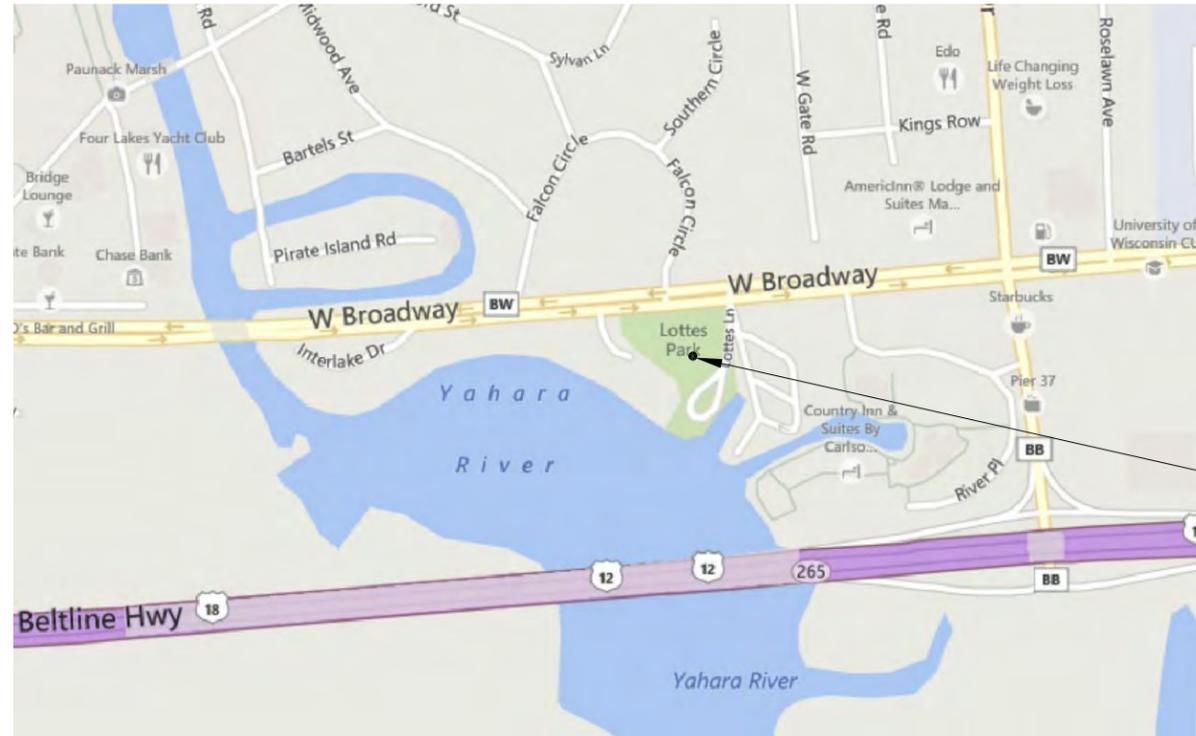


# LOTTE'S PARK IMPROVEMENTS

## PARKING LOT, BOAT LAUNCH & BOARDWALK

### CITY OF MONONA, WISCONSIN



CITY OF MONONA

PROJECT LOCATION

DANE COUNTY

WISCONSIN



CALL DIGGER'S HOTLINE  
1-800-242-8511  
TOLL FREE

TELEFAX: 1-800-338-3860  
TDC (FOR HEARING IMPAIRED):  
1-800-542-2289

WIS. STATUTE 182.0175 (1979)  
REQUIRES MINIMUM OF 3 WORKING DAYS  
NOTICE BEFORE YOU EXCAVATE.

#### SITE BENCHMARKS

- HYDRANT TOP NUT  
NW CORNER ACCESS DRIVE  
ELEV = 857.58
- HYDRANT TOP NUT  
NW CORNER INTERLAKE  
DR. & W BROADWAY  
INTERSECTION  
ELEV = 855.24
- HYDRANT TOP NUT  
INTERLAKE DR. 140' SOUTH  
OF INTERLAKE DR. & W  
BROADWAY INTERSECTION  
ELEV = 852.50

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	SITE PLAN
5	GRADING, EROSION CONTROL & UTILITY PLAN
6	LAGOON DREDGING PLAN
7-13	DETAILS

THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE  
1-800-242-8511

**Title Sheet**  
Lottes Park  
City of Monona  
Dane County, Wisconsin

REVISIONS	NO.	DATE	REMARKS

SCALE  
n/a

DATE  
June 23, 2014

DRAFTER  
BSCH

CHECKED  
CMAT

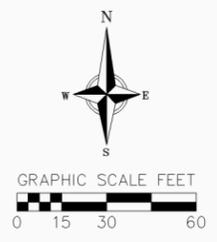
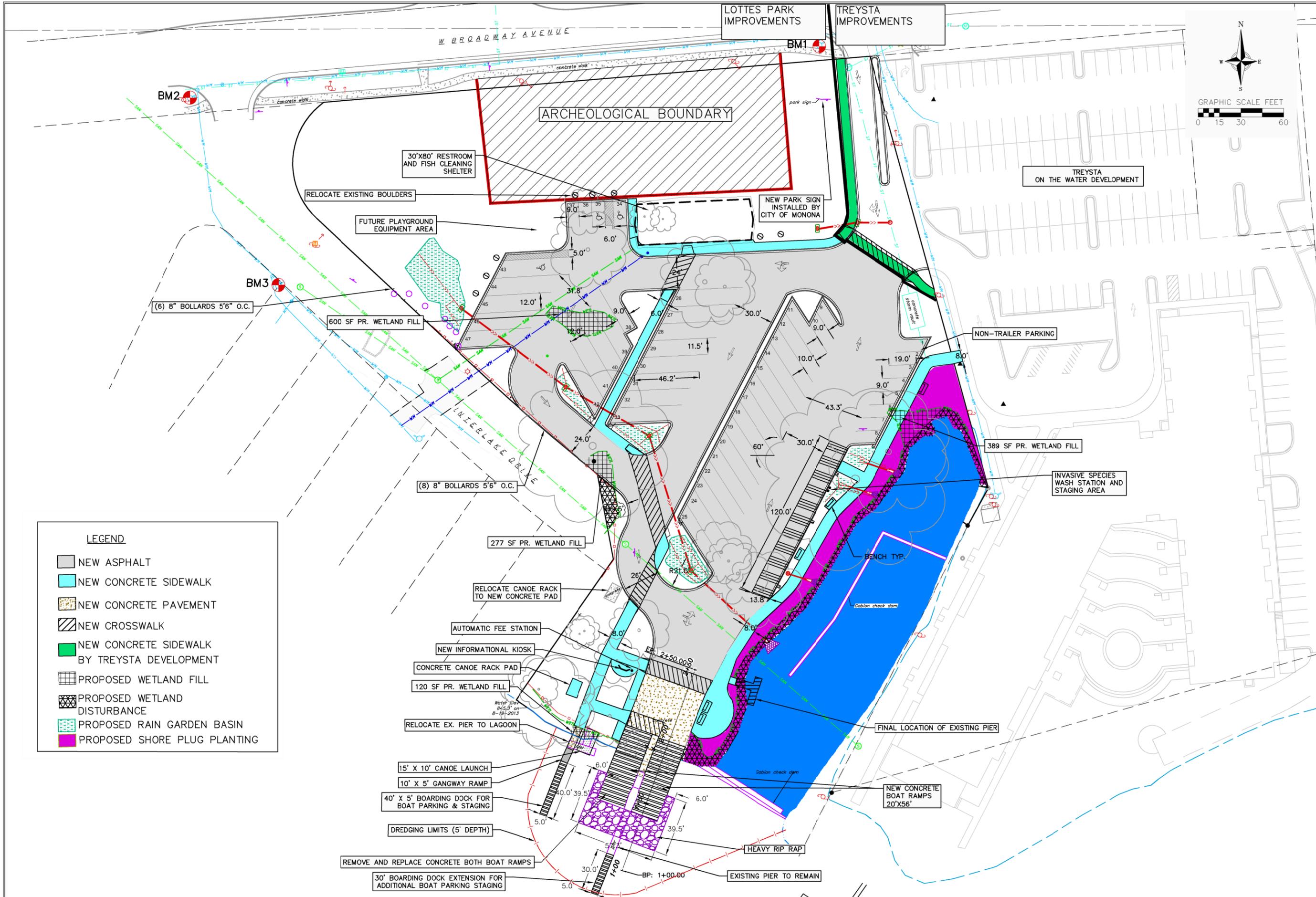
PROJECT NO.  
130152.00

SHEET  
1 OF 13

DWG. NO.







**LEGEND**

- NEW ASPHALT
- NEW CONCRETE SIDEWALK
- NEW CONCRETE PAVEMENT
- NEW CROSSWALK
- NEW CONCRETE SIDEWALK BY TREYSTA DEVELOPMENT
- PROPOSED WETLAND FILL
- PROPOSED WETLAND DISTURBANCE
- PROPOSED RAIN GARDEN BASIN
- PROPOSED SHORE PLUG PLANTING

**SITE PLAN**  
 Lottes Park  
 City of Monona  
 Dane County, Wisconsin

REVISIONS	
NO.	DATE

SCALE  
 1"=30' (22"x34")  
 1"=60' (11"x17")

DATE  
 8-19-14

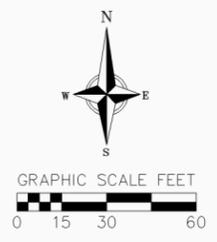
DRAFTER  
 BSCH

CHECKED  
 CMT

PROJECT NO.  
 130152.00

SHEET  
 4 OF 13

DWG. NO.



