseMap OLD-Madison Unit Well 12 TOPO
SAVED: 9-16-2016 12:43 PM USER: JOSH BOHNERT

6808 Odana Road, Suite 200
Madison, WI 53719-1137
Phone: 608.826.6159
FAX: 608.826.6166
Toll Free: 800.242.4362
www.sehinc.com

SEH

Madison Water Utility

UNIT WELL 12 UPGRADE & CONVERSION TO TWO ZONE WELL
MADISON WATER UTILITY
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
		REVISIONS

SEH FILE NO. MADWU 130564
PROJECT NO.
ISSUE DATE 12-02-16
DESIGNED BY JJB
DRAWN BY JJB
Short Elliott Hendrickson, Inc.® (SEH)

SHEET TITLE
EXISTING TOPOGRAPHIC LAYOUT

SHEET
C1

ALL ITEMS ON THIS SHEET ARE EXISTING. ALL NOTES PERTAIN TO REMOVAL OR DEMOLITION OF EXISTING ITEMS.

1. REMOVE WELL HOUSE NO. 12. SEE ARCHITECTURAL AND STRUCTURAL PLANS.
2. REMOVE 506 SY ASPHALT SURFACE.
3. REMOVE 118 LF 12" CI WATER MAIN & FITTINGS. SEE UTILITY PLAN FOR WATER MAIN REPLACEMENT.
4. REMOVE 94 LF 10" CI WATER MAIN & FITTINGS. SEE UTILITY PLAN FOR WATER MAIN REPLACEMENT.
5. REMOVE 25 LF 10" CI WATER MAIN & FITTINGS. COORDINATE WITH WATER UTILITY.
6. PLUG REMAINING 10" CIP WATER MAIN.
7. REMOVE CONCRETE PAD.
8. PROTECT AND MAINTAIN TANK FOUNDATION, RINGWALL, SPREAD FOOTING, AND WALL.
9. CUT EXISTING WATER MAIN PERPENDICULAR TO PIPE (SMOOTH, STRAIGHT, FLUSH, AND CLEAN). SEE UTILITY PLAN FOR NEW WATER MAIN CONNECTION.
10. REMOVE 14 LF COPPER SERVICE PIPE.
11. COORDINATE WITH POWER COMPANY AND CITY FOR ELECTRICAL LINE REMOVAL.
12. COORDINATE WITH COMMUNICATIONS COMPANY AND CITY FOR COMMUNICATION LINE REMOVAL.
13. COORDINATE WITH GAS COMPANY AND CITY FOR GAS LINE REMOVAL.
14. SAW CUT 23 LF ASPHALT SURFACE, FULL DEPTH.
15. DISCONNECT, CAP, AND ABANDON 39 LF STORM SEWER.
16. REPAIR STORM SEWER KNOCK-OUT WITH REDI-MIX CONCRETE AFTER SEWER REMOVAL. APPLY STEEL REINFORCEMENT.

N

0 10 20 Feet

6808 Odana Road, Suite 200
Madison, WI 53719-1137
Phone: 608.826.6159
FAX: 608.826.6166
Toll Free: 800.472.4362
www.sehinc.com

SEH

Madison Water Utility

UNIT WELL 12 UPGRADE & CONVERSION TO TWO ZONE WELL
MADISON WATER UTILITY
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
		REVISIONS

SEH FILE NO. MADWU 130564
PROJECT NO. 12-02-16
ISSUE DATE JJB
DESIGNED BY JJB
DRAWN BY Short Elliott Hendrickson, Inc.® (SEH)

SHEET TITLE
DEMOLITION PLAN

SHEET
C2

PLOTTED: 12-16-2016 3:07 PM
PLOT SCALE: 1:2

C:\PROJECTS\KO\WI\MADWU\130564\5-DESIGN\SECOND DESIGN\51-DRAWINGS\10-CIVIL\SHEETS\C1.0_DEMOLITION_MA130564.DWG
SAVED: 11-9-2016 5:13 PM USER: JOSH BOHNERT

1. 506 SY ASPHALT PAVEMENT. SEE DETAIL C/CD1.
2. 292 SF CONCRETE SIDEWALK, 5' WIDE. SEE DETAIL D/CD1.
3. ADA PARKING STALL, SEE SECTION 32 17 25.
4. ADA PARKING SYMBOL, SEE SECTION 32 17 25.
5. EXISTING UNIT WELL 12 TO BE PROTECTED AND PUT BACK INTO SERVICE. SITE SHALL BE CONSTRUCTED AND DIMENSIONED FROM THE UNIT WELL 12 BOREHOLE CENTERLINE.
6. 6' X 5' CONCRETE STOOP. SEE STRUCTURAL DRAWINGS.
7. MATCH EXISTING PAVEMENT SURFACE.
8. PARKING LOT LINE, SEE SECTION 32 17 25.
9. ADA PARKING SIGN, WISDOT R7-8A & R7-8V MOUNTED 5' HIGH ON BLUE PAINTED GALVANIZED STEEL POST IN CENTER OF STALL END.