**LEGEND**

- NEW ASPHALT
- NEW CONCRETE SIDEWALK
- NEW CONCRETE PAVEMENT
- NEW CROSSWALK
- NEW CONCRETE SIDEWALK BY TREYSTA DEVELOPMENT
- PROPOSED WETLAND FILL
- PROPOSED WETLAND DISTURBANCE
- PROPOSED RAIN GARDEN BASIN
- PROPOSED SHORE PLUG PLANTING
- PROPOSED EROSION MAT
- PROPOSED SILT FENCE
- PROPOSED TURBIDITY BARRIER
- DELINEATED WETLAND BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

SCALE  
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 1"=60' (11"x17")

DATE  
 7-22-14

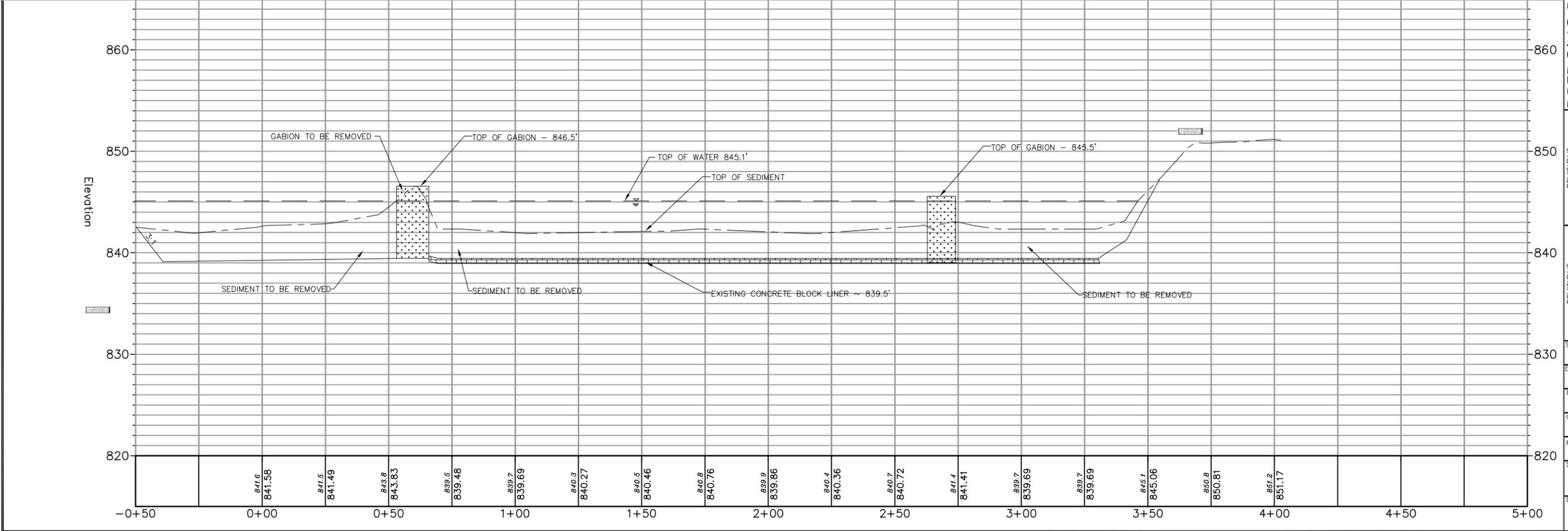
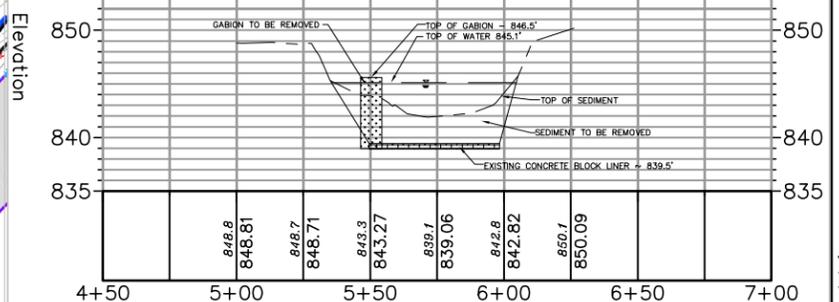
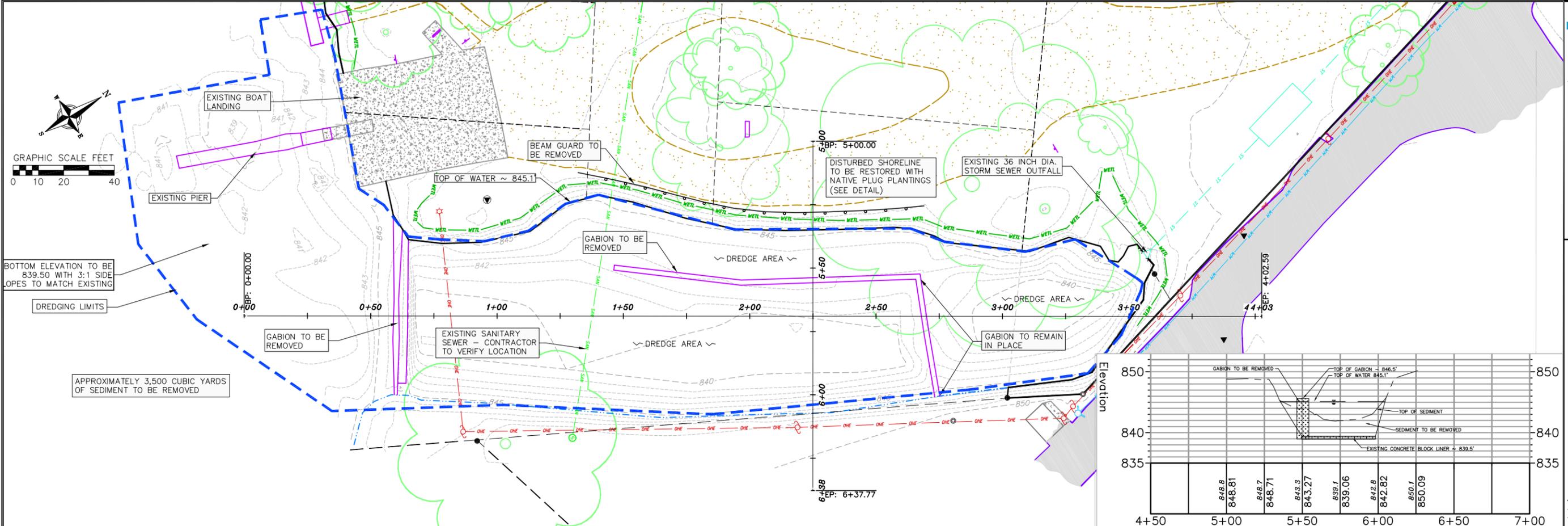
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 BSCH