6808 Odana Road, Suite 200
Madison, WI 53719-1137
Phone: 608.826.6159
FAX: 608.826.6166
Toll Free: 800.274.4362
www.sehinc.com

Madison Water Utility

UNIT WELL 12 UPGRADE & CONVERSION TO TWO ZONE WELL
MADISON WATER UTILITY
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
		REVISIONS

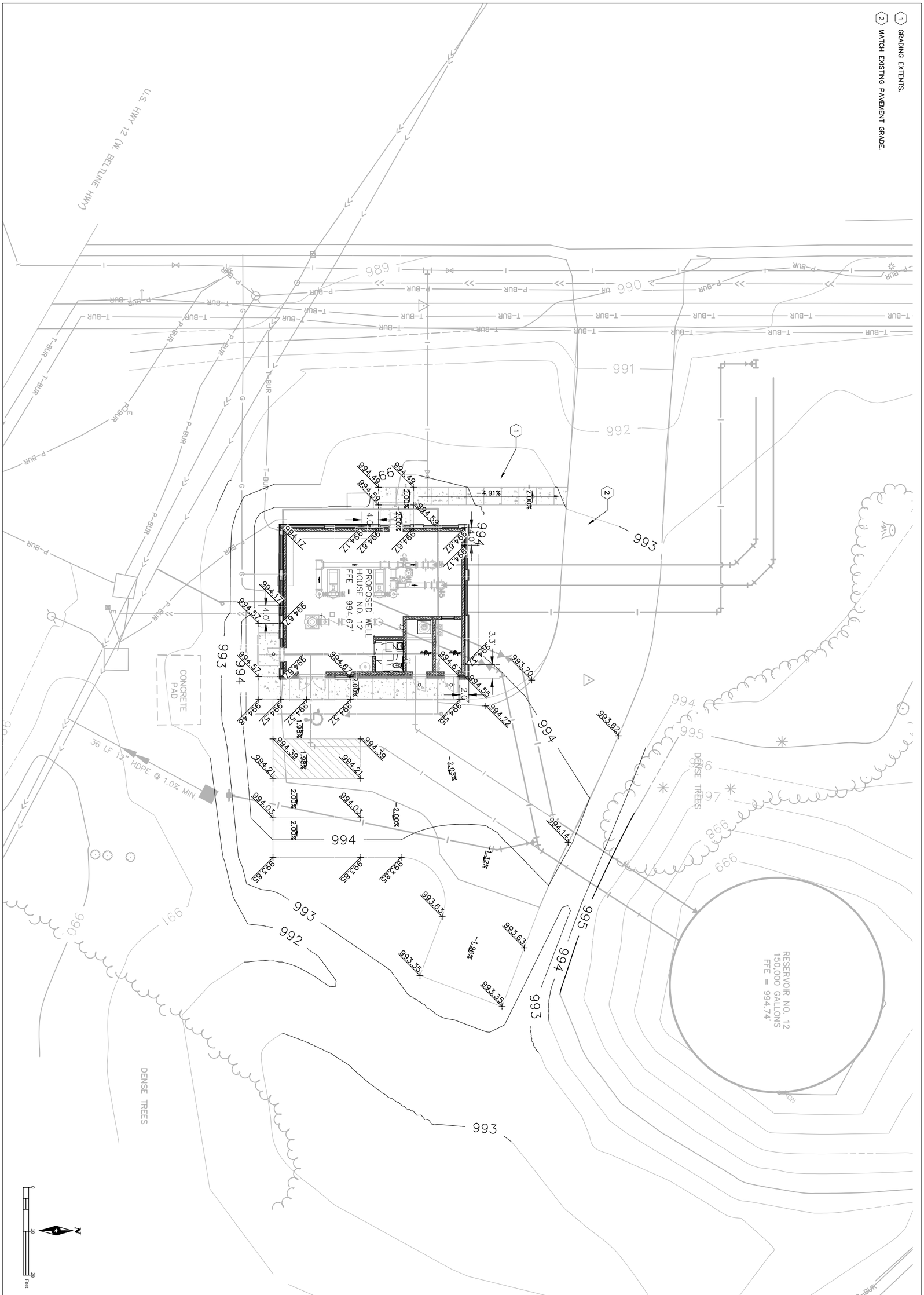
SEH FILE NO.	MADWU 130564
PROJECT NO.	
ISSUE DATE	12-02-16
DESIGNED BY	JJB
DRAWN BY	JJB
Short Elliott Hendrickson, Inc. © (SEH)	

SHEET TITLE
SITE PLAN

SHEET
C3

C:\PROJECTS\KO\WI\MADWU\130564\5-DESIGN\SECOND DESIGN\51-DRAWINGS\10-CIVIL\SHEETS\C1.1_SITEPLAN.DWG
SAVED: 12-16-2016 2:29 PM USER: JOSH BOHNERT
PLOTTED: 12-16-2016 3:08 PM PLOT SCALE: 1:2
XREF: MA130564_BaseMap; OLD-Madison Unit Well 12 TOPO; MA130564_Utilities; MA130564_Geometrics; MA130564_Contours; MA130564_ContoursPROPOSED; MA130564_Aerial; MA130564_BaseMap; OLD-Madison Unit Well 12 Border; MA130564_Aerial

1. GRADING EXTENTS.
2. MATCH EXISTING PAVEMENT GRADE.



SHEET C5

SHEET TITLE
GRADING PLAN

SFH FILE NO. MADWU 130564
PROJECT NO.
ISSUE DATE 12-02-16
DESIGNED BY JJB
DRAWN BY JJB
Short Elliott Hendrickson, Inc. ® (SEH)

MARK DATE DESCRIPTION
REVISIONS

UNIT WELL 12 UPGRADE &
CONVERSION TO TWO ZONE WELL
MADISON WATER UTILITY
MADISON, WISCONSIN

Madison Water Utility

SEH
6808 Odana Road, Suite 200
Madison, WI 53719 - 1137
Phone: 608.620.6199
FAX: 888.908.8166
Toll Free: 800.732.4362
www.sehinc.com

PLANT LIST

QUANTITIES LISTED HEREIN ARE FOR REVIEW PURPOSES ONLY.
PLANT QUANTITIES ILLUSTRATED ON PLANS SHALL BE VERIFIED BY BIDDING CONTRACTOR.