CHECKED  
 CMAT

PROJECT NO.  
 130152.00

SHEET  
 5 OF 13

DWG. NO.  
 S-520



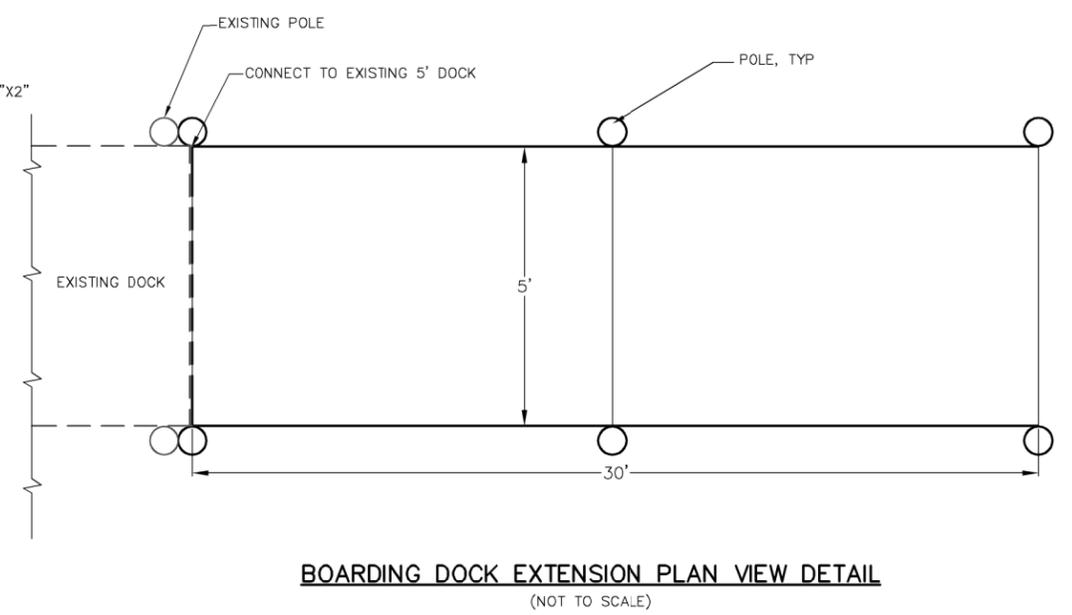
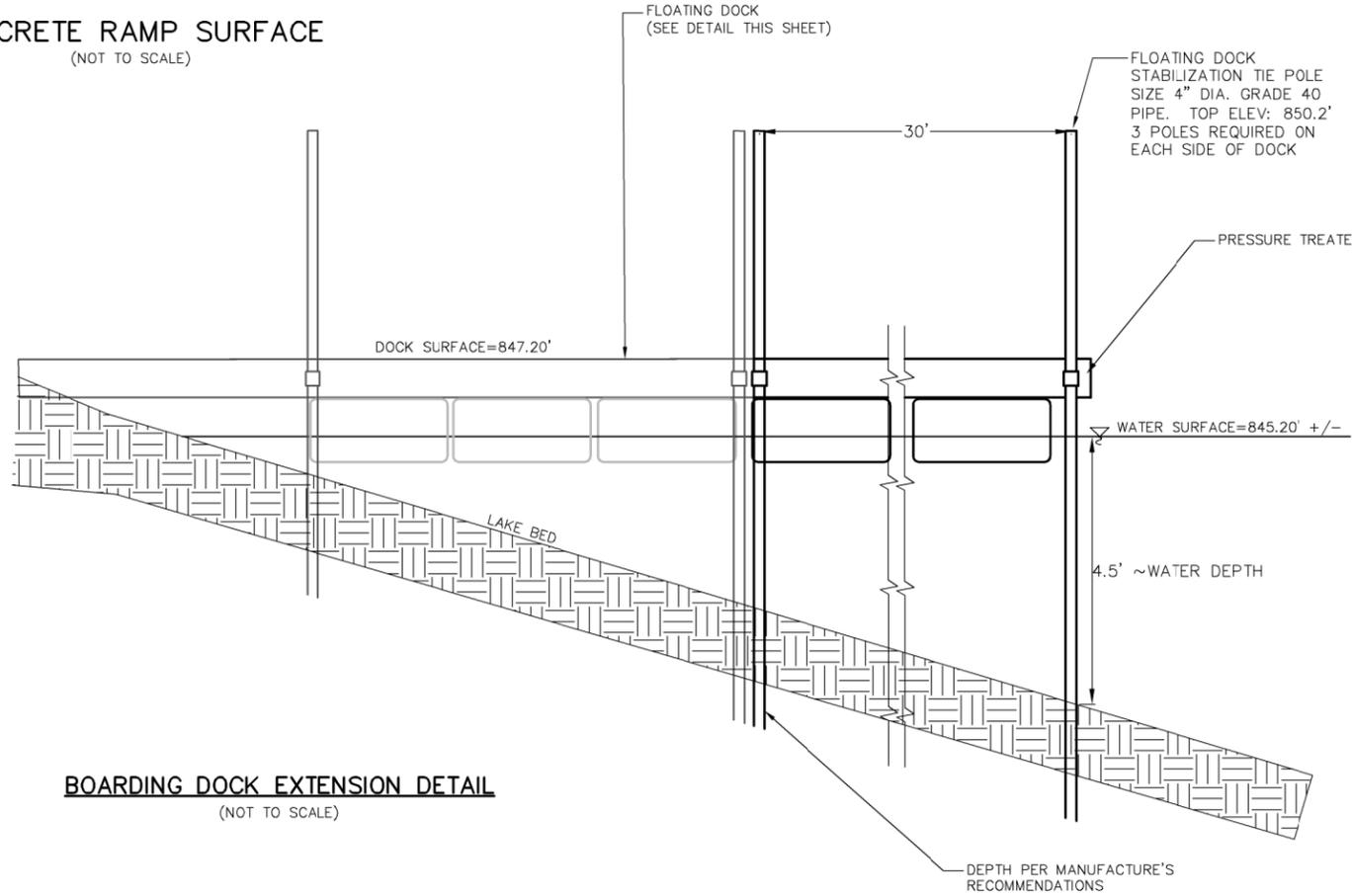
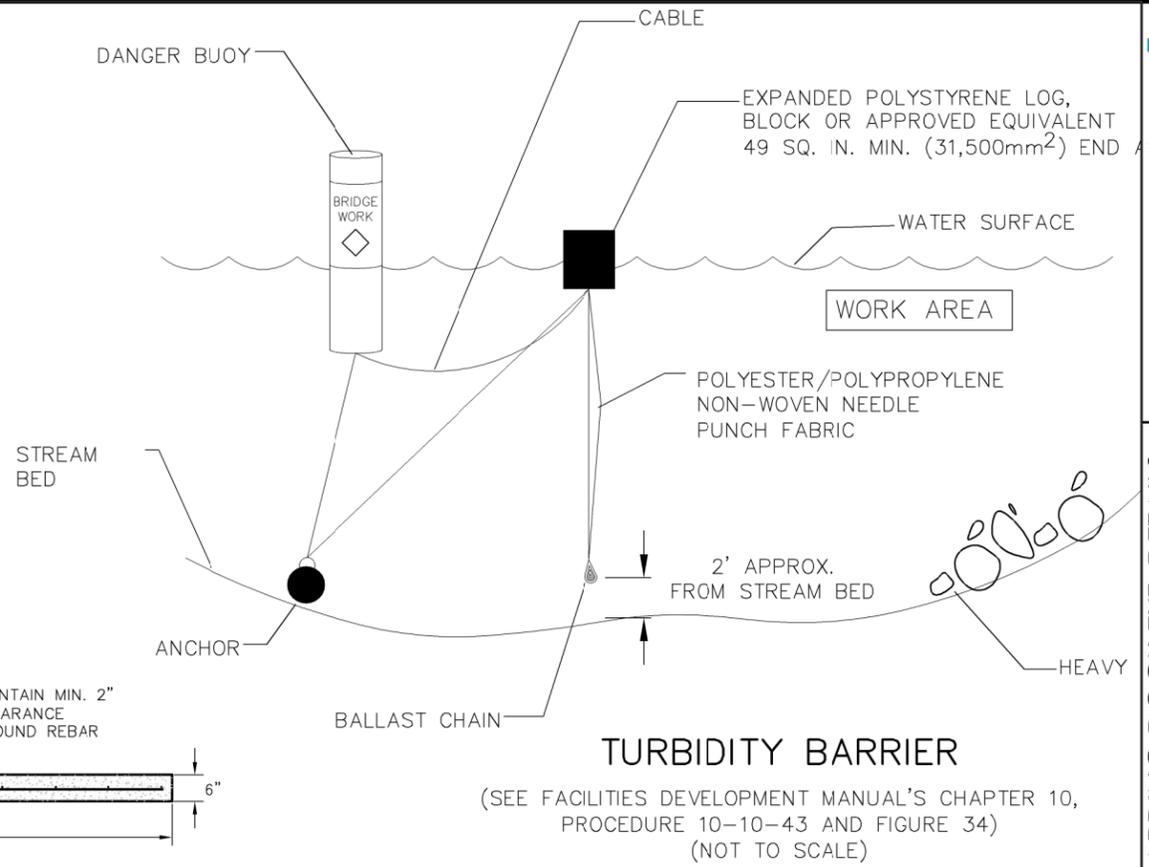
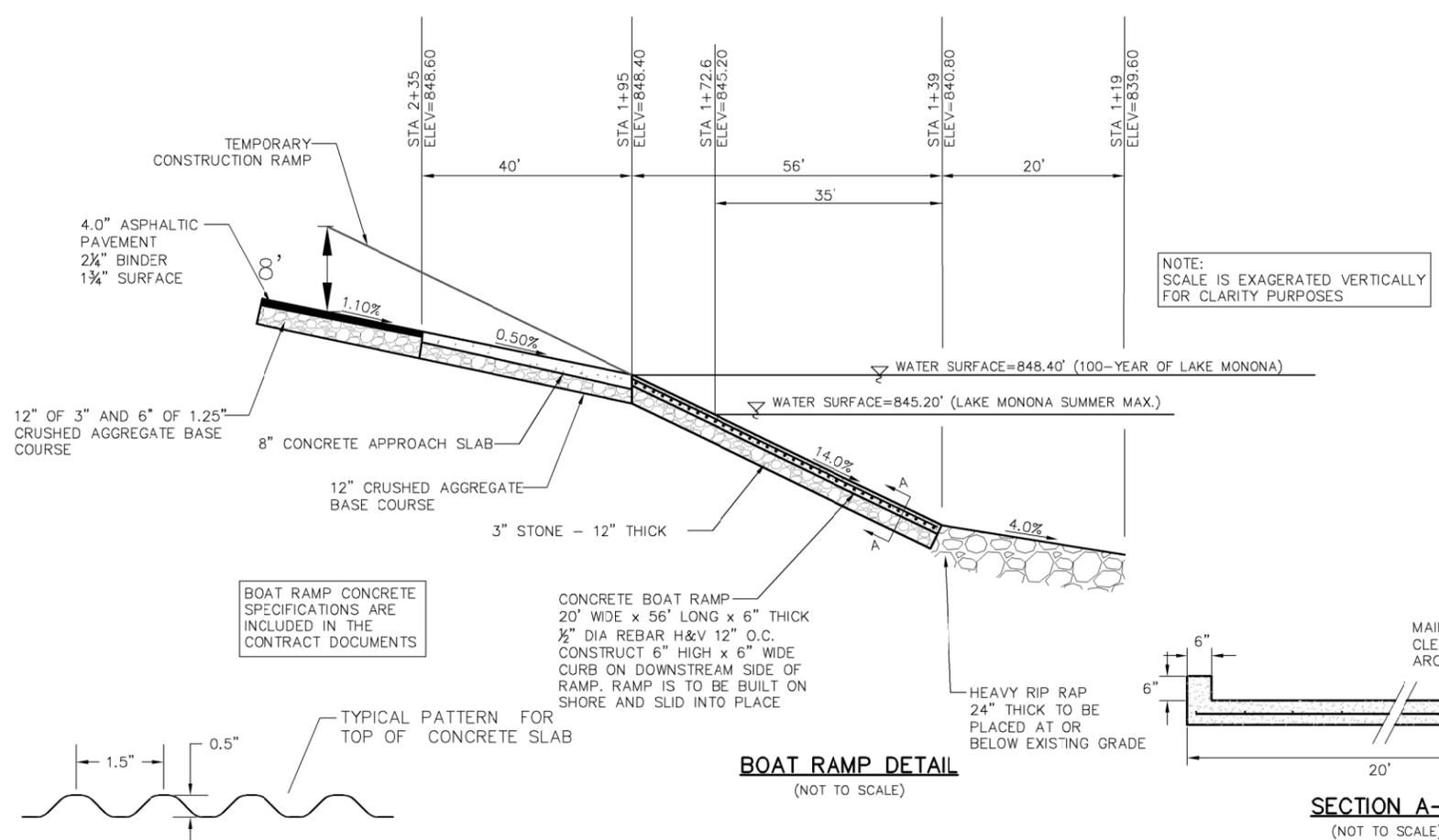
**DREDGING PLAN**  
 LOTTES PARK LAGOON SEDIMENT REMOVAL  
 CITY OF MONONA  
 DANE COUNTY, WI

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

SCALE: AS SHOWN  
 DATE: June 23, 2014  
 DRAFTER: NPFA  
 CHECKED: CMAT  
 PROJECT NO.: 130152  
 SHEET: 6 OF 13  
 DWG. NO.:

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M:\Monona\_City of Monona Park Improvements\Engineering\Civil\3D\Lotties Park Base Map.dwg by: bsch



REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

SCALE  
1"=30' (22"x34")  
1"=60' (11"x17")

DATE  
6-23-14

DRAFTER  
BSCH

CHECKED  
CMAT

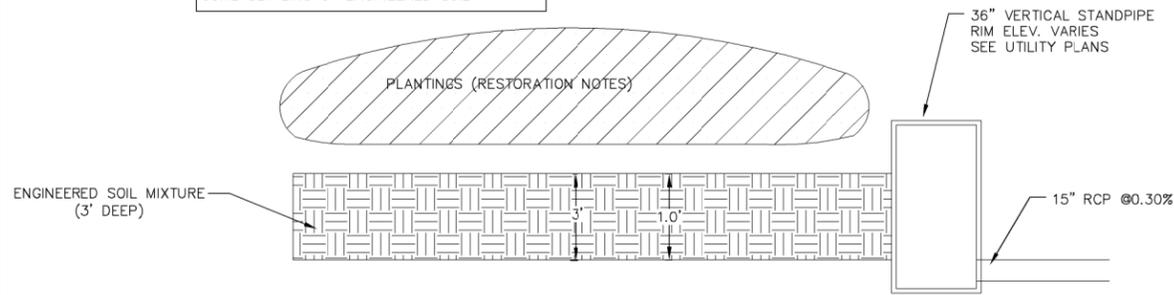
PROJECT NO.  
130152.00

SHEET  
7 OF 13

DWG. NO.