QTY.	SYM	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
DECIDUOUS TREES					
2	AFM	ACER X FREEMANII 'MARMO'	MARMO MAPLE	2 1/2" CAL	B & B
2	QR	QUERCUS RUBRA	RED OAK	2 1/2" CAL	B & B
2	TLA	TILIA AMERICANA	AMERICAN LINDEN	2 1/2" CAL	B & B
DECIDUOUS SHRUBS					
7	IV	ILEX VERTICULATA	WINTERBERRY	36" HT	B & B
15	PO	PHYSOCARPOS OPULIFOLIUS 'MINDA'	COPPERTINA NINEBARK	36" HT	B & B
EVERGREEN SHRUBS					
8	JCS	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	36" SPD	B & B

GENERAL NOTES

- ALL PLANT MATERIAL IS SUBJECT TO AVAILABILITY AND PROPER SEASONAL PLANTING PROCEDURES.
- ANY SUBSTITUTIONS, MODIFICATIONS, OR DEVIATIONS FROM THIS PLAN REQUIRE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL SHALL BE PLANTED IN ACCORDANCE TO THE PLANTING DETAILS.
- ALL PLANTING BEDS TO RECEIVE 3" SHREDDED HARDWOOD MULCH.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES, PRIOR TO DIGGING. CONSULT DIGGERS HOTLINE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES AND LICENSES NECESSARY FOR THE INSTALLATION OF THIS PLAN.
- THE CONTRACTOR IS TO REVIEW ALL SITE ENGINEERING DOCUMENTS PRIOR TO INSTALLATION. ANY CONFLICTS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT. THESE LANDSCAPE DRAWINGS ARE FOR THE INSTALLATION OF PLANT MATERIALS ONLY UNLESS OTHERWISE STATED.
- STAKE AND LAYOUT ALL PLANT LOCATIONS FOR APPROVAL OF LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

NOTE:

ORDINANCE 28.142 (2)(a)-(d) APPLICABILITY
ALL CONDITIONS ARE MET, THUS LANDSCAPE IMPROVEMENTS ONLY APPLY TO AFFECTED AREA.

ORDINANCE 28.142 (5)(a) DEVELOPMENT FRONTAGE
SITE FRONTAGE ON WHITNEY WAY EQUALS 152'. THEREFORE 6 OVERSTORY TREES AND 30 SHRUBS ARE REQUIRED.

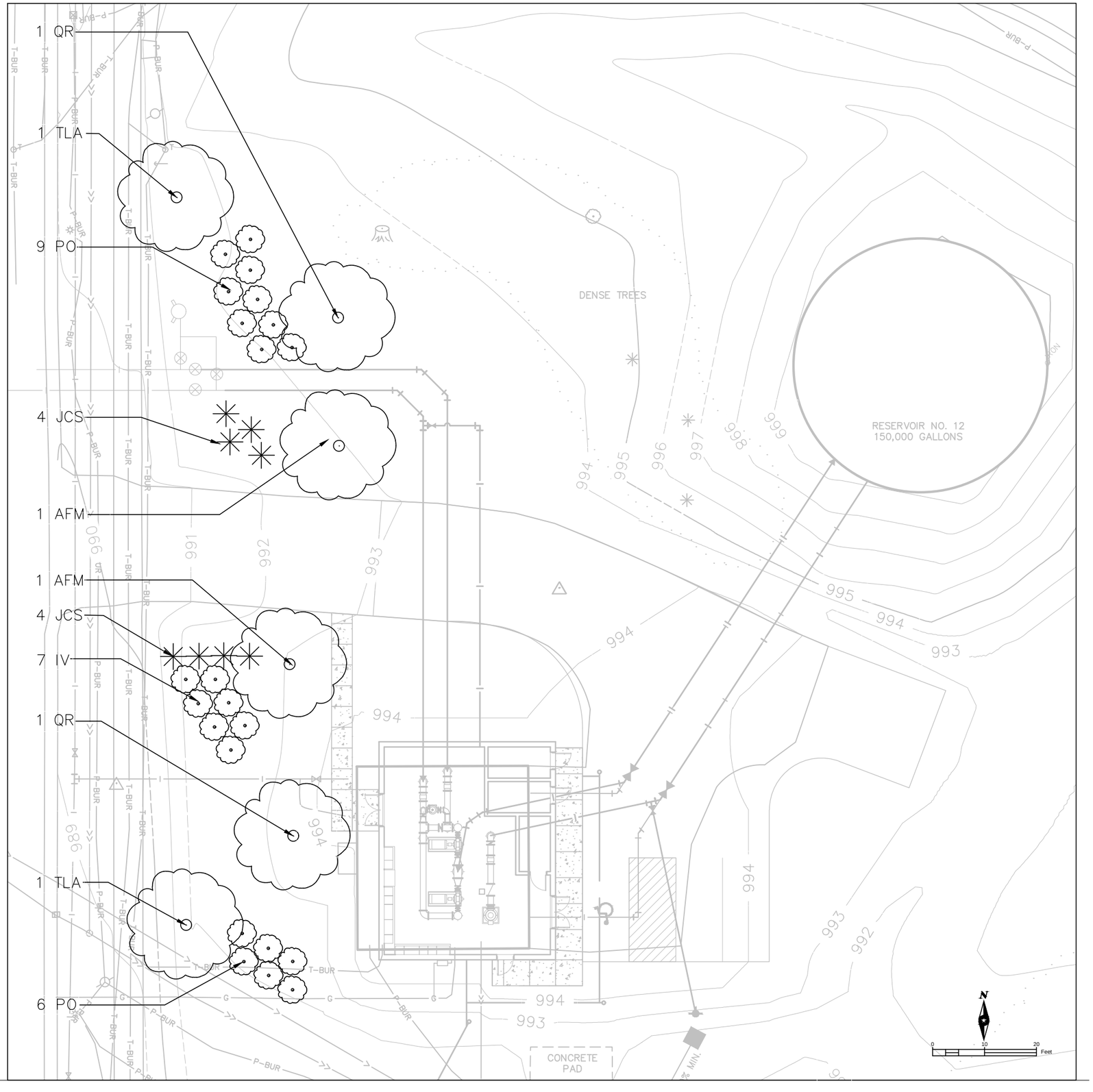
ORDINANCE 28.142(6) PARKING LOT
THE EXISTING PARKING LOT PLUS PROPOSED ADDITIONAL PARKING SPACES IS LESS THAN 20 PARKING SPACES, THEREFORE PARKING LOT LANDSCAPING IS NOT REQUIRED.

LEGEND

DECIDUOUS TREES

DECIDUOUS SHRUBS

EVERGREEN SHRUBS



6808 Odana Road, Suite 200
Madison, WI 53719-1137
Phone: 608.826.8159
Fax: 608.826.8161
Toll Free: 800.732.4562
www.sehinc.com

SEH

UNIT WELL 12 UPGRADE & CONVERSION TO TWO ZONE WELL
MADISON WATER UTILITY
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
1	10-31-16	REVISIONS FOR UTILITIES

REVISIONS

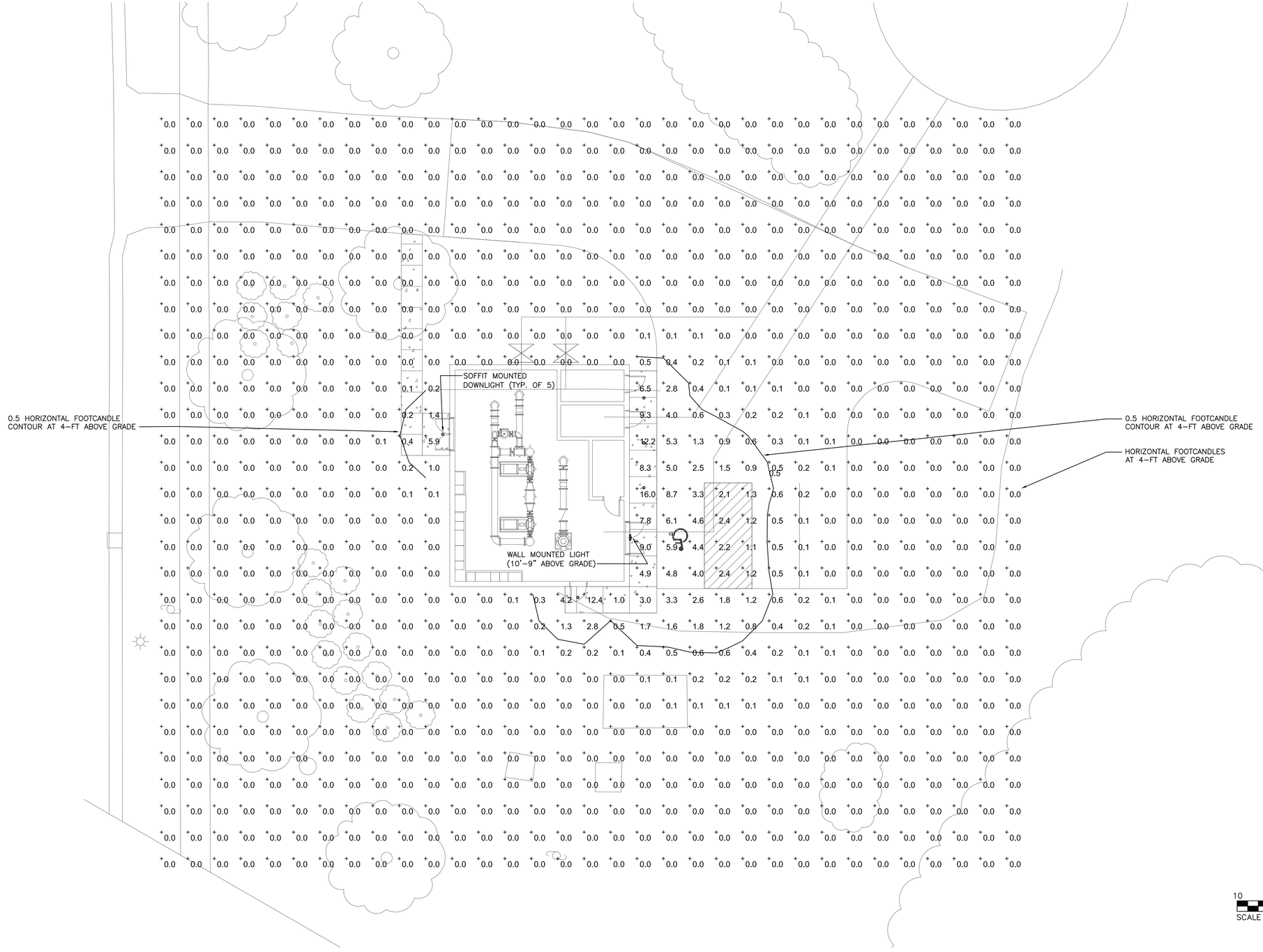
SEH FILE NO.	MADWU 130564
PROJECT NO.	
ISSUE DATE	06-14-16
DESIGNED BY	JJB
DRAWN BY	JJB