NOTE: OVERFILL BASIN BY 2" TO ALLOW FOR SOME SETTLING OF ENGINEERED SOIL

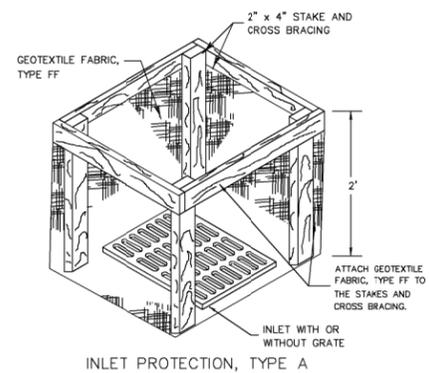
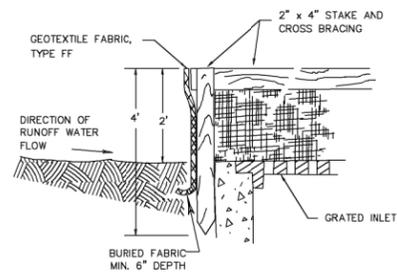


**ENGINEERED SOIL MIXTURE**  
 70% - 85% WASHED SAND  
 15% - 30% COMPOST (MUST MEET WDNR S100 SPECIFICATION)

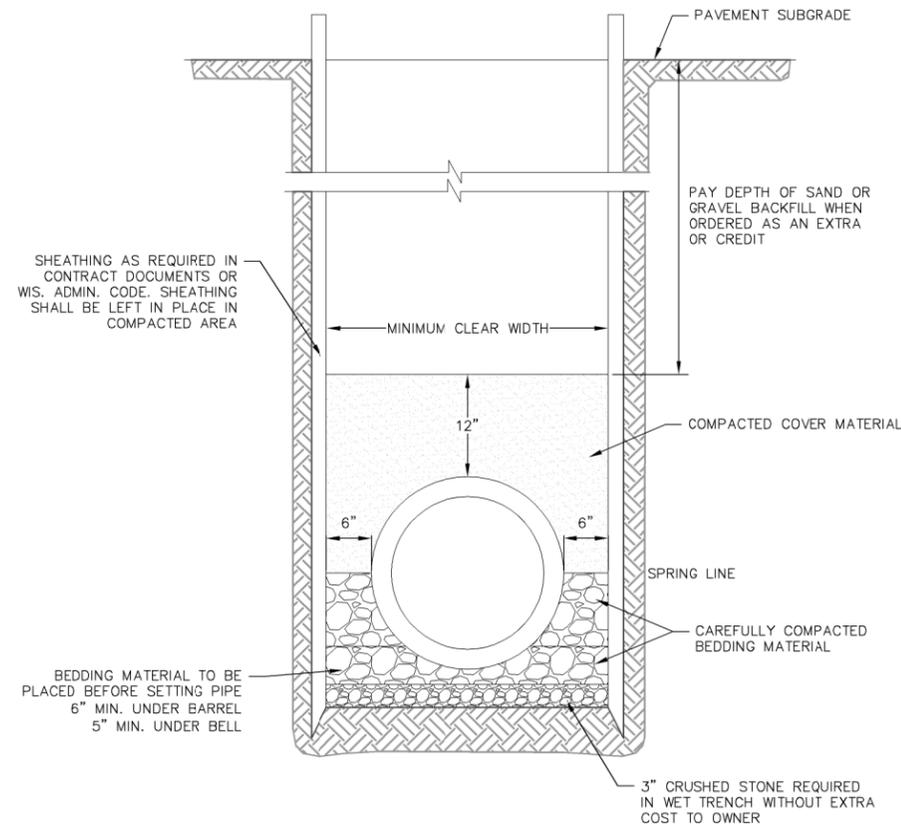
**BIO-RETENTION AREA RESTORATION SPECIFICATIONS:**  
 NOTE:  
 NATIVE RAIN GARDEN PLUG PLANTINGS OR ENGINEER APPROVED EQUAL.

**PLANTING, MULCH, AND MAINTENANCE NOTES:**  
 PLANTING SHOULD TAKE PLACE BETWEEN AVAILABILITY OF PLANTS IN SPRING AND JUNE 30TH, OR BETWEEN SEPTEMBER 1ST AND OCTOBER 15TH. IF PLANTED JULY 1ST THROUGH AUGUST 31ST, HEAVILY WATER THE PLANTS AT THE TIME THEY ARE PLANTED, AND EVERY OTHER DAY FOR A TOTAL OF 4 WATERINGS. A RAIN EVENT GREATER THAN 0.5 INCHES CONSTITUTES A WATERING. IF PLANTED SEPTEMBER 1ST THROUGH OCTOBER 15TH, PLACE CERTIFIED WEED-FREE STRAW MULCH AT 3" MINIMUM THICKNESS BETWEEN PLANTS TO HELP PREVENT FROST HEAVE. IF PLANTING IS TO OCCUR AFTER OCTOBER 15TH, IT MUST BE POSTPONED UNTIL THE FOLLOWING SPRING (MAY). FOR THE FIRST 3 YEARS AFTER PLANTING, SPOT TREAT THE AREA WITH HERBICIDE TO REMOVE WEEDS.

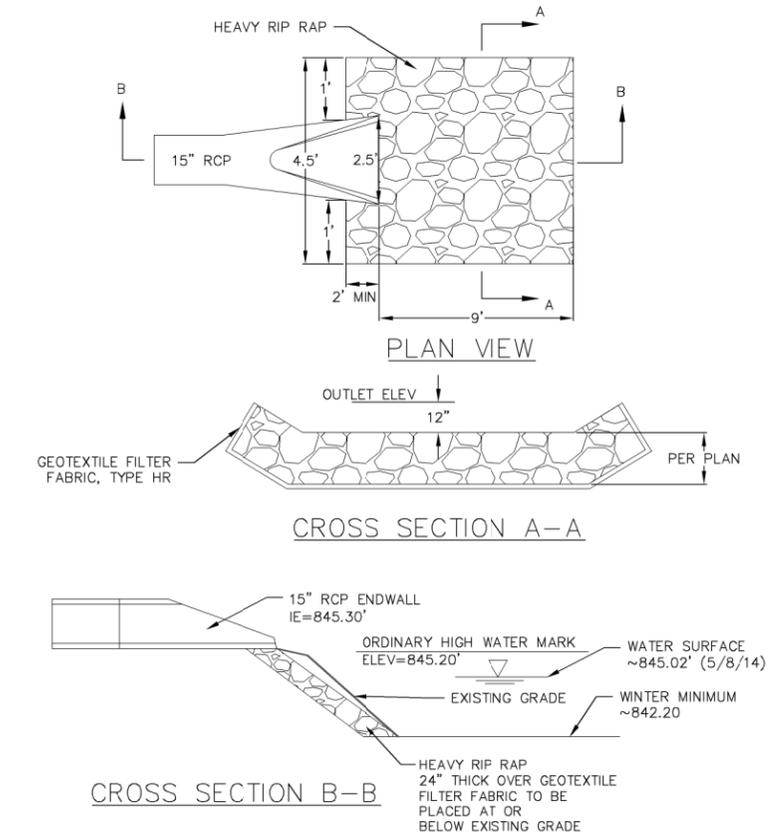
1 RAIN GARDEN BASIN  
 1 NOT TO SCALE



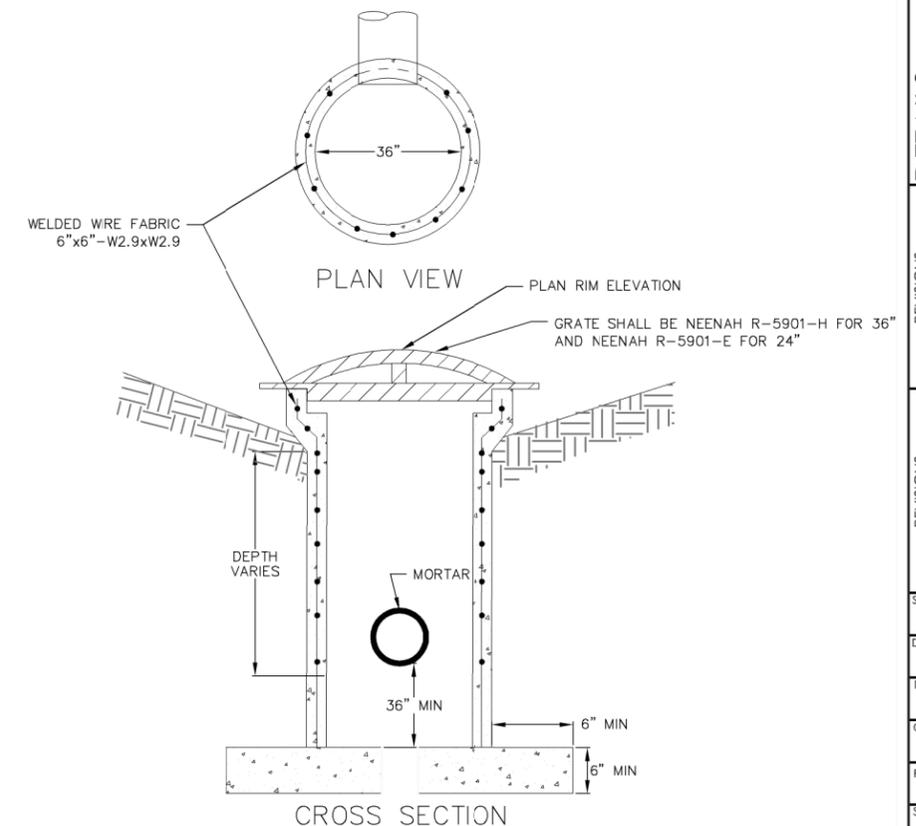
1 INLET PROTECTION TYPE A  
 1 NOT TO SCALE



1 CLASS B BEDDING COMPACTED SECTION  
 1 NOT TO SCALE



1 APRON END WALL DETAIL  
 1 NOT TO SCALE



1 FIELD INLET (36" DIA. BASIN)  
 1 NOT TO SCALE

REVISIONS	NO.	DATE	REMARKS

SCALE  
 1"=30' (22"x34")  
 1"=60' (11"x17")

DATE  
 6-23-14

DRAFTER  
 BSCH

CHECKED  
 CMAT

PROJECT NO.  
 130152.00

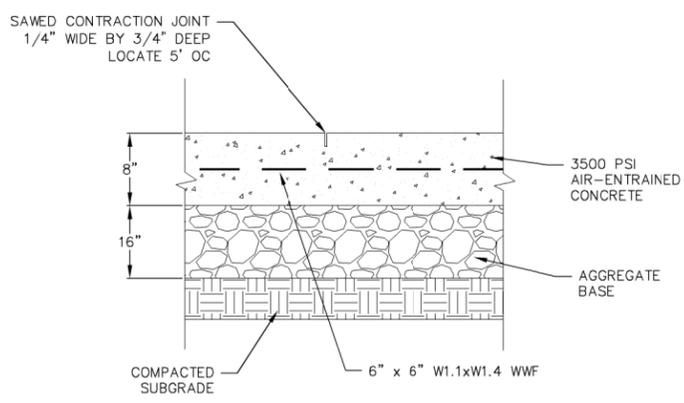
SHEET  
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DWG. NO.