Short Elliott Hendrickson, Inc.® (SEH)

SHEET TITLE
LANDSCAPE PLAN

SHEET
C7

Q:\KO\VM\MADWU\130564\5-FINAL-DSGN\51-DRAWINGS\10-CIVIL\SHEETS\C1.5_LANDSCAPEPLAN_MA130564.dgn
SAVED: 10-31-2016 8:17 AM USER: DALE BUNDERSON
XREFS: 130564_Border; MA130564_Aerial; MA130564_BaseMap; OLD-Madison Unit Well 12 TOPO; MA130564_Utilities; MA130564_Geometrics; MA130564_Contours; MA130564_ContourPolyline
PLOTTED: 10-31-2016 8:20 AM
PLOT SCALE: 1:2



10 0 10 20
SCALE IN FEET

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

Madison Water Utility

Potter Lawson Success by Design

SEH

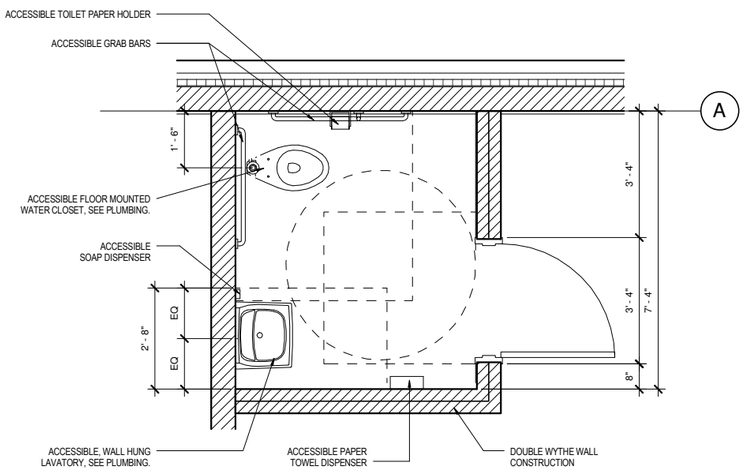
UNIT WELL 12 UPGRADE
AND CONVERSION
MADISON, WISCONSIN

MARK DATE DESCRIPTION
REVISIONS

SEH FILE NO. MADWU 130564
PROJECT NO.
ISSUE DATE 10–17–2016
DESIGNED BY RICHARD J. BOYA
DRAWN BY BRIAN E. FULLER
Short Elliott Hendrickson, Inc.® (SEH)

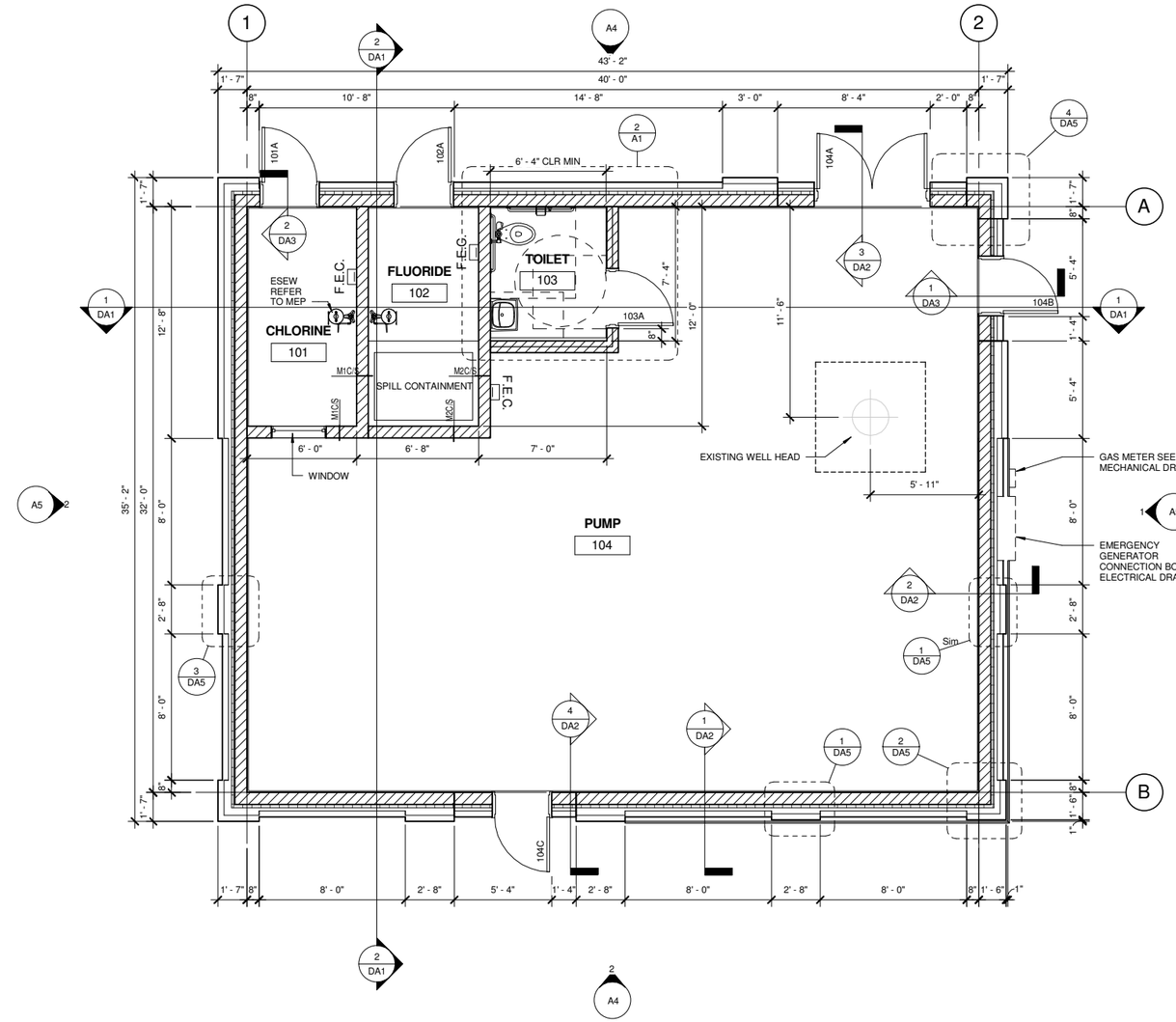
SHEET TITLE
SITE LIGHTING
PHOTOMETRIC PLAN

SHEET
SL



2 / A1 TOILET ROOM ENLARGED PLAN

1/2" = 1'-0"



1 / A1 FIRST FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR ALL DETAILS RELATED TO CMU REINFORCING.
2. ALL CMU SURFACES EXPOSED TO VIEW SHALL BE GLAZED FACED UNITS.
3. PROVIDE BULLNOSE UNITS AT CORNERS AND JAMBS.
4. PROVIDE LINTEL UNITS OVER OPENINGS.
5. PROVIDE GLAZED SILL UNITS AT SILL CONDITIONS. ALL WALLS HAVE COVED BASE STARTER COURSE.
6. CONSTRUCT WALLS COMMON TO PUMP ROOM SO THAT GOOD SIDE FACES THE PUMP ROOM.
7. SEE OTHER DRAWINGS FOR EQUIPMENT LOCATIONS AND HOUSE KEEPING PADS.
8. REFER TO DIVISION 9 SPECIFICATIONS FOR INTERIOR FINISHES.

NOTE: ALL DRAWING SCALES ARE FOR PLANS PRINTED ON 34"x22" SHEETS

Madison Water Utility

Potter Lawson Solutions by Design

SEH

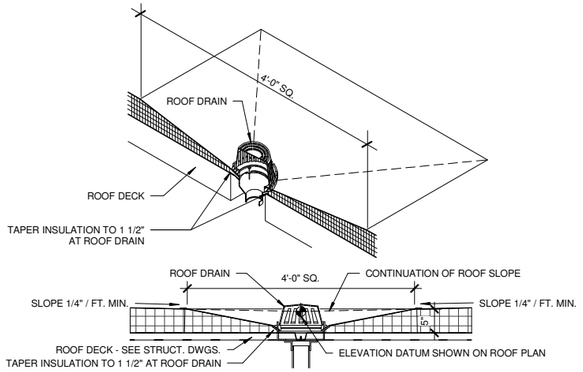
UNIT WELL 12 UPGRADE AND CONVERSION
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
.		
.		

SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE January 27, 2017
DESIGNED BY
DRAWN BY