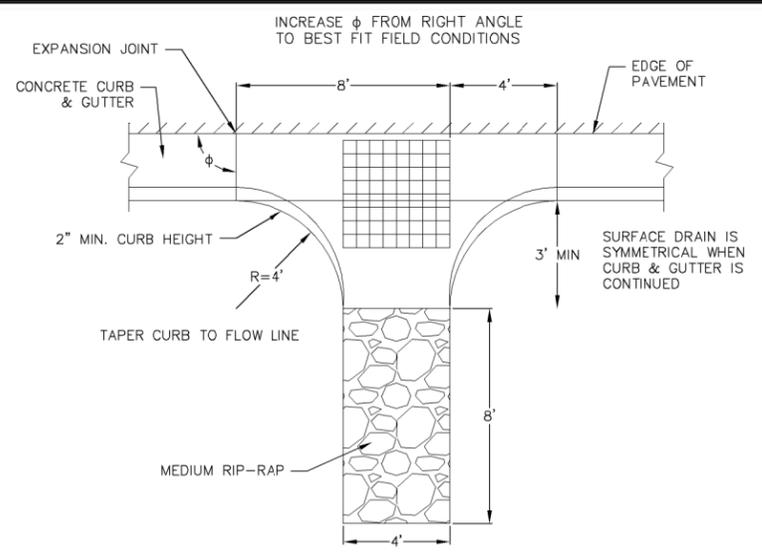


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M:\Monona\_City\_of\_Monona\_City\_of\_130152\_Lottes\_Park\_Improvements\Engineering\Civil\3D\Lottes\_Park\_Base\_Map.dwg by: bsch 23 Jun 2014 - 3:42p

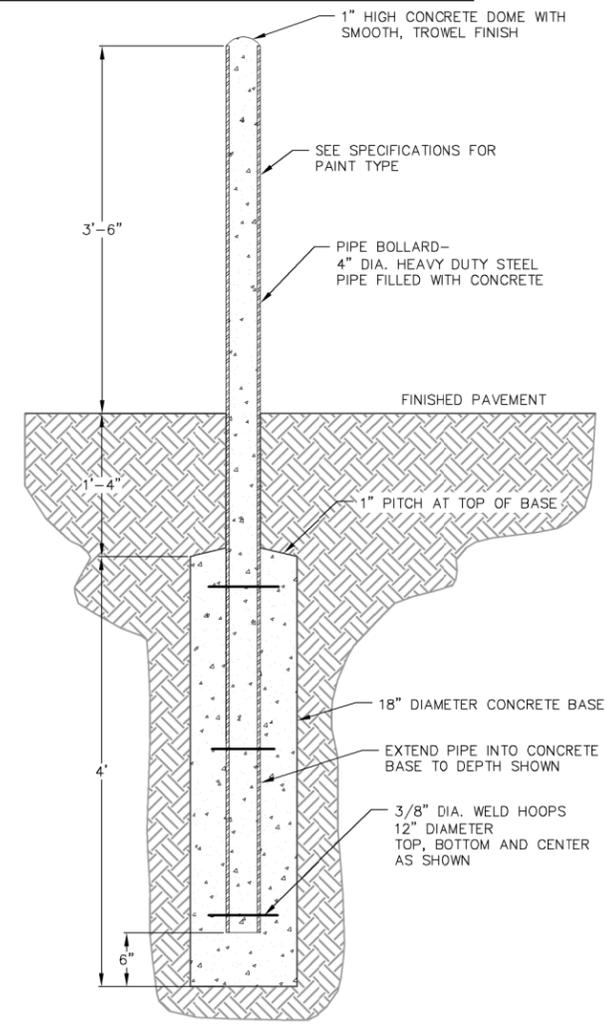


1 CONCRETE PAD  
1 NOT TO SCALE

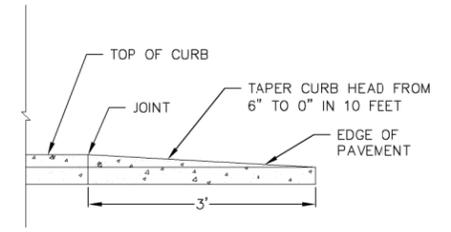


CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.

1 CONCRETE SURFACE DRAIN  
1 NOT TO SCALE

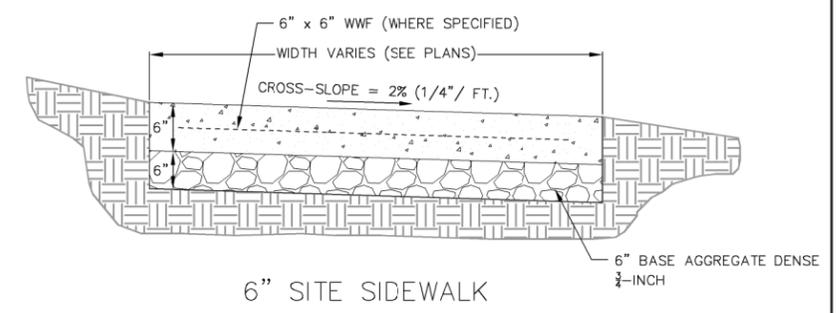


1 PIPE BOLLARD  
1 NOT TO SCALE

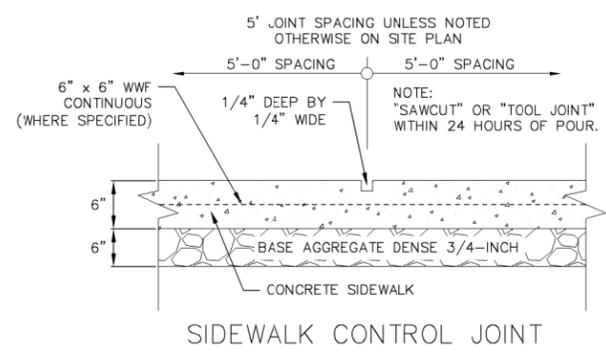


PROFILE VIEW

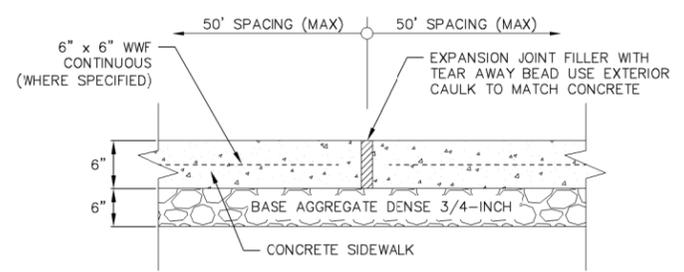
1 CURB & GUTTER TERMINATION  
1 NOT TO SCALE



6" SITE SIDEWALK

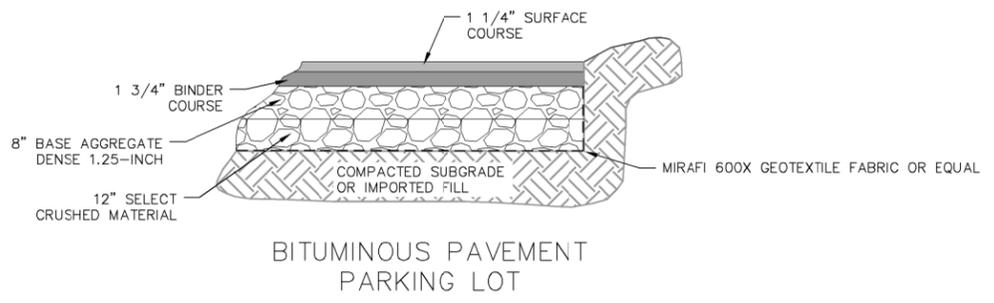


SIDEWALK CONTROL JOINT



SIDEWALK EXPANSION JOINT

1 6" SIDEWALK  
1 NOT TO SCALE



BITUMINOUS PAVEMENT PARKING LOT

1 SITE PAVEMENT  
1 NOT TO SCALE

REVISIONS	NO.	DATE	REMARKS

SCALE  
1"=30' (22"x34")  
1"=60' (11"x17")

DATE  
6-23-14

DRAFTER  
BSCH

CHECKED  
CMAT

PROJECT NO.  
130152.00

SHEET  
11 OF 13

DWG. NO.









**TYPE OA      PARKING LOT**

# OSQ Series

LED Area/Flood Luminaire – Medium

## Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'A' Input power designator is a suitable upgrade for HID applications up to 250 Watt. 'J' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

**Applications:** Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways.

## Performance Summary

Utilizes BetaLED® Technology

NanoOptic® Precision Delivery Grid™ optic

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty\*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

## Accessories

<b>Field-Installed</b>	
<b>Backlight Shield</b> OSQ-BLSMF – Front facing optics	OSQ-BLSMR – Rotated optics

## Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:

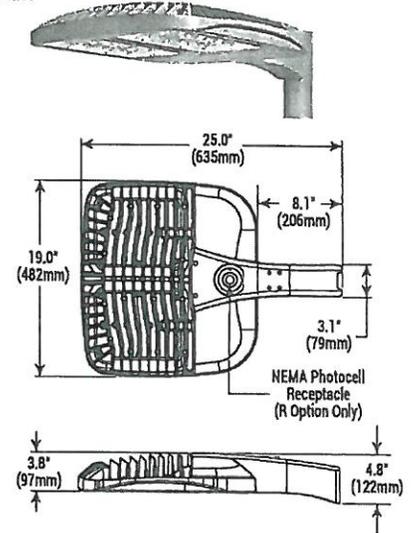
Example: Mount: OSQ-AA SV + Luminaire: OSQ A NM 2ME A 40K-UL SV

<b>Mount (Luminaire must be ordered separately)</b>	
OSQ-	
OSQ-AA Adjustable Arm OSQ-DA Direct Arm	Color Options: SV Silver BK Black <b>BZ Bronze</b> PB Platinum Bronze      WH White