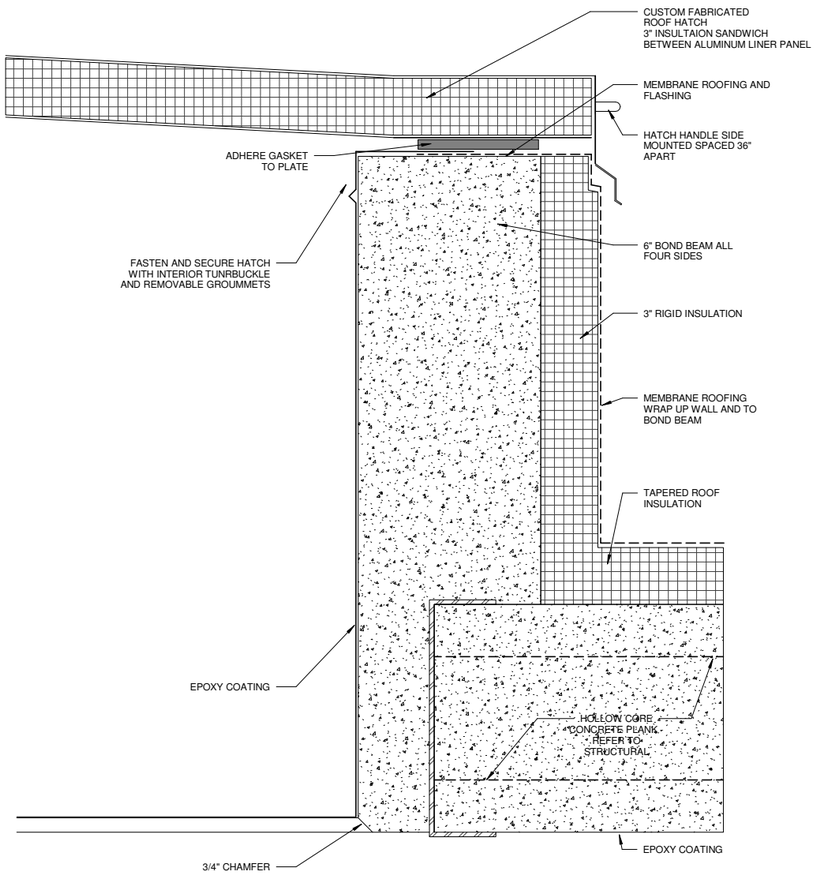
SHEET TITLE: Floor Plan

SHEET A1



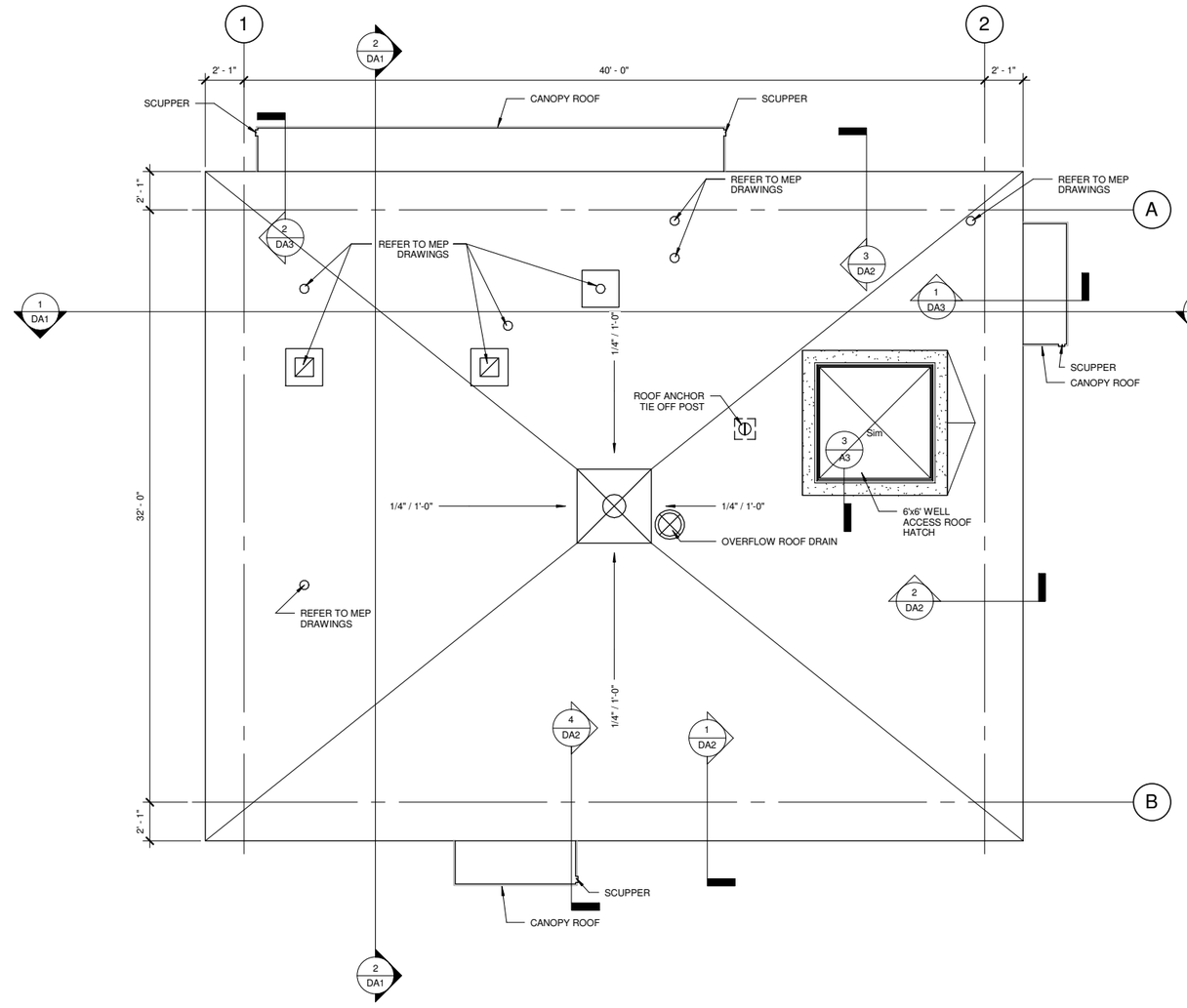
2 / A3 ROOF DRAIN DETAIL

3/4" = 1'-0"



3 / A3 ROOF HATCH DETAIL

3" = 1'-0"



1 / A3 ROOF PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. CENTER WELL ACCESS ROOF HATCH OVER WELL LOCATION; VERIFY IN FIELD.
2. REFER TO MEP DRAWINGS FOR INTAKE, VENTS AND OTHER ROOF PENETRATIONS. PROVIDE CURBS AND SLEEVES AS REQUIRED

NORTH

NOTE: ALL DRAWING SCALES ARE FOR PLANS PRINTED ON 34"x22" SHEETS

Madison Water Utility

Potter Lawson Solutions by Design

SEH

UNIT WELL 12 UPGRADE AND CONVERSION
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
.		
.		

SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE January 27, 2017
DESIGNED BY
DRAWN BY

SHEET TITLE
Roof Plan

SHEET
A3

1 / A4 EAST ELEVATION

1/4" = 1'-0"

2 / A4 WEST ELEVATION

1/4" = 1'-0"

GENERAL NOTES:

1. ALL CAST STONE COPINGS PROJECT NOMINALLY 1.5" BEYOND FACE OF STONE

KEY NOTES:

1	STONE VENEER 1
2	STONE VENEER 2
3	GLASS BLOCK REFER TO DA6
4	TERRA COTTA
5	CAST STONE COPING 1
6	CAST STONE COPING 2
7	METAL FASCIA
8	LOUVER REFER TO DA6
9	SOFFIT LIGHT CENTER ON DOOR REFER TO ELECTRICAL DRAWINGS
10	SALVAGED STONE SIGNAGE FROM EXISTING BUILDING. CLEAN STONE AND PAINT RECESSED LETTERING.
11	BUILDING ADDRESS COORDINATE WITH OWNER
12	GENERATOR CONNECTION BOX AND GAS SERVICE REFER TO MEP DRAWINGS
13	SALVAGED STONE VENEER FROM EXISTING. BUILDING.

NOTE: ALL DRAWING SCALES ARE FOR PLANS PRINTED ON 34"x22" SHEETS

Madison Water Utility

Potter Lawson — Success by Design

SEH

UNIT WELL 12 UPGRADE
AND CONVERSION
MADISON, WISCONSIN

MARK | DATE | DESCRIPTION

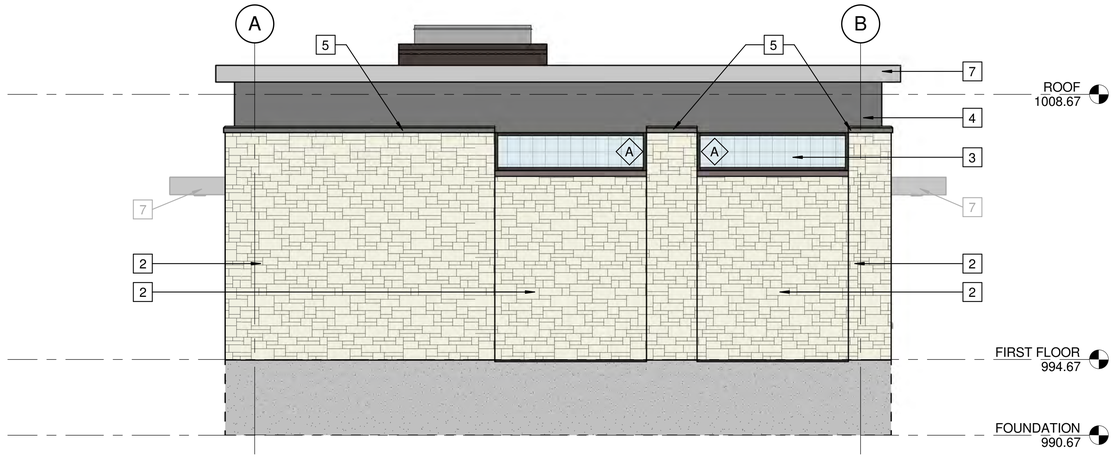
SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE January 27, 2017
DESIGNED BY
DRAWN BY

SHEET TITLE
Building Elevations

SHEET
A4

1 / A5 SOUTH ELEVATION

1/4" = 1'-0"



2 / A5 NORTH ELVEVATION

1/4" = 1'-0"

GENERAL NOTES:

1. ALL CAST STONE COPINGS PROJECT NOMINALLY 1.5" BEYOND FACE OF STONE

KEY NOTES:

1. STONE VENEER 1
2. STONE VENEER 2
3. GLASS BLOCK REFER TO DA6
4. TERRA COTTA
5. CAST STONE COPING 1
6. CAST STONE COPING 2
7. METAL FASCIA
8. LOUVER REFER TO DA6
9. SOFFIT LIGHT CENTER ON DOOR REFER TO ELECTRICAL DRAWINGS
10. SALVAGED STONE SIGNAGE FROM EXISTING BUILDING. CLEAN STONE AND PAINT RECESSED LETTERING.
11. BUILDING ADDRESS COORDINATE WITH OWNER
12. GENERATOR CONNECTION BOX AND GAS SERVICE REFER TO MEP DRAWINGS
13. SALVAGED STONE VENEER FROM EXISTING. BUILDING.

NOTE: ALL DRAWING SCALES ARE FOR PLANS PRINTED ON 34"x22" SHEETS

Madison Water Utility

Potter Lawson Success by Design

SEH

UNIT WELL 12 UPGRADE
AND CONVERSION
MADISON, WISCONSIN

MARK DATE DESCRIPTION

SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE January 27, 2017
DESIGNED BY
DRAWN BY

SHEET TITLE
Building Elevations

SHEET
A5

Madison Water Utility

Potter Lawson
Success by Design

SEH

UNIT WELL 12 UPGRADE
AND CONVERSION
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION

SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE
DESIGNED BY
DRAWN BY

SHEET TITLE
Building Perspectives

SHEET
A10

Madison Water Utility

Potter Lawson
Success by Design

SEH

UNIT WELL 12 UPGRADE
AND CONVERSION
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION

SEH FILE NO. MADWU 126154
PROJECT NO.
ISSUE DATE
DESIGNED BY
DRAWN BY

SHEET TITLE
Building Perspectives

SHEET
A11