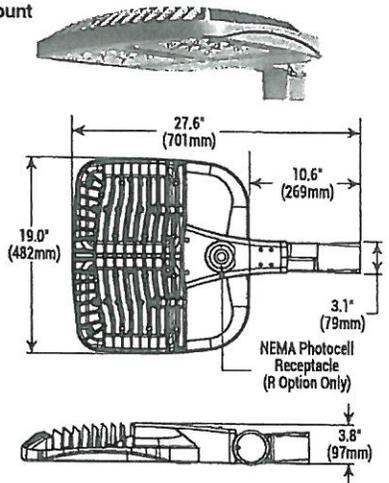
<b>Luminaire (Mount must be ordered separately)</b>											
OSQ	A	NM	Optic		Input Power Designator	CCT	–	Voltage	Color Options	Options	
OSQ	A	NM No Mount	2ME+ Type II Medium 3ME+ Type III Medium 4ME+ Type IV Medium 5ME Type V Medium SSH Type V Short	15D 15' Flood 25D 25' Flood 40D 40' Flood 50D 60' Flood	A 112W J 168W	30K 3000K 40K 4000K 57K 5700K	– US * Canada	UL Universal 120-277V UH Universal 347-480V	SV Silver BK Black BZ Bronze PB Platinum Bronze WH White	<b>DIM</b> 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed wattage of specified input power designator <b>F</b> Fuse - When code dictates fusing, use time delay fuse <b>ML</b> Multi-Level - Refer to ML spec sheet for details - High: 100%, Low: 30% - Intended for downlight applications at 0° tilt	<b>O9</b> Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details <b>R</b> NEMA® Photocell Receptacle - Intended for downlight applications at 0° tilt - Photocell by others <b>RL</b> Rotate Left - LED and optic are rotated to the left <b>RR</b> Rotate Right - LED and optic are rotated to the right

\* See [www.cree.com/lighting/products/warranty](http://www.cree.com/lighting/products/warranty) for warranty terms  
 \* Available with Backlight Shield when ordered with field-installed accessory (see table above)

DA Mount



AA Mount



Rev. Date: 05/27/14



US: [www.cree.com/lighting](http://www.cree.com/lighting)

T (800) 236-6800 F (262) 504-5415

Canada: [www.cree.com/canada](http://www.cree.com/canada)

T (800) 473-1234 F (800) 890-7507

OSQ Series – Medium

**Product Specifications**

**CONSTRUCTION & MATERIALS**

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adapter is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adapter is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5' increments
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, white, and platinum bronze are available
- Weight: 26.5 lbs. (12kg)

**ELECTRICAL SYSTEM**

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Pending certification to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA

Electrical Data							
Input Power Designator	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
A	112	0.97	0.56	0.49	0.43	0.34	0.25
J	168	1.47	0.85	0.74	0.64	0.50	0.36

Recommended Cree® Outdoor Luminaire Lumen Maintenance Factors (LMF) <sup>1</sup>						
Ambient	Input Power Designator	Initial LMF	25K hr Projected <sup>2</sup> LMF	50K hr Projected <sup>3</sup> LMF	75K hr Calculated <sup>3</sup> LMF	100K hr Calculated <sup>3</sup> LMF
5°C (41°F)	A	1.04	0.99	0.94	0.88	0.84
	J					
10°C (50°F)	A	1.03	0.98	0.93	0.88	0.83
	J					
15°C (59°F)	A	1.02	0.97	0.92	0.87	0.83
	J					
20°C (68°F)	A	1.01	0.96	0.91	0.86	0.82
	J					
25°C (77°F)	A	1.00	0.95	0.90	0.85	0.81
	J					

<sup>1</sup> Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing  
<sup>2</sup> In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip  
<sup>3</sup> In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

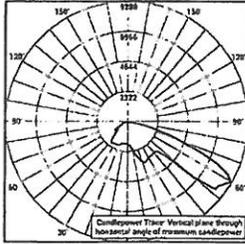


OSQ Series – Medium

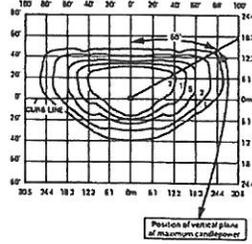
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree.com/lighting>.

2ME



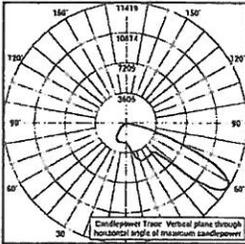
RESTL Test Report #: PL03347-001  
OSQ A \*\* 2ME A 40K-UL  
Initial Delivered Lumens: 10,986



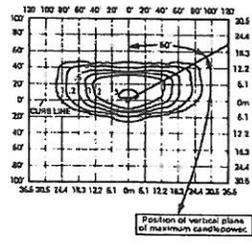
OSQ A \*\* 2ME J 40K-UL  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 16,356  
Initial FC at grade

Type II Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	10,075	B2-U0-G2	10,904	B2-U0-G2	11,649	B2-U0-G2
J	15,113	B3-U0-G2	16,356	B3-U0-G2	17,474	B3-U0-G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt



RESTL Test Report #: PL03642-003  
OSQ A \*\* 2ME J 40K-UL w/OSQ-BLSMF  
Initial Delivered Lumens: 14,643

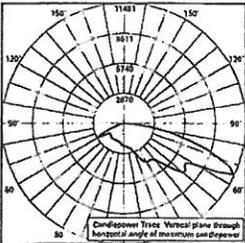


OSQ A \*\* 2ME J 40K-UL w/OSQ-BLSMF  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 14,020  
Initial FC at grade

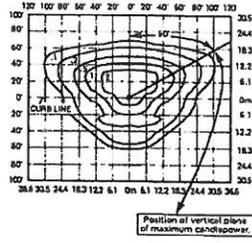
Type II Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,636	B2-U0-G1	9,346	B2-U0-G2	9,985	B2-U0-G2
J	12,954	B2-U0-G2	14,020	B2-U0-G2	14,978	B2-U0-G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt

3ME



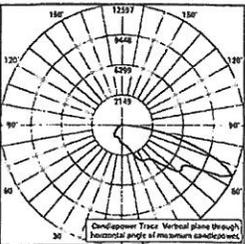
RESTL Test Report #: PL03478-001  
OSQ A \*\* 3ME J 40K-UL  
Initial Delivered Lumens: 16,257



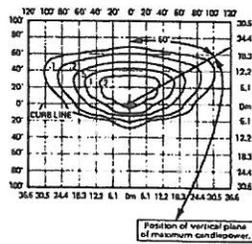
OSQ A \*\* 3ME J 40K-UL  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 16,189  
Initial FC at grade

Type III Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	9,972	B2-U0-G2	10,793	B2-U0-G2	11,530	B2-U0-G2
J	14,958	B3-U0-G3	16,189	B3-U0-G3	17,296	B3-U0-G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt



RESTL Test Report #: PL03642-001  
OSQ A \*\* 3ME J 40K-UL w/OSQ-BLSMF  
Initial Delivered Lumens: 14,229



OSQ A \*\* 3ME J 40K-UL w/OSQ-BLSMF  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 13,853  
Initial FC at grade

Type III Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,533	B1-U0-G2	9,235	B1-U0-G2	9,866	B1-U0-G2
J	12,799	B2-U0-G3	13,853	B2-U0-G3	14,799	B2-U0-G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Eratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt

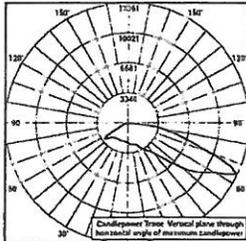


OSQ Series – Medium

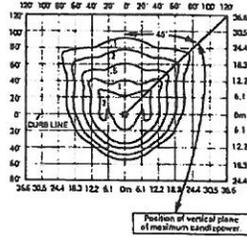
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree.com/lighting>.

4ME



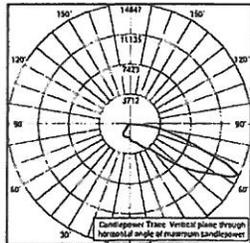
RESTL Test Report #: PL03496-001  
OSQ A \*\* 4ME J 40K-UL  
Initial Delivered Lumens: 16,293



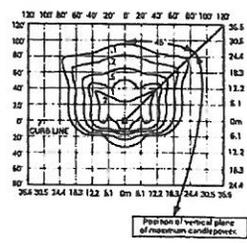
OSQ A \*\* 4ME J 40K-UL  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 16,022  
Initial FC at grade

Type IV Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	9,869	B2-U0-G2	10,682	B2-U0-G2	11,412	B2-U0-G3
J	14,804	B3-U0-G3	16,022	B3-U0-G3	17,117	B3-U0-G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt



RESTL Test Report #: PL03642-002  
OSQ A \*\* 4ME J 40K-UL w/OSQ-BLSMF  
Initial Delivered Lumens: 13,647

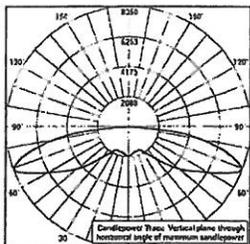


OSQ A \*\* 4ME J 40K-UL w/OSQ-BLSMF  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 14,020  
Initial FC at grade

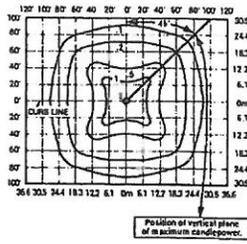
Type IV Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,430	B1-U0-G2	9,124	B1-U0-G2	9,747	B1-U0-G2
J	12,645	B2-U0-G3	13,686	B2-U0-G3	14,621	B2-U0-G3

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt

5ME



RESTL Test Report #: PL03466-001  
OSQ A \*\* 5ME S 40K-UL  
Initial Delivered Lumens: 20,709

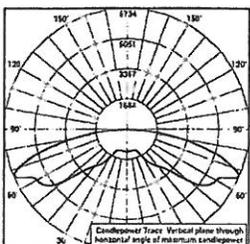


OSQ A \*\* 5ME S 40K-UL  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 15,480  
Initial FC at grade

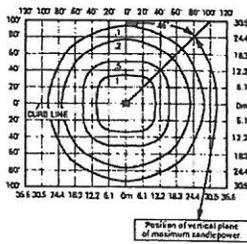
Type V Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,716	B3-U0-G3	10,320	B4-U0-G3	10,473	B4-U0-G3
J	13,075	B4-U0-G4	15,480	B4-U0-G4	16,710	B4-U0-G4

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt

5SH



RESTL Test Report #: PL03501-001  
OSQ A \*\* 5SH S 40K-UL  
Initial Delivered Lumens: 21,066



OSQ A \*\* 5SH S 40K-UL  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 15,817  
Initial FC at grade

Type V Short Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,906	B3-U0-G3	10,544	B4-U0-G3	10,701	B4-U0-G3
J	13,359	B4-U0-G3	15,817	B4-U0-G4	16,052	B4-U0-G4

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt



OSQ Series – Medium

**Photometry**

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree.com/lighting>.

15D

15' Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,716	10,320	10,473
J	13,075	15,480	15,710

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

25D

25' Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,527	10,096	10,246
J	12,790	15,144	15,369

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

40D

40' Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,337	9,871	10,018
J	12,506	14,807	15,027

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens



OSQ Series – Medium

**Photometry**

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree.com/lighting>.

60D

60° Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,148	9,647	9,790
J	12,222	14,471	14,686

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

OSQ Series – Medium

Luminaire EPA

Fixed Arm Mount – OSQ-DA Weight: 26.5 lbs. (12kg)							
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
0.74	1.48	1.19	1.93	1.63	3.33	4.66	4.57

Adjustable Arm Mount – OSQ-AA Weight: 26.5 lbs. (12kg)							
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
Tenon Configuration (0°-80° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3	PB-2A*; PB-2R**; PD-2A4(180); PT-2(180); PW-2A3	PD-2A4(90); PT-2(90)	PD-3A4(90); PT-3(90)	PT-3(120)	PB-3A*; PB-3R**	PB-4(180)	PB-4A*(90); PB-4R**; PD-4A4(90); PT-4(90)
<b>0° Tilt</b>							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	4.57
<b>10° Tilt</b>							
0.76	1.48	1.49	2.23	2.15	4.22	5.84	5.17
<b>20° Tilt</b>							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	5.91
<b>30° Tilt</b>							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	6.59
<b>45° Tilt</b>							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	7.57
<b>60° Tilt</b>							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	8.33
<b>70° Tilt</b>							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	8.66
<b>80° Tilt</b>							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	8.83
Tenon Configuration (90° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3	PB-2A*; PB-2R**; PD-2A4(180); PT-2(180); PW-2A3	PB-2A*	PB-3A*	PT-3(120)	PB-3A*; PB-3R**	PB-4(180)	PB-4A*(90); PB-4R**
<b>90° Tilt</b>							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R**	0.92
PB-3R**	1.62
PB-4R**	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3***	0.47
PW-2A3***	0.94

\* Specify pole size  
 \*\* Specify round pole or tenon dimensions  
 \*\*\* These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height

Tenons and Brackets (must specify color)	
<b>Square Internal Mount Vertical Tenons (Steel)</b> - Mounts to 3'-6" (76-152mm) square aluminum or steel poles PB-1A* - Single PB-2A* - 180° Twin PB-3A* - 180° Triple PB-4A*(90) - 90° Quad PD-4A*(180) - 180° Quad	<b>Round Internal Mount Vertical Tenons (Steel)</b> - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons PB-2R2.375 - Twin PB-3R2.375 - Triple PB-4R2.375 - Quad
<b>Square Internal Mount Horizontal Tenons (Aluminum)</b> - Mounts to 4" (102mm) square aluminum or steel poles PD-2A4(90) - 90° Twin PD-2A4(180) - 180° Twin PD-3A4(90) - 90° Triple PD-4A4(90) - 90° Quad	<b>Round External Mount Horizontal Tenons (Aluminum)</b> - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons - Mounts to square pole with PB-1A* tenon PT-1H - Single PT-2H(90) - 90° Twin PT-2H(180) - 180° Twin PT-3H(90) - 90° Triple PT-4H(90) - 90° Quad
<b>Wall Mount Brackets</b> - Mounts to wall, roof or side of wood pole WM-2 - Standard WM-4 - L-Shape	<b>Mid-Pole Bracket</b> - Mounts to square pole PW-1A3* - Single PW-2A3* - Double

\* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") \*\* Specify pole size: 4 (4"), 5 (5"), or 6 (6")

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US: www.cree.com/lighting

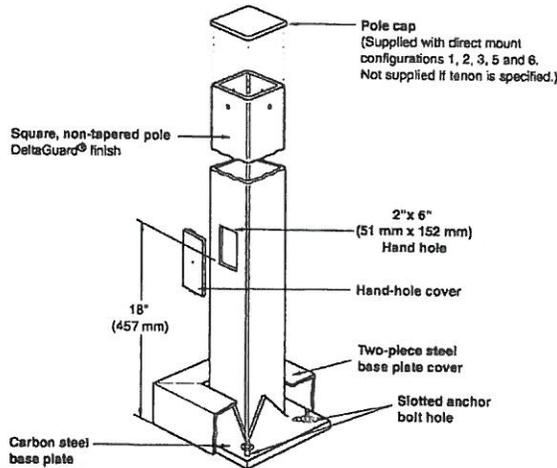
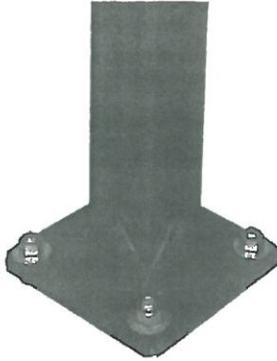
T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Beta Catalog Number: - -



Notes:

Catalog Number	Height (feet) x Width (inches) x Wall (inches)	Bolt Circle/Range (inches)	Bolt Size (inches)	Pole "EPA" Ratings Pole Base Wind Velocity										Mount Configuration*	Color Options†
				70	80	90	100	110	120	130	140				
<input type="checkbox"/> PS3S10C*†	10 x 3 x 0.125	10/9.3-11	3/4	31.4	23.6	18.2	14.3	11.5	9.3	7.0	6.3	<input type="checkbox"/> 1	<input type="checkbox"/> Single¹	<input type="checkbox"/> BZ	
<input type="checkbox"/> PS3S15C*†	15 x 3 x 0.125	10/9.3-11	3/4	18.5	13.4	9.9	7.4	5.5	4.1	3.0	2.2	<input type="checkbox"/> 2	<input type="checkbox"/> Twin @ 180°¹	<input type="checkbox"/> BK	
<input type="checkbox"/> PS3S20C*†	20 x 3 x 0.125	10/9.3-11	3/4	11.5	7.8	5.2	3.3	2.0	0.9	0.1	0.0	<input type="checkbox"/> 3	<input type="checkbox"/> Twin @ 90°¹	<input type="checkbox"/> WH	
<input type="checkbox"/> PS4S10C*†	10 x 4 x 0.125	10/9.3-11	3/4	59.9	45.2	35.1	27.9	22.6	18.5	15.4	12.9	<input type="checkbox"/> 5	<input type="checkbox"/> Triple¹	<input type="checkbox"/> PB	
<input type="checkbox"/> PS4S12C*†	12 x 4 x 0.125	10/9.3-11	3/4	48.4	36.2	27.9	21.9	17.5	14.2	11.6	9.5	<input type="checkbox"/> 6	<input type="checkbox"/> Quad¹	<input type="checkbox"/> SV	
<input type="checkbox"/> PS4S15C*†	15 x 4 x 0.125	10/9.3-11	3/4	36.5	26.9	20.3	15.6	12.1	9.5	7.4	5.8	<input type="checkbox"/> T	<input type="checkbox"/> Tenon²		
<input type="checkbox"/> PS4S17C*†	17 x 4 x 0.125	10/9.3-11	3/4	30.7	22.3	16.6	12.5	9.4	7.1	5.3	3.9				
<input type="checkbox"/> PS4S20C*†	20 x 4 x 0.125	10/9.3-11	3/4	24.0	16.9	12.1	8.7	6.1	4.2	2.7	1.5				
<input type="checkbox"/> PS4S22C*†	22 x 4 x 0.125	10/9.3-11	3/4	20.4	14.0	9.7	6.6	4.3	2.5	1.2	0.1				
<input type="checkbox"/> PS4S25C*†	25 x 4 x 0.125	10/9.3-11	3/4	15.9	10.4	6.6	3.9	1.9	0.4	0.0	0.0				
<input type="checkbox"/> PS4S25S*†	25 x 4 x 0.188	10/9.3-11	3/4	25.3	17.6	12.3	8.5	5.7	3.6	1.9	0.6				
<input type="checkbox"/> PS4S27R*†	27 x 4 x 0.125	10/9.3-11	3/4	22.0	14.9	10.0	6.6	4.0	2.0	0.0	0.0				
<input type="checkbox"/> PS4S30R*†	30 x 4 x 0.125	10/9.3-11	3/4	17.7	11.4	7.1	4.0	1.7	0.0	0.0	0.0				
<input type="checkbox"/> PS4S30H*†	30 x 4 x 0.188	10/9.3-11	3/4	19.5	12.5	7.8	4.4	1.9	0.0	0.0	0.0				
<input type="checkbox"/> PS5S25S*†	25 x 5 x 0.188	10/9.7-11.3	1	43.9	31.4	22.8	16.6	12.1	8.7	6.0	3.8				
<input type="checkbox"/> PS5S30S*†	30 x 5 x 0.188	10/9.7-11.3	1	32.2	21.9	14.9	9.9	6.2	3.4	1.2	0.0				
<input type="checkbox"/> PS6S30S*†	30 x 6 x 0.188	11.5/11.3-12.8	1	50.8	35.7	25.3	17.9	12.4	8.2	4.9	2.4				

**Field-Installed Accessories**

**GFI Outlet Accessory - 120V**



- REC-GF1BZ
- REC-GF1BK
- REC-GF1WH
- REC-GF1PB
- REC-GF1SV

1-Direct mount pole configuration; add prefix "2" to configuration numbers for fixtures with Fixed 20° mount (i.e. "21", "22", "23", "25", "26") Example PS6S30S21BZ  
 2-Order tenon separately

**General Description**

Non-tapered square steel poles are supplied with welded base with cover, four galvanized anchor bolts, masonite mounting template and a pole cap (except tenon mount). Each anchor bolt is provided with two washers and two nuts. Steel pole base has slotted holes. Per National Electrical Code requirements, pole is standard with a 2" x 6" (51 x 152 mm) hand hole, located 18" (457 mm) above bottom of pole base. A #10-32 stainless-steel weld stud with grounding lug is located inside pole, opposite hand hole; a hand hole cover is supplied but shipped separately. In addition, 4" x 27' and 4" x 30' poles include an internal 5/16" steel reinforced sleeve welded inside the bottom 24" of the pole, as well as a reinforcement welded around the hand hole for added strength.

**Materials**

Square, non-tapered pole of structural steel tubing (ASTM A 500); with a minimum yield strength of 46,000 p.s.i. Welded to a formed carbon steel base plate with a minimum yield strength of 36,000 p.s.i.

**Finish**

Exclusive Colorfast DeltaGuard™ finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our 7 year limited warranty.

**Labels**

Beta Lighting square steel poles meet or exceed National Electrical Code Requirements. In the US, Beta square poles are classified by Underwriters Laboratories Inc. for electrical ground bonding; in Canada, they are CSA certified for electrical ground bonding and structural strength.

**Patents**

US 5,820,255; 6,640,517; Patent pending

**PS3S10C(a)BZ**

10' (3.0 m) x 3" (76 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.50" (13 mm) thick  
 Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 250 lbs. (114 Kg)  
 Approximate shipping weight – 58 lbs. (26 Kg)

**PS3S15C(a)BZ**

15' (4.6 m) x 3" (76 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 250 lbs. (114 Kg)  
 Approximate shipping weight – 82 lbs. (37 Kg)

**PS3S20C(a)BZ**

20' (6.1 m) x 3" (76 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 250 lbs. (114 Kg)  
 Approximate shipping weight – 119 lbs. (54 Kg)

**PS4S10C(a)BZ**

10' (3.0 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 350 lbs. (159 Kg)  
 Approximate shipping weight – 78 lbs. (35 Kg)

**PS4S12C(a)BZ**

12' (3.7 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 18" (457 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 300 lbs. (136 Kg)  
 Approximate shipping weight – 99 lbs. (45 Kg)

**PS4S15C(a)BZ**

15' (4.6 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 350 lbs. (159 Kg)  
 Approximate shipping weight – 119 lbs. (54 Kg)

**PS4S17C(a)BZ**

17' (5.2 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 300 lbs. (136 Kg)  
 Approximate shipping weight – 131 lbs. (59 Kg)

**PS4S20C(a)BZ**

20' (6.1 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 350 lbs. (159 Kg)  
 Approximate shipping weight – 150 lbs. (68 Kg)

**PS4S22C(a)BZ**

22' (6.7 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 310 lbs. (141 Kg)  
 Approximate shipping weight – 163 lbs. (74 Kg)

**PS4S25C(a)BZ**

25' (7.6 m) x 4" (102 mm)  
 Wall thickness – 0.125" (5 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 350 lbs. (159 Kg)  
 Approximate shipping weight – 182 lbs. (83 Kg)

**PS4S25S(a)BZ**

25' (7.6 m) x 4" (102 mm)  
 Wall thickness – 0.188" (5 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 350 lbs. (159 Kg)  
 Approximate shipping weight – 252 lbs. (114 Kg)

**PS4S27R(a)BZ**

27' (8.2 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 280 lbs. (127 Kg)  
 Approximate shipping weight – 232 lbs. (105 Kg)

**PS4S30R(a)BZ**

30' (9.1 m) x 4" (102 mm)  
 Wall thickness – 0.125" (3 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 315 lbs. (143 Kg)  
 Approximate shipping weight – 301 lbs. (137 Kg)

**PS4S30H(a)BZ**

30' (9.1 m) x 4" (102 mm)  
 Wall thickness – 0.188" (5 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 3/4"-10 x 30" (762 mm) + 3" (76 mm)  
 Bolt circle diameter – 10" (254 mm) 9.3" – 11" (235 mm – 279 mm)  
 Maximum fixture weight – 340 lbs. (155 Kg)  
 Approximate shipping weight – 337 lbs. (153 Kg)

**PS5S25S(a)BZ**

25' (7.6 m) x 5" (127 mm)  
 Wall thickness – 0.188" (5 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 1"-8 x 36" (914 mm) + 4" (102 mm)  
 Bolt circle diameter – 10" (254 mm) 9.7" – 11.3" (248 mm – 287 mm)  
 Maximum fixture weight – 450 lbs. (204 Kg)  
 Approximate shipping weight – 320 lbs. (145 Kg)

**PS5S30S(a)BZ**

30' (9.1 m) x 5" (127 mm)  
 Wall thickness – 0.188" (5 mm)  
 Base plate – 10" (254 mm) square x 0.750" (19 mm) thick  
 Anchor bolts – 1"-8 x 36" (914 mm) + 4" (102 mm)  
 Bolt circle diameter – 10" (254 mm) 9.7" – 11.3" (248 mm – 287 mm)  
 Maximum fixture weight – 375 lbs. (170 Kg)  
 Approximate shipping weight – 379 lbs. (172 Kg)

**PS6S30S(a)BZ**

30' (9.1 m) x 6" (152 mm)  
 Wall thickness – 0.188" (5 mm)  
 Base plate – 12" (305 mm) square x 1" (25 mm) thick  
 Anchor bolts – 1"-8 x 36" (914 mm) + 4" (102 mm)  
 Bolt circle diameter – 11.5" (292 mm) 11.3" – 12.8" (286 mm – 324 mm)  
 Maximum fixture weight – 525 lbs. (238 Kg)  
 Approximate shipping weight – 457 lbs. (207 Kg)



# THE EDGE® PWY-EDG-5M

Pathway Luminaire - Type V Medium

**TYPE OC BOLLARDS**

## Product Description

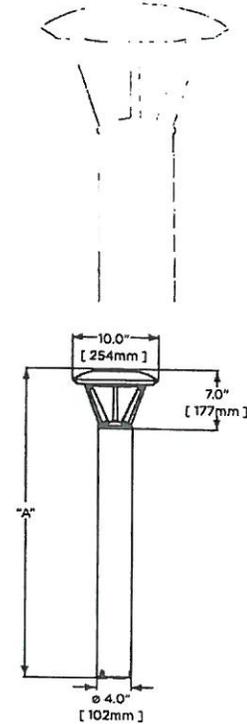
Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by (3) 3/8-16 anchor bolts (provided). Note: T45 Torx 3/8 socket required for head installation. Top mounted LEDs for superior optical performance and light control.

## Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CRI: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Warranty: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish\*
- EPA and Weight: Reference EPA and Weight spec sheet

## Accessories

Field Installed Accessories
XA-XBP8RSV
XA-XBP8BK
XA-XBP8RWH
XA-XBP8RBZ
XA-XBP8RPB
Retro-Fit Kit
- Used for replacement of existing bollards



Model	Dim. "A"
Landscape-13	13" [330mm]
Landscape-18	18" [457mm]
Pathway	36" [914mm]
Pathway	42" [1067mm]
Pedestrian	96" [2438mm]

## Ordering Information

Example: PWY-EDG-5M-P0-02-D-UL-SV-350-OPTIONS

PWY-EDG	5M		O2	D				
Product	Optic	Mounting	LED Count (x3)	Version	Voltage	Color Options	Drive Current	Options
PWY-EDG	5M Type V Medium	P0 13" (330mm) P1 18" (457mm) P3 3' (0.9m) P4 42" (1068mm) P8 8' (2.4m)	O2	D	UL Universal 120-277V UH' Universal 347-480V 12 120V 240V 27 347V 34' 347V 48' 480V	SV Silver (Standard) BK Black BZ Bronze PB Platinum WH White	350 350mA 525" 525mA	40K 4000K Color Temperature - Color temperature per luminaire F Fuse - When code dictates fusing, use time delay fuse - Not available with all ML options. Refer to ML spec sheet for availability with ML options HL Hi / Low (175/350/525 Dual Circuit Input) - Refer to ML spec sheet for details - Sensor not included TL Two-Level (175/525 w/ integrated sensor control) - Refer to ML spec sheet for details TL2 Two-Level (0/350 w/ integrated sensor control) - Refer to ML spec sheet for details TL3 Two-Level (0/525 w/ integrated sensor control) - Refer to ML spec sheet for details WB Welded Base - Standard on P8 mounting option, available with P1, P3, and P4 mounting options

\* Available with P3, P4 and P8 mounting options.  
 \*\* Available with P1, P3, P4 and P8 mounting options.  
 † See [www.cree.com/lighting](http://www.cree.com/lighting) for warranty terms.



Rev. Date 11/09/2012



Pathway Luminaire - Type V Medium

**Product Specifications**

**CONSTRUCTION & MATERIALS**

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by (3) 3/8-16 anchor bolts (provided)
- Note: T45 Torx 3/8 socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Bronze, black, white, and platinum bronze are also available

**ELECTRICAL SYSTEM**

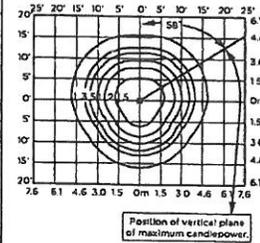
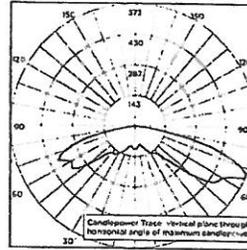
- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Luminaire also available with CE listing
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- ENERGY STAR Qualified LED Lighting
- Dark Sky Friendly, IDA Approved
- RoHS Compliant
- Meets Buy American requirements within ARRA

**Photometry**

All published luminaire photometric testing performed to IESNA LM-79-08 standards by Independent Testing Laboratories, a NVLAP certified laboratory



ITL Test Report #: 70714  
 PWY-EDG-5M-\*\*-02-D-UL-350  
 Initial Delivered Lumens: 1,520

PWY-EDG-5M-\*\*-02-D-UL-350  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 1,520  
 Initial FC at grade

IES Files  
 To obtain an IES file specific to your project consult:  
<http://www.cree.com/lighting/tools-and-support/exterior-ies-configuration-tool>

**Lumen Output, Electrical, and Lumen Maintenance Data**

Type V Medium Distribution													
LED Count (x10)	5700K		4000K		System Watts 120-480V	TOTAL CURRENT				System Watts 347-480V**	TOTAL CURRENT		50K Hours Projected Lumen Maintenance Factor @ 15° C (55° F)**
	Initial Delivered Lumens	BUG Ratings* Per TM-15-11	Initial Delivered Lumens	BUG Ratings* Per TM-15-11		120V	208V	240V	277V		347V	480V	
<b>350mA @ 25° C (77° F)</b>													
18	1,498	B1 U1 G1	1,380	B1 U1 G1	22	0.18	0.12	0.10	0.10	28	0.09	0.13	91%
<b>525mA @ 25° C (77° F)</b>													
18	2,097	B2 U1 G2	1,932	B1 U1 G1	34	0.29	0.19	0.17	0.15	40	0.12	0.13	89%

\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit [www.iesna.org/PDF/Errata/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Errata/TM-15-11BugRatingsAddendum.pdf)  
 \*\* Utilizes magnetic step-down transformer when 525mA drive current or multi-level options are selected  
 \*\*\* Projected L<sub>e</sub> (10K) Hours >60,000 For recommended lumen maintenance factor data see TD-13

